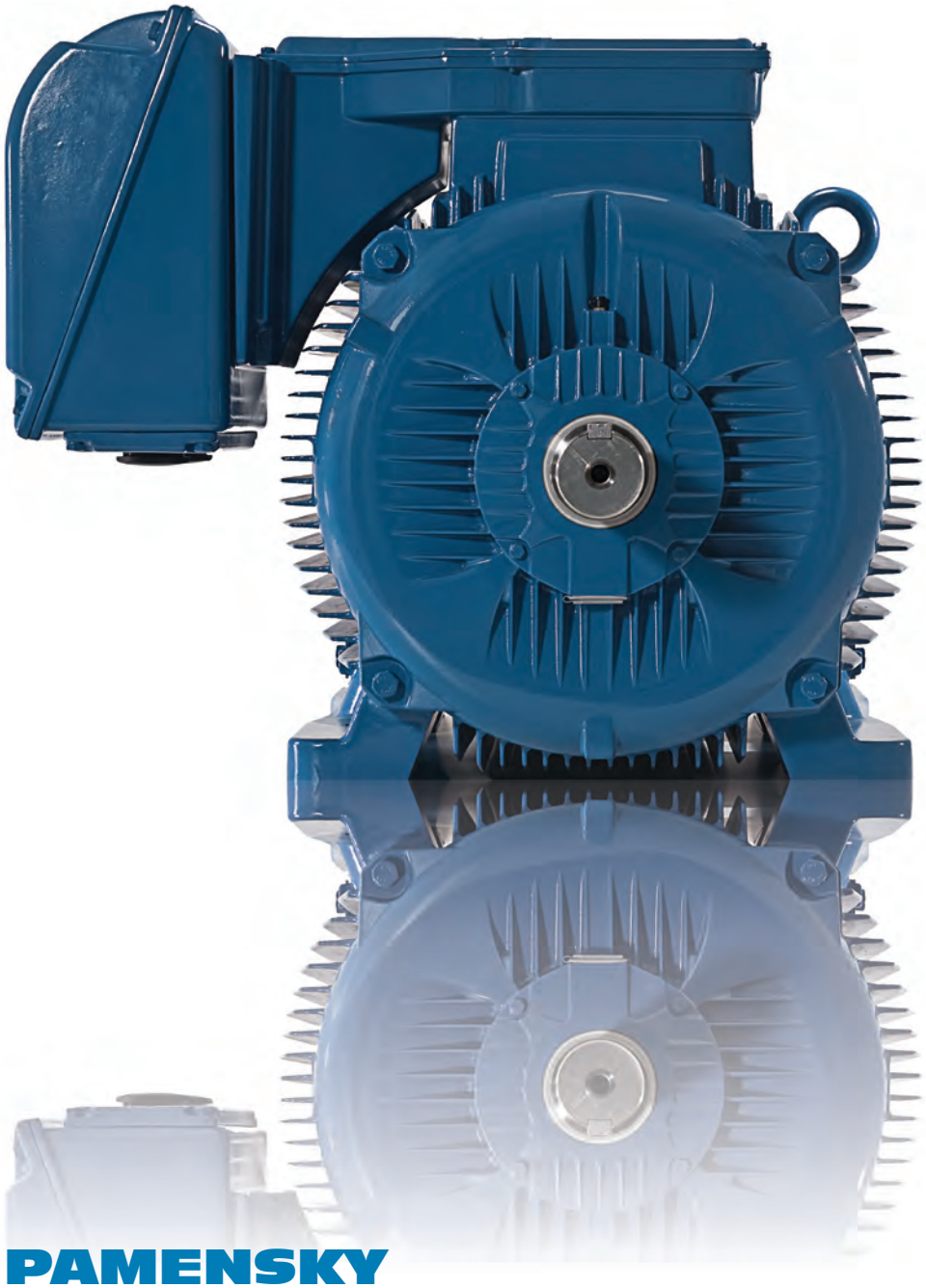
Motors



PAMENSKY

Worldwide Entities That Have Approved WEG

Argentina	
Australia	Test Safe
Belgium	
Brazil	INMETRO, CEPEL
Canada	
China	CNEX 国家防爆
France	
Germany	PTB, VDE Prüf- und Zertifizierungsinstitut
Italy	CESI
Japan	
Mexico	NOM, ANCE, FIDE
Norway	DNV
Portugal	INERIS
Switzerland	
Saudi Arabia	
South Africa	SABS, SABS
United Kingdom	Lloyd's Register, BSRIA, Baseefa
Russia	
United States	ABS, UL

The Companies

WEG

Founded in 1961, WEG is acknowledged today as one of the largest manufacturers of electric motors in the world. Twenty two thousand people are employed in the different manufacturing units which cover over 1,000,000 square meters of constructed area.
In support of exports in over 100 countries worldwide, WEG has branch offices located in all five continents. WEG's great success with export activities is based on the company's willingness to meet worldwide standard requirements, keeping product inventories in strategic locations personel training and prompt service.

V.J. Pamensky Canada Inc.

V.J. Pamensky Canada Inc. was founded in Toronto, Ontario in September 1977 as the exclusive importer of WEG Electric Motors. The original inventory was small, as were the premises, but these electric motors quickly found a place in the Canadian industrial market. From these beginnings, growth came rapidly, resulting in successive moves to different locations in order to meet the demands for increased inventory and service.
Today, VJ Pamensky Canada Inc. is one of the largest importers of electric motors in Canada with offices and warehouses across the country. V.J. Pamensky Canada Inc. has the largest inventory of any motor company in Canada. V.J. Pamensky Canada Inc. offers 24 hour emergency service, and will customize and modify motors to meet the customer's specifications.

WEG Automation

Low Voltage Variable Frequency Drives
Medium Voltage Variable Frequency Drives
Low Voltage Soft Starters
Medium Voltage Soft Starters
Contactors
Thermal Overload Relays
Pushbuttons and Pilot Lights

New Catalog coming 2011

STANDARD WARRANTY AND TERMS AND CONDITIONS

Warranty Period:

All WEG Electric Motor brand products sold by V.J. Pamensky Canada Inc. are warranted by the manufacturer to be free of defects in material and workmanship for the following period:

a) Low voltage standard efficiency motors NEMA & IEC frames are warranted for a period of 12 months from date of installation, but not more than 18 months from date of manufacture.

b) EPACT & NEMA Premium Efficiency motors both NEMA & IEC frames are warranted for a period of 24 months from date of installation but for not more than 30 months from date of manufacture.

c) IEEE841 motors are warranted for a period of 60 months from date of installation but for not more than 66 months from date of manufacture.

Terms and Conditions:

All sales are subject to the standard V.J. Pamensky Canada Inc. terms and conditions of sale are available on the company website: www.pamensky.com.

Restocking Policy:

All returned goods are subject to prior approval and must be accompanied by a return goods authorization (RGA) number. These goods must be returned within 30 days, freight prepaid, in resalable condition and in original packaging. The standard restocking charge is 15% but the charge may be higher depending on the condition of the product and packaging being returned.

Standard Warranty Procedures:

For motors 143T frame and above the following procedure applies: Correspondence may be provided via e-mail, fax, or regular mail. Motor is to be inspected by a WEG Authorized Service Center or if none are available, an EASA-affiliated service shop. For motors above 30 HP pictures are required. Provide a copy of the original VJP (V.J. Pamensky Canada Inc.) sales invoice. If a warranty is granted, the motor nameplate, removed from the motor, will need to be mailed to VJP Warranty Department. All warranty related correspondence should be sent to: warranty@pamensky.com.

Authorized Service Centers:

WEG has service centers around the world to service the needs of our customers. Information regarding the nearest service center can be located by calling 1-800-ASK-4WEG (1-800-275-4934) or on our web site www.pamensky.com. Any warranty motor repair must be pre-approved by VJP.

Warranty Service:

If in the event that a WEG product should require warranty service due to defective materials or workmanship, VJP will, at its option either repair or replace the defective product. Warranty is applied to products that have been, at all times, operated or used under the normal operating conditions for which the product was designed and properly maintained. Both VJP and WEG are not responsible for any expenses incurred in installation, removal from service, transport or consequential expenses (see terms and conditions at www.pamensky.com).

Disclaimer of Expenses:

VJP and WEG disclaim all other express or implied warranties, including without limitation all implied warranties of merchantability pertaining to such product or parts. The foregoing obligation to repair or replace such products or parts shall be the sole and exclusive remedy of the purchaser, its customers, or users of the products or parts.

Warranty Contact:

warranty@pamensky.com
Phone: 1-800 275-4934
Fax: 1-416-781-4352

Table of Contents

WEG General Purpose NEMA Low Voltage Motors
Quick Features Comparison

	ODP High Efficiency Page 59	ODP NEMA Premium Efficiency Page 62	W22 High Efficiency Page 6
			
Enclosure	ODP – Open Drip–Proof	ODP – Open Drip–Proof	TEFC – Totally Enclosed Fan Cooled
Degree of Protection	IP21 – 143/5T to 213/T IP23 – 254/6T to 447/9T	IP21 – 143/5T to 213/T IP23 – 254/6T to 447/9T	IP55 IP65 – Optional IP66 – Optional
Efficiency	High Efficiency Efficiency Certification #: EEV 78282 (NRCan) Efficiency Certification #: CC029A (EPACT)	NEMA Premium Efficiency Certification #: EEV 78282 (NRCan) Efficiency Certification #: CC029A (EPACT)	High Efficiency Efficiency Certification #: EEV 78282 (NRCan) Efficiency Certification #: CC029A (EPACT)
HP Range	1 – 600 HP	1 – 600 HP	1 – 500 HP
Frame Size Range	143/5T – 447/9T	143/5T – 447/9T	364/5T – 586/7T
Frequency	60 Hz	60 Hz	60 Hz
Power (Phase)	3 Phase	3 Phase	3 Phase
Voltage	230/460V, 575V	208–230/460V, 575V	230/460V, 575V
Service Factor	1.15	1.15	1.25 – 1 to 100HP 1.15 – 125 and up for exceptions see page 9
Electrical Design	NEMA Design 'B'	NEMA Design 'B'	NEMA Design 'B'
Stator Windings	Copper	Copper	Copper
Insulation	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG! Part 31
Temperature Rise	Class B – 80K	Class B – 80K	Class B – 80K
Frame	Frame 143/5T up to 213/5T – Welded steel plate (welded feet) Frame 254/6T and up – Cast Iron	Frame 143/5T up to 213/5T – Welded steel plate (welded feet) Frame 254/6T and up – Cast Iron	Cast Iron
End Shields	Cast Iron	Cast Iron	Cast Iron
Terminal Box	Cast Iron	Cast Iron	Cast Iron
Fan Cover	N/A	N/A	Steel – 143T to 215T Cast Iron – 254T and up
Cooling Fan	Cooling System with Finned Rotor	Cooling System with Finned Rotor	Plastic – for exceptions see page __
Drip Cover	Optional	Optional	Optional
Rotor	Squirrel Cage Rotor (Aluminum Die Cast)	Squirrel Cage Rotor (Aluminum Die Cast)	Squirrel Cage Rotor (Aluminum Die Cast)
Shaft	– 1045 heat treated and stress relieved carbon steel up to Frame 364/5T. – 4140 for Frame 404/5T and up.	– 1045 heat treated and stress relieved carbon steel up to Frame 364/5T. – 4140 for Frame 404/5T and up.	– 1045 heat treated and stress relieved carbon steel up to Frame 364/5T. – 4140 for Frame 404/5T and up.
Shaft Seal / Slinger			364/5T to 504/5T – WSeal 586/7T – Tachonite Labyrinth seals
Condensation Drain			Rubber Drain Plug
Nameplate	Stainless Steel – Laser Etched	Stainless Steel – Laser Etched	Stainless Steel – Laser Etched
Paint	WEG Paint Plan 201A RAL 5009 (Blue)	WEG Paint Plan 201A RAL 5009 (Blue)	WEG Paint Plan 207A – 143T to 215T WEG Paint Plan 203A – 254T and up RAL 5009 (Blue)

WEG General Purpose NEMA Low Voltage Motors
Quick Features Comparison

W22 NEMA Premium Efficiency Page 11	W22 IEEE 841-2009 Page 39	Explosion Proof High Efficiency Page 47	Explosion Proof NEMA Premium Efficiency Page 52
			
TEFC – Totally Enclosed Fan Cooled	TEFC – Totally Enclosed Fan Cooled	TEFC – Totally Enclosed Fan Cooled	TEFC – Totally Enclosed Fan Cooled
IP55 IP65 – Optional IP66 – Optional	IP55 IP65 – Optional IP66 – Optional	IP55 IP56 – Optional	IP55 IP56 – Optional
NEMA Premium Efficiency Efficiency Certification #: EEV 78282 (NRCan) Efficiency Certification #: CC029A (EPACT)	NEMA Premium Efficiency Efficiency Certification #: EEV 78282 (NRCan) Efficiency Certification #: CC029A (EPACT)	High Efficiency Efficiency Certification #: EEV 78282 (NRCan) Efficiency Certification #: CC029A (EPACT)	NEMA Premium Efficiency Efficiency Certification #: EEV 78282 (NRCan) Efficiency Certification #: CC029A (EPACT)
1 – 700 HP	1 – 700 HP	1 – 500 HP	1 – 500 HP
143T – 588/9T	143T – 588/9T	143T – 586/7T	143T – 586/7T
60 Hz	60 Hz	60 Hz	60 Hz
3 Phase	3 Phase	3 Phase	3 Phase
208–230/460V, 575V	230, 460V, 575V	230/460V, 575V	208–230/460V, 575V
1.25 – 1 to 100HP 1.15 – 125 and up for exceptions see page 14	1.25 – 1 to 100HP 1.15 – 125 and up for exceptions see page 38	1.15 for exceptions see page 46	1.15 for exceptions see page 51
NEMA Design 'B'	NEMA Design 'B'	NEMA Design 'B'	NEMA Design 'B'
Copper	Copper	Copper	Copper
Class F Meets NEMA MG! Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31	Class F Meets NEMA MG1 Part 31
Class B – 80K	Class B – 80K	Class 'B' – 80K	Class 'B' – 80K
Cast Iron	Cast Iron	Cast Iron	Cast Iron
Cast Iron	Cast Iron	Cast Iron	Cast Iron
Cast Iron	Cast Iron	Cast Iron	Cast Iron
Steel – 143T to 215T Cast Iron – 254T and up	Cast Iron	Cast Iron	Cast Iron
Plastic – for exceptions see page __	Plastic – 143T to 444/5T, 447/9T(2P), 504/5T(2,4P) & 586/7T (2P) Bronze – 447/9T(4,6,8P), 504/5T(6,8P), 586/7T(4,6,8P) & 588/9T	Non–Sparking	Non–Sparking
Optional	Optional	Optional	Optional
Squirrel Cage Rotor (Aluminum Die Cast)	Squirrel Cage Rotor (Aluminum Die Cast)	Squirrel Cage Rotor (Aluminum Die Cast)	Squirrel Cage Rotor (Aluminum Die Cast)
– 1045 heat treated and stress relieved carbon steel up to Frame 364/5T. – 4140 for Frame 404/5T and up.	– 1045 heat treated and stress relieved carbon steel up to Frame 364/5T. – 4140 for Frame 404/5T and up.	– 1045 heat treated and stress relieved carbon steel up to Frame 364/5T. – 4140 for Frame 404/5T and up.	– 1045 heat treated and stress relieved carbon steel up to Frame 364/5T. – 4140 for Frame 404/5T and up.
364/5T to 504/5T – WSeal 586/7T & 588/9T – Tachonite Labyrinth seals	Inpro/Seal	Oil seal	Oil seal
Rubber Drain Plug	Rubber Drain Plug	Automatic Plastic Drain Plug	Automatic Plastic Drain Plug
Stainless Steel – Laser Etched	Stainless Steel – Laser Etched	Stainless Steel – Laser Etched	Stainless Steel – Laser Etched
WEG Paint Plan 207A – 143T to 215T WEG Paint Plan 203A – 254T and up RAL 5009 (Blue)	WEG Paint Plan 202E RAL 5009 (Blue)	WEG Paint Plan 201A RAL 5009 (Blue)	WEG Paint Plan 201A RAL 5009 (Blue)

W22 Severe Duty High Efficiency Motors - TEFC
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan) - CSA C390
- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 2, 4, 6 and 8 pole, 60 & 50Hz
- Voltage: 230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Squirrel cage rotor / Aluminum die cast
- WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 143T up to 504/5T (586/7 frame fitted with Taconite Labyrinth as standard)
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T
- 4140 for 404/5T shaft upwards in 4, 6 and 8 pole motors)
- Class “F” (DT 80K) insulation for all frames
- CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin
- Temperature rise limited to Class “B” (80K)
- NEMA design “B”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- NPT threaded conduit hole
- Double Gasketed terminal box
- Re-configurable Terminal Box for frames 445/7T and up
- Stainless steel nameplate AISI 316 with laser etching
- Paint: Synthetic enamel alkyd resin base (240 hours minimum ASTM B117 salt spray test)
- Paint Plan:
  - 207A - Frames 143T to 215T
  - 203A - Frames 254T to 586/7T
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain plug
- Frames 254T and up have regreasable bearings with grease fittings in DE and NDE bearings
- NEMA MG1 Part 31 rating for use with VFD

Optional Features

- Special voltages
- Special shafts
- Space heaters (standard on 586/7T frames)
- Labyrinth tachonite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- Cable glands
- C Face and NEMA D flanges for all ratings
- Roller bearings available
- Special epoxy painting

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE — Meets NEMA MG1 Part 31

INVERTER RATED

Inverter Duty

- Inverter Duty Certified for 12:1 CT & 1000:1 VT
- Inverter Duty Certified for 100:1 CT with a WEG VFD running in Optimized Flux mode
- Inverter Duty CSA certified for Division 2, Class 1, Groups A, B, C & D and Division 2, Class II, Group F & G

APPROVED BY ® LR 38324

APPROVED BY EEV 78282

W22 Severe Duty High Efficiency Motors - TEFC
Purchasing Data

High Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	3600	143T	$409	$483	$493	HT000X02PW22	1.48	1.18	75.5	34.2	12.346	0.875
	1800	143T	395	469	479	HT000X04PW22	1.44	1.15	82.5	37.5	12.346	0.875
	1200	145T	480	554	564	HT000X06PW22	1.63	1.30	80.0	44.1	13.346	0.875
	900	182T	819	903	909	HT000X08PW22	2.05	1.64	74.0	88.2	14.860	1.125
1.5	3600	143T	432	506	516	HT001X02PW22	1.99	1.59	82.5	38.6	12.346	0.875
	1800	145T	439	513	523	HT001X04PW22	2.03	1.62	84.0	40.8	13.346	0.875
	1200	182T	566	650	656	HT001X06PW22	2.24	1.79	85.5	68.4	14.860	1.125
	900	184T	889	973	979	HT001X08PW22	2.72	2.18	77.0	94.8	15.860	1.125
2	3600	145T	451	525	535	HT002X02PW22	2.64	2.11	84.0	41.9	13.346	0.875
	1800	145T	457	531	541	HT002X04PW22	2.73	2.18	84.0	43.0	13.346	0.875
	1200	184T	622	706	712	HT002X06PW22	2.98	2.38	86.5	79.4	15.860	1.125
	900	213T	1,123	1,218	1,223	HT002X08PW22	3.46	2.77	82.5	141	18.021	1.375
3	3600	182T	575	659	665	HT003X02PW22	3.67	2.94	85.5	84.9	14.860	1.125
	1800	182T	585	669	675	HT003X04PW22	3.85	3.08	87.5	83.8	14.860	1.125
	1200	213T	812	907	912	HT003X06PW22	4.15	3.32	87.5	110	18.021	1.375
	900	215T	1,347	1,442	1,447	HT003X08PW22	4.33	3.46	84.0	159	19.517	1.375
5	3600	184T	722	806	812	HT005X02PW22	5.90	4.72	87.5	88.2	15.860	1.125
	1800	184T	673	757	763	HT005X04PW22	6.49	5.19	87.5	92.6	15.860	1.125
	1200	215T	1,075	1,170	1,175	HT005X06PW22	7.08	5.66	87.5	162	19.517	1.375
	900	254T	1,968	2,153	2,184	HT005X08PW22	7.76	6.21	85.5	243	23.213	1.625
7.5	3600	213T	908	1,003	1,008	HT007X02PW22	8.90	7.12	88.5	128	18.021	1.375
	1800	213T	908	1,003	1,008	HT007X04PW22	9.31	7.45	89.5	139	18.021	1.375
	1200	254T	1,524	1,709	1,740	HT007X06PW22	9.64	7.71	89.5	227	23.213	1.625
	900	256T	2,076	2,261	2,292	HT007X08PW22	11.5	9.20	85.5	276	24.945	1.625
10	3600	215T	1,090	1,185	1,190	HT010X02PW22	11.8	9.44	89.5	143	19.517	1.375
	1800	215T	1,044	1,139	1,144	HT010X04PW22	12.5	10.0	89.5	154	19.517	1.375
	1200	256T	1,804	1,989	2,020	HT010X06PW22	13.1	10.5	89.5	251	24.945	1.625
	900	284T	2,754	2,981	3,034	HT010X08PW22	13.0	10.4	88.5	373	26.433	1.875
15	3600	254T	1,516	1,701	1,732	HT015X02PW22	17.0	13.6	90.2	238	23.213	1.625
	1800	254T	1,570	1,755	1,786	HT015X04PW22	17.8	14.2	91.0	240	23.213	1.625
	1200	284T	2,552	2,779	2,832	HT015X06PW22	17.8	14.2	90.2	344	26.433	1.875
	900	286T	3,280	3,507	3,560	HT015X08PW22	19.0	15.2	88.5	417	27.929	1.875
20	3600	256T	1,858	2,043	2,074	HT020X02PW22	23.2	18.6	90.2	265	24.945	1.625
	1800	256T	1,886	2,071	2,102	HT020X04PW22	24.3	19.4	91.0	276	24.945	1.625
	1200	286T	2,894	3,121	3,174	HT020X06PW22	24.1	19.3	91.0	390	27.929	1.875
	900	324T	4,194	4,468	4,521	HT020X08PW22	28.4	22.7	89.5	452	29.620	2.125
25	3600	284TS	2,313	2,540	2,593	HT025X02PW22	29.0	23.2	91.0	344	25.061	1.625
	1800	284T	2,341	2,568	2,621	HT025X04PW22	29.2	23.4	92.4	388	26.433	1.875
	1200	324T	3,654	3,928	3,981	HT025X06PW22	30.5	24.4	91.7	448	29.620	2.125
	900	326T	4,716	4,990	5,043	HT025X08PW22	35.5	28.4	89.5	509	31.116	2.125
30	3600	286TS	2,712	2,939	2,992	HT030X02PW22	33.7	27.0	91.0	375	26.557	1.625
	1800	286T	2,648	2,875	2,928	HT030X04PW22	34.3	27.4	92.4	419	27.929	1.875
	1200	326T	4,079	4,353	4,406	HT030X06PW22	35.8	28.6	91.7	492	31.116	2.125
	900	364/5T	6,647	7,238	7,391	HT030X08PW22	37.0	29.6	91.0	776	34.251	2.375
40	3600	324TS	3,774	4,048	4,101	HT040X02PW22	46.1	36.9	91.7	516	28.120	1.875
	1800	324T	3,633	3,907	3,960	HT040X04PW22	47.6	38.1	93.0	463	29.620	2.125
	1200	364/5T	6,841	7,432	7,585	HT040X06PW22	47.1	37.7	93.0	770	34.251	2.375
	900	364/5T	7,623	8,214	8,367	HT040X08PW22	50.5	40.4	91.0	831	34.251	2.375
50	3600	326TS	4,412	4,686	4,739	HT050X02PW22	56.5	45.2	92.4	549	29.616	1.875
	1800	326T	4,137	4,411	4,464	HT050X04PW22	58.1	46.5	93.0	512	31.116	2.125
	1200	364/5T	6,949	7,540	7,693	HT050X06PW22	58.1	46.5	93.0	816	34.251	2.375
	900	404/5T	9,487	10,078	10,231	HT050X08PRBW22	61.0	48.8	91.7	992	39.730	2.875
60	3600	364/5TS	7,262	7,853	8,006	HT060X02PW22	67.5	54.0	93.0	807	32.276	1.875
	1800	364/5T	7,117	7,708	7,861	HT060X04PW22	69.4	55.5	93.6	800	34.251	2.375
	1200	404/5T	9,505	10,096	10,249	HT060X06PRBW22	70.2	56.2	93.6	1005	39.730	2.875
	900	404/5T	11,386	11,977	12,130	HT060X08PRBW22	74.2	59.4	91.7	1047	39.730	2.875
75	3600	364/5TS	8,418	9,009	9,162	HT075X02PW22	82.5	66.0	93.0	847	32.276	1.875
	1800	364/5T	8,028	8,619	8,772	HT075X04PW22	84.3	67.4	94.1	847	34.251	2.375
	1200	404/5T	10,290	10,881	11,034	HT075X06PRBW22	85.8	68.6	93.6	1054	39.730	2.875
	900	444/5T	15,079	16,003	16,040	HT075X08PRBW22	92.8	74.2	93.0	1444	45.193	3.375

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

W22 Severe Duty High Efficiency Motors - TEFC
Purchasing Data

High Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs,)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
100	3600	404/5TS	$11,213	$11,804	$11,957	HT100X02PRBW22	112	89.6	93.6	1008	36.732	2.125
	1800	404/5T	9,829	10,420	10,573	HT100X04PRBW22	112	89.6	94.5	1094	39.730	2.875
	1200	444/5T	14,987	15,911	15,948	HT100X06PRBW22444/5T	121	96.8	94.1	1422	45.193	3.375
	900	444/5T	17,718	18,642	18,679	HT100X08PRBW22444/5T	127	102	93.0	1599	45.193	3.375
125	3600	444/5TS	16,697	17,621	17,658	HT125X02PRBW22	136	109	94.5	1464	41.443	2.375
	1800	444/5T	14,023	14,947	14,984	HT125X04PRBW22	139	111	94.5	1444	45.193	3.375
	1200	444/5T	17,221	18,145	18,182	HT125X06PRBW22	143	114	94.1	1599	45.193	3.375
	900	504/5T	27,532	28,714	28,730	HT125X08PRBW22504/5T	151	121	93.6	2110	54.095	3.625
	900	445/7T	27,532	28,456	28,493	HT125X08PRBW22445/7T	151	121	93.6	1806	49.051	3.375
150	3600	444/5TS	18,435	19,359	19,396	HT150X02PRBW22	164	131	94.5	1610	41.443	2.375
	1800	444/5T	15,775	16,699	16,736	HT150X04PRBW22	167	134	95.0	1552	45.193	3.375
	1200	504/5T	19,831	21,013	21,029	HT150X06PRBW22504/5T	175	140	95.0	2097	54.095	3.625
	1200	445/7T	18,787	19,711	19,748	HT150X06PRBW22445/7T	173	138	95.0	1810	49.051	3.375
	900	504/5T	27,532	28,714	28,730	HT150X08PRBW22504/5T	181	145	94.1	2293	54.095	3.625
	900	445/7T	27,532	28,456	28,493	HT150X08PRBW22445/7T	184	147	93.6	1965	49.051	3.375
200	3600	504/5TS	22,716	23,898	23,914	HT200X02PRBW22504/5TS	223	178	95.0	2168	48.215	2.375
	3600	445/7TS	22,716	23,640	23,677	HT200X02PRBW22445/7TS	223	178	95.0	1914	45.301	2.375
	1800	504/5T	20,243	21,425	21,441	HT200X04PRBW22504/5T	230	184	95.0	2145	54.095	3.625
	1800	445/7T	20,243	21,167	21,204	HT200X04PRBW22445/7T	230	184	95.0	1828	49.051	3.375
	1200	504/5T	25,358	26,540	26,556	HT200X06PRBW22504/5T	236	189	95.0	2368	54.095	3.625
	1200	445/7T	24,023	24,947	24,984	HT200X06PRBW22445/7T	236	189	95.0	2093	49.051	3.375
	900	447/9T	38,036	39,332	39,395	HT200X08PRBW22447/9T	252	202	94.5	2430	56.338	3.375
	900	586/7T	40,535	42,921	43,100	HT200X08PRBW22586/7T	249	199	94.5	3334	61.704	3.875
250	3600	504/5TS	23,716	24,898	24,914	HT250X02PRBW22504/5TS	270	216	95.4	2388	48.215	2.375
	3600	445/7TS	23,716	24,640	24,677	HT250X02PRBW22445/7TS	270	216	95.4	2159	45.301	2.375
	1800	504/5T	25,094	26,276	26,292	HT250X04PRBW22504/5T	283	226	95.4	2337	54.095	3.625
	1800	445/7T	25,094	26,018	26,055	HT250X04PRBW22445/7T	283	226	95.4	2033	49.051	3.375
	1200	447/9T	34,882	36,178	36,241	HT250X06PRBW22447/9T	291	233	95.0	2452	56.338	3.375
	1200	586/7T	38,758	41,144	41,323	HT250X06PRBW22586/7T	298	238	95.0	3206	61.704	3.875
	900	586/7T	41,609	43,995	44,174	HT250X08PRBW22	302	242	95.0	3649	61.704	3.875
300	3600	447/9TS	36,688	37,984	38,047	HT300X02PRBW22447/9TS	322	258	95.4	2545	52.588	2.375
	3600	586/7TS	40,856	43,242	43,421	HT300X02PRBW22586/7TS	318	254	95.4	3382	54.829	2.375
	1800	447/9T	32,757	34,053	34,116	HT300X04PRBW22447/9T	337	270	95.4	2375	56.338	3.375
	1800	586/7T	36,396	38,782	38,961	HT300X04PRBW22586/7T	339	271	95.8	2961	61.704	3.875
	1200	447/9T	37,493	38,789	38,852	HT300X06PRBW22586/7T	350	280	95.0	2613	56.338	3.375
	1200	586/7T	42,120	44,506	44,685	HT300X06PRBW22586/7T	357	286	95.4	3495	61.704	3.875
	900	586/7T	56,441	58,827	59,006	HT300X08PRBW22	359	287	95.0	4035	61.704	3.875
350	3600	447/9TS	40,091	41,387	41,450	HT350X02PRBW22447/9TS	378	302	95.8	2701	52.588	2.375
	3600	586/7TS	46,984	49,370	49,549	HT350X02PRBW22586/7TS	374	299	95.8	3621	54.829	2.375
	1800	447/9T	35,515	36,811	36,874	HT350X04PRBW22447/9T	396	317	95.8	2644	56.338	3.375
	1800	586/7T	39,423	41,809	41,988	HT350X04PRBW22586/7T	396	317	95.8	3213	61.704	3.875
	1200	586/7T	47,181	49,567	49,746	HT350X06PRBW22	422	338	95.4	3784	61.704	3.875
	900	586/7T	59,263	61,649	61,828	HT350X08PRBW22	429	343	95.0	4309	61.704	3.875
400	3600	586/7TS	49,333	51,719	51,898	HT400X02PRBW22	432	346	95.8	3749	54.829	2.375
	1800	586/7T	45,225	47,611	47,790	HT400X04PRBW22	457	366	95.8	3455	61.704	3.875
	1200	586/7T	54,872	57,258	57,437	HT400X06PRBW22	487	390	95.4	4115	61.704	3.875
450	3600	586/7TS	51,799	54,185	54,364	HT450X02PRBW22	475	380	95.8	3918	54.829	2.375
	1800	586/7T	45,225	47,611	47,790	HT450X04PRBW22	503	402	95.8	3455	61.704	3.875
	1200	586/7T	54,872	57,258	57,437	HT450X06PRBW22	536	429	95.4	4384	61.704	3.875
500	3600	586/7TS	54,391	56,777	56,956	HT500X02PRBW22	533	426	95.8	4086	54.829	2.375
	1800	586/7T	51,276	53,662	53,841	HT500X04PRBW22	564	451	95.8	3912	61.704	3.875
	1200	586/7T	57,776	60,162	60,341	HT500X06PRBW22	606	485	95.8	4403	61.704	3.875

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

W22 Severe Duty High Efficiency Motors - TEFC
Electrical Data

Rated Output		Full Load Speed	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW	(RPM)		230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	3450	143T	2.96	1.48	1.18	J	6.6	1.50	2.3	2.8	72.0	75.5	75.5	0.69	0.79	0.84	1.25	0.0278	26	57	34.2	68.0
		1750	143T	2.88	1.44	1.15	J	6.8	2.96	2.0	3.0	78.5	82.5	82.5	0.60	0.72	0.79	1.25	0.0911	20	44	37.5	51.0
		1150	145T	3.26	1.63	1.30	J	5.7	4.51	2.5	2.8	75.5	80.0	80.0	0.50	0.63	0.72	1.25	0.1303	23	51	44.1	49.0
		860	182T	4.10	2.05	1.64	K	5.0	6.02	2.0	2.6	68.0	72.0	74.0	0.41	0.52	0.62	1.25	0.3481	49	108	88.2	50.0
1.5	1.1	3455	143T	3.98	1.99	1.59	J	6.8	2.25	2.5	3.0	78.5	82.5	82.5	0.68	0.78	0.84	1.25	0.0370	17	37	38.6	68.0
		1740	145T	4.06	2.03	1.62	J	6.8	4.47	2.0	2.7	81.5	84.0	84.0	0.63	0.75	0.81	1.25	0.1172	13	29	40.8	51.0
		1160	182T	4.48	2.24	1.79	J	6.0	6.70	2.0	2.6	81.5	84.0	85.5	0.53	0.65	0.72	1.25	0.4786	55	121	68.4	52.0
		865	184T	5.44	2.72	2.18	H	4.7	8.98	2.0	2.4	74.0	75.5	77.0	0.44	0.58	0.66	1.25	0.3918	37	81	94.8	50.0
2	1.5	3450	145T	5.28	2.64	2.11	J	6.8	3.00	2.5	3.0	81.5	84.0	84.0	0.69	0.80	0.85	1.25	0.0427	16	35	41.9	68.0
		1740	145T	5.46	2.73	2.18	J	6.6	5.96	2.0	2.7	82.5	84.0	84.0	0.64	0.77	0.82	1.25	0.1296	11	24	43.0	51.0
		1160	184T	5.96	2.98	2.38	J	6.0	8.93	2.1	2.6	84.0	86.5	86.5	0.54	0.66	0.73	1.25	0.5657	47	103	79.4	52.0
		870	213T	6.92	3.46	2.77	L	6.6	11.9	2.4	2.9	78.5	81.5	82.5	0.47	0.53	0.66	1.25	1.19	43	95	141	52.0
3	2.2	3500	182T	7.34	3.67	2.94	H	7.2	4.44	2.0	3.1	82.5	85.5	85.5	0.76	0.84	0.88	1.25	0.1644	39	86	84.9	69.0
		1750	182T	7.70	3.85	3.08	J	7.2	8.88	2.2	2.8	86.5	87.5	87.5	0.65	0.76	0.82	1.25	0.2636	29	64	83.8	56.0
		1170	213T	8.30	4.15	3.32	H	6.1	13.3	1.8	2.4	84.0	86.5	87.5	0.58	0.70	0.76	1.25	0.9933	76	167	110	55.0
		865	215T	8.66	4.33	3.46	K	7.1	18.0	2.0	2.1	82.5	84.0	84.0	0.59	0.70	0.76	1.25	2.02	30	66	159	52.0
5	3.7	3490	184T	11.8	5.90	4.72	J	7.6	7.42	2.3	3.3	85.5	87.5	87.5	0.80	0.87	0.90	1.25	0.1906	27	59	88.2	69.0
		1745	184T	13.0	6.49	5.19	H	6.6	14.8	2.2	2.7	86.5	87.5	87.5	0.64	0.76	0.82	1.25	0.3683	14	31	92.6	56.0
		1165	215T	14.2	7.08	5.66	J	6.4	22.2	2.1	2.3	86.5	87.5	87.5	0.55	0.67	0.75	1.25	1.47	35	77	162	55.0
		880	254T	15.5	7.76	6.21	H	5.5	29.4	2.0	2.6	82.5	84.0	85.5	0.48	0.61	0.70	1.25	2.90	33	73	243	54.0
7.5	5.5	3510	213T	17.8	8.90	7.12	H	6.7	11.1	2.1	3.0	87.5	88.5	88.5	0.75	0.84	0.88	1.25	0.3842	25	55	128	72.0
		1755	213T	18.6	9.31	7.45	H	6.5	22.1	2.1	2.6	88.5	89.5	89.5	0.66	0.77	0.83	1.25	0.9800	14	31	139	58.0
		1175	254T	19.3	9.64	7.71	G	6.1	33.1	2.0	2.7	87.5	88.5	89.5	0.62	0.74	0.80	1.25	2.56	23	51	227	59.0
		880	256T	23.0	11.5	9.20	H	5.5	44.2	2.0	2.6	82.5	85.5	85.5	0.48	0.62	0.70	1.25	3.41	25	55	276	54.0
10	7.5	3500	215T	23.6	11.8	9.44	G	6.5	14.8	2.1	2.8	88.5	89.5	89.5	0.78	0.86	0.89	1.25	0.4680	19	42	143	72.0
		1750	215T	25.0	12.5	10.0	G	6.2	29.6	2.0	2.4	89.5	89.5	89.5	0.69	0.80	0.84	1.25	1.16	12	26	154	58.0
		1170	256T	26.2	13.1	10.5	G	6.0	44.3	2.0	2.6	88.5	89.5	89.5	0.63	0.75	0.80	1.25	2.90	20	44	251	59.0
		880	284T	26.0	13.0	10.4	G	5.7	58.9	2.0	2.2	87.5	88.5	88.5	0.67	0.77	0.82	1.25	7.20	30	66	373	54.0
15	11	3520	254T	34.0	17.0	13.6	F	6.2	22.1	2.0	2.5	89.5	90.2	90.2	0.80	0.86	0.89	1.25	1.26	18	40	238	72.0
		1765	254T	35.6	17.8	14.2	G	6.0	44.0	2.3	2.4	90.2	91.0	91.0	0.70	0.80	0.85	1.25	2.38	17	37	240	64.0
		1175	284T	35.6	17.8	14.2	G	6.0	66.1	2.2	2.5	90.2	90.2	90.2	0.72	0.81	0.86	1.25	7.20	17	37	344	59.0
		880	286T	38.0	19.0	15.2	G	5.7	88.3	2.0	2.2	87.5	88.5	88.5	0.68	0.78	0.82	1.25	8.18	22	48	417	54.0
20	15	3510	256T	46.4	23.2	18.6	F	6.0	29.5	2.0	2.3	90.2	90.2	90.2	0.82	0.88	0.90	1.25	1.54	15	33	265	72.0
		1760	256T	48.6	24.3	19.4	G	6.0	58.9	2.3	2.4	90.2	91.0	91.0	0.72	0.81	0.85	1.25	2.86	14	31	276	64.0
		1175	286T	48.2	24.1	19.3	G	6.1	88.2	2.1	2.4	90.2	91.0	91.0	0.73	0.82	0.86	1.25	8.18	16	35	390	59.0
		880	324T	56.8	28.4	22.7	G	5.0	118	2.0	2.2	87.5	89.5	89.5	0.55	0.67	0.74	1.25	9.79	24	53	452	56.0
25	18.5	3530	284TS	58.0	29.0	23.2	F	6.0	36.7	2.0	2.4	91.0	91.0	91.0	0.83	0.88	0.90	1.25	2.29	15	33	344	72.0
		1760	284T	58.4	29.2	23.4	F	6.0	73.6	2.2	2.4	91.7	92.4	92.4	0.73	0.82	0.86	1.25	5.11	23	51	388	64.0
		1175	324T	61.0	30.5	24.4	F	5.7	110	2.0	2.4	91.0	91.7	91.7	0.69	0.79	0.83	1.25	10.2	19	42	448	62.0
		880	326T	71.0	35.5	28.4	G	5.1	147	2.2	2.3	87.5	89.5	89.5	0.53	0.66	0.73	1.25	11.9	19	42	509	56.0
30	22	3530	286TS	67.4	33.7	27.0	F	6.0	44.0	2.0	2.4	91.0	91.0	91.0	0.82	0.88	0.90	1.25	2.83	14	31	375	72.0
		1760	286T	68.6	34.3	27.4	F	6.0	88.3	2.3	2.4	92.4	93.0	92.4	0.74	0.83	0.87	1.25	5.32	19	42	419	64.0
		1175	326T	71.6	35.8	28.6	F	5.8	132	2.0	2.4	91.0	91.7	91.7	0.69	0.79	0.84	1.25	11.9	18	40	492	62.0
		880	364/5T	74.0	37.0	29.6	G	6.0	177	1.6	2.2	91.0	91.7	91.0	0.67	0.77	0.82	1.25	23.5	17	37	776	60.0
40	30	3550	324TS	92.2	46.1	36.9	F	6.0	58.4	2.1	2.3	91.0	91.7	91.7	0.83	0.88	0.89	1.25	4.90	22	48	516	76.0
		1770	324T	95.2	47.6	38.1	G	6.0	117	2.1	2.4	92.4	93.0	93.0	0.74	0.82	0.85	1.25	7.85	18	40	463	68.0
		1180	364/5T	94.2	47.1	37.7	G	6.2	176	1.9	2.3	93.0	93.0	93.0	0.74	0.83	0.86	1.25	23.5	16	35	770	64.0
		880	364/5T	101	50.5	40.4	G	6.0	235	1.7	2.2	91.0	91.7	91.0	0.67	0.77	0.82	1.25	29.0	13	29	831	60.0
50	37	3555	326TS	113	56.5	45.2	F	6.2	72.9	2.3	2.3	91.7	92.4	92.4	0.83	0.88	0.89	1.25	5.32	18	40	549	76.0
		1770	326T	116	58.1	46.5	F	6.0	146	2.2	2.4	93.0	93.6	93.0	0.74	0.82	0.86	1.25	9.16	15	33	512	68.0
		1180	364/5T	116	58.1	46.5	G	6.2	220	1.9	2.3	93.0	93.0	93.0	0.75	0.83	0.86	1.25	29.0	15	33	816	64.0
		880	404/5T	122	61.0	48.8	G	6.2	294	1.7	2.4	91.7	91.7	91.7	0.70	0.79	0.83	1.25	34.6	12	26	992	60.0
60	45	3550	364/5TS	135	67.5	54.0	G	6.3	87.6	2.0	2.4	91.7	93.0	93.0	0.84	0.89	0.90	1.25	8.51	15	33	807	80.0
		1770	364/5T	139	69.4	55.5	G	6.3	176	2.0	2.3	93.6	93.6	93.6	0.79	0.85	0.87	1.25	17.4	12	26	800	70.0
		1180	404/5T	140	70.2	56.2	G	6.1	263	2.0	2.3	93.6	93.6	93.6	0.75	0.83	0.86	1.25	34.6	16	35	1005	64.0
		880	404/5T	148	74.2	59.4	G	6.3	353	1.8	2.5	91.7	92.4	91.7	0.70	0.80	0.83	1.25	36.9	11	24	1047	60.0
75	55	3550	364/5TS	165	82.5	66.0	G	6.4	109	2.0	2.4	93.0	93.0	93.0	0.86	0.89	0.90	1.25	10.6	14	31	847	80.0
		1770	364/5T	169	84.3	67.4	G	6.3	220	2.1	2.4	94.1	94.1	94.1	0.79	0.85	0.87	1.25	19.9	10	22	847	70.0
		1180	404/5T	172	85.8	68.6	F	6.1	329	2.0	2.2	93.6	93.6	93.6	0.76	0.84	0.86	1.25	36.9	13	29	1054	64.0
		885	444/5T	186	92.8	74.2	F	5.6	439	1.7	2.0	93.0	93.0	93.0	0.67	0.76	0.80	1.25	73.6	20	44	1444	63.0

W22 Severe Duty High Efficiency Motors - TEFC
Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
100	75	3550	404/5TS	224	112	89.6	G	6.4	146	2.0	2.4	93.6	94.1	93.6	0.85	0.89	0.90	1.25	11.9	11	24	1008	80.0
		1775	404/5T	224	112	89.6	F	6.1	292	2.1	2.4	94.5	94.5	94.5	0.82	0.87	0.89	1.25	27.4	14	31	1094	70.0
		1185	444/5T	242	121	96.8	G	6.0	437	2.0	2.2	94.1	94.1	94.1	0.70	0.80	0.83	1.25	73.6	16	35	1422	69.0
		1185	445/7T	242	121	96.8	G	6.0	437	2.0	2.2	94.1	94.1	94.1	0.70	0.80	0.83	1.25	73.6	16	35	1466	---
		885	444/5T	254	127	102	G	5.7	585	1.8	2.0	93.0	93.6	93.0	0.67	0.76	0.80	1.25	87.3	18	40	1599	63.0
		885	445/7T	254	127	102	G	5.7	585	1.8	2.0	93.0	93.6	93.0	0.67	0.76	0.80	1.25	87.3	18	40	1643	---
125	90	3570	444/5TS	272	136	109	F	6.2	181	1.8	2.4	93.0	94.1	94.5	0.80	0.86	0.88	1.15	27.9	24	53	1464	81.0
		1780	444/5T	278	139	111	F	6.1	364	1.8	2.4	94.5	94.5	94.5	0.77	0.84	0.86	1.15	45.7	24	53	1444	73.0
		1185	444/5T	286	143	114	F	6.0	547	2.0	2.2	94.1	94.5	94.1	0.72	0.80	0.84	1.15	87.3	19	42	1599	69.0
		890	504/5T	302	151	121	F	5.8	728	1.8	2.0	93.6	94.1	93.6	0.67	0.76	0.80	1.15	104	23	51	2110	66.0
		885	445/7T	302	151	121	F	5.8	732	1.8	2.0	93.6	94.1	93.6	0.67	0.76	0.80	1.15	104	15	33	1806	---
150	110	3570	444/5TS	328	164	131	F	6.3	218	1.9	2.4	94.1	95.0	94.5	0.82	0.87	0.89	1.15	33.5	23	51	1610	81.0
		1780	444/5T	334	167	134	F	6.3	437	1.9	2.4	95.0	95.0	95.0	0.78	0.84	0.87	1.15	57.2	23	51	1552	73.0
		1190	504/5T	350	175	140	G	6.2	653	2.0	2.2	94.1	95.0	95.0	0.71	0.80	0.83	1.15	109	22	48	2097	70.0
		1185	445/7T	346	173	138	G	6.1	656	2.0	2.2	94.5	95.0	95.0	0.73	0.80	0.84	1.15	109	19	42	1810	---
		890	504/5T	362	181	145	F	5.8	873	1.8	2.0	94.1	94.5	94.1	0.68	0.77	0.81	1.15	134	21	46	2293	66.0
		885	445/7T	368	184	147	F	5.7	878	1.7	2.0	94.1	94.1	93.6	0.67	0.76	0.80	1.15	134	15	33	1965	---
200	150	3575	504/5TS	446	223	178	G	6.5	290	1.8	2.4	94.1	95.0	95.0	0.83	0.88	0.89	1.15	44.7	22	48	2168	81.0
		3565	445/7TS	446	223	178	G	6.5	291	2.0	2.2	94.5	95.0	95.0	0.86	0.88	0.89	1.15	44.7	18	40	1914	---
		1785	504/5T	460	230	184	G	6.2	580	2.0	2.1	94.5	95.0	95.0	0.77	0.84	0.86	1.15	76.2	21	46	2145	75.0
		1780	445/7T	460	230	184	G	6.4	582	2.0	2.3	95.0	95.4	95.0	0.77	0.84	0.86	1.15	76.2	18	40	1828	---
		1190	504/5T	472	236	189	G	6.0	871	2.0	2.1	95.0	95.0	95.0	0.73	0.81	0.84	1.15	134	19	42	2368	70.0
		1185	445/7T	472	236	189	G	6.1	874	2.1	2.2	94.5	95.0	95.0	0.72	0.81	0.84	1.15	134	15	33	2093	---
		890	447/9T	504	252	202	G	5.9	1164	1.9	2.1	94.1	94.5	94.5	0.65	0.75	0.79	1.15	161	14	31	2430	---
		895	586/7T	498	249	199	G	6.0	1158	1.3	2.1	95.0	95.0	94.5	0.65	0.76	0.80	1.15	350	40	88	3334	75.0
250	185	3575	504/5TS	540	270	216	F	6.5	362	1.9	2.4	94.5	95.4	95.4	0.85	0.88	0.90	1.15	51.4	20	44	2388	81.0
		3570	445/7TS	540	270	216	F	6.5	363	2.2	2.2	95.0	95.4	95.4	0.87	0.89	0.90	1.15	51.4	18	40	2159	---
		1785	504/5T	566	283	226	G	6.4	726	2.1	2.1	95.0	95.4	95.4	0.77	0.84	0.86	1.15	89.6	21	46	2337	---
		1780	445/7T	566	283	226	G	6.4	728	2.2	2.2	95.0	95.4	95.4	0.78	0.84	0.86	1.15	89.6	16	35	2033	---
		1185	447/9T	582	291	233	G	6.2	1093	2.2	2.2	95.0	95.4	95.0	0.71	0.80	0.84	1.15	153	11	24	2452	---
		1190	586/7T	596	298	238	G	6.1	1088	2.0	2.1	95.0	95.4	95.0	0.69	0.78	0.82	1.15	226	30	66	3206	77.0
		895	586/7T	604	302	242	G	6.0	1447	1.3	2.1	95.0	95.4	95.0	0.67	0.77	0.81	1.15	387	40	88	3649	75.0
300	220	3575	447/9TS	644	322	258	F	6.5	435	2.5	2.4	95.4	95.4	95.4	0.86	0.89	0.90	1.15	58.1	14	31	2545	---
		3580	586/7TS	636	318	254	F	6.5	434	1.6	2.2	95.0	95.4	95.4	0.87	0.90	0.91	1.15	123	30	66	3382	84.0
		1780	447/9T	674	337	270	G	6.5	873	2.3	2.3	95.4	95.8	95.4	0.76	0.84	0.86	1.15	105	14	31	2375	---
		1790	586/7T	678	339	271	G	6.4	868	1.9	2.2	95.0	95.4	95.8	0.76	0.83	0.85	1.15	163	20	44	2961	81.0
		1185	447/9T	700	350	280	H	6.9	1312	2.4	2.4	95.0	95.4	95.0	0.69	0.79	0.83	1.15	169	10	22	2613	---
		1190	586/7T	714	357	286	G	6.0	1306	2.0	2.0	95.0	95.4	95.4	0.69	0.78	0.81	1.15	277	30	66	3495	77.0
		895	586/7T	718	359	287	G	6.4	1737	1.5	2.2	95.0	95.4	95.0	0.66	0.77	0.81	1.15	462	40	88	4035	75.0
350	260	3575	447/9TS	756	378	302	J	8.5	507	2.5	2.6	95.4	95.8	95.8	0.85	0.89	0.90	1.15	68.1	10	22	2701	---
		3580	586/7TS	748	374	299	F	6.5	507	1.6	2.4	95.4	95.8	95.8	0.87	0.90	0.91	1.15	136	25	55	3621	84.0
		1780	447/9T	792	396	317	G	6.4	1019	2.1	2.2	95.4	95.8	95.8	0.76	0.84	0.86	1.15	118	16	35	2644	---
		1785	586/7T	792	396	317	G	6.3	1016	1.9	2.0	95.4	95.8	95.8	0.77	0.84	0.86	1.15	179	22	48	3213	81.0
		1190	586/7T	844	422	338	G	6.1	1524	1.8	2.1	95.0	95.4	95.4	0.66	0.77	0.81	1.15	328	29	64	3784	77.0
		895	586/7T	858	429	343	H	6.7	2026	1.6	2.3	95.0	95.4	95.0	0.64	0.75	0.80	1.15	484	34	75	4309	75.0
400	300	3580	586/7TS	864	432	346	F	6.5	579	1.8	2.2	95.4	95.8	95.8	0.88	0.90	0.91	1.15	122	48	106	3749	84.0
		1790	586/7T	914	457	366	G	6.4	1158	2.0	2.2	95.4	95.8	95.8	0.77	0.84	0.86	1.15	179	19	42	3455	81.0
		1190	586/7T	974	487	390	G	6.1	1741	2.2	2.1	95.0	95.4	95.4	0.67	0.77	0.81	1.15	368	29	64	4115	77.0
450	330	3580	586/7TS	950	475	380	F	6.6	651	2.0	2.3	95.4	95.8	95.8	0.88	0.90	0.91	1.15	132	36	79	3918	84.0
		1790	586/7T	1006	503	402	G	6.4	1302	2.1	2.1	95.4	95.8	95.8	0.77	0.84	0.86	1.15	213	17	37	3455	81.0
		1190	586/7T	1072	536	429	G	6.1	1959	2.1	2.1	95.0	95.4	95.4	0.67	0.77	0.81	1.15	368	26	57	4384	77.0
500	370	3580	586/7TS	1066	533	426	G	6.8	724	2.2	2.4	95.4	95.8	95.8	0.88	0.90	0.91	1.15	143	39	86	4086	84.0
		1790	586/7T	1128	564	451	G	6.4	1447	2.1	2.0	95.4	95.8	95.8	0.79	0.85	0.86	1.15	256	16	35	3912	81.0
		1190	586/7T	1212	606	485	G	6.3	2177	2.2	2.1	95.4	95.8	95.8	0.66	0.76	0.80	1.15	368	25	55	4403	77.0

W22 Severe Duty NEMA Premium Efficiency Motors - TEFC
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan) - CSA C390
- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 2, 4, 6 and 8 pole, 60 & 50Hz
- Voltage: 208-230/460V, 575V
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Squirrel cage rotor / Aluminum die cast
- WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 143T up to 504/5T (586/7 and 588/9T frames fitted with Taconite Labyrinth as standard)
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to frame 364/5T
- 4140 for 404/5T shaft upwards in 4, 6 and 8 pole motors)
- Class “F” (DT 80K) insulation for all frames
- CFRI Continuous Flow Resin Impregnation Insulation system with class “H” resin
- Temperature rise limited to Class “B” (80K)
- NEMA design “B”
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- NPT threaded conduit hole
- Double Gasketed terminal box
- Re-configurable Terminal Box for frames 445/7T and up
- Stainless steel nameplate AISI 316 with laser etching
- Paint: Synthetic enamel alkyd resin base (240 hours minimum ASTM B117 salt spray test)
- Paint Plan:
  - 207A - Frames 143T to 215T
  - 203A - Frames 254T to 588/9T
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain plug
- Frames 254T and up have regreasable bearings with grease fittings in DE and NDE bearings
- NEMA MG1 Part 31 rating for use with VFD

Optional Features

- Special voltages
- Special shafts
- Space heaters (standard on 586/7 and 588/9T frames)
- Labyrinth tachonite seal available for all ratings
- Thermostats, Thermistors, RTD’s (PT100)
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- Cable glands
- C Face and NEMA D flanges for all ratings
- Roller bearings available
- Special epoxy painting

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- Inverter Duty Certified for 20:1 CT & 1000:1 VT
- Inverter Duty Certified for 1000:1 CT with a WEG VFD running in Optimized Flux mode
- Inverter Duty CSA certified for Division 2, Class I, Groups A, B, C & D and Division 2, Class II, Group F & G

APPROVED BY

APPROVED BY LR 38324 LR 50962

CSA E EEV 78282

NEMA Premium™

W22 Severe Duty NEMA Premium Efficiency Motors - TEFC
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs,)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	3600	143T	$491	$565	$575	HT000X02NPW22	1.43	1.14	78.5	36.4	12.346	0.875
	1800	143T	474	548	558	HT000X04NPW22	1.39	1.11	85.5	40.8	12.346	0.875
	1200	145T	576	650	660	HT000X06NPW22	1.73	1.38	82.5	52.9	13.346	0.875
	900	182T	983	1,067	1,073	HT000X08NPW22	2.30	1.84	78.5	94.8	14.860	1.125
1.5	3600	143T	518	592	602	HT001X02NPW22	1.90	1.52	84.0	40.8	12.346	0.875
	1800	145T	527	601	611	HT001X04NPW22	1.97	1.58	86.5	48.5	13.346	0.875
	1200	182T	679	763	769	HT001X06NPW22	2.39	1.91	87.5	70.3	14.860	1.125
	900	184T	1,067	1,151	1,157	HT001X08NPW22	2.70	2.16	82.5	111	15.860	1.125
2	3600	145T	541	615	625	HT002X02NPW22	2.53	2.02	85.5	51.8	13.346	0.875
	1800	145T	548	622	632	HT002X04NPW22	2.61	2.09	86.5	50.7	13.346	0.875
	1200	184T	746	830	836	HT002X06NPW22	3.23	2.58	88.5	87.5	15.860	1.125
	900	213T	1,348	1,443	1,448	HT002X08NPW22	3.39	2.71	85.5	149	18.021	1.375
3	3600	182T	690	774	780	HT003X02NPW22	3.62	2.90	86.5	88.2	14.860	1.125
	1800	182T	702	786	792	HT003X04NPW22	3.88	3.10	89.5	90.4	14.860	1.125
	1200	213T	974	1,069	1,074	HT003X06NPW22	4.41	3.53	89.5	121	18.021	1.375
	900	215T	1,616	1,711	1,716	HT003X08NPW22	4.56	3.65	85.5	176	19.517	1.375
5	3600	184T	866	950	956	HT005X02NPW22	5.90	4.72	88.5	88.2	15.860	1.125
	1800	184T	808	892	898	HT005X04NPW22	6.45	5.16	89.5	94.8	15.860	1.125
	1200	215T	1,290	1,385	1,390	HT005X06NPW22	6.83	5.46	89.5	162	19.517	1.375
	900	254T	2,362	2,547	2,578	HT005X08NPW22	7.58	6.06	87.5	258	23.213	1.625
7.5	3600	213T	926	1,021	1,026	HT007X02NPW22	8.78	7.02	89.5	139	18.021	1.375
	1800	213T	1,090	1,185	1,190	HT007X04NPW22	9.00	7.20	91.7	154	18.021	1.375
	1200	254T	1,829	2,014	2,045	HT007X06NPW22	9.48	7.58	91.0	276	23.213	1.625
	900	256T	2,491	2,676	2,707	HT007X08NPW22	11.1	8.88	87.5	284	24.945	1.625
10	3600	215T	1,308	1,403	1,408	HT010X02NPW22	11.6	9.28	90.2	163	19.517	1.375
	1800	215T	1,253	1,348	1,353	HT010X04NPW22	12.4	9.92	91.7	172	19.517	1.375
	1200	256T	2,165	2,350	2,381	HT010X06NPW22	12.9	10.3	91.0	290	24.945	1.625
	900	284T	3,305	3,532	3,585	HT010X08NPW22	13.4	10.7	90.2	373	26.433	1.875
15	3600	254T	1,819	2,004	2,035	HT015X02NPW22	17.0	13.6	91.0	258	23.213	1.625
	1800	254T	1,884	2,069	2,100	HT015X04NPW22	18.0	14.4	92.4	265	23.213	1.625
	1200	284T	3,062	3,289	3,342	HT015X06NPW22	17.9	14.3	91.7	379	26.433	1.875
	900	286T	3,936	4,163	4,216	HT015X08NPW22	19.4	15.5	90.2	417	27.929	1.875
20	3600	256T	2,230	2,415	2,446	HT020X02NPW22	23.2	18.6	91.0	282	24.945	1.625
	1800	256T	2,263	2,448	2,479	HT020X04NPW22	24.1	19.3	93.0	298	24.945	1.625
	1200	286T	3,473	3,700	3,753	HT020X06NPW22	24.2	19.4	91.7	426	27.929	1.875
	900	324T	5,033	5,307	5,360	HT020X08NPW22	28.3	22.6	91.0	452	29.620	2.125
25	3600	284TS	2,776	3,003	3,056	HT025X02NPW22	28.5	22.8	91.7	362	25.061	1.625
	1800	284T	2,809	3,036	3,089	HT025X04NPW22	29.5	23.6	93.6	388	26.433	1.875
	1200	324T	4,385	4,659	4,712	HT025X06NPW22	30.4	24.3	93.0	560	29.620	2.125
	900	326T	5,659	5,933	5,986	HT025X08NPW22	35.9	28.7	91.0	509	31.116	2.125
30	3600	286TS	3,254	3,481	3,534	HT030X02NPW22	33.8	27.0	91.7	392	26.557	1.625
	1800	286T	3,178	3,405	3,458	HT030X04NPW22	35.1	28.1	93.6	437	27.929	1.875
	1200	326T	4,895	5,169	5,222	HT030X06NPW22	35.8	28.6	93.0	553	31.116	2.125
	900	364/5T	7,976	8,567	8,720	HT030X08NPW22	37.0	29.6	92.4	803	34.251	2.375
40	3600	324TS	4,529	4,803	4,856	HT040X02NPW22	45.8	36.6	92.4	547	28.120	1.875
	1800	324T	4,360	4,634	4,687	HT040X04NPW22	48.2	38.6	94.1	492	29.620	2.125
	1200	364/5T	8,209	8,800	8,953	HT040X06NPW22	46.5	37.2	94.1	833	34.251	2.375
	900	364/5T	9,148	9,739	9,892	HT040X08NPW22	50.0	40.0	92.4	875	34.251	2.375
50	3600	326TS	5,294	5,568	5,621	HT050X02NPW22	56.1	44.9	93.0	584	29.616	1.875
	1800	326T	4,964	5,238	5,291	HT050X04NPW22	59.2	47.4	94.5	536	31.116	2.125
	1200	364/5T	8,339	8,930	9,083	HT050X06NPW22	57.4	45.9	94.1	869	34.251	2.375
	900	404/5T	11,384	11,975	12,128	HT050X08NPRBW22	60.0	48.0	93.0	1012	39.730	2.875
60	3600	364/5TS	8,714	9,305	9,458	HT060X02NPW22	67.0	53.6	93.6	825	32.276	1.875
	1800	364/5T	8,540	9,131	9,284	HT060X04NPW22	68.3	54.6	95.0	869	34.251	2.375
	1200	404/5T	11,406	11,997	12,150	HT060X06NPRBW22	69.5	55.6	94.5	1036	39.730	2.875
	900	404/5T	13,663	14,254	14,407	HT060X08NPRBW22	73.0	58.4	93.0	1111	39.730	2.875
75	3600	364/5TS	10,102	10,693	10,846	HT075X02NPW22	81.9	65.5	93.6	847	32.276	1.875
	1800	364/5T	9,634	10,225	10,378	HT075X04NPW22	84.1	67.3	95.4	919	34.251	2.375
	1200	404/5T	12,348	12,939	13,092	HT075X06NPRBW22	84.9	67.9	94.5	1089	39.730	2.875
	900	444/5T	18,095	19,019	19,056	HT075X08NPRBW22	93.0	74.4	93.6	1444	45.193	3.375
100	3600	404/5TS	13,456	14,047	14,200	HT100X02NPRBW22	110	88.0	94.1	1045	36.732	2.125
	1800	404/5T	11,795	12,386	12,539	HT100X04NPRBW22	111	88.8	95.4	1140	39.730	2.875
	1200	444/5T	17,984	18,908	18,945	HT100X06NPRBW22	121	96.8	95.0	1577	45.193	3.375
	900	444/5T	21,262	22,186	22,223	HT100X08NPRBW22	127	102	94,1	1599	45,193	3.375
125	3600	444/5TS	16,697	17,621	17,658	HT125X02NPRBW22	134	107	95.0	1599	41.443	2.375
	1800	444/5T	14,023	14,947	14,984	HT125X04NPRBW22	139	111	95.4	1590	45.193	3.375
	1200	444/5T	17,221	18,145	18,182	HT125X06NPRBW22	143	114	95.0	1751	45.193	3.375
	900	504/5T	22,731	23,913	23,929	HT125X08NPRBW22504/5T	149	119	94.5	2110	54.095	3.625
	900	445/7T	22,731	23,655	23,692	HT125X08NPRBW22445/7T	151	121	94.5	1887	49.051	3.375

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

W22 Severe Duty NEMA Premium Efficiency Motors - TEFC
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs,)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
150	3600	444/5TS	18,435	19,359	19,396	HT150X02NPRBW22	161	129	95.0	1709	41.443	2.375
	1800	444/5T	15,775	16,699	16,736	HT150X04NPRBW22	170	136	95.8	1676	45.193	3.375
	1200	504/5T	19,831	21,013	21,029	HT150X06NPRBW22504/5T	176	141	95.8	2249	54.095	3.625
	1200	445/7T	18,787	19,711	19,748	HT150X06NPRBW22445/7T	176	141	95.8	2042	49.051	3.375
	900	504/5T	27,532	28,714	28,730	HT150X08NPRBW22504/5T	180	144	94.5	2293	54.095	3.625
	900	445/7T	27,532	28,456	28,493	HT150X08NPRBW22445/7T	185	148	94.5	2042	49.051	3.375
200	3600	504/5TS	22,716	23,898	23,914	HT200X02NPRBW22504/5TS	222	178	95.4	2168	48.215	2.375
	3600	445/7TS	22,716	23,640	23,677	HT200X02NPRBW22445/7TS	219	175	95.4	1914	45.301	2.375
	1800	504/5T	20,243	21,425	21,441	HT200X04NPRBW22504/5T	228	182	96.2	2273	54.095	3.625
	1800	445/7T	20,243	21,167	21,204	HT200X04NPRBW22445/7T	230	184	96.2	1899	49.051	3.375
	1200	504/5T	25,358	26,540	26,556	HT200X06NPRBW22504/5T	237	190	95.8	2459	54.095	3.625
	1200	445/7T	24,023	24,947	24,984	HT200X06NPRBW22445/7T	237	190	95.8	2247	49.051	3.375
	900	447/9T	33,716	35,012	35,075	HT200X08NPRBW22447/9T	254	203	95.0	2509	56.338	3.375
	900	586/7T	40,535	42,921	43,100	HT200X08NPRBW22586/7T	247	198	95.4	3334	61.704	3.875
250	3600	504/5TS	23,716	24,898	24,914	HT250X02NPRBW22504/5TS	269	215	95.8	2388	48.215	2.375
	3600	445/7TS	23,716	24,640	24,677	HT250X02NPRBW22445/7TS	266	213	95.8	2159	45.301	2.375
	1800	504/5T	25,094	26,276	26,292	HT250X04NPRBW22504/5T	277	222	96.2	2450	54.095	3.625
	1800	445/7T	25,094	26,018	26,055	HT250X04NPRBW22445/7T	281	225	96.2	2079	49.051	3.375
	1200	447/9T	34,882	36,178	36,241	HT250X06NPRBW22447/9T	292	234	95.8	2538	56.338	3.375
	1200	586/7T	38,758	41,144	41,323	HT250X06NPRBW22586/7T	299	239	95.8	3206	61.704	3.875
	900	L447/9T	37,240	38,536	38,599	HT250X08NPRBW22L447/9T	308	246	95.4	3550	57.181	3.375
	900	586/7T	41,609	43,995	44,174	HT250X08NPRBW22586/7T	299	239	95.8	3649	61.704	3.875
300	3600	447/9TS	31,857	33,153	33,216	HT300X02NPRBW22447/9TS	320	256	95.8	2545	52.588	2.375
	3600	586/7TS	40,856	43,242	43,421	HT300X02NPRBW22586/7TS	317	254	95.8	3382	54.829	2.375
	1800	447/9T	29,898	31,194	31,257	HT300X04NPRBW22447/9T	330	264	96.2	2381	56.338	3.375
	1800	586/7T	36,396	38,782	38,961	HT300X04NPRBW22586/7T	334	267	96.2	3080	61.704	3.875
	1200	447/9T	34,648	35,944	36,007	HT300X06NPRBW22447/9T	347	278	95.8	2613	56.338	3.375
	1200	586/7T	42,120	44,506	44,685	HT300X06NPRBW22586/7T	356	285	95.8	3495	61.704	3.875
	900	L447/9T	49,621	50,917	50,980	HT300X08NPRBW22L447/9T	371	297	95.4	3704	57.181	3.375
	900	586/7T	56,441	58,827	59,006	HT300X08NPRBW22586/7T	356	285	95.8	4035	61.704	3.875
350	3600	447/9TS	36,711	38,007	38,070	HT350X02NPRBW22447/9TS	377	302	96.2	2701	52.588	2.375
	3600	586/7TS	46,984	49,370	49,549	HT350X02NPRBW22586/7TS	373	298	96.2	3621	54.829	2.375
	1800	447/9T	31,747	33,043	33,106	HT350X04NPRBW22447/9T	394	315	96.2	2675	56.338	3.375
	1800	586/7T	39,423	41,809	41,988	HT350X04NPRBW22586/7T	394	315	96.2	2675	61.704	3.875
	1200	L447/9T	42,227	43,523	43,586	HT350X06NPRBW22L447/9T	404	323	96.2	3574	57.181	3.375
	1200	586/7T	47,181	49,567	49,746	HT350X06NPRBW22586/7T	421	337	95.8	3784	61.704	3.875
	900	586/7T	59,263	61,649	61,828	HT350X08NPRBW22	426	341	95.8	4309	54.829	3.875
400	3600	L447/9TS	42,922	44,218	44,281	HT400X02NPRBW22L447/9TS	432	346	95.8	3158	53.431	2.375
	3600	586/7TS	48,200	50,586	50,765	HT400X02NPRBW22586/7TS	430	344	96.2	3749	54.829	2.375
	1800	L447/9T	40,250	41,546	41,609	HT400X04NPRBW22L447/9T	455	364	96.2	3285	57.181	3.375
	1800	586/7T	45,225	47,611	47,790	HT400X04NPRBW22586/7T	455	364	96.2	3455	61.704	3.875
	1200	L447/9T	49,110	50,406	50,469	HT400X06NPRBW22L447/9T	477	382	96.2	3682	57.181	3.375
	1200	586/7T	54,872	57,258	57,437	HT400X06NPRBW22586/7T	483	386	96.2	4115	61.704	3.875
	900	588/9T	53,666	56,052	56,231	HT400X08NPRBW22	498	398	95.7	4851	69.381	3.875
450	3600	L447/9TS	44,320	45,616	45,679	HT450X02NPRBW22L447/9TS	475	380	95.8	3268	53.431	2.375
	3600	586/7TS	50,186	52,572	52,751	HT450X02NPRBW22586/7TS	473	378	96.2	3918	54.829	2.375
	1800	L447/9T	42,030	43,326	43,389	HT450X04NPRBW22L447/9T	504	401	96.2	3396	57.181	3.375
	1800	586/7T	47,225	49,611	49,790	HT450X04NPRBW22586/7T	501	401	96.2	3640	61.704	3.875
	1200	586/7T	54,872	57,258	57,437	HT450X06NPRBW22	532	426	96.2	4384	61.704	3.875
	900	588/9T	54,709	57,095	57,274	HT450X08NPRBW22	540	432	95.8	5281	69.381	3.875
500	3600	586/7TS	52,696	55,082	55,261	HT500X02NPRBW22	530	424	96.2	4086	54.829	2.375
	1800	L447/9T	45,636	46,932	46,995	HT500X04NPRBW22L447/9T	561	449	96.2	3462	57.181	3.375
	1800	586/7T	51,276	53,662	53,841	HT500X04NPRBW22586/7T	555	444	96.2	3912	61.704	3.875
	1200	586/7T	58,454	60,840	61,019	HT500X06NPRBW22	603	482	96.2	4403	61.704	3.875
600	3600	588/9TS	49,851	52,237	52,416	HT600X02NPRBW22	650	520	96.5	4410	62.506	2.375
	1800	586/7T	56,454	58,840	59,019	HT600X04NPRBW22	665	532	96.5	4335	61.704	3.875
	1200	588/9T	57,122	59,508	59,687	HT600X06NPRBW22	743	594	96.2	5173	69.381	3.875
650	3600	588/9TS	53,477	55,863	56,042	HT650X02NPRBW22	685	548	96.6	4635	62.506	2.375
	1800	588/9T	49,992	52,378	52,557	HT650X04NPRBW22	734	587	96.6	4395	69.381	3.875
700	3600	588/9TS	55,690	58,076	58,255	HT700X02NPRBW22	736	589	96.6	4805	62.506	2.375
	1800	588/9T	51,222	53,608	53,787	HT700X04NPRBW22	788	630	96.6	4584	69.381	3.875
750	1800	588/9T	53,336	55,722	55,901	HT750X04NPRBW22	840	672	96.7	4952	69.381	3.875

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

W22 Severe Duty NEMA Premium Efficiency Motors - TEFC
Electrical Data

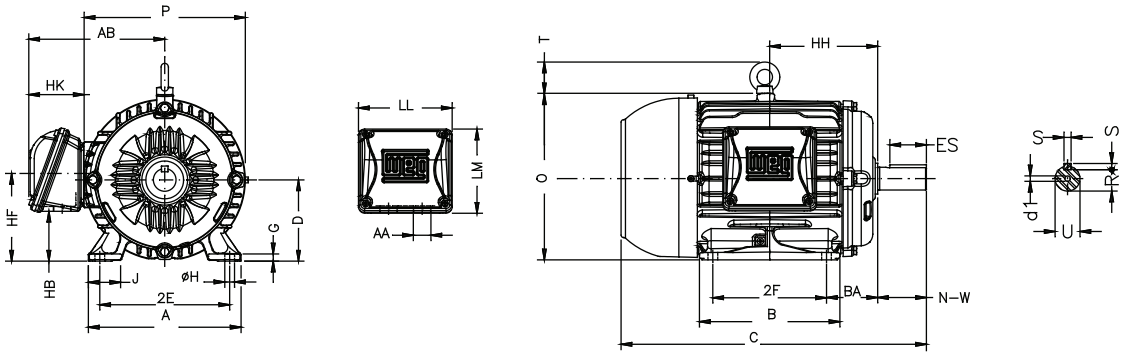
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	3495	143T	2.86	1.43	1.14	L	8.2	1.48	2.8	3.4	74.0	77.0	78.5	0.69	0.79	0.84	1.25	0.0332	22	48	36.4	68.0
		1760	143T	2.78	1.39	1.11	L	8.4	2.94	2.3	3.5	80.0	84.0	85.5	0.60	0.72	0.79	1.25	0.1172	18	40	40.8	51.0
		1150	145T	3.46	1.73	1.38	K	6.2	4.51	3.0	3.0	77.0	82.0	82.5	0.45	0.57	0.66	1.25	0.1595	28	62	52.9	49.0
		875	182T	4.60	2.30	1.84	M	6.0	5.92	3.0	3.5	74.0	77.0	78.5	0.32	0.42	0.52	1.25	0.3991	22	48	94.8	50.0
1.5	1.1	3490	143T	3.80	1.90	1.52	K	8.9	2.23	3.5	3.8	81.5	84.0	84.0	0.72	0.82	0.86	1.25	0.0470	21	46	40.8	68.0
		1755	145T	3.94	1.97	1.58	K	8.3	4.43	2.4	3.4	82.5	85.5	86.5	0.62	0.74	0.81	1.25	0.1431	14	31	48.5	51.0
		1165	182T	4.78	2.39	1.91	M	8.0	6.67	3.2	4.0	84.0	86.5	87.5	0.45	0.56	0.66	1.25	0.4879	16	35	70.3	52.0
		860	184T	5.40	2.70	2.16	J	5.5	9.04	2.5	2.6	80.0	82.5	82.5	0.43	0.54	0.62	1.25	0.5766	17	37	111	50.0
2	1.5	3480	145T	5.06	2.53	2.02	K	8.7	2.98	3.5	3.8	82.5	85.5	85.5	0.73	0.82	0.87	1.25	0.0605	17	37	51.8	68.0
		1750	145T	5.22	2.61	2.09	J	7.5	5.92	2.1	3.0	84.0	86.5	86.5	0.66	0.78	0.84	1.25	0.1561	11	24	50.7	51.0
		1165	184T	6.46	3.23	2.58	L	7.5	8.89	3.0	3.0	86.5	88.5	88.5	0.46	0.58	0.66	1.25	0.6210	31	68	87.5	52.0
		870	213T	6.78	3.39	2.71	M	7.6	11.9	2.4	2.9	82.5	84.0	85.5	0.45	0.55	0.65	1.25	1.79	39	86	149	52.0
3	2.2	3510	182T	7.24	3.62	2.90	J	8.3	4.43	2.4	3.8	82.5	86.5	86.5	0.75	0.84	0.88	1.25	0.1889	41	90	88.2	69.0
		1760	182T	7.76	3.88	3.10	K	8.1	8.83	2.3	3.4	86.5	88.5	89.5	0.61	0.73	0.79	1.25	0.3401	23	51	90.4	56.0
		1170	213T	8.82	4.41	3.53	K	7.0	13.3	2.0	2.8	86.5	88.5	89.5	0.50	0.63	0.70	1.25	1.20	58	128	121	55.0
		865	215T	9.12	4.56	3.65	K	6.8	18.0	2.3	2.8	84.0	85.5	85.5	0.50	0.63	0.71	1.25	2.11	44	97	176	52.0
5	3.7	3500	184T	11.8	5.90	4.72	K	8.7	7.40	2.7	3.9	86.5	88.5	88.5	0.76	0.85	0.89	1.25	0.2233	25	55	88.2	69.0
		1755	184T	12.9	6.45	5.16	J	7.5	14.8	2.3	3.2	88.5	89.5	89.5	0.62	0.74	0.80	1.25	0.4003	15	33	94.8	56.0
		1160	215T	13.7	6.83	5.46	J	6.6	22.3	1.9	2.4	88.5	89.5	89.5	0.58	0.70	0.76	1.25	1.47	57	125	162	55.0
		880	254T	15.2	7.58	6.06	H	5.3	29.4	1.9	2.5	85.5	87.5	87.5	0.49	0.62	0.70	1.25	3.41	44	97	258	54.0
7.5	5.5	3520	213T	17.6	8.78	7.02	H	7.2	11.0	2.1	3.0	87.5	89.5	89.5	0.75	0.84	0.88	1.25	0.4665	27	59	139	72.0
		1765	213T	18.0	9.00	7.20	H	7.1	22.0	2.2	3.1	89.5	91.0	91.7	0.67	0.78	0.84	1.25	1.34	20	44	154	58.0
		1175	254T	19.0	9.48	7.58	H	6.6	33.1	2.3	2.8	89.5	90.2	91.0	0.63	0.74	0.80	1.25	3.92	34	75	276	59.0
		880	256T	22.2	11.1	8.88	G	5.3	44.2	2.0	2.5	85.5	87.5	87.5	0.50	0.63	0.71	1.25	4.43	33	73	284	54.0
10	7.5	3515	215T	23.2	11.6	9.28	H	7.2	14.7	2.2	2.9	89.5	90.2	90.2	0.79	0.87	0.90	1.25	0.6362	24	53	163	72.0
		1760	215T	24.8	12.4	9.92	H	6.4	29.4	2.0	3.0	90.2	91.7	91.7	0.66	0.77	0.83	1.25	1.51	17	37	172	58.0
		1175	256T	25.8	12.9	10.3	H	6.5	44.1	2.3	2.8	90.2	91.0	91.0	0.63	0.74	0.80	1.25	4.43	27	59	290	59.0
		880	284T	26.8	13.4	10.7	G	5.6	58.9	2.0	2.4	89.5	90.2	90.2	0.61	0.72	0.78	1.25	7.20	32	70	373	54.0
15	11	3530	254T	34.0	17.0	13.6	G	6.4	22.0	2.2	2.6	89.5	91.0	91.0	0.79	0.86	0.89	1.25	1.26	25	55	258	72.0
		1765	254T	36.0	18.0	14.4	G	6.3	44.0	2.3	2.7	91.0	91.7	92.4	0.68	0.78	0.83	1.25	2.62	20	44	265	64.0
		1175	284T	35.8	17.9	14.3	G	6.5	66.1	2.3	2.7	91.0	91.7	91.7	0.69	0.80	0.84	1.25	7.85	20	44	379	59.0
		880	286T	38.8	19.4	15.5	G	5.5	88.3	2.0	2.3	90.2	91.0	90.2	0.62	0.73	0.79	1.25	8.18	25	55	417	54.0
20	15	3520	256T	46.4	23.2	18.6	G	6.4	29.4	2.1	2.4	91.0	91.7	91.0	0.82	0.87	0.89	1.25	1.54	21	46	282	72.0
		1765	256T	48.2	24.1	19.3	G	6.3	58.7	2.3	2.7	91.7	92.4	93.0	0.69	0.79	0.84	1.25	3.10	17	37	298	64.0
		1175	286T	48.4	24.2	19.4	G	6.4	88.2	2.3	2.6	91.0	91.7	91.7	0.70	0.80	0.85	1.25	9.16	16	35	426	59.0
		880	324T	56.6	28.3	22.6	G	5.0	118	1.9	2.2	89.5	91.0	91.0	0.54	0.66	0.73	1.25	9.37	27	59	452	56.0
25	18.5	3535	284TS	57.0	28.5	22.8	G	6.3	36.6	2.0	2.5	91.0	91.7	91.7	0.82	0.87	0.89	1.25	2.69	17	37	362	72.0
		1765	284T	59.0	29.5	23.6	G	6.4	73.4	2.4	2.7	92.4	93.0	93.6	0.70	0.80	0.84	1.25	5.11	24	53	388	64.0
		1180	324T	60.8	30.4	24.3	G	6.2	110	2.1	2.6	91.7	93.0	93.0	0.65	0.77	0.82	1.25	11.5	26	57	560	62.0
		880	326T	71.8	35.9	28.7	G	5.2	147	2.0	2.3	89.5	91.0	91.0	0.51	0.64	0.71	1.25	11.9	23	51	509	56.0
30	22	3535	286TS	67.6	33.8	27.0	G	6.3	44.0	2.0	2.5	91.7	91.7	91.7	0.82	0.87	0.89	1.25	3.37	15	33	392	72.0
		1765	286T	70.2	35.1	28.1	G	6.4	88.1	2.4	2.7	93.0	93.0	93.6	0.70	0.80	0.84	1.25	5.85	20	44	437	64.0
		1180	326T	71.6	35.8	28.6	G	6.2	132	2.3	2.6	91.7	93.0	93.0	0.65	0.77	0.83	1.25	13.2	21	46	553	62.0
		880	364/5T	74.0	37.0	29.6	G	6.2	177	1.7	2.4	92.4	92.4	92.4	0.63	0.74	0.80	1.25	23.5	20	44	803	60.0
40	30	3555	324TS	91.6	45.8	36.6	G	6.4	58.3	2.3	2.4	91.7	92.4	92.4	0.82	0.87	0.89	1.25	4.90	22	48	547	74.0
		1775	324T	96.4	48.2	38.6	G	6.4	117	2.2	2.6	93.0	94.1	94.1	0.67	0.78	0.83	1.25	9.16	20	44	492	66.0
		1180	364/5T	93.0	46.5	37.2	G	6.4	176	2.0	2.4	93.6	93.6	94.1	0.73	0.82	0.86	1.25	29.0	21	46	833	64.0
		880	364/5T	100	50.0	40.0	G	6.0	235	1.7	2.3	92.4	93.0	92.4	0.66	0.76	0.81	1.25	29.0	18	40	875	60.0
50	37	3550	326TS	112	56.1	44.9	F	6.2	73.0	2.2	2.3	93.0	93.0	93.0	0.83	0.87	0.89	1.25	5.75	23	51	584	74.0
		1775	326T	118	59.2	47.4	G	6.5	146	2.3	2.7	93.0	94.1	94.5	0.66	0.77	0.83	1.25	9.16	15	33	536	66.0
		1180	364/5T	115	57.4	45.9	G	6.4	220	2.0	2.4	93.6	94.1	94.1	0.74	0.83	0.86	1.25	32.4	18	40	869	64.0
		880	404/5T	120	60.0	48.0	G	6.5	294	1.7	2.6	93.0	93.0	93.0	0.68	0.78	0.83	1.25	34.6	15	33	1012	60.0
60	45	3560	364/5TS	134	67.0	53.6	G	6.6	87.3	2.0	2.6	91.7	93.0	93.6	0.81	0.88	0.90	1.25	10.6	14	31	825	79.0
		1775	364/5T	137	68.3	54.6	G	6.6	175	2.4	2.6	94.1	94.5	95.0	0.75	0.83	0.87	1.25	22.4	15	33	869	67.0
		1180	404/5T	139	69.5	55.6	G	6.4	263	2.0	2.3	94.1	94.5	94.5	0.74	0.82	0.86	1.25	36.9	20	44	1036	64.0
		880	404/5T	146	73.0	58.4	H	6.5	353	1.8	2.7	93.0	93.0	93.0	0.68	0.78	0.83	1.25	40.2	13	29	1111	60.0
75	55	3555	364/5TS	164	81.9	65.5	G	6.6	109	2.0	2.6	92.4	93.6	93.6	0.83	0.88	0.90	1.25	11.9	10	22	847	79.0
		1775	364/5T	168	84.1	67.3	G	6.6	219	2.4	2.6	94.5	95.0	95.4	0.73	0.82	0.86	1.25	23.3	14	31	919	67.0
		1180	404/5T	170	84.9	67.9	G	6.4	329	2.0	2.3	94.1	94.5	94.5	0.74	0.83	0.86	1.25	40.2	17	37	1089	64.0
		890	444/5T	186	93.0	74.4	G	6.0	437	1.8	2.1	93.0	93.6	93.6	0.64	0.74	0.79	1.25	73.6	18	40	1444	63.0
100	75	3555	404/5TS	220	110	88.0	G	6.5	146	2.0	2.4	93.0	94.1	94.1	0.85	0.90	0.91	1.25	13.2	14	31	1045	79.0
		1775	404/5T	222	111	88.8	G	6.6	292	2.4	2.6	95.0	95.0	95.4	0.78	0.86	0.89	1.25	29.9	13	29	1140	68.0
		1185	444/5T	242	121	96.8	G	6.4	437	2.2	2.6	94.5	95.0	95.0	0.68	0.78	0.82	1.25	87.3	20	44	1577	69.0
		890	444/5T	254	127	102	G	6.0	582	1.9	2.2	93.6	94.1	94.1	0.63	0.74	0.79	1.25	87.3	15	33	1599	63.0

W22 Severe Duty NEMA Premium Efficiency Motors - TEFC
Electrical Data

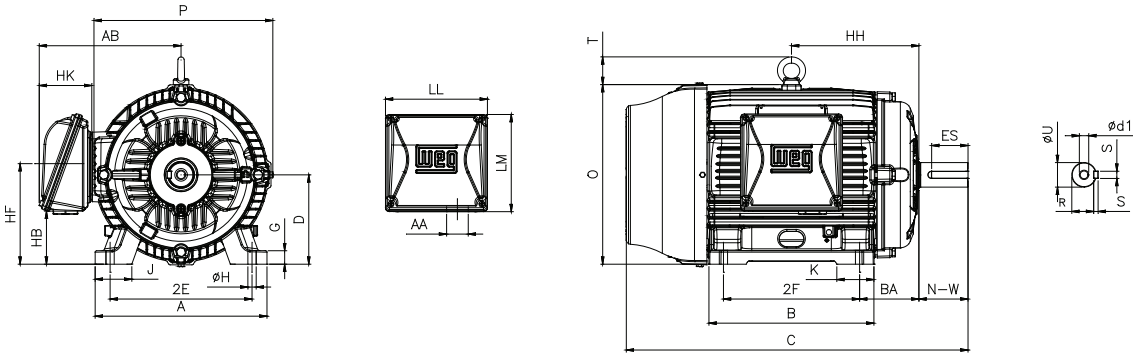
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		3570	444/5TS	268	134	107	F	6,5	181	2,0	2,5	93,6	94,5	95,0	0,82	0,87	0,89	1.15	33,5	29	64	1599	81,0
		1780	444/5T	278	139	111	G	6,5	364	2,0	2,5	95,0	95,4	95,4	0,74	0,82	0,85	1.15	57,2	27	59	1590	73,0
125	90	1185	444/5T	286	143	114	G	6,4	547	2,1	2,4	95,0	95,4	95,0	0,70	0,79	0,83	1.15	104	19	42	1751	69,0
		890	504/5T	298	149	119	F	5,8	728	1,8	2,0	94,5	94,5	94,5	0,66	0,76	0,80	1.15	104	23	51	2110	66,0
		890	445/7T	302	151	121	G	6,0	728	1,8	2,1	94,5	94,5	94,5	0,64	0,74	0,79	1.15	104	17	37	1887	63,0
		3570	444/5TS	322	161	129	F	6,5	218	1,8	2,4	94,1	95,0	95,0	0,83	0,88	0,90	1.15	39,1	22	48	1709	81,0
		1780	444/5T	340	170	136	G	6,6	437	2,0	2,5	95,4	95,8	95,8	0,74	0,82	0,85	1.15	66,7	27	59	1676	73,0
150	110	1190	504/5T	352	176	141	G	6,7	653	2,3	2,5	94,5	95,4	95,8	0,67	0,78	0,82	1.15	134	29	64	2249	70,0
		1190	445/7T	352	176	141	G	6,7	653	2,4	2,9	95,0	95,4	95,8	0,67	0,78	0,82	1.15	134	20	44	2042	69,0
		890	504/5T	360	180	144	F	5,8	873	1,8	2,0	94,5	94,5	94,5	0,68	0,77	0,81	1.15	125	21	46	2293	66,0
		890	445/7T	370	185	148	G	6,0	873	1,9	2,1	94,5	94,5	94,5	0,64	0,74	0,79	1.15	125	15	33	2042	63,0
		3575	504/5TS	444	222	178	H	7,2	290	2,0	2,7	94,1	95,0	95,4	0,81	0,87	0,89	1.15	44,7	17	37	2168	81,0
		3570	445/7TS	438	219	175	G	7,2	290	2,4	2,4	95,0	95,4	95,4	0,86	0,89	0,90	1.15	44,7	14	31	1914	81,0
		1785	504/5T	456	228	182	G	6,6	580	2,2	2,2	95,4	96,2	96,2	0,75	0,83	0,86	1.15	76,2	22	48	2273	---
200	150	1780	445/7T	460	230	184	G	6,8	582	2,4	2,5	95,4	96,2	96,2	0,73	0,82	0,85	1.15	76,2	16	35	1899	---
		1190	504/5T	474	237	190	G	6,6	871	2,2	2,3	95,0	95,4	95,8	0,70	0,80	0,83	1.15	145	21	46	2459	70,0
		1190	445/7T	474	237	190	G	6,6	871	2,3	2,4	95,0	95,4	95,8	0,68	0,79	0,83	1.15	145	15	33	2247	69,0
		890	447/9T	508	254	203	G	6,2	1164	2,0	2,2	94,5	95,0	95,0	0,62	0,73	0,78	1.15	161	13	29	2509	---
		895	586/7T	494	247	198	G	6,3	1158	1,4	2,1	95,0	95,4	95,4	0,65	0,75	0,80	1.15	350	40	88	3334	75,0
		3575	504/5TS	538	269	215	G	7,0	362	2,0	2,4	95,0	95,8	95,8	0,85	0,89	0,90	1.15	50,3	23	51	2388	81,0
		3570	445/7TS	532	266	213	F	6,5	363	2,3	2,2	95,4	95,8	95,8	0,87	0,90	0,91	1.15	50,3	18	40	2159	81,0
		1785	504/5T	554	277	222	G	6,6	726	2,3	2,2	95,8	96,2	96,2	0,78	0,85	0,87	1.15	89,6	20	44	2450	75,0
250	185	1780	445/7T	562	281	225	G	6,6	728	2,3	2,4	95,8	96,2	96,2	0,75	0,83	0,86	1.15	89,6	15	33	2079	73,0
		1185	447/9T	584	292	234	G	6,7	1093	2,4	2,4	95,0	95,4	95,8	0,68	0,79	0,83	1.15	145	12	26	2538	---
		1190	586/7T	598	299	239	G	6,2	1088	2,0	2,1	95,0	95,4	95,8	0,68	0,77	0,81	1.15	226	30	66	3206	77,0
		895	586/7T	598	299	239	G	6,2	1447	1,4	2,1	95,4	95,8	95,8	0,66	0,76	0,81	1.15	395	40	88	3649	75,0
		3570	447/9TS	640	320	256	G	7,0	435	2,5	2,4	95,4	95,8	95,8	0,86	0,89	0,90	1.15	58,1	14	31	2545	---
		3580	586/7TS	634	317	254	F	6,5	434	1,5	2,2	95,0	95,8	95,8	0,87	0,90	0,91	1.15	123	35	77	3382	84,0
		1780	447/9T	660	330	264	G	6,5	873	2,3	2,3	95,8	96,2	96,2	0,77	0,84	0,87	1.15	89,6	16	35	2381	---
300	220	1790	586/7T	668	334	267	G	6,8	868	2,3	2,3	95,4	96,2	96,2	0,77	0,84	0,86	1.15	161	19	42	3080	78,0
		1185	447/9T	694	347	278	G	6,8	1312	2,5	2,5	95,4	95,8	95,8	0,68	0,78	0,83	1.15	145	9	20	2613	---
		1190	586/7T	712	356	285	G	6,0	1306	2,0	2,0	95,4	95,8	95,8	0,69	0,78	0,81	1.15	277	30	66	3495	77,0
		895	586/7T	712	356	285	G	6,5	1737	1,5	2,2	95,4	95,8	95,8	0,66	0,77	0,81	1.15	462	40	88	4035	75,0
		3575	447/9TS	754	377	302	H	7,6	507	2,4	2,5	95,4	96,2	96,2	0,85	0,89	0,90	1.15	68,1	10	22	2701	---
		3580	586/7TS	746	373	298	G	6,6	507	1,6	2,3	95,4	96,2	96,2	0,86	0,90	0,91	1.15	136	28	62	3621	84,0
		1780	447/9T	788	394	315	G	6,9	1019	2,5	2,4	95,8	96,2	96,2	0,77	0,84	0,86	1.15	118	14	31	2675	---
350	260	1790	586/7T	788	394	315	G	6,4	1013	2,0	2,0	95,8	96,2	96,2	0,78	0,85	0,86	1.15	179	23	51	2675	78,0
		1190	586/7T	842	421	337	G	6,3	1524	2,1	2,1	95,4	95,8	95,8	0,67	0,77	0,81	1.15	328	29	64	3784	77,0
		895	586/7T*	852	426	341	G	6,4	2026	1,6	2,3	95,4	95,8	95,8	0,64	0,75	0,80	1.15	484	34	75	4309	75,0
		3580	586/7TS	860	430	344	F	6,5	579	1,8	2,2	95,8	96,2	96,2	0,88	0,90	0,91	1.15	122	48	106	3749	84,0
		1790	586/7T	910	455	364	G	6,4	1158	2,0	2,2	95,8	96,2	96,2	0,78	0,85	0,86	1.15	179	19	42	3455	78,0
400	300	1190	586/7T	966	483	386	G	6,5	1741	2,3	2,1	95,4	95,8	96,2	0,67	0,77	0,81	1.15	368	29	64	4115	77,0
		895	588/9T	996	498	398	H	6,4	2315	1,5	2,3	95,0	95,6	95,7	0,62	0,73	0,79	1.15	0,0000	47	103	4851	75,0
		3580	586/7TS	946	473	378	F	6,6	651	2,0	2,3	95,8	96,2	96,2	0,88	0,90	0,91	1.15	132	34	75	3918	84,0
450	330	1790	586/7T	1002	501	401	G	6,8	1302	2,4	2,1	95,8	96,2	96,2	0,78	0,85	0,86	1.15	213	16	35	3640	78,0
		1190	586/7T	1064	532	426	G	6,2	1959	2,1	2,1	95,8	96,2	96,2	0,67	0,77	0,81	1.15	368	26	57	4384	77,0
		895	588/9T	1080	540	432	G	6,5	2605	1,6	2,3	95,2	95,7	95,8	0,63	0,74	0,80	1.15	0,0000	46	101	5281	75,0
		3580	586/7TS	1060	530	424	G	6,8	724	2,2	2,4	95,8	96,2	96,2	0,88	0,90	0,91	1.15	143	39	86	4086	84,0
500	370	1790	586/7T	1110	555	444	G	6,5	1447	2,4	2,0	95,8	96,2	96,2	0,80	0,85	0,87	1.15	256	16	35	3912	78,0
		1190	586/7T	1206	603	482	G	6,5	2177	2,2	2,1	95,8	96,2	96,2	0,66	0,76	0,80	1.15	368	25	55	4403	77,0
550	400	1190	588/9T	1322	661	529	G	6,5	2395	2,2	2,3	95,2	96,0	96,1	0,63	0,74	0,79	1.15	389	30	66	4734	77,0
		3585	588/9TS	1300	650	520	H	7,4	867	2,3	2,7	96,0	96,5	96,5	0,84	0,89	0,90	1.15	155	33	73	4410	89,0
600	450	1790	586/7T	1330	665	532	G	7,1	1737	2,2	2,5	96,2	96,4	96,5	0,74	0,82	0,86	1.15	236	16	35	4335	78,0
		1190	588/9T	1486	743	594	H	6,5	2612	2,2	2,3	95,4	96,1	96,2	0,63	0,74	0,79	1.15	449	31	68	5173	77,0
650	480	3585	588/9TS	1370	685	548	G	7,1	939	2,0	2,4	96,1	96,6	96,6	0,86	0,90	0,91	1.15	176	56	123	4635	89,0
		1790	588/9T	1468	734	587	H	7,4	1881	2,5	2,7	96,0	96,5	96,6	0,71	0,81	0,85	1.15	301	22	48	4395	81,0
700	515,2	3585	588/9TS*	1472	736	589	G	7,2	1012	2,3	2,5	96,2	96,6	96,6	0,86	0,90	0,91	1.15	183	34	75	4805	89,0
		1790	588/9T	1576	788	630	G	7,0	2026	2,5	2,6	96,2	96,5	96,6	0,71	0,81	0,85	1.15	335	23	51	4584	81,0

General Purpose Motors - TEFC (IP55) - 3 Phase - Cast Iron Frame
Mechanical Data - W22 Severe Duty High Efficiency / NEMA Premium

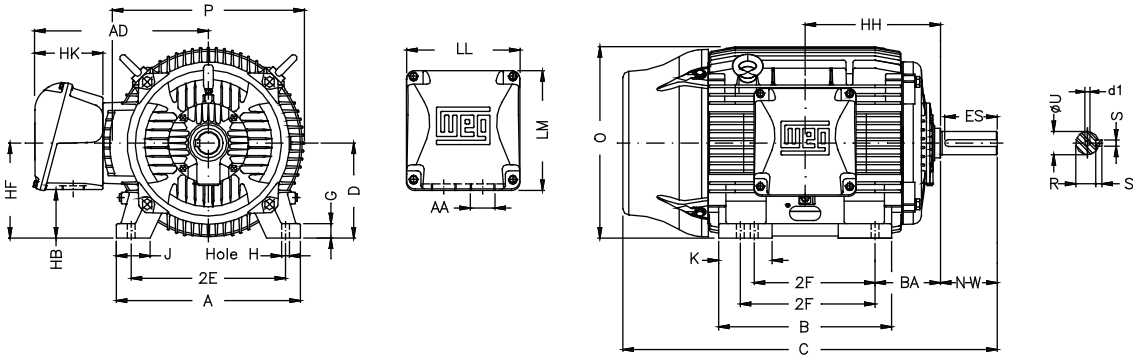
Frames 143T to 184T



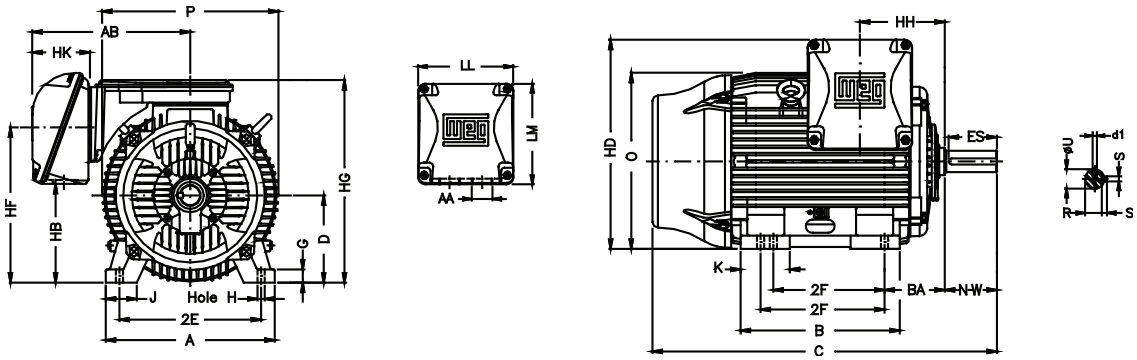
Frames 213T to 326T



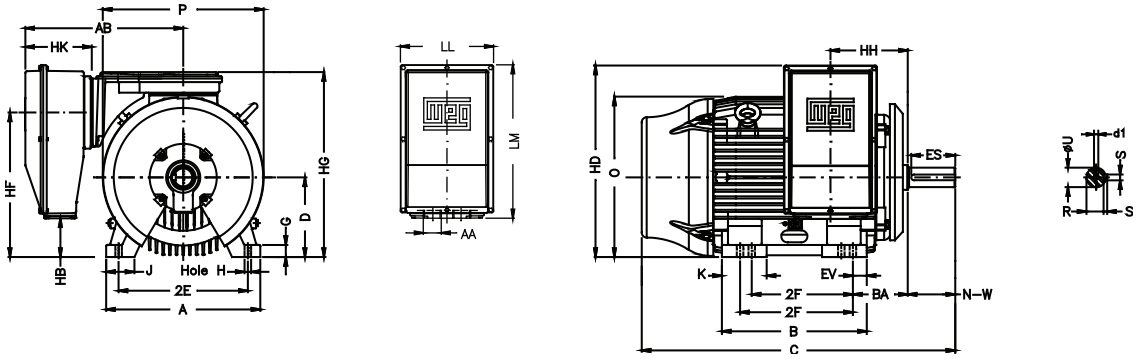
Frames 364 to 444/5T



Frames 445/7T to 586/7T



Frame 588/9T



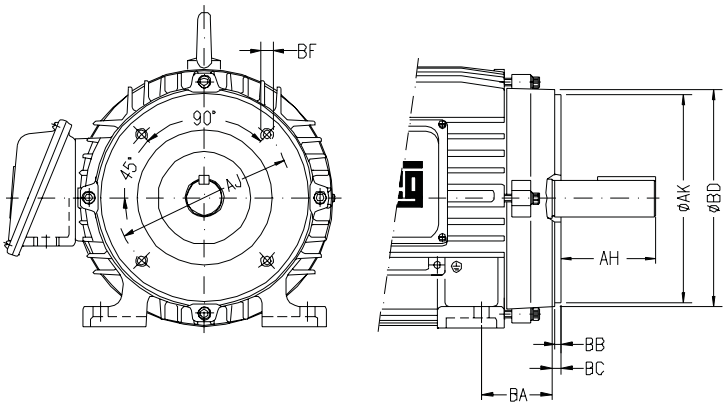
General Purpose Motors - TEFC (IP55) - 3 Phase - Cast Iron Frame
Mechanical Data - W22 Severe Duty High Efficiency / NEMA Premium

NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N–W	U
143T	5.500	4.000	0.344	2.250	6.457	5.157	12.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
145T		5.000				6.142	13.346												
182T	7.500	4.500	0.406	2.750	8.661	5.945	14.860	4.500	0.394	1.594	9.343		8.740	1.772	0.250	0.984	1.969	2.750	1.125
184T		5.500				6.969	15.860												
213T	8.500	5.500		3.500	9.764	7.362	18.021	5.250	0.827	1.988	10.841	2.165	10.669		0.313	1.203	2.480	3.375	1.375
215T		7.000				8.858	19.517												
254T	10.000	8.252	0.531	4.250	12.126	10.000	23.213	6.250		2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
256T		10.000				11.732	24.945												
284TS	11.000	9.500		4.750	13.780	11.575	25.061	7.000	1.023	3.110	14.067	2.874	14.173				2.480	3.250	
284T							26.433								0.500	1.594	3.149	4.622	1.875
286TS		11.000				13.071	26.557								0.375	1.406	2.480	3.250	1.625
286T							27.929								0.500	1.594	3.149	4.622	1.875
324TS	12.500	10.500	0.657	5.250	15.157		28.120	8.000	1.300	3.189	15.953	3.189	15.827	2.441			2.756	3.750	
324T							29.620									1.844	3.937	5.250	2.125
326TS		12.000				14.567	29.616									1.594	2.756	3.750	1.875
326T							31.116									1.844	3.937	5.250	2.125
364/5TS	14.016	11.260/12.244	0.660	5.875	17.165	16.220	32.276	9.000	1.480	3.150	17.716	4.921	17.914	-		1.591	1.968	3.748	1.875
364/5T							34.251								0.625	2.019	4.330	5.874	2.375
404/5TS	15.984	12.244/13.740	0.810	6.625	19.921	18.386	36.732	10.000	1.811	3.937	19.566	5.669	19.134		0.500	1.842	2.756	4.250	2.125
404/5T							39.730								0.750	2.449	5.512	7.250	2.875
444/5TS	18.000	14.500/16.500		7.500	21.929	20.315	41.443	11.000	1.630		22.795	5.866	23.583	4.620	0.625	2.021	3.000	4.750	2.375
444/5T							45.193								0.875	2.880	7.087	8.500	3.375
445/7TS		16.500/20.000			21.496	23.897	45.301		1.654		25.291				0.625	2.021	3.000	4.750	2.375
445/7T							49.051								0.875	2.880	7.087	8.500	3.375
447/9TS		20.000/25.000			21.929	31.535	52.588		1.630	4.331		6.692			0.625	2.021	3.000	4.750	2.375
447/9T							56.338								0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000/25.000					53.431			3.937	23.874	8.780	25.866		0.625	2.021	3.000	4.750	2.375
L447/9T							57.181								0.875	2.880	7.087	8.500	3.375
504/5TS	20.000	16.000/18.000	1.250	8.500	24.724	24.449	48.215	12.500	2.146	4.724	25.425	7.228		4.880	0.625	2.021	3.000	4.750	2.375
504/5T							54.095								0.875	3.134	8.661	10.630	3.625
586/7TS	23.000	22.000/25.000	1.181	10.000	29.528	29.921	54.829	14.500	2.492	5.512	28.985	9.055	28.977	5.590	0.625	2.021	3.000	4.750	2.375
586/7T							61.704								1.000	3.312	8.661	11.625	3.875
588/9TS		28.000/32.000				37.980	62.506					12.795		8.464	0.625	2.021	3.000	4.750	2.375
588/9T							69.381								1.000	3.312	8.661	11.625	3.875

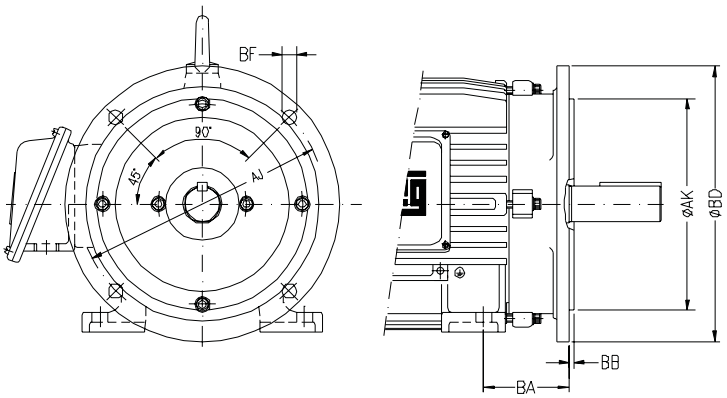
NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
143T	6.181	1.728	3.500		4.250	2.638	4.527	4.094	NPT3/4"	A 4	6205 ZZ	6204 ZZ
145T					4.750							
182T	7.559	2.236	4.500		5.000	3.110	5.512	5.236	NPT1"		6207 ZZ	6206 ZZ
184T					5.500							
213T	8.583	3.006	5.250		6.250						6308 ZZ	6207 ZZ
215T					7.000							
254T	10.394	3.061	6.565		8.376	3.937	7.795	7.402	NPT1 1/2"		6309 C3	6209 C3
256T					9.250							
284TS	10.984	3.535	7.000	-	9.500						6311 C3	6211 C3
284T												
286TS					10.250							
286T												
324TS	12.480	4.811	8.708		10.500	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3
324T												
326TS					11.250							
326T												
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"		6314 C3	6314 C3
364/5T												
404/5TS		5.040			14.213						6316 C3	
404/5T												
444/5TS	18.386	5.394			15.748	5.787	11.811	11.890	2xNPT 3"		6314 C3	
444/5T											6319 C3	6316 C3
445/7TS	20.670	12.598	20.724	26.850	11.803	6.968	14.646	15.040		UNC 3/4"-10	6314 C3	6314 C3
445/7T											6319 C3	6316 C3
447/9TS											6314 C3	6314 C3
447/9T											6322 C3	6319 C3
L447/9TS	23.071	11.417	20.551	28.236	11.500	8.464	15.906	17.244			6314 C3	6314 C3
L447/9T											6322 C3	6319 C3
504/5TS	20.670	15.275	24.291	29.409	10.394	6.968	14.646	15.040			6314 C3	6314 C3
504/5T											6319 C3	6316 C3
586/7TS	23.977	17.322	26.732	34.015	13.386	8.464	15.906	17.244			6314 C3	6314 C3
586/7T										UNC 7/8"-9	6322 C3	6319 C3
588/9TS	27.600	8.464	28.346			12.520	17.441	28.740		UNC 3/4"-10	6314 C3	6314 C3
588/9T										UNC 7/8"-9	6322 C3	6319 C3

General Purpose Motors - TEFC (IP55) - 3 Phase - Cast Iron Frame
Mechanical Data - W22 Severe Duty High Efficiency / NEMA Premium

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF NUMBER	BF TAP SIZE	BB	BC	AH
143TC	2.250	5.875	4.500	6.500	4	UNC 3/8"x16	0.156	0.125	2.125
145TC									
182TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
184TC									
213TC	3.500								3.125
215TC									
254TC	4.250								3.75
256TC									
284TC	4.750	9.000	10.500	11.031					4.375
284TSC									3.000
286TC									4.375
286TSC									3.000
324TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324TSC									3.500
326TC									5.000
326TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
L447/9TC									8.250
L447/9TSC									4.500
504/5TC	8.500	14.500	16.500						10.375
504/5TSC									4.500
586/7TC	10.000								11.375
586/7TSC									4.500



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF NUMBER	BF TAP SIZE	BB
143TD	2.250	10.000	9.000	11.000	4	0.562	0.203
145TD							
182TD	2.750						
184TD							
213TD	3.500						
215TD							
254TD	4.250	12.500	11.000	14.000		0.828	
256TD							
284TD	4.750						
284TSD							
286TD							
286TSD							
324TD	5.250	16.000	14.000	18.000			
324TSD							
326TD							
326TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
504/5TD	8.500	22.000	18.000	24.803			0.250
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							
588/9TD							
588/9TSD							



W22 Severe Duty Medium Voltage Motors - TEFC
Purchasing Data

Standard Features

- Three-phase, 2, 4, 6 and 8 pole, 60 & 50Hz
- Voltage: 2300V, 2400V, 3300V, 4000V, 4160V (special voltages up to 6.6kV, please call for details)
- Totally Enclosed Fan Cooled - TEFC (IP55) waterproof as per NEMA MG1 1.26.6 “Waterproof Machine”
- Squirrel cage rotor / Aluminum die cast
- WSeal® (double lipped V’Ring with a metallic cap) sealing on both endshields from frame 364T/5T up to 504/5T (586/7 and 588/9T frames fitted with Taconite Labyrinth as standard)
- Ball bearings
- 4140 steel shaft
- Class “F” (DT 80K) insulation for all frames
- VPI Impregnation Insulation system
- Temperature rise limited to Class “B” (80K)
- NEMA design “B”
- Service Factor: 1.15 unless otherwise indicated
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- NPT threaded conduit hole
- Double Gasketed terminal box
- Re-configurable Terminal Box
- Stainless steel nameplate AISI 316 with laser etching
- Paint: Synthetic enamel alkyd resin base (240 hours minimum ASTM B117 salt spray test)
- Paint Plan: 203A
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain plug
- Regreasable bearings with grease fittings in DE and NDE bearings
- 2 x RTD (PT100) per phase
- Plastic fan for 2 pole motors
- Aluminum fan for 4, 6, & 8 pole motors

Optional Features

- Special voltages
- Special shafts
- Labyrinth tachonite seal available for all ratings
- Thermostats, Thermistors
- Additional terminal box
- Drip cover (canopy) for shaft down applications
- Cable glands
- C Face and NEMA D flanges for all ratings
- Roller bearings available
- Special epoxy painting

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

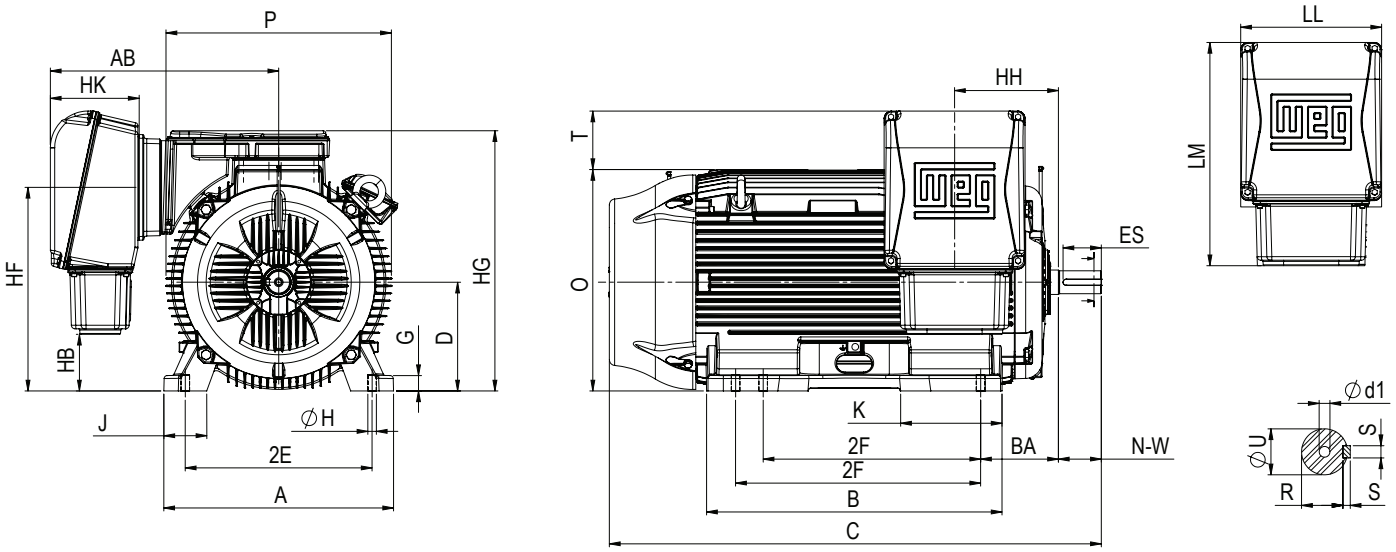
- Please call for details

CSA Certification pending.

W22 Severe Duty Medium Voltage Motors - TEFC
Electrical Data

Rated Output		Full Load Speed (RPM)	Frame	Full Load Current I_n(A)					Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Snd dB(A)
														% of full load									
HP	kW			2300V	2400V	3300V	4000V	4160V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold	
		3576	L447/9T	28.8	27.6	20.0	16.5	15.9	H	7.3	181	1.4	3.0	90.2	91.7	92.4	0.72	0.81	0.85	29.2	20	44	---
125	90	1183	L447/9T	30.4	29.1	21.2	17.5	16.8	G	6.4	547	1.3	2.1	92.5	92.7	92.7	0.64	0.75	0.80	87.8	16	35	---
		892	L447/9T	34.7	33.3	24.2	20.0	19.2	H	6.3	726	1.8	2.1	91.8	92.9	93.0	0.51	0.63	0.70	114	15	33	---
		3576	L447/9T	34.9	33.5	24.3	20.1	19.3	H	7.3	217	1.4	3.0	91.7	92.4	93.0	0.72	0.81	0.85	29.2	20	44	---
150	110	1786	L447/9T	35.8	34.3	25.0	20.6	19.8	G	6.6	435	1.6	2.5	91.2	92.5	93.1	0.69	0.78	0.83	71.0	20	44	---
		1182	L447/9T	36.7	35.2	25.6	21.1	20.3	G	6.4	657	1.3	2.1	92.8	92.9	92.9	0.67	0.77	0.81	104	17	37	---
		892	L447/9T	42.3	40.6	29.5	24.3	23.4	J	6.5	871	2.0	2.5	92.2	93.0	93.1	0.51	0.63	0.70	128	14	31	---
		3576	L447/9T	41.6	39.9	29.0	23.9	23	H	7.3	254	1.4	3.0	91.7	93.0	93.6	0.72	0.81	0.85	32.2	20	44	---
175	132	1786	L447/9T	42.1	40.4	29.4	24.2	23.3	H	6.6	508	1.6	2.5	91.7	93.0	93.6	0.71	0.80	0.84	78.5	20	44	---
		1182	L447/9T	43.8	41.9	30.5	25.2	24.2	H	6.4	767	1.3	2.1	93.0	93.2	93.3	0.67	0.77	0.81	114	14	31	---
		891	L447/9T	51.5	49.4	35.9	29.6	28.5	J	6.3	1018	1.8	2.2	92.5	93.4	93.3	0.49	0.62	0.69	138	11	24	---
		3576	L447/9T	47.0	45.1	32.8	27.0	26	H	7.3	290	1.4	3.0	92.4	93.6	94.1	0.72	0.82	0.85	34.3	20	44	---
200	150	1786	L447/9T	47.7	45.8	33.3	27.5	26.4	G	6.6	580	1.6	2.5	92.7	93.8	93.9	0.71	0.80	0.84	83.5	20	44	---
		1182	L447/9T	49.7	47.7	34.7	28.6	27.5	H	6.6	877	1.3	2.1	93.2	93.6	93.6	0.66	0.77	0.81	114	14	31	---
		891	L447/9T	58.4	56.0	40.7	33.6	32.3	J	6.3	1163	1.8	2.2	92.6	93.4	93.5	0.49	0.62	0.69	138	11	24	---
		3578	L447/9T	57.2	54.8	39.8	32.9	31.6	H	7.3	362	1.4	3.0	93.2	94.2	94.6	0.74	0.83	0.86	39.3	15	33	---
250	185	1786	L447/9T	58.6	56.2	40.8	33.7	32.4	G	6.6	725	1.6	2.5	93.2	94.1	94.3	0.71	0.80	0.84	96.3	20	44	---
		1182	L447/9T	61.9	59.3	43.1	35.6	34.2	H	6.8	1096	1.3	2.2	93.7	93.9	93.9	0.64	0.76	0.80	123	12	26	---
		893	586/7T	67.5	64.7	47.0	38.8	37.3	J	6.7	1450	1.8	2.4	93.0	94.0	94.2	0.53	0.65	0.73	299	21	46	75.0
		3578	L447/9T	67.8	65.0	47.3	39.0	37.5	H	7.6	434	1.5	3.0	93.6	94.5	94.7	0.73	0.82	0.86	43.9	12	26	---
		1786	L447/9T	69.5	66.6	48.4	39.9	38.4	H	7.1	870	1.8	2.7	93.8	94.6	94.7	0.71	0.80	0.84	108	18	40	---
300	220	1184	L447/9T*	76.3	73.1	53.2	43.9	42.2	J	7.2	1313	1.5	2.4	93.6	93.9	93.9	0.58	0.70	0.77	131	7	15	---
		1191	586/7T	76.0	72.8	52.9	43.7	42	J	7.2	1305	1.7	2.3	93.2	94.2	94.5	0.60	0.71	0.77	282	19	42	77.0
		893	588/9T	80.1	76.8	55.8	46.1	44.3	H	6.6	1741	1.8	2.7	93.6	94.4	94.5	0.53	0.65	0.73	325	18	40	75.0
		3578	L447/9T*	80.7	77.3	56.2	46.4	44.6	H	7.6	507	1.5	3.0	93.6	94.5	95.1	0.72	0.81	0.85	43.9	12	26	---
		3580	586/7TS	78.0	74.7	54.3	44.8	43.1	H	7.5	507	1.4	3.0	94.1	94.5	95.1	0.78	0.85	0.88	72.8	20	44	84.0
350	260	1789	586/7T	83.7	80.3	58.4	48.2	46.3	J	7.6	1014	2.1	2.7	93.6	94.6	95.1	0.66	0.77	0.82	183	25	55	81.0
		1191	588/9T	89.5	85.8	62.4	51.5	49.5	J	7.0	1523	1.7	2.3	93.7	94.6	94.6	0.60	0.71	0.77	301	15	33	77.0
		893	588/9T	95.5	91.5	66.6	54.9	52.8	J	6.8	2031	2.0	2.9	94.2	94.8	94.9	0.52	0.65	0.72	356	17	37	75.0
		3582	588/9TS	89.7	86.0	62.5	51.6	49.6	H	7.8	579	1.6	2.5	94.5	95.0	95.4	0.80	0.86	0.88	91.7	20	44	89.0
400	300	1789	588/9T	94.2	90.3	65.7	54.2	52.1	J	7.6	1158	2.1	2.7	94.0	95.0	95.1	0.70	0.80	0.84	218	25	55	81.0
		1191	588/9T	103	98.6	71.7	59.2	56.9	J	7.2	1740	1.8	2.4	94.0	94.9	95.0	0.59	0.71	0.77	327	18	40	77.0
		891	588/9T*	107	103	74.6	61.6	59.2	H	6.2	2326	1.7	2.5	94.4	94.9	95.0	0.55	0.67	0.74	356	12	26	75.0
		3582	588/9TS	98.8	94.6	68.8	56.8	54.6	H	7.8	651	1.6	2.5	94.5	95.4	95.4	0.80	0.86	0.88	96.8	20	44	89.0
450	330	1789	588/9T	103	99.1	72.1	59.5	57.2	H	7.6	1303	2.1	2.7	94.3	95.0	95.4	0.70	0.80	0.84	233	25	55	81.0
		1190	588/9T	112	107	77.8	64.2	61.7	H	6.8	1959	1.5	2.1	94.3	95.0	95.1	0.62	0.73	0.78	356	12	26	77.0
500	370	3582	588/9TS	110	106	76.8	63.3	60.9	H	7.8	723	1.6	2.5	95.0	95.8	95.8	0.80	0.86	0.88	105	15	33	89.0
		1789	588/9T	116	111	80.6	66.5	63.9	H	7.6	1448	2.1	2.7	94.7	95.2	95.6	0.70	0.80	0.84	255	25	55	81.0
550	400	3582	588/9TS	119	114	83.1	68.5	65.9	H	7.8	796	1.6	2.5	95.4	95.8	95.8	0.80	0.86	0.88	115	15	33	89.0
		1789	588/9T*	125	120	87.1	71.9	69.1	J	8.0	1593	2.2	2.8	94.8	95.4	95.6	0.70	0.80	0.84	255	20	44	81.0
600	440	3582	588/9TS*	132	127	92.0	75.9	73	J	8.1	868	1.7	2.5	95.4	95.8	96.2	0.78	0.85	0.87	115	15	33	89.0
		1788	588/9T*	137	132	95.8	79.0	76	H	7.6	1739	2.1	2.7	95.0	95.5	95.7	0.70	0.80	0.84	255	20	44	81.0

W22 Severe Duty Medium Voltage Motors - TEFC
Mechanical Data

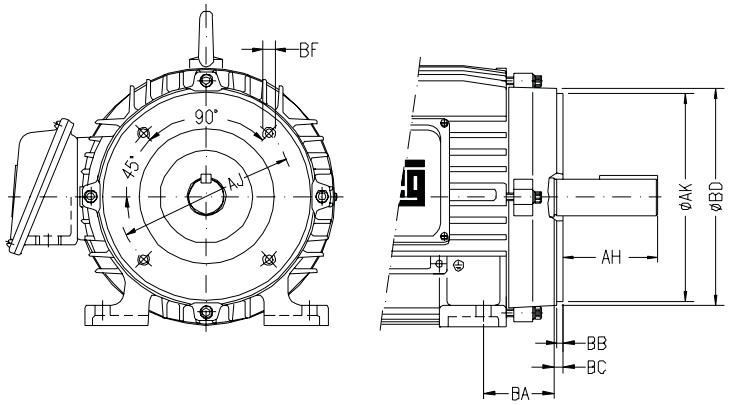


NEMA Frames	MOUNTING				A	B	C	D	G	J	K	O	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N–W	U
L447/9T	18.000	20.000 25.000	0.810	7.500	21.929	31.535	57.780	11.000	1.630	3.937	8.780	23.970	25.866	6.739 8.117*	0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000 25.000					54.030								0.625	2.021	3.000	4.750	2.375
586/7T	23.000	22.000 25.000	1.181	10.000	29.528	29.921	61.704	14.500	2.492	5.512	9.055	28.985	28.977	7.559 8.937*	1.000	3.312	8.661	11.625	3.875
586/7TS		22.000 25.000					54.829								0.625	2.021	3.000	4.750	2.375
588/9T		28.000 32.000				37.980	69.381				13.031				1.000	3.312	8.661	11.625	3.875
588/9TS		28.000 32.000					62.506								0.625	2.021	3.000	4.750	2.375

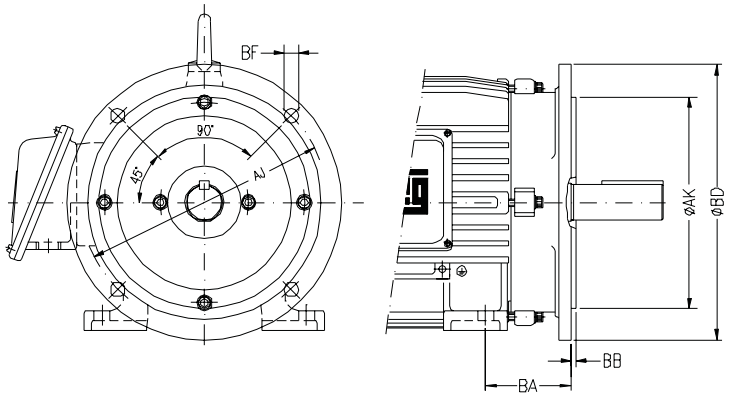
NEMA Frames	TERMINAL BOX								BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	D.E.	N.D.E
L447/9T	28.543 28.740*	2.008 3.386*	20.905 22.283*	28.189 29.567*	12.606	11.417	18.110	28.740	6322-C3	6319-C3
L447/9TS									6314-C3	
586/7T	29.330	7.807 9.185*	27.177 28.673*	33.988 35.366*	13.386				6322-C3	6319-C3
586/7TS									6314-C3	
588/9T									6322-C3	6319-C3
588/9TS									6314-C3	

W22 Severe Duty Medium Voltage Motors - TEFC
Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
L447/9TC	7.500	14.000	16.000	17.913	8	UNC 5/8"X11	0.250	0.250	8.250
L447/9TSC									4.500
586/7TC	10.000	14.500	16.500						11.375
586/7TSC									4.500
588/9TC	8.500								11.375
588/9TSC	10.000								4.500



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
L447/9TD	7.500	20.000	18.000	21.653	8	0.828	0.203
L447/9TSD							
504/5TD	8.500	22.000	18.000	24.803			0.250
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							
588/9TD							
588/9TSD							



W21 Severe Duty Motors - TEFC (IP55)
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan) - CSA C390
- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 2, 4, 6 and 8 pole, 60Hz & 50Hz
- Voltage: 230/460V, 460V or 575V
- Dual nameplated for 50Hz & 60Hz up to 30HP. For 40HP and up please contact your sales office
- Totally Enclosed Fan Cooled - TEFC (IP55)
- V-ring slingers on both endshields (586/7T frame equipped with labyrinth tachonite seal as standard)
- Squirrel cage rotor / Aluminum die cast
- 1045 heat treated and stress relieved carbon steel shaft up to 365T
- 4140 shaft for frame 404T and up
- NEMA dimensions
- Space heaters standard on 586/7T frames
- Class 'F' insulation
- Temperature rise: Class 'B' (80ºC)
- NEMA design 'B'
- Service Factor:
  - 1.25 up to 100HP
  - 1.15 from 125HP and up
- Continuous duty (S1)
- 104ºF (40ºC) ambient temperature
- Altitude: 3300 ft (1000m)
- NPT threaded terminal box conduit hole
- F1 mounted T-Box. F2 field mountable
- Stainless steel nameplate AISI 316 with laser etching
- Color: RAL 5009 (Blue) - WEG paint plan: 201A
- Paint: Synthetic alkyd resin base (exceeds ASTM B117 salt spray test)
- Automatic drain plugs - pressure compensated
- Regreasable bearings, positive pressure lubrication system (frames 254T and up)
- Continuous Flow Resin Impregnation class 'H' resin
- Double gasketed conduit box
- Ball bearings

Optional Features

- Special Voltages
- Special shaft
- Space heaters
- Labyrinth tachonite seal available for all frame sizes
- Thermistors, Thermostats or RTD's (PT100)
- Auxiliary terminal box
- Drip cover (canopy) for shaft down applications
- Cable glands
- 'C' and 'D' flanges for all ratings
- Roller bearings
- Special painting
- F3 mounting. Terminal Box on top of motor
- Fire Pump certified available from factory
- VFD range can be extended with forced ventilation kit (Not for Division 2)

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- Inverter Duty Certified for 12:1 CT & 1000:1 VT *
- Inverter Duty Certified for 100:1 CT with a WEG VFD running in Optimized Flux mode
- Inverter Duty CSA certified for Division 2, Class I, Groups B, C & D and Division 2, Class II, Group F **

* 449T and 586/7T frame sizes not included. Other speed ranges available. Call for specific ratings

** Modification required. Pricing available on request.

APPROVED BY

APPROVED BY LR 38324 LR 50962

CSA E EEV 78282

W21 Severe Duty Motors - Cast Iron Frame - TEFC (IP55)
Purchasing Data

High Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	3600	143T	$409	$483	$493	HT000X02P	1.43	1.14	78.5	40	12.346	0.875
	1800	143T	395	469	479	HT000X04P	1.49	1.19	82.5	44	12.346	0.875
	1200	145T	480	554	564	HT000X06P	1.70	1.36	80.0	44	13.346	0.875
	900	182T	819	903	909	HT000X08P	2.31	1.85	74.0	95	14.860	1.125
1.5	3600	143T	432	506	516	HT001X02P	1.99	1.59	82.5	42	12.346	0.875
	1800	145T	439	513	523	HT001X04P	2.05	1.64	84.0	51	13.346	0.875
	1200	182T	566	650	656	HT001X06P	2.38	1.90	85.5	68	14.860	1.125
	900	184T	889	973	979	HT001X08P	2.71	2.17	77.0	110	15.860	1.125
2	3600	145T	451	525	535	HT002X02P	2.60	2.08	84.0	44	13.346	0.875
	1800	145T	457	531	541	HT002X04P	2.70	2.16	84.0	53	13.346	0.875
	1200	184T	622	706	712	HT002X06P	3.20	2.56	86.5	79	15.860	1.125
	900	213T	1,123	1,218	1,223	HT002X08P	3.46	2.77	82.5	141	18.021	1.375
3	3600	W182T	575	659	665	HT003X02PW	3.71	2.97	85.5	97	14.860	1.125
	3600	145T	575	649	659	HT003X02P145T	3.71	2.97	85.5	51	13.346	0.875
	1800	W182T	585	669	675	HT003X04PW	3.90	3.12	87.5	88	14.860	1.125
	1200	213T	812	907	912	HT003X06P	4.26	3.41	87.5	110	18.021	1.375
	900	215T	1,347	1,442	1,447	HT003X08P	4.33	3.46	84.0	159	19.517	1.375
5	3600	W184T	722	806	812	HT005X02PW	5.90	4.72	87.5	105	15.860	1.125
	1800	W184T	673	758	763	HT005X04PW	6.48	5.18	87.5	93	15.860	1.125
	1200	215T	1,075	1,170	1,175	HT005X06P	6.80	5.44	87.5	162	19.517	1.375
	900	254T	1,968	2,153	2,184	HT005X08P	7.99	6.39	85.5	232	23.213	1.625
7.5	3600	184T	772	856	862	HT007X02P184T	8.76	7.01	88.5	46	15.860	1.125
	3600	213T	908	1,003	1,008	HT007X02P	8.76	7.01	88.5	119	18.021	1.375
	1800	213T	908	1,003	1,008	HT007X04P	9.53	7.62	89.5	137	18.021	1.375
	1200	254T	1,524	1,709	1,740	HT007X06P	9.53	7.62	89.5	236	23.213	1.625
	900	256T	2,076	2,261	2,292	HT007X08P	11.2	8.96	86.5	276	24.945	1.625
10	3600	215T	1,090	1,185	1,190	HT010X02P	11.7	9.36	89.5	137	19.517	1.375
	1800	215T	1,044	1,139	1,144	HT010X04P	12.8	10.2	90.2	152	19.517	1.375
	1200	256T	1,804	1,989	2,020	HT010X06P	13.4	10.7	89.5	278	24.945	1.625
	900	284T	2,754	2,981	3,034	HT010X08P	13.6	10.9	88.5	373	26.433	1.875
15	3600	215T	1,213	1,308	1,313	HT015X02P215T	17.3	13.8	90.2	73	19.517	1.375
	3600	254T	1,516	1,701	1,732	HT015X02P	17.3	13.8	90.2	161	23.213	1.625
	1800	254T	1,570	1,755	1,786	HT015X04P	17.9	14.3	91.0	240	23.213	1.625
	1200	284T	2,552	2,779	2,832	HT015X06P	17.3	13.8	91.0	306	26.433	1.875
	900	286T	3,280	3,507	3,560	HT015X08P	19.0	15.2	89.5	423	27.929	1.875
20	3600	256T	1,858	2,043	2,074	HT020X02P	23.3	18.6	90.2	287	24.945	1.625
	1800	256T	1,886	2,071	2,102	HT020X04P	24.4	19.5	91.0	287	24.945	1.625
	1200	286T	2,894	3,121	3,174	HT020X06P	23.5	18.8	91.0	430	27.929	1.875
	900	324T	4,194	4,468	4,521	HT020X08P	28.0	22.4	89.5	512	29.620	2.125
25	3600	284TS	2,313	2,540	2,593	HT025X02P	29.0	23.2	91.0	313	25.061	1.625
	1800	284T	2,341	2,568	2,621	HT025X04P	29.6	23.7	92.4	397	26.433	1.875
	1200	324T	3,654	3,928	3,981	HT025X06P	29.8	23.8	91.7	527	29.620	2.125
	900	326T	4,716	4,990	5,043	HT025X08P	35.5	28.4	89.5	587	31.116	2.125
30	3600	286TS	2,712	2,939	2,992	HT030X02P	33.8	27.0	91.0	364	26.557	1.625
	1800	286T	2,648	2,875	2,928	HT030X04P	34.4	27.5	92.4	441	27.929	1.875
	1200	326T	4,079	4,353	4,406	HT030X06P	35.4	28.3	91.7	580	31.116	2.125
	900	364/5T	6,647	7,238	7,391	HT030X08P	38.4	30.7	89.5	882	33.709	2.375
40	3600	324TS	3,774	4,048	4,101	HT040X02P	46.1	36.9	91.7	516	28.120	1.875
	1800	324T	3,633	3,907	3,960	HT040X04P	47.6	38.1	93.0	542	29.620	2.125
	1200	364/5T	6,841	7,432	7,585	HT040X06P	47.1	37.7	93.0	882	33.709	2.375
	900	364/5T	7,623	8,214	8,367	HT040X08P	52.4	41.9	91.0	953	33.709	2.375
50	3600	326TS	4,412	4,686	4,739	HT050X02P	56.5	45.2	92.4	549	29.616	1.875
	1800	326T	4,137	4,411	4,464	HT050X04P	57.8	46.2	93.6	595	31.116	2.125
	1200	364/5T	6,949	7,540	7,693	HT050X06P	58.1	46.5	93.0	882	33.709	2.375
	900	404/5T	9,487	10,078	10,231	HT050X08P	64.9	51.9	91.7	1,169	38.077	2.875
60	3600	364/5TS	7,262	7,853	8,006	HT060X02P	69.0	55.2	93.0	807	31.583	1.875
	1800	364/5T	7,117	7,708	7,861	HT060X04P	67.0	53.6	93.6	853	33.709	2.375
	1200	404/5T	9,505	10,096	10,249	HT060X06P	70.1	56.1	93.6	1,067	38.077	2.875
	900	404/5T	11,386	11,977	12,130	HT060X08P	77.0	61.6	91.7	1,308	38.077	2.875
75	3600	364/5TS	8,418	9,009	9,162	HT075X02P	82.5	66.0	93.0	915	31.583	1.875
	1800	364/5T	8,028	8,619	8,772	HT075X04P	82.4	65.9	94.1	900	33.709	2.375
	1200	404/5T	10,290	10,881	11,034	HT075X06P	86.8	69.4	93.6	1,136	38.077	2.875
	900	444/5T	15,079	16,003	16,040	HT075X08P	89.4	71.5	93.0	1,484	43.776	3.375

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

W21 Severe Duty Motors - Cast Iron Frame - TEFC (IP55)
Purchasing Data

High Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
100	3600	404/5TS	$11,213	$1,804	$11,957	HT100X02P	113	90.4	93.6	1,206	35.077	2.125
	1800	404/5T	9,829	10,420	10,573	HT100X04P	115	92.0	94.5	1,118	38.077	2.875
	1200	444/5T	14,987	15,911	15,948	HT100X06P	121	96.8	94.1	1,544	43.776	3.375
	900	444/5T	17,718	18,642	18,679	HT100X08P	122	97.6	93.0	1,724	43.776	3.375
125	3600	444/5TS	16,697	17,621	17,658	HT125502P	131	105	94.5	1,625	40.026	2.375
	1800	444/5T	14,023	14,947	14,984	HT125X04P	138	110	94.5	1,471	43.776	3.375
	1200	444/5T	17,221	18,145	18,182	HT125X06P	141	113	94.1	1,874	43.776	3.375
	900	447T	22,731	23,655	23,692	HT125X08P447T	154	123	93.6	2,044	47.299	3.375
	900	504/5T	22,731	23,913	23,929	HT125X08P	145	116	93.6	2,044	49.449	3.625
150	3600	444/5TS	18,435	19,359	19,396	HT150X02P	160	128	94.5	1,689	40.026	2.375
	1800	444/5T	15,775	16,699	16,736	HT150X04P	168	134	95.0	1,665	43.776	3.375
	1200	447T	18,787	19,711	19,748	HT150X06P447T	171	137	95.0	1,969	47.299	3.375
	1200	504/5T	19,831	21,013	21,029	HT150X06P	171	137	95.0	1,969	49.449	3.625
	900	447T	27,532	28,456	28,493	HT150X08P447T	178	142	93.6	2,273	47.299	3.375
	900	504/5T	27,532	28,714	28,730	HT150X08P	178	142	93.6	2,273	49.449	3.625
200	3600	447TS	22,716	23,640	23,677	HT200X02P447T	223	178	95.0	1,874	43.549	2.375
	3600	504/5TS	22,716	23,898	23,914	HT200X02P	223	178	95.0	1,874	43.569	2.375
	1800	447T	20,243	21,167	21,204	HT200X04P447T	230	184	95.0	1,940	47.299	3.375
	1800	504/5T	20,243	21,425	21,441	HT200X04P	230	184	95.0	1,996	49.449	3.625
	1200	447T	24,023	24,947	24,984	HT200X06P447T	230	184	95.0	1,996	47.299	3.375
	1200	504/5T	25,358	26,540	26,556	HT200X06P	236	189	95.0	2,269	49.449	3.625
	900	449T	38,036	39,332	39,395	HT200X08P449T	236	189	95.0	2,269	54.976	3.375
	900	586/7T	40,535	42,921	43,100	HT200X08P	263	210	94.5	3,815	61.074	3.875
250	3600	447TS	23,716	24,640	24,677	HT250X02P447T	268	214	95.4	2,068	43.549	2.375
	3600	504/5TS	23,716	24,898	24,914	HT250X02P	268	214	95.4	2,068	43.569	2.375
	1800	447T	25,094	26,018	26,055	HT250X04P447T	283	226	95.4	2,315	47.299	3.375
	1800	504/5T	25,094	26,276	26,292	HT250X04P	283	226	95.4	2,315	49.449	3.625
	1200	449T	34,882	41,144	41,323	HT250X06P449T	305	244	95.0	3,605	54.976	3.375
	1200	586/7T	38,758	36,178	36,241	HT250X06P	305	244	95.0	3,605	61.074	3.875
	900	586/7T	41,609	43,995	44,174	HT250X08P	318	254	95.0	4,245	61.074	3.875
300	3600	5008TS	36,771	37,953	37,969	HT300X02PS	344	275	94.5	3,153	58.282	2.375
	3600	586/7TS	40,856	43,242	43,421	HT300X02P	325	260	95.4	2,977	54.199	2.375
	1800	5008T	33,821	38,782	38,961	HT300X04PS	343	274	95.0	2,677	65.157	3.875
	1800	449T	32,757	35,003	35,019	HT300X04P449T	333	266	95.4	2,682	54.976	3.375
	1800	586/7T	36,396	34,053	34,116	HT300X04P	329	263	95.4	1,915	61.074	3.875
	1200	5008T	38,329	39,511	39,527	HT300X06PS	334	267	95.1	3,343	65.157	3.875
	1200	586/7T	42,120	44,506	44,685	HT300X06P	355	284	95.0	4,090	61.074	3.875
	900	586/7T	56,441	58,827	59,006	HT300X08P	378	302	95.0	4,476	61.074	3.875
350	3600	5008TS	42,286	43,468	43,484	HT350X02PS	399	319	95.1	3,169	58.282	2.375
	3600	586/7TS	46,984	49,370	49,549	HT350X02P	384	307	95.4	3,208	54.199	2.375
	1800	5008T	35,874	41,809	41,988	HT350X04PS	394	315	95.3	2,930	65.157	3.875
	1800	449T	35,515	37,056	37,072	HT350X04P449T	393	314	95.4	3,175	54.976	3.375
	1800	586/7T	39,423	36,811	36,874	HT350X04PS	398	318	95.4	3,903	61.074	3.875
	1200	5008T	41,519	42,701	42,717	HT350X06PS	395	316	95.1	3,722	62.157	3.875
	1200	586/7T	47,181	49,567	49,746	HT350X06P	428	342	95.4	4,322	61.074	3.875
	900	586/7T	59,263	61,649	61,828	HT350X08P	440	352	95.0	4,631	61.074	3.875
400	3600	586/7TS	P.O.A.	P.O.A.	P.O.A.	HT400X02P	call	call	call	call	54.199	2.375
	1800	5008T	38,898	45,606	45,785	HT400X04PS	443	354	95.4	3,206	65.157	3.875
	1800	586/7T	45,225	40,080	40,096	HT400X04P	459	367	95.4	4,289	61.074	3.875
	1200	586/7T	54,872	53,668	53,847	HT400X06P	481	385	95.4	4,564	61.074	3.875
450	3600	586/7TS	P.O.A.	P.O.A.	P.O.A.	HT450X02P	call	call	call	call	54.199	2.375
	1800	5008T	41,607	47,661	47,790	HT450X04PS	493	394	95.6	3468	65.157	3.875
	1800	586/7T	45,225	42,789	42,805	HT450X04P	505	404	95.4	4,807	61.074	3.875
	1200	586/7T	54,872	57,258	57,437	HT450X06P	543	434	95.4	4,851	61.074	3.875
500	1800	586/7T	51,276	53,662	53,841	HT500X04P	564	451	95.8	5,027	61.074	3.875
	1200	586/7T	57,776	60,162	60,341	HT500X06P	668	534	95.3	4,840	61.074	3.875

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

W21 Severe Duty Motors - TEFC (IP55)
Electrical Data - High Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load								Hot	Cold		
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100						
		3495	143T	2.85	1.43	1.14	M	9.00	1.51	3.0	4.0	72.0	77.0	78.5	0.69	0.79	0.84	1.25	0.03726	23	51	40	68
1	0.75	1765	143T***	2.98	1.49	1.19	M	8.60	2.99	2.9	4.0	77.0	80.0	82.5	0.55	0.69	0.77	1.25	0.09302	16	35	44	51
		1155	145T	3.40	1.70	1.36	L	6.80	4.58	2.3	3.0	75.5	80.0	80.0	0.48	0.60	0.69	1.25	0.13289	22	48	44	49
		875	182T***	4.63	2.31	1.85	M	6.00	6.04	3.0	3.5	68.0	72.0	74.0	0.35	0.45	0.55	1.25	0.39914	40	88	95	50
		3500	143T	3.98	1.99	1.59	L	9.20	2.21	3.0	4.0	75.5	81.5	82.5	0.69	0.78	0.84	1.25	0.04295	19	42	42	68
1.5	1.1	1760	145T	4.10	2.05	1.64	L	8.50	4.40	2.7	3.7	80.0	84.0	84.0	0.60	0.72	0.80	1.25	0.11960	13	29	51	51
		1165	182T***	4.75	2.38	1.90	M	8.00	6.65	3.2	4.0	81.5	84.0	85.5	0.47	0.58	0.68	1.25	0.48798	36	79	68	52
		860	184T***	5.43	2.71	2.17	J	5.50	9.01	2.5	2.6	74.0	75.5	77.0	0.47	0.58	0.66	1.25	0.44363	32	70	110	50
		3480	145T	5.20	2.60	2.08	L	9.40	3.04	2.8	4.0	80.0	82.5	84.0	0.70	0.81	0.86	1.25	0.04886	12	26	44	68
2	1.5	1750	145T	5.40	2.70	2.16	K	7.70	6.04	2.4	3.0	81.5	84.0	84.0	0.63	0.74	0.83	1.25	0.13289	11	24	53	51
		1165	184T***	6.40	3.20	2.56	L	7.50	9.07	3.0	3.0	84.0	86.5	86.5	0.48	0.60	0.68	1.25	0.62109	35	77	79	52
		870	213T***	6.93	3.46	2.77	L	6.60	12.2	2.4	2.9	78.5	81.5	82.5	0.47	0.53	0.66	1.25	1.19089	43	95	141	52
		3500	182T	7.43	3.71	2.97	K	8.20	4.43	2.5	4.0	80.0	84.0	85.5	0.74	0.83	0.87	1.25	0.17252	23	51	97	69
3	2.2	1765	182T	7.80	3.90	3.12	K	7.90	8.78	2.3	3.2	85.5	87.5	87.5	0.65	0.75	0.81	1.25	0.31782	31	68	88	58
		1170	213T	8.53	4.26	3.41	J	7.00	13.3	2.2	2.5	86.5	87.5	87.5	0.53	0.65	0.74	1.25	1.01185	59	130	110	55
		865	215T	8.65	4.33	3.46	K	7.10	17.9	2.0	2.1	82.5	84.0	84.0	0.59	0.70	0.76	1.25	2.02441	30	66	159	52
		3480	184T	11.8	5.90	4.72	J	7.70	7.49	2.3	3.3	84.0	86.5	87.5	0.80	0.86	0.90	1.25	0.19988	23	51	105	69
5	3.7	1750	184T	13.0	6.48	5.18	H	6.80	14.9	2.1	3.0	85.5	87.5	87.5	0.66	0.77	0.82	1.25	0.38134	21	46	93	58
		1160	215T	13.6	6.80	5.44	H	6.10	22.5	1.8	2.1	86.5	87.5	87.5	0.65	0.75	0.78	1.25	1.47174	49	108	162	55
		875	254T	16.0	7.99	6.39	H	5.30	29.8	2.0	2.8	82.1	85.0	85.5	0.47	0.60	0.68	1.25	2.89720	37	81	232	54
		3515	213T	17.3	8.66	6.93	H	7.10	11.0	2.2	3.5	85.5	87.5	88.5	0.80	0.87	0.90	1.25	0.48789	26	57	137	72
		3460	184T**	17.5	8.76	7.01	H	7.00	11.2	2.2	2.3	85.5	87.5	88.5	0.81	0.87	0.89	1.15	0.23611	15	33	119	69
7.5	5.5	1765	213T	19.1	9.53	7.62	H	6.40	22.0	2.0	2.6	87.5	89.5	89.5	0.64	0.75	0.81	1.25	1.01185	21	46	137	61
		1170	254T	19.1	9.53	7.62	H	6.80	33.1	2.3	3.1	88.5	89.5	89.5	0.62	0.74	0.81	1.25	2.55643	29	64	236	59
		875	256T***	22.5	11.2	8.99	G	5.20	44.3	1.9	2.7	83.4	85.9	86.5	0.51	0.63	0.71	1.25	3.40858	41	90	276	54
		3500	215T	23.4	11.7	9.35	H	6.90	15.1	2.2	2.8	88.5	89.5	89.5	0.81	0.88	0.90	1.25	0.57664	20	44	137	72
10	7.5	1760	215T	25.5	12.8	10.2	H	6.50	30.0	2.0	2.6	88.5	90.2	90.2	0.67	0.78	0.82	1.25	1.37990	17	37	152	61
		1175	256T***	26.8	13.4	10.7	J	6.90	45.0	2.3	2.9	88.5	89.5	89.5	0.58	0.72	0.79	1.25	2.89729	22	48	278	59
		885	284T***	27.3	13.6	10.9	H	6.00	59.7	2.5	2.4	86.5	88.5	88.5	0.60	0.72	0.78	1.25	7.19897	53	117	373	54
		3520	254T	34.0	17.0	13.6	G	6.30	22.0	2.0	2.7	89.5	90.2	90.2	0.85	0.89	0.90	1.25	1.25653	28	62	254	75
		3500	215T**	34.5	17.3	13.8	F	6.10	22.1	2.0	2.2	89.0	90.2	90.2	0.80	0.87	0.89	1.15	0.66539	10	22	161	72
15	11	1760	254T***	35.8	17.9	14.3	G	6.40	44.0	2.5	2.5	89.5	91.0	91.0	0.70	0.80	0.85	1.25	2.38178	27	59	240	66
		1180	284T***	34.5	17.3	13.8	G	6.70	65.7	2.3	2.5	89.5	90.2	91.0	0.79	0.85	0.88	1.25	7.19918	21	46	306	59
		880	286T***	38.0	19.0	15.2	G	6.10	88.1	2.4	2.3	86.5	88.5	88.5	0.68	0.78	0.82	1.25	8.18089	37	81	423	54
		3520	256T	46.5	23.3	18.6	G	6.20	30.0	2.0	2.5	89.5	90.2	90.2	0.86	0.90	0.90	1.25	1.53576	21	46	287	75
20	15	1755	256T***	48.8	24.4	19.5	G	5.90	60.2	2.4	2.4	89.5	91.0	91.0	0.72	0.81	0.85	1.25	2.85804	18	40	287	66
		1175	286T***	47.0	23.5	18.8	G	6.30	90.0	2.3	2.5	90.2	91.0	91.0	0.80	0.86	0.88	1.25	8.18089	31	68	430	59
		880	324T***	56.0	28.0	22.4	G	5.30	120	2.2	2.2	87.5	89.5	89.5	0.56	0.68	0.75	1.25	9.79052	47	103	512	56
		3525	284TS	58.0	29.0	23.2	G	6.20	37.0	2.0	2.5	90.2	91.0	91.0	0.84	0.87	0.88	1.25	2.28947	23	51	313	75
25	18.5	1760	284T***	59.3	29.6	23.7	G	6.10	74.1	2.2	2.5	91.7	92.4	92.4	0.72	0.82	0.85	1.25	5.10836	51	112	397	68
		1175	324T***	59.5	29.8	23.8	F	5.90	111	2.2	2.4	89.5	91.7	91.7	0.72	0.81	0.85	1.25	10.2163	56	123	527	62
		880	326T***	71.0	35.5	28.4	G	5.10	148	2.4	2.4	87.5	88.5	89.5	0.53	0.65	0.73	1.25	11.9189	52	114	587	56
		3520	286TS	67.5	33.8	27.0	G	6.40	44.0	1.9	2.3	90.2	91.0	91.0	0.84	0.88	0.90	1.25	2.82838	19	42	364	75
30	22	1755	286T***	68.8	34.4	27.5	G	6.30	88.3	2.4	2.6	92.4	93.0	92.4	0.75	0.83	0.87	1.25	5.32122	22	48	441	68
		1175	326T***	70.8	35.4	28.3	G	6.10	132	2.3	2.5	90.2	91.7	91.7	0.70	0.80	0.85	1.25	11.9189	35	77	580	62
		885	364/5T***	76.8	38.4	30.7	G	5.70	175	2.2	2.2	89.5	91.0	91.0	0.66	0.75	0.79	1.25	23.4554	48	106	882	60
		3550	324TS	92.3	46.1	36.9	G	6.40	59.6	2.3	2.4	91.0	91.7	91.7	0.84	0.88	0.89	1.25	4.89550	36	79	516	79
40	30	1770	324T***	95.3	47.6	38.1	G	6.00	119	2.3	2.3	91.7	93.0	93.0	0.76	0.83	0.85	1.25	7.85344	28	62	542	71
		1175	364/5T***	94.3	47.1	37.7	G	6.30	180	2.3	2.3	92.4	93.0	93.0	0.76	0.83	0.86	1.25	23.4554	35	77	882	65
		885	364/5T***	105	52.4	41.9	G	5.60	239	2.2	2.2	89.5	91.0	91.0	0.66	0.75	0.79	1.25	29.0401	42	92	953	60
		3555	326TS	113	56.5	45.2	G	6.50	73.4	2.3	2.3	91.0	92.4	92.4	0.83	0.88	0.89	1.25	5.32131	33	73	549	79
50	37	1770	326T***	116	57.8	46.2	G	6.10	147	2.3	2.3	92.4	93.6	93.6	0.77	0.83	0.86	1.25	9.16260	25	55	595	71
		1180	364/5T***	116	58.1	46.5	G	6.30	221	2.5	2.7	92.4	93.0	93.0	0.74	0.82	0.86	1.25	29.0401	39	86	882	65
		885	404/5T***	130	64.9	51.9	G	5.60	295	2.2	2.1	90.2	91.7	91.7	0.69	0.75	0.78	1.25	34.6247	27	59	1169	60
		3555	364/5TS	138	69.0	55.2	G	6.30	89.2	2.0	2.5	91.0	92.4	93.0	0.80	0.87	0.88	1.25	8.51337	61	134	807	83
60	45	1775	364/5T***	134	67.0	53.6	G	6.40	179	2.0	2.3	93.0	93.6	93.6	0.80	0.87	0.90	1.25	17.4382	23	51	853	75
		1180	404/5T***	140	70.1	56.1	G	6.30	269	2.5	2.7	93.0	93.6	93.6	0.74	0.83	0.86	1.25	34.6247	32	70	1067	65
		885	404/5T	154	77.0	61.6	G	5.80	358	1.7	2.1	91.0	91.7	91.7	0.70	0.76	0.80	1.25	36.8586	13	29	1308	60

* ΔT 105K.
** Reduced frame
*** NEMA Design C

W21 Severe Duty Motors - TEFC (IP55)
Electrical Data - High Efficiency

Rated Output		Full Load Speed	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW	(RPM)		230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		3550	364/5TS	165	82.5	66.0	G	6.50	109	2.0	2.6	91.7	93.0	93.0	0.83	0.89	0.90	1.25	10.6420	46	101	915	83
75	55	1775	364/5T***	165	82.4	65.9	G	6.50	218	2.2	2.4	93.6	94.1	94.1	0.82	0.87	0.89	1.25	19.9295	22	48	900	75
		1175	404/5T***	174	86.8	69.4	G	6.30	330	2.5	2.6	93.0	93.6	93.6	0.72	0.81	0.85	1.25	36.8584	23	51	1136	65
		890	444/5T	179	89.4	71.5	G	6.10	436	1.7	2.1	91.7	92.4	93.0	0.73	0.80	0.83	1.25	73.6255	41	90	1484	63
		3550	404/5TS	226	113	90.4	G	6.40	149	2.0	2.4	91.7	93.6	93.6	0.84	0.88	0.89	1.25	11.9190	38	84	1206	84
100	75	1775	404/5T***	229	115	91.6	G	6.30	298	2.1	2.2	93.6	94.5	94.5	0.80	0.86	0.87	1.25	27.4029	18	40	1118	75
		1185	444/5T***	241	121	96.4	G	6.00	446	2.2	2.6	93.0	94.1	94.1	0.70	0.80	0.83	1.25	73.6254	48	106	1544	70
		890	444/5T	244	122	97.6	G	6.10	594	1.7	2.0	92.4	93.0	93.0	0.73	0.80	0.83	1.25	87.2598	29	64	1724	63
		3560	444/5TS	263	131	105	F	6.60	178	2.0	2.5	92.4	94.1	94.5	0.84	0.90	0.91	1.15	27.9231	72	158	1625	84
		1780	444/5T***	275	138	110	G	6.40	356	2.0	2.2	93.6	94.5	94.5	0.77	0.84	0.87	1.15	45.7301	35	77	1471	79
125	90	1185	444/5T***	283	141	113	G	6.30	535	2.1	2.3	93.6	94.1	94.1	0.74	0.80	0.85	1.15	87.2597	40	88	1874	70
		890	447T	290	145	116	G	6.10	713	1.7	2.0	93.0	93.6	93.6	0.73	0.80	0.83	1.15	103.6210	30	66	2044	66
		890	504/5T	290	145	116	G	6.10	713	1.7	2.0	93.0	93.6	93.6	0.73	0.80	0.83	1.15	103.6210	30	66	2044	66
		3575	444/5TS	320	160	128	G	6.70	217	2.0	2.5	93.0	94.1	94.5	0.83	0.88	0.91	1.15	33.5077	45	99	1689	84
		1780	444/5T***	335	168	134	G	6.40	436	2.2	2.3	94.1	95.0	95.0	0.81	0.86	0.87	1.15	57.1627	33	73	1665	79
150	110	1185	447T***	343	171	137	G	6.30	654	2.2	2.2	94.5	95.0	95.0	0.74	0.82	0.85	1.15	103.6210	40	88	1969	73
		1185	504/5T***	343	171	137	G	6.30	654	2.2	2.2	94.5	95.0	95.0	0.74	0.82	0.85	1.15	109.0747	40	88	1969	73
		890	447T	355	178	142	G	6.00	871	1.7	2.0	93.0	93.6	93.6	0.72	0.80	0.83	1.15	125.4360	18	40	2273	66
		890	504/5T	355	178	142	G	6.00	871	1.7	2.0	93.0	93.6	93.6	0.72	0.80	0.83	1.15	125.4360	18	40	2273	66
		3575	447TS	445	223	178	G	6.50	296	1.7	2.5	94.1	94.5	95.0	0.85	0.88	0.89	1.15	44.6770	74	163	1874	87
		3575	504/5TS	445	223	178	G	6.50	296	1.7	2.5	94.1	94.5	95.0	0.85	0.88	0.89	1.15	44.6770	74	163	1874	87
		1780	444/5T**	460	230	184	G	6.40	594	2.3	2.4	94.1	95.0	95.0	0.80	0.84	0.86	1.15	70.5006	23	51	1940	82
		1780	447T***	460	230	184	G	6.40	594	2.3	2.4	94.1	95.0	95.0	0.80	0.84	0.86	1.15	70.5008	23	51	1996	82
200	150	1780	504/5T***	460	230	184	G	6.40	594	2.3	2.4	94.1	95.0	95.0	0.80	0.84	0.86	1.15	70.5008	23	51	1996	82
		1185	447T***	473	236	189	G	6.10	892	2.2	2.3	94.5	95.0	95.0	0.73	0.80	0.84	1.15	133.6165	32	70	2269	73
		1185	504/5T***	473	236	189	G	6.10	892	2.2	2.3	94.5	95.0	95.0	0.73	0.80	0.84	1.15	133.6165	32	70	2269	73
		890	586/7T	525	263	210	G	5.70	1188	1.0	2.1	93.6	94.1	94.5	0.60	0.71	0.76	1.00	350.2194	65	143	3815	75
		890	449T		265		F	7.00	1164	2.2	2.5	93.0	94.1	94.5	0.56	0.68	0.75	1.15	160.8900	16	35	3409	66
		3570	447TS	535	268	214	G	6.60	365	2.0	2.5	93.6	95.4	95.4	0.88	0.90	0.91	1.15	51.3786	34	75	2068	87
		3570	504/5TS	535	268	214	G	6.60	365	2.0	2.5	93.6	95.4	95.4	0.88	0.90	0.91	1.15	51.3786	34	75	2068	87
		1780	447T	565	283	226	G	6.50	732	2.1	2.3	94.5	95.0	95.4	0.81	0.85	0.86	1.15	89.5550	22	48	2315	82
250	185	1780	504/5T	565	283	226	G	6.50	732	2.1	2.3	94.5	95.0	95.4	0.81	0.85	0.86	1.15	89.5550	22	48	2315	82
		1190	5008T	560	280	224	G	6.50	1096	1.7	2.4	94.7	95.3	95.1	0.73	0.82	0.86	1.15	190.5571	15	33	2977	77
		1190	586/7T	610	305	244	G	6.00	1096	1.8	2.1	93.0	94.1	95.0	0.68	0.76	0.80	1.15	226.1773	74	163	3605	77
		1185	449T		298		F	6.70	1093	2.5	2.6	94.5	95.0	95.0	0.68	0.78	0.82	1.15	152.7000	15	33	2977	70
		890	586/7T	635	318	254	G	5.80	1465	1.0	2.1	93.6	94.1	95.0	0.60	0.71	0.77	1.15	387.4767	26	57	4245	75
		3570	5008TS	688	344	275	F	5.80	434	1.8	2.5	92.3	94.0	94.5	0.77	0.84	0.85	1.15	62.3031	32	70	3153	96
		3570	586/7TS	650	325	260	G	6.60	434	1.1	2.0	94.1	95.0	95.4	0.87	0.88	0.89	1.15	122.7091	34	75	2977	96
		3575	449TS			258	F	8.40	435	2.8	3.4	94.5	95.4	95.4	0.82	0.88	0.90	1.15	58.0800	15	33	2646	84
		1790	586/7T	658	329	263	G	6.60	866	2.0	2.3	95.0	95.4	95.4	0.84	0.87	0.88	1.15	176.9459	56	123	3440	83
300	220	1785	449T			266	F	7.30	871	2.9	2.7	94.0	95.0	95.4	0.78	0.84	0.87	1.15	104.8000	18	40	2682	80
		1785	5008T	685	343	274	G	6.40	869	2.0	3.0	93.5	94.7	95.0	0.73	0.81	0.85	1.15	95.4404	25	55	2677	82
		1190	5008T	668	334	267	G	6.50	1303	1.6	2.1	95.3	95.5	95.1	0.78	0.84	0.87	1.15	216.7586	15	33	3343	77
		1190	586/7T	710	355	284	G	6.10	1303	1.8	2.0	93.6	94.5	95.0	0.72	0.80	0.82	1.15	277.0674	70	154	4090	77
		890	586/7T	755	378	302	G	5.90	1742	1.0	2.0	93.6	94.1	95.0	0.60	0.62	0.77	1.15	461.9914	24	53	4476	75
		3570	5008TS	798	399	319	F	5.60	513	1.8	2.5	93.4	94.8	95.1	0.79	0.85	0.86	1.15	71.2019	61	134	3169	96
		3570	586/7TS	768	384	307	G	6.60	513	1.0	2.0	94.1	95.0	95.4	0.87	0.88	0.89	1.15	136.3435	35	77	3208	96
		3575	449TS			304	F	8.70	507	2.8	3.4	95.0	95.4	95.4	0.82	0.88	0.90	1.15	68.1320	14	31	3169	84
		1790	586/7T	795	398	318	G	6.60	1024	1.8	2.1	94.5	95.0	95.4	0.81	0.85	0.86	1.15	185.7932	38	84	3903	83
350	260	1780	449T			314	F	7.20	1019	2.6	2.6	95.0	95.4	95.4	0.79	0.85	0.87	1.15	118.1400	22	48	3175	80
		1785	5008T	788	394	315	F	6.00	1027	2.0	2.8	94.3	95.2	95.3	0.77	0.84	0.87	1.15	109.0747	21	46	2930	82
		1190	5008T	790	395	316	G	6.50	1540	1.6	2.0	95.7	95.7	95.1	0.80	0.86	0.87	1.15	247.7241	15	33	3722	77
		1190	586/7T	855	428	342	G	6.20	1540	1.8	2.0	93.0	94.1	95.4	0.70	0.77	0.80	1.15	327.9573	73	161	4322	77
		890	586/7T*	880	440	352	G	5.90	2059	1.1	2.0	93.6	94.1	95.0	0.60	0.64	0.78	1.00	484.3459	25	55	4631	75
		1790	586/7T	918	459	367	G	6.40	1181	1.8	2.0	94.5	95.0	95.4	0.81	0.85	0.86	1.15	199.0641	34	75	4289	83
400	300	1785	5008T	885	443	354	F	5.90	1184	2.0	2.7	94.7	95.4	95.4	0.79	0.85	0.88	1.15	125.8556	22	48	3206	82
		1190	586/7T	963	481	385	G	6.00	1777	2.0	2.0	95.0	95.4	95.4	0.70	0.78	0.82	1.15	367.5383	71	156	4564	77
		1790	586/7T*	1010	505	404	G	6.50	1299	1.8	2.0	94.5	95.0	95.4	0.81	0.85	0.86	1.00	221.1824	32	70	4807	83
450	330	1785	5008T	985	493	394	F	6.00	1303	2.0	2.7	95.0	95.6	95.6	0.80	0.86	0.88	1.10	136.3433	22	48	3468	82
		1190	586/7T*	1085	543	434	G	6.00	1954	1.5	2.1	93.0	94.1	95.4	0.70	0.78	0.80	1.00	367.5384	34	75	4851	77
500	370	1790	586/7T*	1128	564	451	G	6.40	1457	1.8	2.1	94.5	95.4	95.8	0.82	0.85	0.86	1.00	265.4189	35	77	5027	83

* ΔT 105K.
** Reduced frame
*** NEMA Design C

W21 Motors - High Efficiency - Aluminum Frame - TEFC (IP55)
Purchasing Data

Standard Features

- Same as W21 Cast Iron motors (see page 4)

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

APPROVED BY

APPROVED BY LR 38324 LR 50962

CSA E EEV 78282

Inverter Duty

- Inverter Duty Certified for 12:1 CT & 1000:1 VT *
- Inverter Duty Certified for 100:1 CT with a WEG VFD running in Optimized Flux mode
- Inverter Duty CSA certified for Division 2, Class I, Groups B, C & D and Division 2, Class 2, Group F **

** Modification required. Pricing available on request.

High Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					460V	575V			
1	1800	143T	$395	$469	HT000X04AL	1.49	1.19	82.5	39	12.346
	1200	145T	480	554	HT000X06AL	1.70	1.36	80.0	39	13.346
	900	182T	819	903	HT000X08AL	2.31	1.85	74.0	90	14.860
1.5	3600	143T	432	506	HT001X02AL	1.99	1.59	82.5	37	12.346
	1800	145T	439	513	HT001X04AL	2.05	1.64	84.0	46	13.346
	1200	182T	566	650	HT001X06AL	2.38	1.90	85.5	63	14.860
	900	184T	889	973	HT001X08AL	2.71	2.17	77.0	105	15.860
2	3600	145T	451	525	HT002X02AL	2.60	2.08	84.0	39	13.346
	1800	145T	457	531	HT002X04AL	2.70	2.16	84.0	48	13.346
	1200	184T	622	706	HT002X06AL	3.20	2.56	86.5	74	15.860
	900	213T	1123	1218	HT002X08AL	3.46	2.77	82.5	136	18.021
3	3600	182T	575	659	HT003X02AL	3.71	2.97	85.5	92	14.860
	3600	145T	575	649	HT003X02AL145T	3.71	2.97	85.5	46	13.346
	1800	182T	585	669	HT003X04AL	3.90	3.12	87.5	83	14.860
	1200	213T	812	907	HT003X06AL	4.26	3.41	87.5	105	18.021
	900	215T	1347	1442	HT003X08AL	4.33	3.46	84.0	154	19.517
5	3600	184T	722	806	HT005X02AL	5.90	4.72	87.5	100	15.860
	1800	184T	673	758	HT005X04AL	6.48	5.18	87.5	88	15.860
	1200	215T	1075	1170	HT005X06AL	6.80	5.44	87.5	157	19.517
7.5	3600	213T	772	856	HT007X02AL	8.76	7.01	88.5	132	18.021
	1800	213T	908	1003	HT007X04AL	9.53	7.62	89.5	132	18.021
10	3600	215T	1090	1185	HT010X02AL	11.7	9.36	89.5	132	19.517
	1800	215T	1044	1139	HT010X04AL	12.8	10.2	90.2	147	19.517

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Electrical Data on request
Mechanical Data on request

W21 Severe Duty Motors - NEMA Premium Efficiency - TEFC (IP55)
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan) - CSA C390
- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 2, 4, 6 and 8 pole, 60 & 50 Hz
- Voltage: 208-230/460V, 460V or 575V
- Dual nameplated for 50Hz & 60Hz up to 30HP. For 40HP and up please contact your sales office
- Totally Enclosed Fan Cooled - TEFC (IP55)
- V-ring slingers on both endshields (586/7T frame equipped with labyrinth tachonite seal as standard)
- Squirrel cage rotor / Aluminum die cast
- Ball bearings
- 1045 heat treated and stress relieved carbon steel shaft up to 365T
- 4140 for frame 404T and up
- NEMA dimensions
- Space heaters standard on 586/7T frames
- Class 'F' insulation.
- Temperature rise: Class 'B' (80°C)
- NEMA design 'B' electrical characteristics
- Service Factor: 1.25 up to 100HP. 1.15 from 125HP and up
- Continuous duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- NPT threaded terminal box conduit hole
- F1 mounted T-Box. F2 field mountable
- Stainless steel nameplate AISI 316 with laser etching
- Color: RAL 5009 (Blue) - WEG paint plan: 201A
- Paint: Synthetic alkyd resin base (exceeds ASTM B117 salt spray test)
- Automatic drain plugs - pressure compensated
- Regreasable bearings, positive pressure lubrication system (frames 254T and up)
- Continuous Flow Resin Impregnation class 'H' resin
- Double gasketed conduit box

Optional Features

- Special Voltages
- Specially designed shaft
- Space heaters
- Labyrinth tachonite seal available for all ratings
- Thermistors, Thermostats or RTD's (PT100)
- Auxiliary terminal box
- Drip cover (canopy) for shaft down applications
- Cable glands
- 'C' and 'D' flanges for all ratings
- Roller bearings
- Special epoxy painting
- F3 mounting. Terminal Box on top of motor
- VFD range can be extended with forced ventilation kit (Not for Division 2)

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- Inverter Duty Certified for 20:1 CT & 1000:1 VT *
- Inverter Duty Certified for 1000:1 CT with a WEG VFD running in Optimized Flux mode
- Inverter Duty CSA certified for Division 2, Class I, Groups B, C & D and Division 2, Class 2, Group F **

* 449T and 586/7T frame sizes not included. Other speed ranges available. Call for specific ratings

** Modification required. Pricing available on request.

APPROVED BY

APPROVED BY LR 38324 LR 50962

CSA E EEV 78282

NEMA Premium™

NEMA Premium Efficiency Motors - TEFC (IP55)
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	3600	143T	$491	$565	$575	HT000X02NP	1.41	1.13	81.5	40	12.346	0.875
	1800	143T	474	548	558	HT000X04NP	1.43	1.14	85.5	51	12.346	0.875
	1200	145T	576	650	660	HT000X06NP	1.73	1.38	82.5	53	13.346	0.875
	900	182T	983	1,067	1,073	HT000X08NP	2.30	1.84	78.5	95	14.860	1.125
1.5	3600	143T	518	592	602	HT001X02NP	1.98	1.58	84.0	42	12.346	0.875
	1800	145T	527	601	611	HT001X04NP	2.00	1.60	86.5	53	13.346	0.875
	1200	182T	679	763	769	HT001X06NP	2.39	1.91	87.5	70	14.860	1.125
	900	184T	1,067	1,151	1,157	HT001X08NP	2.70	2.16	82.5	111	15.860	1.125
2	3600	145T	541	615	625	HT002X02NP	2.65	2.12	85.5	49	13.346	0.875
	1800	145T	548	622	632	HT002X04NP	2.63	2.10	86.5	55	13.346	0.875
	1200	184T	746	830	836	HT002X06NP	3.23	2.58	88.5	88	15.860	1.125
	900	213T	1,348	1,443	1,448	HT002X08NP	3.39	2.71	85.5	149	18.021	1.375
3	3600	182T	690	774	780	HT003X02NP	3.68	2.94	87.5	90	13.346	1.125
	1800	182T	702	786	792	HT003X04NP	3.90	3.12	89.5	90	14.860	1.125
	1200	213T	974	1,069	1,074	HT003X06NP	4.41	3.53	89.5	121	18.021	1.375
	900	215T	1,616	1,711	1,716	HT003X08NP	4.33	3.46	84.0	153	19.517	1.375
5	3600	184T	866	950	956	HT005X02NP	5.83	4.66	89.5	105	15.860	1.125
	1800	184T	808	892	898	HT005X04NP	6.40	5.12	89.5	99	15.860	1.125
	1200	215T	1,290	1,385	1,390	HT005X06NP	6.83	5.46	89.5	162	19.517	1.375
	900	254T	2,362	2,547	2,578	HT005X08NP	8.00	6.40	86.6	218	23.213	1.625
7.5	3600	213T	926	1,021	1,026	HT007X02NP	8.63	6.90	91.0	121	18.021	1.375
	1800	213T	1,090	1,185	1,190	HT007X04NP	9.29	7.43	91.7	152	18.021	1.375
	1200	254T	1,829	2,014	2,045	HT007X06NP	9.73	7.78	91.0	256	23.213	1.625
	900	256T	2,491	2,676	2,707	HT007X08NP	11.7	9.35	86.9	276	24.945	1.625
10	3600	215T	1,308	1,403	1,408	HT010X02NP	11.5	9.23	91.7	160	19.517	1.375
	1800	215T	1,253	1,348	1,353	HT010X04NP	12.6	10.1	91.7	159	19.517	1.375
	1200	256T	2,165	2,350	2,381	HT010X06NP	13.3	10.6	91.0	290	24.945	1.625
	900	284T	3,305	3,532	3,585	HT010X08NP	13.6	10.9	91.0	373	26.433	1.875
15	3600	254T	1,819	2,004	2,035	HT015X02NP	16.9	13.5	91.7	254	23.213	1.625
	1800	254T	1,884	2,069	2,100	HT015X04NP	18.0	14.4	92.4	265	23.213	1.625
	1200	284T	3,062	3,289	3,342	HT015X06NP	17.3	13.8	91.7	320	26.433	1.875
	900	286T	3,936	4,163	4,216	HT015X08NP	19.0	15.2	91.0	423	27.929	1.875
20	3600	256T	2,230	2,415	2,446	HT020X02NP	22.9	18.3	92.4	287	24.945	1.625
	1800	256T	2,263	2,448	2,479	HT020X04NP	24.4	19.5	93.0	298	24.945	1.625
	1200	286T	3,473	3,700	3,753	HT020X06NP	24.1	19.3	91.7	463	27.929	1.875
	900	324T	5,033	5,307	5,360	HT020X08NP	27.5	22.0	92.4	512	29.620	2.125
25	3600	284TS	2,776	3,003	3,056	HT025X02NP	28.4	22.7	93.0	313	25.061	1.625
	1800	284T	2,809	3,036	3,089	HT025X04NP	29.5	23.6	93.6	441	26.433	1.875
	1200	324T	4,385	4,659	4,712	HT025X06NP	30.5	24.4	93.0	560	29.620	2.125
	900	326T	5,659	5,933	5,986	HT025X08NP	35.4	28.3	92.4	587	31.116	2.125
30	3600	286TS	3,254	3,481	3,534	HT030X02NP	33.4	26.7	93.0	388	26.557	1.625
	1800	286T	3,178	3,405	3,458	HT030X04NP	35.1	28.1	93.6	485	27.929	1.875
	1200	326T	4,895	5,169	5,222	HT030X06NP	35.8	28.6	93.0	628	31.116	2.125
	900	364/5T	7,976	8,567	8,720	HT030X08NP	38.5	30.8	93.0	882	33.709	2.375
40	3600	324TS	4,529	4,803	4,856	HT040X02NP	45.8	36.6	93.6	516	28.120	1.875
	1800	324T	4,360	4,634	4,687	HT040X04NP	48.3	38.6	94.1	595	29.620	2.125
	1200	364/5T	8,209	8,800	8,953	HT040X06NP	47.1	37.7	94.1	966	33.709	2.375
	900	364/5T	9,148	9,739	9,892	HT040X08NP	52.3	41.8	93.6	953	33.709	2.375
50	3600	326TS	5,294	5,568	5,621	HT050X02NP	55.5	44.4	94.1	562	29.616	1.875
	1800	326T	4,964	5,238	5,291	HT050X04NP	60.6	48.5	94.5	617	31.116	2.125
	1200	364/5T	8,339	8,930	9,083	HT050X06NP	58.0	46.4	94.1	1,017	33.709	2.375
	900	404/5T	11,384	11,975	12,128	HT050X08NP	68.0	54.4	93.6	1,140	38.077	2.875
60	3600	364/5TS	8,714	9,305	9,458	HT060X02NP	68.3	54.6	94.1	882	31.583	1.875
	1800	364/5T	8,540	9,131	9,284	HT060X04NP	68.4	54.7	95.0	926	33.709	2.375
	1200	404/5T	11,406	11,997	12,150	HT060X06NP	70.4	56.3	94.5	1,191	38.077	2.875
	900	404/5T	13,663	14,254	14,407	HT060X08NP	76.9	61.5	93.0	1,323	38.077	2.875
75	3600	364/5TS	10,102	10,693	10,846	HT075X02NP	80.8	64.6	95.0	915	31.583	1.875
	1800	364/5T	9,634	10,225	10,378	HT075X04NP	82.3	65.8	95.4	937	33.709	2.375
	1200	404/5T	12,348	12,939	13,092	HT075X06NP	87.0	69.6	94.5	1,323	38.077	2.875
	900	444/5T	18,095	19,019	19,056	HT075X08NP	90.0	72.0	93.6	1,484	43.776	3.375
100	3600	404/5TS	13,456	14,047	14,200	HT100X02NP	110	88.1	95.0	1,206	35.077	2.125
	1800	404/5T	11,795	12,386	12,539	HT100X04NP	112	89.7	95.4	1,147	38.077	2.875
	1200	444/5T	17,984	18,908	18,945	HT100X06NP	121	96.7	95.0	1,830	43.776	3.375
	900	444/5T	21,262	22,186	22,223	HT100X08NP	122	97.6	94.1	1,724	43.776	3.375

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

NEMA Premium Efficiency Motors - TEFC (IP55)
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
125	3600	444/5TS	$19,202	$20,126	$20,163	HT125502NP	133	106	95.0	1,618	40.026	2.375
	1800	444/5T	16,126	17,050	17,087	HT125X04NP	138	110	95.4	1,665	43.776	3.375
	1200	444/5T	19,804	20,728	20,765	HT125X06NP	145	116	95.0	1,918	43.776	3.375
	900	447T	26,141	27,065	27,102	HT125X08NP447T	146	117	94.5	2,044	47.299	3.375
	900	504/5T	26,141	27,323	27,339	HT125X08NP	146	117	94.5	2,044	49.449	3.625
150	3600	444/5TS	21,200	22,124	22,161	HT150X02NP	161	129	95.4	1,689	40.026	2.375
	1800	444/5T	18,141	19,065	19,102	HT150X04NP	170	136	95.8	1,764	43.776	3.375
	1200	447T	21,605	22,529	22,566	HT150X06NP447T	174	139	95.8	2,540	47.299	3.375
	1200	504/5T	22,806	23,988	24,004	HT150X06NP	174	139	95.8	2,540	49.449	3.625
	900	447T	31,662	32,586	32,623	HT150X08NP447T	179	143	94.5	2,273	47.299	3.375
	900	504/5T	31,662	32,844	32,860	HT150X08NP	179	143	94.5	2,273	49.449	3.625
200	3600	447TS	26,123	27,047	27,084	HT200X02NP447TS	221	177	95.8	1,874	43.549	2.375
	3600	504/5TS	26,123	27,305	27,321	HT200X02NP	221	177	95.8	1,874	43.569	2.375
	1800	447T	23,279	24,203	24,240	HT200X04NP447T	230	184	96.2	2,018	47.299	3.375
	1800	504/5T	23,279	24,461	24,477	HT200X04NP	230	184	96.2	2,018	49.449	3.625
	1200	447T	27,626	28,550	28,587	HT200X06NP447T	255	204	95.8	2,615	47.299	3.375
	1200	504/5T	29,162	30,344	30,360	HT200X06NP	255	204	95.8	2,615	49.449	3.625
	900	586/7T	46,615	49,001	49,180	HT200X08NP	261	209	95.0	3,815	61.074	3.875
250	3600	447TS	27,273	28,197	28,234	HT250X02NP447TS	269	215	95.8	2,068	43.549	2.375
	3600	504/5TS	27,273	28,455	28,471	HT250X02NP	269	215	95.8	2,068	43.569	2.375
	1800	504/5T	28,858	30,040	30,056	HT250X04NP	284	227	96.2	2,216	49.449	3.625
	1200	449T	40,114	41,410	41,473	HT250X06NP449T	284	227	95.8	2,216	54.976	3.375
	1200	586/7T	44,572	46,958	47,137	HT250X06NP	303	242	95.8	3,605	61.074	3.875
	900	586/7T	47,850	50,236	50,415	HT250X08NP	316	253	95.4	4,242	61.074	3.875
300	3600	586/7TS	46,984	49,370	49,549	HT300X02NP	328	262	95.8	2,977	54.199	2.375
	3600	449TS	46,984	48,280	48,343	HT300X02NP449TS	323	258	95.4	2,646	54.976	2.375
	1800	586/7T	41,855	44,241	44,420	HT300X04NP	338	270	96.2	3,903	61.074	3.875
	1200	586/7T	48,438	50,824	51,003	HT300X06NP	351	281	95.8	4,090	61.074	3.875
	900	586/7T	64,907	67,293	67,472	HT300X08NP	376	301	95.4	4,476	61.074	3.875
350	3600	586/7TS	54,032	56,418	56,597	HT350X02NP	388	310	95.8	3,208	54.199	2.375
	3600	449TS	54,032	55,328	55,391	HT350X02NP449TS	380	304	95.4	3169	54.199	2.375
	1800	586/7T	45,336	47,722	47,901	HT350X04NPS	395	316	96.2	4,289	61.074	3.875
	1200	586/7T	54,258	56,644	56,823	HT350X06NP	426	341	95.8	4,326	61.074	3.875
	900	586/7T	68,152	70,538	70,717	HT350X08NP	439	351	95.4	4,631	61.074	3.875
400	1800	586/7T	52,009	54,395	54,574	HT400X04NP	460	368	96.2	4,289	61.074	3.875
	1200	586/7T	63,103	65,489	65,668	HT400X06NP	491	393	95.8	4,564	61.074	3.875
450	1800	586/7T	52,009	54,395	54,574	HT450X04NP	506	405	96.2	4,807	61.074	3.875
	1200	586/7T	63,103	65,489	65,668	HT450X06NP	540	432	95.8	4,851	61.074	3.875
500	1800	586/7T	58,967	61,353	61,532	HT500X04NP	568	454	96.2	5,027	61.074	3.875

Flange: Replace 'H' with 'C' for C Flange
Replace 'H' with 'D' for D Flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

NEMA Premium Efficiency Motors - TEFC (IP55)
Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	3495	143T	2.83	1.41	1.13	M	9.00	1.51	3.0	4.0	75.5	80.0	81.5	0.65	0.76	0.82	1.25	0.04295	40	88	40	68
		1765	143T**	2.85	1.43	1.14	L	8.80	2.99	2.9	4.0	80.0	84.0	85.5	0.58	0.71	0.77	1.25	0.11960	20	44	51	51
		1165	145T	3.45	1.73	1.38	L	6.80	4.54	2.3	3.0	77.0	82.0	82.5	0.45	0.57	0.66	1.25	0.15947	13	29	53	49
		875	182T**	4.60	2.30	1.84	M	6.00	6.04	3.0	3.5	74.0	77.0	78.5	0.32	0.42	0.52	1.25	0.39914	22	48	95	50
1.5	1.1	3495	143T	3.95	1.98	1.58	L	9.20	2.22	3.0	4.0	81.5	84.0	84.0	0.70	0.80	0.83	1.25	0.04865	20	44	42	68
		1760	145T	4.00	2.00	1.60	L	8.70	4.40	2.7	3.8	84.0	85.5	86.5	0.61	0.73	0.80	1.25	0.14618	15	33	53	51
		1165	182T**	4.78	2.39	1.91	M	8.00	6.65	3.2	4.0	84.0	86.5	87.5	0.45	0.56	0.66	1.25	0.48789	16	35	70	52
		860	184T**	5.40	2.70	2.16	J	5.50	9.01	2.5	2.6	80.0	82.5	82.5	0.43	0.54	0.62	1.25	0.57664	17	37	111	50
2	1.5	3490	145T	5.30	2.65	2.12	L	9.40	3.03	3.5	4.0	84.0	85.5	85.5	0.68	0.77	0.83	1.25	0.06312	21	46	49	68
		1755	145T	5.25	2.63	2.10	K	7.90	6.02	2.5	3.2	85.5	87.5	86.5	0.64	0.76	0.83	1.25	0.15947	12	26	55	51
		1165	184T**	6.45	3.23	2.58	L	7.50	9.07	3.0	3.0	86.5	88.5	88.5	0.46	0.58	0.66	1.25	0.62101	31	68	88	52
		870	213T**	6.78	3.39	2.71	L	7.00	12.2	2.4	2.9	82.5	84.0	85.5	0.45	0.55	0.65	1.25	178.616	39	86	149	52
3	2.2	3510	182T	7.35	3.68	2.94	K	8.80	4.42	2.5	4.0	82.5	85.5	87.5	0.72	0.82	0.86	1.25	0.19981	43	95	90	69
		1760	182T	7.80	3.90	3.12	K	8.00	8.81	2.5	3.2	87.5	89.5	89.5	0.60	0.72	0.79	1.25	0.34954	33	73	90	58
		1170	213T	8.83	4.41	3.53	K	7.00	13.3	2.0	2.8	86.5	88.5	89.5	0.50	0.63	0.70	1.25	119.576	58	128	121	55
		860	215T	8.65	4.33	3.46	K	7.10	18.0	2.0	2.1	84.0	85.5	84.0	0.60	0.71	0.76	1.25	202.441	16	35	153	52
5	3.7	3500	184T	11.7	5.83	4.66	J	8.30	7.45	2.4	3.5	87.5	88.5	89.5	0.77	0.86	0.89	1.25	0.23611	29	64	105	69
		1755	184T	12.8	6.40	5.12	J	7.80	14.9	2.1	3.0	88.5	90.2	89.5	0.63	0.75	0.81	1.25	0.44494	20	44	99	58
		1160	215T	13.7	6.83	5.46	H	6.30	22.5	1.9	2.4	88.5	89.5	89.5	0.58	0.70	0.76	1.25	147.174	57	125	162	55
		880	254T	16.0	8.00	6.40	H	5.30	29.6	2.1	2.7	83.4	86.0	86.6	0.46	0.58	0.67	1.25	340.858	21	46	218	54
7.5	5.5	3530	213T	17.3	8.63	6.90	J	8.00	11.0	2.6	3.4	88.5	90.2	91.0	0.72	0.82	0.88	1.25	0.57664	26	57	121	72
		1770	213T	18.6	9.29	7.43	J	7.50	21.9	2.0	2.4	90.5	91.7	91.7	0.65	0.75	0.81	1.25	137.990	16	35	152	61
		1170	254T**	19.5	9.73	7.78	H	6.80	33.1	2.3	3.1	89.5	91.0	91.0	0.58	0.71	0.78	1.25	391.972	11	24	256	59
		875	256T**	23.4	11.7	9.35	H	5.20	44.3	2.0	2.8	84.2	86.6	86.9	0.49	0.60	0.68	1.25	340.858	23	51	276	54
10	7.5	3520	215T	23.1	11.5	9.23	H	7.40	15.0	2.3	2.9	91.0	91.7	91.7	0.80	0.88	0.89	1.25	0.75414	23	51	160	72
		1765	215T	25.3	12.6	10.1	H	6.70	29.9	2.3	2.6	90.5	91.7	91.7	0.63	0.75	0.81	1.25	156.381	20	44	159	61
		1170	256T**	26.5	13.3	10.6	J	6.90	45.2	2.3	2.9	90.2	91.0	91.0	0.60	0.67	0.78	1.25	443.110	22	48	290	59
		880	284T**	27.3	13.6	10.9	H	6.00	60.1	2.5	2.4	91.0	91.7	91.0	0.58	0.70	0.76	1.25	719.918	53	117	373	54
15	11	3535	254T	33.8	16.9	13.5	G	6.50	21.9	2.0	2.7	91.0	91.7	91.7	0.79	0.86	0.89	1.25	125.650	31	68	254	75
		1765	254T**	36.0	18.0	14.4	H	6.60	43.9	2.5	2.5	91.5	92.4	92.4	0.67	0.77	0.83	1.25	261.979	33	73	265	66
		1180	284T**	34.5	17.3	13.8	G	6.70	65.7	2.3	2.5	89.8	91.5	91.7	0.78	0.84	0.87	1.25	785.344	33	73	320	59
		880	286T**	38.0	19.0	15.2	G	6.10	88.1	2.4	2.3	91.0	91.7	91.0	0.66	0.76	0.80	1.25	818.089	37	81	423	54
20	15	3530	256T	45.8	22.9	18.3	G	6.20	29.9	2.0	2.5	91.7	92.4	92.4	0.79	0.86	0.89	1.25	153.557	26	57	287	75
		1765	256T**	48.8	24.4	19.5	H	7.00	59.9	2.5	2.5	92.4	93.0	93.0	0.66	0.77	0.83	1.25	309.629	25	55	298	66
		1180	286T**	48.3	24.1	19.3	G	6.50	89.6	2.6	2.8	90.0	91.7	91.7	0.70	0.80	0.85	1.25	916.239	31	68	463	59
		880	324T**	55.0	27.5	22.0	G	5.30	120	2.3	2.3	91.7	92.4	92.4	0.56	0.67	0.74	1.25	936.495	25	55	512	56
25	18.5	3555	284TS	56.8	28.4	22.7	K	9.00	36.7	2.2	2.8	91.7	92.4	93.0	0.78	0.85	0.88	1.25	269.359	58	128	313	75
		1770	284T**	59.0	29.5	23.6	H	7.00	73.7	2.5	2.7	92.4	93.6	93.6	0.71	0.80	0.84	1.25	510.836	29	64	441	68
		1175	324T**	61.0	30.5	24.4	G	5.90	111	2.2	2.4	91.7	93.0	93.0	0.67	0.77	0.82	1.25	114.932	56	123	560	62
		880	326T**	70.8	35.4	28.3	G	5.10	148	2.6	2.9	91.0	92.4	92.4	0.51	0.63	0.71	1.25	119.190	20	44	587	56
30	22	3530	286TS	66.8	33.4	26.7	H	7.20	43.9	2.4	3.0	91.7	93.0	93.0	0.82	0.87	0.89	1.25	336.705	65	143	388	75
		1765	286T**	70.3	35.1	28.1	H	7.00	87.8	2.5	2.7	93.0	93.6	93.6	0.70	0.81	0.84	1.25	585.324	24	53	485	68
		1175	326T**	71.5	35.8	28.6	G	6.10	132	2.3	2.5	91.5	93.0	93.0	0.68	0.78	0.83	1.25	131.960	35	77	628	62
		885	364/5T**	77.0	38.5	30.8	G	5.70	175	2.2	2.2	92.4	93.0	93.0	0.64	0.73	0.77	1.25	234.554	14	31	882	60
40	30	3555	324TS	91.5	45.8	36.6	G	6.60	59.5	2.7	2.7	92.4	93.6	93.6	0.80	0.86	0.88	1.25	489.550	43	95	516	79
		1775	324T**	96.5	48.3	38.6	H	6.70	119	2.3	2.3	93.0	94.1	94.1	0.68	0.79	0.83	1.25	916.239	33	73	595	71
		1175	364/5T**	94.3	47.1	37.7	G	6.30	180	2.3	2.3	93.6	94.1	94.1	0.72	0.80	0.85	1.25	290.401	24	53	966	65
		885	364/5T**	105	52.3	41.8	G	5.60	239	2.2	2.2	93.0	93.6	93.6	0.64	0.73	0.77	1.25	290.401	15	33	953	60
50	37	3550	326TS	111	55.5	44.4	F	6.30	73.5	2.1	2.1	92.4	93.6	94.1	0.82	0.88	0.89	1.25	574.693	33	73	562	79
		1770	326T**	121	60.6	48.5	H	7.00	147	2.6	2.8	93.6	94.5	94.5	0.65	0.76	0.81	1.25	916.239	20	44	617	71
		1180	364/5T**	116	58.0	46.4	G	6.30	221	2.2	2.5	94.1	94.5	94.1	0.73	0.81	0.85	1.25	323.907	31	68	1017	65
		885	404/5T**	136	68.0	54.4	G	5.60	295	2.2	2.1	92.4	93.0	93.6	0.67	0.73	0.73	1.25	346.247	11	24	1140	60
60	45	3560	364/5TS	137	68.3	54.6	G	6.40	89.1	2.0	2.5	92.4	93.6	94.1	0.79	0.86	0.88	1.25	106.420	60	132	882	83
		1780	364/5T**	137	68.4	54.7	J	8.10	178	2.5	2.7	94.1	95.0	95.0	0.75	0.84	0.87	1.25	224.206	21	46	926	75
		1180	404/5T**	141	70.4	56.3	G	6.30	269	2.5	2.7	93.6	94.5	94.5	0.73	0.82	0.85	1.25	368.584	29	64	1191	65
		885	404/5T	154	76.9	61.5	H	6.60	358	2.2	2.3	92.4	93.6	93.0	0.62	0.73	0.79	1.25	402.093	17	37	1323	60

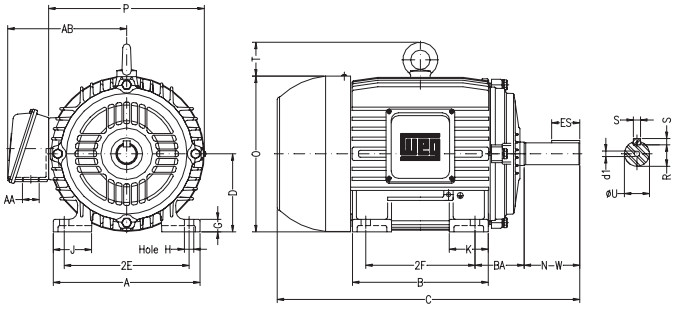
* ΔT 105K.
** Reduced frame
*** NEMA Design C

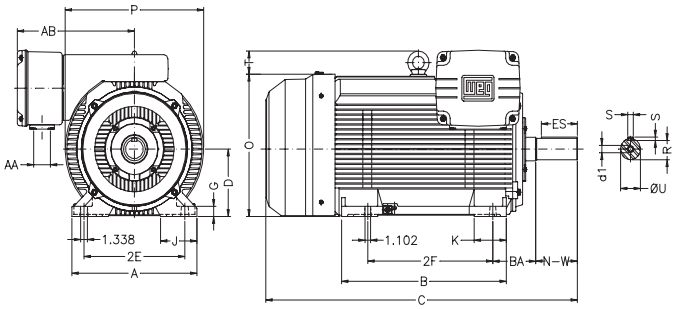
NEMA Premium Efficiency Motors - TEFC (IP55)
Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load								Hot	Cold		
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100						
75	55	3560	364/5TS	162	80.8	64.6	F	6.40	109	2.0	2.4	93.6	94.5	95.0	0.84	0.88	0.90	1.25	11.9189	18	40	915	83
		1775	364/5T**	165	82.3	65.8	H	7.30	218	2.5	2.7	94.1	95.0	95.4	0.77	0.85	0.88	1.25	23.2509	19	42	937	75
		1180	404/5T**	174	87.0	69.6	G	6.40	328	2.5	2.6	94.1	95.0	94.5	0.72	0.81	0.84	1.25	40.2093	15	33	1323	65
		890	444/5T	180	90.0	72.0	G	6.10	436	1.7	2.1	93.6	94.1	93.6	0.72	0.79	0.82	1.25	73.6255	18	40	1484	63
100	75	3550	404/5TS	220	110	88.1	F	6.30	149	2.0	2.6	93.6	95.0	95.0	0.85	0.89	0.90	1.25	13.1960	21	46	1206	84
		1775	404/5T**	224	112	89.7	J	8.10	298	2.5	2.8	94.5	95.4	95.4	0.77	0.85	0.88	1.25	29.8941	16	35	1147	75
		1185	444/5T**	242	121	96.7	G	6.10	446	2.3	2.6	94.1	95.0	95.0	0.66	0.76	0.82	1.25	87.2597	49	108	1830	70
		890	444/5T	244	122	97.6	G	6.10	594	1.7	2.0	94.1	94.5	94.1	0.72	0.79	0.82	1.25	87.2598	16	35	1724	63
125	90	3560	444/5TS	265	133	106	F	6.60	178	2.0	2.5	93.0	94.5	95.0	0.83	0.89	0.90	1.15	33.5077	22	48	1618	84
		1780	444/5T**	275	138	110	G	6.40	356	2.0	2.2	95.0	95.4	95.4	0.76	0.83	0.86	1.15	57.1627	18	40	1665	79
		1185	444/5T**	290	145	116	G	6.60	535	2.3	2.4	94.5	95.0	95.0	0.67	0.76	0.82	1.15	103.6208	41	90	1918	70
		890	504/5T	293	146	117	G	6.10	713	1.7	2.0	94.5	95.0	94.5	0.72	0.79	0.82	1.15	103.6210	18	40	2044	66
		890	447T	293	146	117	G	6.10	713	1.7	2.0	94.5	95.0	94.5	0.72	0.79	0.82	1.15	103.6210	18	40	2044	66
150	110	3570	444/5TS	323	161	129	F	6.40	217	2.0	2.5	93.6	95.0	95.4	0.85	0.89	0.90	1.15	39.0923	31	68	1689	84
		1780	444/5T**	340	170	136	H	7.00	436	2.2	2.5	95.0	95.8	95.8	0.72	0.81	0.85	1.15	66.6898	22	48	1764	79
		1185	504/5T**	348	174	139	H	7.50	654	2.6	2.6	95.0	95.8	95.8	0.68	0.78	0.83	1.15	133.6165	42	92	2540	73
		1185	447T**	348	174	139	H	7.50	654	2.6	2.6	95.0	95.8	95.8	0.68	0.78	0.83	1.15	133.6165	42	92	2540	73
		890	447T	358	179	143	G	6.00	871	1.7	2.0	94.5	95.0	94.5	0.71	0.79	0.82	1.15	125.4358	18	40	2273	66
		890	504/5T	358	179	143	G	6.00	871	1.7	2.0	94.5	95.0	94.5	0.71	0.79	0.82	1.15	125.4360	18	40	2273	66
200	150	3570	447TS	443	221	177	G	7.00	296	2.2	2.6	94.1	95.4	95.8	0.84	0.88	0.89	1.15	44.6769	37	81	1874	87
		3570	504/5TS	443	221	177	G	7.00	296	2.2	2.6	94.1	95.4	95.8	0.84	0.88	0.89	1.15	44.6769	37	81	1874	87
		1780	504/5T**	460	230	184	G	6.40	594	2.3	2.4	95.8	96.2	96.2	0.70	0.80	0.85	1.15	76.2170	25	55	2018	82
		1780	447T**	460	230	184	G	6.40	594	2.3	2.4	95.8	96.2	96.2	0.70	0.80	0.85	1.15	76.2170	25	55	2018	82
		1185	504/5T**	510	255	204	J	7.00	892	2.7	2.8	94.5	95.4	95.8	0.60	0.71	0.77	1.15	144.5240	13	29	2615	73
		1185	447T**	510	255	204	J	7.00	892	2.7	2.8	94.5	95.4	95.8	0.60	0.71	0.77	1.15	144.5240	13	29	2615	73
		890	586/7T	523	261	209	G	5.70	1188	1.0	2.1	94.1	94.5	95.0	0.60	0.71	0.76	1.15	350.2193	28	62	3815	75
250	185	3580	447TS	538	269	215	G	6.60	364	2.0	2.5	95.0	95.4	95.8	0.87	0.89	0.90	1.15	50.2616	34	75	2068	87
		3580	504/5TS	538	269	215	G	6.60	364	2.0	2.5	95.0	95.4	95.8	0.87	0.89	0.90	1.15	50.2617	34	75	2068	87
		1780	504/5T	568	284	227	G	6.50	732	2.1	2.3	95.4	96.2	96.2	0.72	0.81	0.85	1.15	89.5549	30	66	2216	82
		1780	447T	568	284	227	G	6.50	732	2.1	2.3	95.4	96.2	96.2	0.72	0.81	0.85	1.15	89.5549	30	66	2216	82
		1190	586/7T	605	303	242	G	6.00	1096	1.8	2.1	93.6	95.4	95.8	0.67	0.75	0.80	1.15	226.1775	33	73	3605	77
		890	586/7T	633	316	253	G	5.80	1465	1.0	2.1	94.1	94.5	95.4	0.60	0.71	0.77	1.15	394.9282	26	57	4242	75
300	220	3570	586/7TS	655	328	262	G	6.60	434	1.1	2.0	94.5	95.4	95.8	0.86	0.87	0.88	1.15	122.7091	34	75	2977	96
		1790	586/7T	675	338	270	G	6.80	866	1.8	2.1	95.0	95.8	96.2	0.79	0.84	0.85	1.15	185.7931	50	110	3903	83
		1190	586/7T	703	351	281	G	6.10	1303	1.8	2.1	93.6	95.4	95.8	0.68	0.75	0.82	1.15	277.0674	35	77	4090	77
		890	586/7T	753	376	301	G	5.90	1742	1.0	2.0	94.1	94.5	95.4	0.60	0.62	0.77	1.15	461.9914	24	53	4476	75
350	260	3570	586/7TS	775	388	310	G	6.60	513	1.0	2.0	94.5	95.4	95.8	0.86	0.87	0.88	1.15	136.3435	35	77	3208	96
		1790	586/7T	790	395	316	H	7.30	1024	2.3	2.3	95.0	95.8	96.2	0.79	0.84	0.86	1.15	199.0641	32	70	4289	83
		1190	586/7T	853	426	341	G	6.20	1540	1.8	2.0	93.6	95.0	95.8	0.69	0.76	0.80	1.15	327.9573	30	66	4326	77
		890	586/7T*	878	439	351	G	5.90	2059	1.1	2.0	94.1	94.5	95.4	0.60	0.64	0.78	1.00	484.3459	25	55	4631	75
400	300	1790	586/7T	920	460	368	G	6.40	1181	1.8	2.0	95.0	95.8	96.2	0.80	0.84	0.85	1.15	221.1823	18	40	4289	83
		1190	586/7T	983	491	393	G	6.00	1777	1.8	2.0	93.6	95.0	95.8	0.69	0.77	0.80	1.15	367.5383	32	70	4564	77
450	330	1790	586/7T*	1013	506	405	G	6.50	1299	1.8	2.0	95.0	95.8	96.2	0.80	0.84	0.85	1.00	221.1824	24	53	4807	83
		1190	586/7T*	1080	540	432	G	6.00	1954	1.5	2.1	93.6	95.0	95.8	0.69	0.77	0.80	1.00	367.5384	34	75	4851	77
500	370	1790	586/7T*	1135	568	454	G	6.40	1457	1.8	2.1	95.0	95.8	96.2	0.81	0.84	0.85	1.00	265.4189	25	55	5027	83

* ΔT 105K.
** Reduced frame
*** NEMA Design C

General Purpose Motors - TEFC (IP55) - 3 Phase - Cast Iron Frame
Mechanical Data - W21 Severe Duty / NEMA Premium



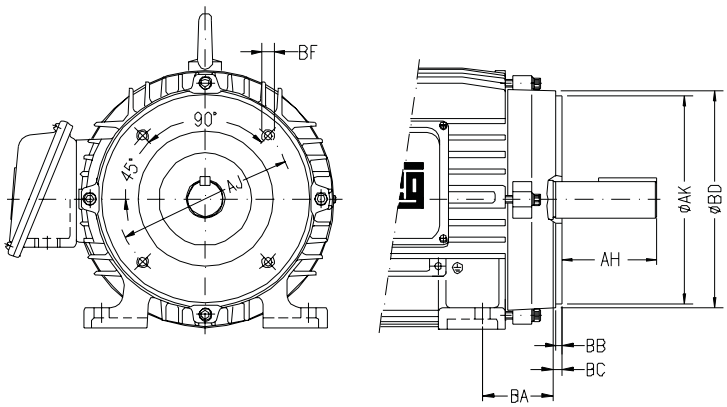


5008T FRAME

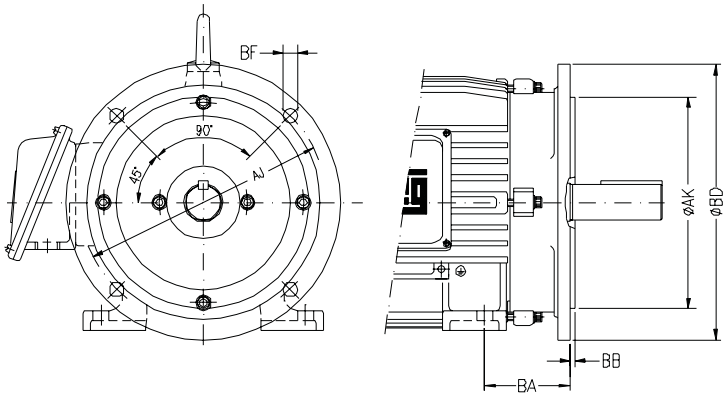
NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.
143T	5.500	4.000	0.344	2.250	6.457	5.157	12.346	3.500	0.547	1.496	1.654	7.000	7.047		0.187	0.765	1.575	2.250	0.875	5.905	NPT0.75"		6205-ZZ	6204.-ZZ
145T		5.000				6.142	13.346																	
W182/4T	7.500	4.500	0.406	2.750	8.661	6.969	15.630	4.500	0.720	1.890	2.441	8.909	7.795	1.772	0.250	0.984	1.969	2.750	1.125	6.614	NPT1"		6206-ZZ	
		5.500																						
182T		4.500				5.945	14.860				1.969	9.343	8.740							7.086			6307-ZZ	6206-ZZ
184T		5.500				6.969	15.860																	
W213/5T	8.500	5.500		3.500	9.764	8.858	19.882	5.250	0.866	2.008	3.346	10.093	8.750		0.313	1.203	2.480	3.375	1.375	7.047			6308-ZZ	6207-ZZ
		7.000																						
213T		5.500				7.362	18.021		0.827		2.165	10.841	10.630							8.149				
215T		7.000				8.858	19.517																	
W254/6T	10.000	8.268	0.531	4.250	12.126	11.732	25.000	6.250	0.866	2.520	3.465	11.841	10.670	2.087	0.375	1.406	2.756	4.000	1.625	9.272	NPT1.5"	A4	6309-C3	6209-Z-C3
		10.000																						
254T		8.252				10.000	23.213		0.817		2.559	12.431	12.283							10.079				
256T		10.000				11.732	24.945																	
284T	11.000	9.500		4.750	13.780	11.575	26.433	7.000	1.016	3.150	2.953	14.067	14.094		0.500	1.594	3.150	4.622	1.875	10.866			6311-C3	6211-Z-C3
284TS							25.061								0.375	1.406	2.480	3.250	1.625					
286T		11.000				13.071	27.929								0.500	1.594	3.150	4.622	1.875					
286TS							26.557								0.375	1.406	2.480	3.250	1.625					
324T	12.500	10.500	0.657	5.250	15.157		29.620	8.000	1.307	3.228	3.346	15.953	15.591	2.441	0.500	1.844	3.937	5.250	2.125	11.496	NPT2"		6312-C3	6212-Z-C3
324TS							28.120									1.594	2.756	3.750	1.875					
326T		12.000				14.567	31.116									1.844	3.937	5.250	2.125					
326TS							29.616									1.594	2.756	3.750	1.875					
364/5T	14.016	11.260	0.748	5.875	17.165	15.394	33.709	9.000	1.480	3.150	4.134	18.502	18.740	2.795	0.625	2.019	4.330	5.874	2.375	16.380	NPT3"	UNC0.75"	6314-C3	6314-C3
		12.244																						
364/5TS		11.260					31.583								0.500	1.591	1.968	3.748	1.875					
		12.244																						
404/5T	15.984	12.244	0.807	6.625	19.921	17.677	38.077	10.000	1.811	3.937	5.433	19.496	23.622	3.543	0.750	2.449	5.512	7.250	2.875				NU316-C3	6316-C3
		13.740																						
404/5TS		12.244					35.077								0.500	1.842	2.756	4.250	2.125				6314-C3	
		13.740																						
444/5T	18.000	14.500		7.500	21.929	20.079	43.776	11.000	1.630	3.937	5.591	22.713			0.875	2.880	7.087	8.500	3.375	19.213	2xNPT3"		NU319-C3	
		16.500																						
444/5TS		14.500					40.026								0.625	2.021	3.000	4.750	2.375				6314-C3	
		16.500																						
447T		20.000			21.496	23.622	47.299		1.654						0.875	2.880	7.087	8.500	3.375	19.370			NU319-C3	6316-C3
447TS							43.549								0.625	2.021	3.000	4.750	2.375				6314-C3	
449T		25.000			21.929	31.969	54.976		1.630	4.331	7.087	23.031			0.875	2.880	7.087	8.500	3.375	20.047			NU322-C3	6319-C3
449TS							51.226								0.625	2.021	3.000	4.750	2.375				6314-C3	
504/5T	20.000	16.000	1.250	8.500	24.724	21.969	49.449	12.500	2.146	4.724	5.984	24.213			0.875	3.134	8.661	10.630	3.625	19.370			NU319-C3	6316-C3
		18.000																						
504/5TS		16.000					43.569								0.625	2.021	3.000	4.750	2.375				6314-C3	
		18.000																						
586/7T	23.000	22.000	1.181	10.000	29.528	29.921	61.074	14.500	2.492	5.512	7.874	29.067	32.126	4.291	1.000	3.312	8.661	11.625	3.875	26.772		UNC7/8"	NU322-C3	6319-C3
586/7TS		25.000																						
5008T																								
5008TS																								

General Purpose Motors - TEFC (IP55) - 3 Phase - Cast Iron Frame
Mechanical Data - W21 Severe Duty / NEMA Premium

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143TC	2.250	5.875	4.500	6.500	4	UNC3/8"x16	0.156	0.125	2.125
145TC									
W182/4TC	2.750	7.250	8.500	8.875		UNC0.5"x13	0.250		2.625
182TC									
184TC									
W213/5TC	3.500							0.250	3.125
213TC									
215TC									
W254/6TC	4.250								3.750
254TC									
256TC									
284TC	4.750	9.000	10.500	11.031					4.375
284TSC									3.000
286TC									4.375
286TSC									3.000
324TC	5.250	11.000	12.500	13.583		UNC5/8"x11			5.000
324TSC									3.500
326TC									5.000
326TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
447TC									8.250
447TSC									4.500
449TC									8.250
449TSC									4.500
504/5TC	8.500	14.500	16.500						10.375
504/5TSC									4.500
586/7TC	10.000								11.375
586/7TSC									4.500



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143TD	2.250	10.000	9.000	11.000	4	0.562	0.203
145TD							
W182/4TD	2.750						
182TD							
184TD							
W213/5TD	3.500						
213TD							
215TD							
W254/6TD	4.250	12.500	11.000	14.000		0.828	
254TD							
256TD							
284TD	4.750						
284TSD							
286TD							
286TSD							
324TD	5.250	16.000	14.000	18.000			
324TSD							
326TD							
326TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
447TD							
447TSD							
449TD							
449TSD							
504/5TD	8.500	22.000	18.000	24.803			0.250
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							
5008TD	8.500						
5008TSD							



Rolled Steel Motors - TEFC (IP55)
Purchasing Data

Standard Features

- Frames (143/5T up to 254/6T)
- Three Phase, 2, 4, & 6 pole, 60Hz
- Voltage: 230/460V & 575V
- V'Ring Seal
- Ball bearings (ZZ)
- Plastic Fan
- Class 'F' insulation
- Service factor: 1.15
- Color: RAL 7022 (Black)

Optional Features

- Special voltages
- Degree of Protection: IP56
- Lip Seal, oil Seal
- Class 'H' insulation
- NEMA Premium Efficiency is available. Please call for details.

NEMA MG1 Part 31

Inverter Duty
Call for specific VFD ratings

APPROVED BY ® LR 38324 EEV 78282

Rolled Steel Motors - TEFC (IP55)
Purchasing Data

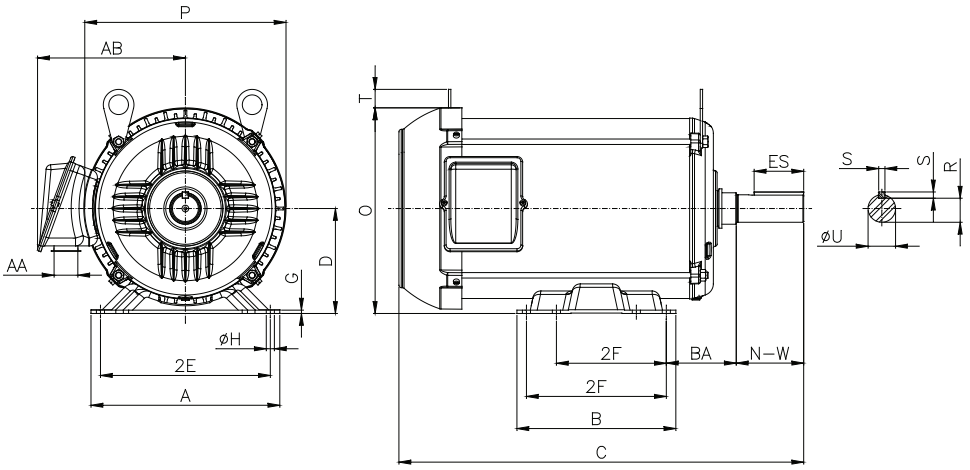
Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM					460V	575V				
1	1800	E143/5T	$395	$469	HT000X04PRS	1.45	1.16	82.5	39	14.094	on request
	1200	E143/5T	480	554	HT000X06PRS	1.83	1.46	80.0	45	14.094	on request
1.5	3600	E143/5T	432	506	HT001X02PRS	1.95	1.56	82.5	40	14.094	on request
	1800	E143/5T	439	513	HT001X04PRS	2.25	1.80	84.0	43	14.094	on request
	1200	182/4T	566	650	HT001X06PRS	2.37	1.90	85.5	74	16.404	1.125
2	3600	E143/5T	451	525	HT002X02PRS	2.60	2.08	84.0	44	14.094	on request
	1800	E143/5T	457	531	HT002X04PRS	2.85	2.28	84.0	50	14.094	on request
	1200	182/4T	622	706	HT002X06PRS	3.20	2.56	86.5	88	16.404	1.125
3	3600	182/4T	575	659	HT003X02PRS	3.67	2.94	85.5	57	17.719	1.125
	1800	182/4T	585	669	HT003X04PRS	4.15	3.32	87.5	56	17.719	1.125
	1200	213/5T	812	907	HT003X06PRS	4.26	3.41	87.5	100	20.257	1.375
5	3600	182/4T	722	806	HT005X02PRS	6.10	4.88	87.5	60	17.719	1.125
	1800	182/4T	673	758	HT005X04PRS	6.90	5.52	87.5	65	17.719	1.125
	1200	213/5T	1,075	1,170	HT005X06PRS	7.08	5.66	87.5	142	20.257	1.375
7.5	3600	213/5T	908	1,003	HT007X02PRS	9.00	7.20	88.5	108	20.257	1.375
	1800	213/5T	908	1,003	HT007X04PRS	9.64	7.71	89.5	117	20.257	1.375
	1200	254/6T	1,524	1,709	HT007X06PRS	9.52	7.62	89.5	168	22.956	1.625
10	3600	213/5T	1,090	1,185	HT010X02PRS	11.8	9.44	89.5	133	20.257	1.375
	1800	213/5T	1,044	1,139	HT010X04PRS	12.8	10.2	89.5	130	20.257	1.375
	1200	254/6T	1,804	1,989	HT010X06PRS	13.3	10.6	89.5	191	24.925	1.625
15	3600	254/6T	1,516	1,701	HT015X02PRS	17.0	13.6	90.2	158	21.500	1.625
	1800	254/6T	1,570	1,755	HT015X04PRS	18.5	14.8	91.0	175	21.500	1.625
20	3600	254/6T	1,858	2,043	HT020X02PRS	23.7	19.0	90.2	208	22.956	1.625
	1800	254/6T	1,886	2,071	HT020X04PRS	24.9	19.9	91.0	232	22.956	1.625

Flange: Replace 'H' with 'C' for C Flange

Rolled Steel Motors - TEFC (IP55)
Electrical Data

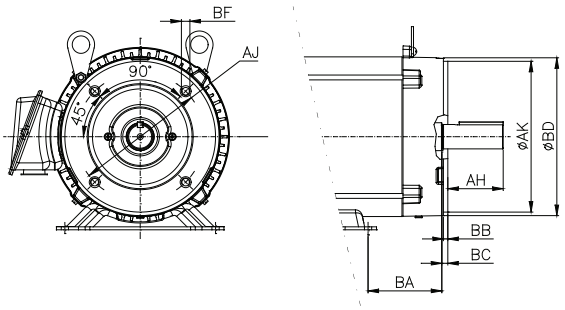
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)
												% of full load							
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100		
1	0.75	1730	E143/5T	2.90	1.45	1.16	K	7.0	2.99	2.9	3.2	80.0	82.5	82.5	0.58	0.70	0.78	1.15	0.10655
		1160	E143/5T	3.66	1.83	1.46	K	5.6	4.48	2.5	3.0	77.0	80.0	80.0	0.43	0.55	0.64	1.15	0.17679
1.5	1.1	3440	E143/5T	3.90	1.95	1.56	K	8.5	2.26	4.5	3.5	76.0	80.0	82.5	0.72	0.82	0.88	1.15	0.05102
		1730	E143/5T	4.50	2.25	1.80	K	7.5	4.49	3.0	3.2	81.5	82.5	84.0	0.55	0.67	0.75	1.15	0.13313
		1165	182/4T	4.74	2.37	1.90	M	8.0	6.67	3.2	4.0	81.5	84.0	85.5	0.47	0.58	0.68	1.15	0.48789
2	1.5	3440	E143/5T	5.20	2.60	2.08	L	9.2	3.01	4.7	3.5	80.0	82.5	84.0	0.70	0.80	0.86	1.15	0.05933
		1735	E143/5T	5.70	2.85	2.28	K	7.4	5.97	3.0	3.2	82.5	84.0	84.0	0.60	0.73	0.80	1.15	0.17750
		1165	182/4T	6.40	3.20	2.56	L	7.5	8.89	3.0	3.0	82.5	85.5	86.5	0.48	0.60	0.68	1.15	0.62101
3	2.2	3495	182/4T	7.34	3.67	2.94	K	8.9	4.45	2.8	3.3	84.5	85.5	85.5	0.77	0.85	0.88	1.15	0.15970
		1740	182/4T	8.30	4.15	3.32	L	8.5	8.93	3.6	4.0	85.5	87.5	87.5	0.55	0.67	0.76	1.15	0.21808
		1170	213/5T	8.52	4.26	3.41	J	7.0	13.28	2.3	2.5	86.5	87.5	87.5	0.53	0.65	0.74	1.15	1.01185
5	3.7	3480	182/4T	12.2	6.10	4.88	K	8.7	7.44	3.0	3.3	86.5	87.5	87.5	0.71	0.81	0.87	1.15	0.17299
		1730	182/4T	13.8	6.90	5.52	L	8.5	14.97	3.7	4.1	85.5	87.5	87.5	0.55	0.68	0.77	1.15	0.27266
		1165	213/5T	14.2	7.08	5.66	J	6.4	22.24	2.2	2.3	86.5	87.5	87.5	0.55	0.67	0.75	1.15	1.47174
7.5	5.5	3520	213/5T	18.0	9.00	7.20	J	7.6	11.04	2.6	3.1	87.5	88.5	88.5	0.73	0.82	0.87	1.15	0.48789
		1760	213/5T	19.3	9.64	7.71	H	6.8	22.08	2.2	2.8	87.5	89.5	89.5	0.61	0.73	0.80	1.15	1.01185
		1170	254/6T	19.0	9.52	7.62	H	6.8	33.21	2.3	3.1	88.5	89.5	89.5	0.62	0.74	0.81	1.15	2.55643
10	7.5	3515	213/5T	23.6	11.8	9.44	J	7.7	14.74	2.5	3.0	89.5	90.5	89.5	0.76	0.85	0.89	1.15	0.57664
		1760	213/5T	25.6	12.8	10.2	H	6.5	29.44	2.2	2.7	89.5	90.2	89.5	0.67	0.78	0.82	1.15	1.24203
		1175	254/6T	26.6	13.3	10.6	J	6.9	44.09	2.3	2.9	88.5	89.5	89.5	0.58	0.72	0.79	1.15	2.89720
15	11	3520	254/6T	34.0	17.0	13.6	J	8.0	22.08	2.6	3.0	89.5	90.2	90.2	0.78	0.87	0.90	1.15	0.66539
		1760	254/6T	37.0	18.5	14.8	J	7.8	44.16	2.3	2.6	89.5	90.2	91.0	0.64	0.76	0.82	1.15	1.78165
20	15	3530	254/6T	47.4	23.7	19.0	H	7.4	29.35	2.2	3.0	89.5	90.2	90.2	0.76	0.84	0.88	1.15	1.53581
		1755	254/6T	49.8	24.9	19.9	G	6.2	59.04	2.6	2.6	91.0	91.7	91.0	0.68	0.78	0.83	1.15	2.85804

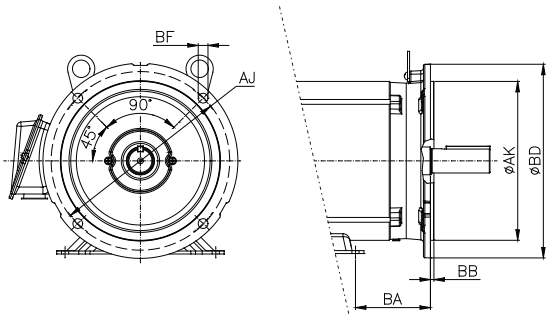
Rolled Steel Motors - TEFC (IP55) - 3 Phase
Mechanical Data



NEMA Frames	Mounting				A	B	C	D	G	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA									S	R	ES	N–W	U				D.E.	O.D.E.
W182/4T	7.500	4.500	0.406	2.750	8.661	6.299	17.719	4.500	0.118	8.414	7.828	1.168	0.250	0.984	1.969	2.750	1.125	5.809	1.142	A4	6206-ZZ	6205-ZZ
		5.500																				
182/4T		4.500					16.404		0.167	8.847	8.694	1.055						6.353				6206-ZZ
		5.500																				
213/5T	8.500	5.500		3.500	9.449	7.953	20.257	5.250		10.285	10.071	0.923	0.313	1.203	2.480	3.375	1.375	7.398			6208-ZZ	
		7.000																				
W254/6T	10.000	8.252	0.530	4.250	12.126	11.417	21.500	6.250	0.187	11.285		0.923	0.375	1.406	2.756	4.000	1.625	7.428			6309-ZZ	6208-ZZ
		10.000																				
254/6T		8.252					22.956			11.841	11.181	0.688						7.819				6209-ZZ
		10.000					24.925															

Frame 143/5T drawing available on request





"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
W182/4T	3.500	7.250	8.500	8.875	4	UNC0.5"x13	0.250	0.125	2.625
182/4T									
213/5T	4.250							0.250	3.125
W254/6T	4.750								3.750
254/6T									

"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
W182/4T	3.500	10.000	9.000	11.000	4	0.562	0.203
182/4T							
213/5T	4.250						
W254/6T	4.750	12.500	11.000	14.000		0.828	
254/6T							

W22 IEEE 841-2009 NEMA Premium Efficiency Motors - TEFC (IP55)
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan)
- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase 2, 4, 6 or 8 pole, 60Hz & 50Hz
- Voltage: 230V, 460V & 575V (3 wire)
- Totally enclosed fan cooled (TEFC)
- Degree of protection: IP55
- Class 'F' insulation ('B' Temperature rise)
- 40ºC ambient
- Service Factor:
  - 1.25 - up to 100 HP.
  - 1.15 - from 125HP and up
- Squirrel cage rotor / Aluminum die cast
- 143T up to 588/9 cast iron frame
- All cast iron construction: frame, endshields, terminal box and fan cover
- 1045 heat treated and stress relieved carbon steel shaft up to 365T.
- 4140 for frame 404T and up
- Stainless steel nameplate
- Ball bearings
- Inpro Seal
- Regreasable ball bearings D.E. and O.D.E.
- Corrosion resistant epoxy finish
- Color: RAL 5009 (Blue) - WEG paint plan: 202E
- Oversized rotatable cast iron conduit box
- NPT threaded terminal box conduit hole

Optional Features

- Special Voltages
- Specially designed shaft
- Space heaters
- Second shaft end
- Thermistors, Thermostats or RTD's (PT100)
- Auxiliary terminal box
- Drip cover (canopy) for shaft down applications
- Cable glands
- Flange mount
- Bronze fan
- F3 mounting. Terminal Box on top of motor

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- Inverter Duty Certified for 20:1 CT & 1000:1 VT
- Inverter Duty Certified for 1000:1 CT with a WEG VFD running in Optimized Flux mode
- Inverter Duty CSA certified for Division 2, Class I, Groups A, B, C & D and Division 2, Class II, Group F & G

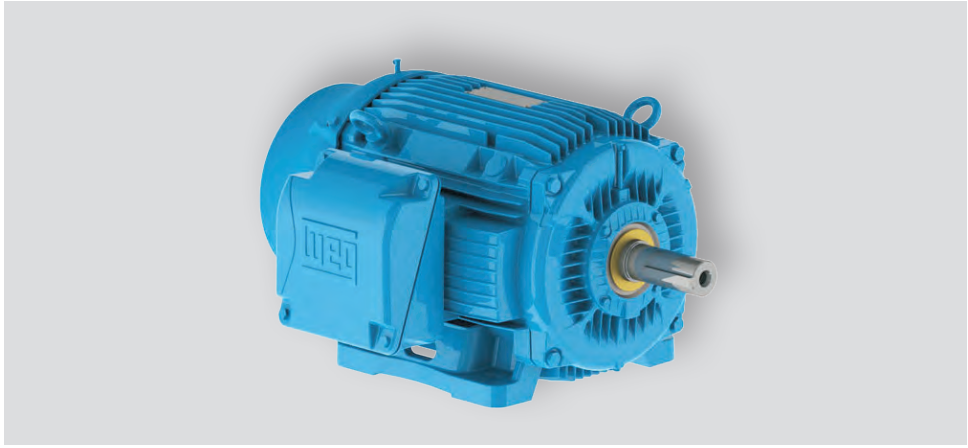
60 Month Warranty

APPROVED BY

APPROVED BY LR 38324 LR 50962

CSA E EEV 78282

NEMA Premium™



W22 IEEE 841-2009 NEMA Premium Efficiency Motors - TEFC (IP55)
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	3,600	143T	$737	$917	$1,115	IE000X02W22	1.43	1.14	78,5	36,4	12.346	0.875
	1,800	143T	711	891	1,089	IE000X04W22	1.39	1.11	85,5	40,8	12.346	0.875
	1,200	145T	864	1,044	1,242	IE000X06W22	1.73	1.38	82,5	52,9	13.346	0.875
	900	182T	1,498	1,738	1,762	IE000X08W22	2.30	1.84	78,5	94,8	14.860	1.125
1.5	3,600	143T	777	957	1,155	IE001X02W22	1.91	1.53	84,0	40,8	12.346	0.875
	1,800	145T	791	971	1,169	IE001X04W22	1.97	1.58	86,5	48,5	13.346	0.875
	1,200	182T	985	1,225	1,249	IE001X06W22	2.39	1.91	87,5	70,3	14.860	1.125
	900	184T	1,687	1,927	1,951	IE001X08W22	2.70	2.16	82,5	111	15.860	1.125
2	3,600	145T	812	992	1,190	IE002X02W22	2.53	2.02	85,5	51,8	13.346	0.875
	1,800	145T	822	1,002	1,200	IE002X04W22	2.61	2.09	86,5	50,7	13.346	0.875
	1,200	184T	1,082	1,322	1,346	IE002X06W22	3.23	2.58	88,5	87,5	15.860	1.125
	900	213T	2,092	2,342	2,370	IE002X08W22	3.39	2.71	85,5	149	18.021	1.375
3	3,600	182T	1,001	1,241	1,265	IE003X02W22	3.63	2.90	86,5	88,2	14.860	1.125
	1,800	182T	1,018	1,258	1,282	IE003X04W22	3.88	3.10	89,5	90,4	14.860	1.125
	1,200	213T	1,412	1,662	1,690	IE003X06W22	4.41	3.53	89,5	121	18.021	1.375
	900	215T	2,290	2,540	2,568	IE003X08W22	4.56	3.65	85,5	176	19.517	1.375
5	3,600	184T	1,256	1,496	1,520	IE005X02W22	5.90	4.72	88,5	88,2	15.860	1.125
	1,800	184T	1,172	1,412	1,436	IE005X04W22	6.45	5.16	89,5	94,8	15.860	1.125
	1,200	215T	1,871	2,121	2,149	IE005X06W22	6.83	5.46	89,5	162	19.517	1.375
	900	254T	3,488	3,768	3,796	IE005X08W22	7.58	6.06	87,5	258	23.213	1.625
7.5	3,600	213T	1,343	1,593	1,621	IE007X02W22	8.76	7.01	89,5	139	18.021	1.375
	1800	213T	1,581	1,831	1,859	IE007X04W22	9.00	7.20	91,7	154	18.021	1.375
	1200	254T	2,195	2,475	2,503	IE007X06W22	9.48	7.58	91,0	262	23.213	1.625
	900	256T	4,220	4,500	4,528	IE007X08W22	11.1	8.88	87,5	284	24.945	1.625
10	3600	215T	1,897	2,147	2,175	IE010X02W22	11.6	9.28	90,2	163	19.517	1.375
	1800	215T	1,817	2,067	2,095	IE010X04W22	12.4	9.92	91,7	172	19.517	1.375
	1200	256T	2,598	2,878	2,906	IE010X06W22	12.9	10.3	91,0	289	24.945	1.625
	900	284T	4,959	5,249	5,278	IE010X08W22	13.4	10.7	90,2	373	26.433	1.875
15	3600	254T	2,183	2,463	2,491	IE015X02W22	17.2	13.8	91,0	236	23.213	1.625
	1800	254T	2,261	2,541	2,569	IE015X04W22	18.0	14.4	92,4	251	23.213	1.625
	1200	284T	3,521	3,811	3,840	IE015X06W22	17.9	14.3	91,7	379	26.433	1.875
	900	286T	5,702	5,992	6,021	IE015X08W22	19.4	15.5	90,2	417	27.929	1.875
20	3600	256T	2,676	2,956	2,984	IE020X02W22	23.2	18.6	91,0	269	24.945	1.625
	1800	256T	2,716	2,996	3,024	IE020X04W22	24.1	19.3	93,0	291	24.945	1.625
	1200	286T	3,994	4,284	4,313	IE020X06W22	24.2	19.4	91,7	426	27.929	1.875
	900	324T	7,063	7,403	7,437	IE020X08W22	28.3	22.6	91,0	452	29.620	2.125
25	3600	284TS	3,192	3,482	3,511	IE025X02W22	28.5	22.8	91,7	362	25.061	1.625
	1800	284T	3,230	3,520	3,549	IE025X04W22	29.5	23.6	93,6	388	26.433	1.875
	1200	324T	5,043	5,383	5,417	IE025X06W22	30.4	24.3	93,0	560	29.620	2.125
	900	326T	7,587	7,927	7,961	IE025X08W22	35.9	28.7	91,0	509	31.116	2.125
30	3600	286TS	3,742	4,032	4,061	IE030X02W22	33.8	27.0	91,7	392	26.557	1.625
	1800	286T	3,655	3,945	3,974	IE030X04W22	35.1	28.1	93,6	437	27.929	1.875
	1200	326T	5,629	5,969	6,003	IE030X06W22	35.8	28.6	93,0	553	31.116	2.125
	900	364/5T	11,434	12,126	12,195	IE030X08W22	37.0	29.6	92,4	803	34.251	2.375
40	3600	324TS	5,208	5,548	5,582	IE040X02W22	45.8	36.6	92,4	547	28.120	1.875
	1800	324T	5,014	5,354	5,388	IE040X04W22	48.2	38.6	94,1	492	29.620	2.125
	1200	364/5T	9,030	9,722	9,791	IE040X06W22	46.5	37.2	94,1	833	34.251	2.375
	900	364/5T	12,465	13,157	13,226	IE040X08W22	50.0	40.0	92,4	875	34.251	2.375
50	3600	326TS	6,088	6,428	6,462	IE050X02W22	56.1	44.9	93,0	584	29.616	1.875
	1800	326T	5,709	6,049	6,083	IE050X04W22	59.2	47.4	94,5	536	31.116	2.125
	1200	364/5T	9,173	9,865	9,934	IE050X06W22	57.4	45.9	94,1	869	34.251	2.375
	900	404/5T	16,951	17,643	17,712	IE050X08W22	60.0	48.0	93,0	1012	39.730	2.875
60	3600	364/5TS	9,585	10,277	10,346	IE060X02W22	67.0	53.6	93,6	825	32.276	1.875
	1800	364/5T	9,394	10,086	10,155	IE060X04W22	68.3	54.6	95,0	869	34.251	2.375
	1200	404/5T	12,547	13,239	13,308	IE060X06W22	69.5	55.6	94,5	1036	39.730	2.875
	900	404/5T	19,948	20,640	20,709	IE060X08W22	73.0	58.4	93,0	1111	39.730	2.875
75	3600	364/5TS	11,112	11,804	11,873	IE075X02W22	81.9	65.5	93,6	847	32.276	1.875
	1800	364/5T	10,597	11,289	11,358	IE075X04W22	84.1	67.3	95,4	919	34.251	2.375
	1200	404/5T	13,583	14,275	14,344	IE075X06W22	84.9	67.9	94,5	1089	39.730	2.875
	900	444/5T	23,436	24,500	24,606	IE075X08W22	93.0	74.4	93,6	1444	44.950	3.375
100	3600	404/5TS	14,802	15,494	15,563	IE100X02W22	110	88.0	94,1	1045	36.732	2.125
	1800	404/5T	12,975	13,667	13,736	IE100X04W22	111	88.8	95,4	1140	39.730	2.875
	1200	444/5T	19,782	20,846	20,952	IE100X06W22	121	96.8	95,0	1577	44.950	3.375
	900	444/5T	25,930	26,994	27,100	IE100X08W22	127	102	94,1	1599	44.950	3.375
125	3600	444/5TS	22,040	23,104	23,210	IE125X02W22	134	107	95,0	1599	41.200	2.375
	1800	444/5T	18,511	19,575	19,681	IE125X04W22	139	111	95,4	1590	44.950	3.375
	1200	444/5T	22,732	23,796	23,902	IE125X06W22	143	114	95,0	1751	44.950	3.375
	900	445/7T	31,417	32,481	32,587	IE125X08W22445/7T	151	121	94,5	1887	48.701	3.375
	900	504/5T	31,417	32,641	32,763	IE125X08W22504/5T	149	119	94,5	2110	54.095	3.625

Flange: For C Flange add 'C' to end of part number
For D Flange add 'D' to end of part number
Voltage: Replace 'X' with '2' for 230V
Replace 'X' with '4' for 460V
Replace 'X' with '5' for 575V

W22 IEEE 841-2009 NEMA Premium Efficiency Motors - TEFC (IP55)
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
150	3600	444/5TS	24,334	25,398	25,504	IE150X02W22	161	129	95,0	1709	41.200	2.375
	1800	444/5T	20,823	N/A	21,993	IE150X04W22	170	136	95,8	1676	44.950	3.375
	1200	445/7T	26,177	27,241	27,347	IE150X06W22445/7T	176	141	95,8	2042	48.701	3.375
	1200	504/5T	24,122	25,346	25,468	IE150X06W22504/5T	176	141	95,8	2249	54.095	3.625
	900	445/7T	36,901	37,965	38,071	IE150X08W22445/7T	185	148	94,5	2042	48.701	3.375
	900	504/5T	36,901	38,125	38,247	IE150X08W22504/5T	180	144	94,5	2293	54.095	3.625
200	3600	445/7TS	29,985	31,049	31,155	IE200X02W22445/7TS	219	175	95,4	1914	44.951	2.375
	3600	504/5TS	P.O.A.	P.O.A.	P.O.A.	IE200X02W22504/5TS	222	178	95,4	2168	48.215	2.375
	1800	445/7T	26,721	N/A	27,891	IE200X04W22445/7T	230	184	96,2	1899	48.701	3.375
	1800	504/5T	25,992	N/A	27,338	IE200X04W22504/5T	228	182	96,2	2273	54.095	3.625
	1200	445/7T	33,473	N/A	34,643	IE200X06W22445/7T	237	190	95,8	2247	48.701	3.375
	1200	504/5T	30,846	N/A	32,192	IE200X06W22504/5T	237	190	95,8	2459	54.095	3.625
	900	L447/9T	P.O.A.	N/A	P.O.A.	IE200X08W22L447/9T	242	194	95.0	3550	57.181	3.375
	900	586/7T	64,827	67,278	67,523	IE200X08W22586/7T	247	198	95,4	3334	61.902	3.875
250	3600	445/7TS	31,153	32,217	32,323	IE250X02W22445/7TS	266	213	95,8	2159	44.951	2.375
	3600	504/5TS	31,153	32,377	32,499	IE250X02W22504/5TS	269	215	95,8	2388	48.215	2.375
	1800	445/7T	36,436	N/A	37,606	IE250X04W22445/7T	281	225	96,2	2079	48.701	3.375
	1800	504/5T	35,443	N/A	36,789	IE250X04W22504/5T	277	222	96,2	2450	54.095	3.625
	1200	447/9T	41,876			IE250X06W22447/9T	292	234	95,8	2538	56.338	3.375
	1200	586/7T	49,267	51,718	51,963	IE250X06W22586/7T	299	239	95,8	3206	61.902	3.875
	900	L447/9T	P.O.A.	N/A	P.O.A.	IE250X08W22L447/9T	297	238	95.4	3704	57.181	3.375
	900	586/7T	67,570	70,021	70,266	IE250X08W22586/7T	299	239	95,8	3649	61.902	3.875
300	3600	447/9TS	39,885			IE300X02W22447/9TS	320	256	95,8	2545	52.588	2.375
	3600	586/7TS	52,459	54,910	55,155	IE300S02W22586/7TS	317	254	95,8	3382	55.027	2.375
	1800	447/9T	42,033			IE300X04W22447/9T	330	264	96,2	2381	56.338	3.375
	1800	586/7T	46,732	49,183	49,428	IE300X04W22586/7T	334	267	96,2	3080	61.902	3.875
	1200	586/7T	54,082	56,533	56,778	IE300X06W22	356	285	95,8	3495	61.902	3.875
	900	586/7T	83,111	85,562	85,807	IE300X08W22	356	285	95,8	4035	61.902	3.875
350	3600	586/7TS	56,887	62,779	63,024	IE350X02W22	373	298	96,2	3621	55.027	2.375
	1800	586/7T	50,620	53,071	53,316	IE350X04W22	394	315	96,2	2675	61.902	3.875
	1200	L447/9T	P.O.A.	N/A	P.O.A.	IE350X06W22L447/9T	404	323	95.8	3574	57.181	3.375
	1200	586/7T	60,580	N/A	63,276	IE350X06W22586/7T	421	337	95,8	3784	61.902	3.875
	900	586/7T	84,645	87,096	87,341	IE350X08W22	426	341	95,8	4309	55.027	2.375
400	3600	L447/9TS	P.O.A.	N/A	P.O.A.	IE400X02W22L447/9TS	432	346	95.8	3158	57.181	3.375
	3600	586/7TS	59,267	61,718	61,963	IE400X02W22586/7TS	430	344	96,2	3749	55.027	2.375
	1800	L447/9T	P.O.A.	N/A	P.O.A.	IE400X04W22L447/9T	455	364	96.2	3285	57.181	3.375
	1800	586/7T	55,494	57,945	58,190	IE400X04W22586/7T	455	364	96,2	3455	61.902	3.875
	1200	586/7T	65,846	N/A	68,542	IE400X06W22	483	386	96,2	4115	61.902	3.875
	900	588/9T	P.O.A.	N/A	P.O.A.	IE400X08W22	498	398	95,7	4851	69.381	3.875
450	3600	L447/9TS	P.O.A.	N/A	P.O.A.	IE450X02W22L447/9TS	475	380	95.8	3268	57.181	3.375
	3600	586/7TS	60,916	63,367	63,612	IE450X02W22586/7T	473	378	96,2	3918	55.027	2.375
	1800	L447/9T	P.O.A.	N/A	P.O.A.	IE450X04W22L447/9T	501	401	96.2	3396	57.181	3.375
	1800	586/7T	60,116	62,567	62,812	IE450X04W22586/7T	501	401	96,2	3640	61.902	3.875
	1200	586/7T	P.O.A.	P.O.A.	P.O.A.	IE450X06W22	532	426	96,2	4384	61.902	3.875
500	3600	586/7TS	63,144	65,595	65,840	IE500X02W22	530	424	96,2	4086	55.027	2.375
	1800	586/7T	65,557	68,008	68,253	IE500X04W22	555	444	96,2	3912	61.902	3.875
	1200	586/7T	P.O.A.	P.O.A.	P.O.A.	IE500X06W22	603	482	96,2	4403	61.902	3.875
550	1200	588/9T	P.O.A.	P.O.A.	P.O.A.	IE550X06W22	661	529	96,1	4734	69.381	3.875
600	3600	588/9TS	P.O.A.	N/A	P.O.A.	IE600X02W22	650	520	96,5	4410	62.506	2.375
	1800	586/7T	P.O.A.	P.O.A.	P.O.A.	IE600X04W22	665	532	96,5	4335	61.902	3.875
650	3600	588/9TS	P.O.A.	N/A	P.O.A.	IE650X02W22	685	548	96,6	4635	62.506	2.375
	1800	588/9T	P.O.A.	N/A	P.O.A.	IE650X04W22	734	587	96,6	4395	69.381	3.875
700	1800	588/9T	P.O.A.	N/A	P.O.A.	IE700X04W22	788	630	96.6	4584	69.381	3.875

lange: For C Flange add 'C' to end of part number
For D Flange add 'D' to end of part number
Voltage: Replace 'X' with '2' for 230V
Replace 'X' with '4' for 460V
Replace 'X' with '5' for 575V

W22 IEEE 841-2009 NEMA Premium Efficiency Motors - TEFC (IP55)
Electrical Data

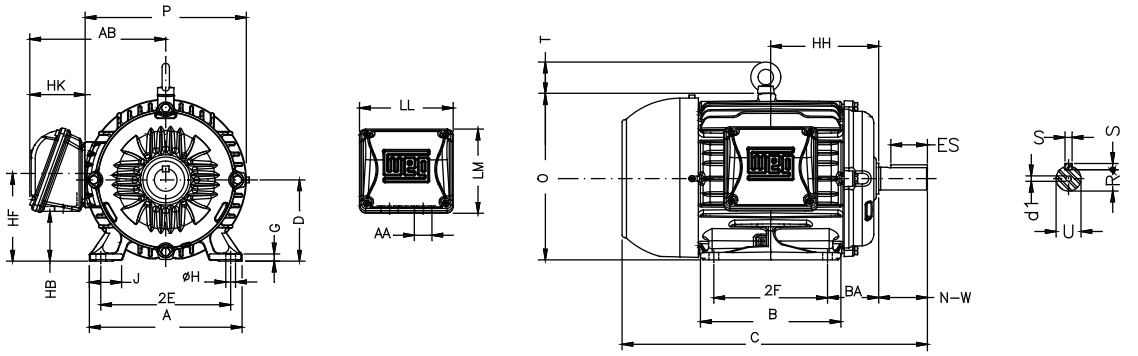
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
1	0.75	3495	143T	2.86	1.43	1.14	L	8.2	1.48	2.8	3.4	74.0	77.0	78.5	0.69	0.79	0.84	0.0332	22	48	36.4	68.0
		1760	143T	2.78	1.39	1.11	L	8.4	2.94	2.3	3.5	80.0	84.0	85.5	0.60	0.72	0.79	0.1172	18	40	40.8	51.0
		1150	145T	3.46	1.73	1.38	K	6.2	4.51	3.0	3.0	77.0	82.0	82.5	0.45	0.57	0.66	0.1595	28	62	52.9	49.0
		875	182T	4.60	2.30	1.84	M	6.0	5.92	3.0	3.5	74.0	77.0	78.5	0.32	0.42	0.52	0.3991	22	48	94.8	50.0
1.5	1.1	3490	143T	3.82	1.91	1.53	L	8.9	2.23	3.5	3.8	81.5	84.0	84.0	0.72	0.82	0.86	0.0470	21	46	40.8	68.0
		1755	145T	3.94	1.97	1.58	K	8.3	4.43	2.4	3.4	82.5	85.5	86.5	0.62	0.74	0.81	0.1431	14	31	48.5	51.0
		1165	182T	4.78	2.39	1.91	M	8.0	6.67	3.2	4.0	84.0	86.5	87.5	0.45	0.56	0.66	0.4879	16	35	70.3	52.0
		860	184T	5.40	2.70	2.16	J	5.5	9.04	2.5	2.6	80.0	82.5	82.5	0.43	0.54	0.62	0.5766	17	37	111	50.0
2	1.5	3480	145T	5.06	2.53	2.02	K	8.7	2.98	3.5	3.8	82.5	85.5	85.5	0.73	0.82	0.87	0.0605	17	37	51.8	68.0
		1750	145T	5.22	2.61	2.09	J	7.5	5.92	2.1	3.0	84.0	86.5	86.5	0.66	0.78	0.84	0.1561	11	24	50.7	51.0
		1165	184T	6.46	3.23	2.58	L	7.5	8.89	3.0	3.0	86.5	88.5	88.5	0.46	0.58	0.66	0.6210	31	68	87.5	52.0
		870	213T	6.78	3.39	2.71	M	7.6	11.9	2.4	2.9	82.5	84.0	85.5	0.45	0.55	0.65	1.79	39	86	149	52.0
3	2.2	3510	182T	7.26	3.63	2.90	K	8.3	4.43	2.4	3.8	82.5	86.5	86.5	0.75	0.84	0.88	0.1889	41	90	88.2	69.0
		1760	182T	7.76	3.88	3.10	K	8.1	8.83	2.3	3.4	86.5	88.5	89.5	0.61	0.73	0.79	0.3401	23	51	90.4	56.0
		1170	213T	8.82	4.41	3.53	K	7.0	13.3	2.0	2.8	86.5	88.5	89.5	0.50	0.63	0.70	1.20	58	128	121	55.0
		865	215T	9.12	4.56	3.65	K	6.8	18.0	2.3	2.8	84.0	85.5	85.5	0.50	0.63	0.71	2.11	44	97	176	52.0
5	3.7	3500	184T	11.8	5.90	4.72	K	8.7	7.40	2.7	3.9	86.5	88.5	88.5	0.76	0.85	0.89	0.2233	25	55	88.2	69.0
		1755	184T	12.9	6.45	5.16	J	7.5	14.8	2.3	3.2	88.5	89.5	89.5	0.62	0.74	0.80	0.4003	15	33	94.8	56.0
		1160	215T	13.7	6.83	5.46	J	6.6	22.3	1.9	2.4	88.5	89.5	89.5	0.58	0.70	0.76	1.47	57	125	162	55.0
		880	254T	15.2	7.58	6.06	H	5.3	29.4	1.9	2.5	85.5	87.5	87.5	0.49	0.62	0.70	3.41	44	97	258	54.0
7.5	5.5	3520	213T	17.5	8.76	7.01	H	7.2	11.0	2.1	3.0	87.5	89.5	89.5	0.75	0.84	0.88	0.4665	27	59	139	72.0
		1765	213T	18.0	9.00	7.20	H	7.1	22.0	2.2	3.1	89.5	91.0	91.7	0.67	0.78	0.84	1.34	20	44	154	58.0
		1175	254T	19.0	9.48	7.58	H	6.8	33.1	2.5	3.0	89.5	90.2	91.0	0.63	0.74	0.80	3.92	30	66	262	59.0
		880	256T	22.2	11.1	8.88	G	5.3	44.2	2.0	2.5	85.5	87.5	87.5	0.50	0.63	0.71	4.43	33	73	284	54.0
10	7.5	3515	215T	23.2	11.6	9.28	H	7.2	14.7	2.1	2.9	89.5	90.2	90.2	0.79	0.87	0.90	0.6362	24	53	163	72.0
		1760	215T	24.8	12.4	9.92	H	6.4	29.4	2.0	3.0	90.2	91.7	91.7	0.66	0.77	0.83	1.51	17	37	172	58.0
		1175	256T	25.8	12.9	10.3	H	6.5	44.1	2.3	2.8	90.2	91.0	91.0	0.63	0.74	0.80	4.43	26	57	289	59.0
		880	284T	26.8	13.4	10.7	G	5.6	58.9	2.0	2.4	89.5	90.2	90.2	0.61	0.72	0.78	7.20	32	70	373	54.0
15	11	3530	254T	34.4	17.2	13.8	G	6.4	22.0	2.2	2.7	89.5	91.0	91.0	0.77	0.85	0.88	1.26	25	55	236	72.0
		1765	254T	36.0	18.0	14.4	H	7.0	44.0	2.3	2.7	91.0	91.7	92.4	0.68	0.78	0.83	2.62	17	37	251	64.0
		1175	284T	35.8	17.9	14.3	G	6.5	66.1	2.3	2.7	91.0	91.7	91.7	0.69	0.80	0.84	7.85	20	44	379	59.0
		880	286T	38.8	19.4	15.5	G	5.5	88.3	2.0	2.3	90.2	91.0	90.2	0.62	0.73	0.79	8.18	25	55	417	54.0
20	15	3520	256T	46.4	23.2	18.6	F	6.0	29.4	2.0	2.4	91.0	91.7	91.0	0.82	0.87	0.89	1.54	21	46	269	72.0
		1765	256T	48.2	24.1	19.3	G	6.3	58.7	2.3	2.7	91.7	92.4	93.0	0.68	0.79	0.84	3.10	15	33	291	64.0
		1175	286T	48.4	24.2	19.4	G	6.4	88.2	2.3	2.6	91.0	91.7	91.7	0.70	0.80	0.85	9.16	16	35	426	59.0
		880	324T	56.6	28.3	22.6	G	5.0	118	1.9	2.2	89.5	91.0	91.0	0.54	0.66	0.73	9.37	27	59	452	56.0
25	18.5	3535	284TS	57.0	28.5	22.8	G	6.3	36.6	2.0	2.5	91.0	91.7	91.7	0.82	0.87	0.89	2.69	17	37	362	72.0
		1765	284T	59.0	29.5	23.6	G	6.4	73.4	2.4	2.7	92.4	93.0	93.6	0.70	0.80	0.84	5.11	24	53	388	64.0
		1180	324T	60.8	30.4	24.3	G	6.2	110	2.1	2.6	91.7	93.0	93.0	0.65	0.77	0.82	11.5	26	57	560	62.0
		880	326T	71.8	35.9	28.7	G	5.2	147	2.0	2.3	89.5	91.0	91.0	0.51	0.64	0.71	11.9	23	51	509	56.0
30	22	3535	286TS	67.6	33.8	27.0	G	6.3	44.0	2.0	2.5	91.7	91.7	91.7	0.82	0.87	0.89	3.37	15	33	392	72.0
		1765	286T	70.2	35.1	28.1	G	6.4	88.1	2.4	2.7	93.0	93.0	93.6	0.70	0.80	0.84	5.85	20	44	437	64.0
		1180	326T	71.6	35.8	28.6	G	6.2	132	2.3	2.6	91.7	93.0	93.0	0.65	0.77	0.83	13.2	21	46	553	62.0
		880	364/5T	74.0	37.0	29.6	G	6.2	177	1.7	2.4	92.4	92.4	92.4	0.63	0.74	0.80	23.5	20	44	803	60.0
40	30	3555	324TS	91.6	45.8	36.6	G	6.4	58.3	2.3	2.4	91.7	92.4	92.4	0.82	0.87	0.89	4.90	22	48	547	74.0
		1775	324T	96.4	48.2	38.6	G	6.4	117	2.2	2.6	93.0	94.1	94.1	0.67	0.78	0.83	9.16	20	44	492	66.0
		1180	364/5T	93.0	46.5	37.2	G	6.4	176	2.0	2.4	93.6	93.6	94.1	0.73	0.82	0.86	29.0	21	46	833	64.0
		880	364/5T	100	50.0	40.0	G	6.0	235	1.7	2.3	92.4	93.0	92.4	0.66	0.76	0.81	29.0	18	40	875	60.0
50	37	3550	326TS	112	56.1	44.9	F	6.2	73.0	2.2	2.3	93.0	93.0	93.0	0.83	0.87	0.89	5.75	23	51	584	74.0
		1775	326T	118	59.2	47.4	H	6.7	146	2.3	2.7	93.0	94.1	94.5	0.66	0.77	0.83	9.16	15	33	536	66.0
		1180	364/5T	115	57.4	45.9	G	6.4	220	2.0	2.4	93.6	94.1	94.1	0.74	0.83	0.86	32.4	18	40	869	64.0
		880	404/5T	120	60.0	48.0	G	6.5	294	1.7	2.6	93.0	93.0	93.0	0.68	0.78	0.83	34.6	15	33	1012	60.0
60	45	3560	364/5TS	134	67.0	53.6	G	6.6	87.3	2.0	2.6	91.7	93.0	93.6	0.81	0.88	0.90	10.6	14	31	825	79.0
		1775	364/5T	137	68.3	54.6	G	6.6	175	2.4	2.6	94.1	94.5	95.0	0.75	0.83	0.87	22.4	15	33	869	67.0
		1180	404/5T	139	69.5	55.6	G	6.4	263	2.0	2.3	94.1	94.5	94.5	0.74	0.82	0.86	36.9	20	44	1036	64.0
		880	404/5T	146	73.0	58.4	H	6.5	353	1.8	2.7	93.0	93.0	93.0	0.68	0.78	0.83	40.2	13	29	1111	60.0
75	55	3555	364/5TS	164	81.9	65.5	G	6.6	109	2.0	2.6	92.4	93.6	93.6	0.83	0.88	0.90	11.9	10	22	847	79.0
		1775	364/5T	168	84.1	67.3	G	6.6	219	2.4	2.6	94.5	95.0	95.4	0.73	0.82	0.86	23.3	14	31	919	67.0
		1180	404/5T	170	84.9	67.9	G	6.4	329	2.0	2.3	94.1	94.5	94.5	0.74	0.83	0.86	40.2	17	37	1089	64.0
		890	444/5T	186	93.0	74.4	G	6.0	437	1.8	2.1	93.0	93.6	93.6	0.64	0.74	0.79	73.6	18	40	1444	63.0
100	75	3555	404/5TS	220	110	88.0	G	6.5	146	2.0	2.4	93.0	94.1	94.1	0.85	0.90	0.91	13.2	14	31	1045	79.0
		1775	404/5T	222	111	88.8	G	6.6	292	2.4	2.6	95.0	95.0	95.4	0.78	0.86	0.89	29.9	13	29	1140	68.0
		1185	444/5T	242	121	96.8	G	6.4	437	2.2	2.6	94.5	95.0	95.0	0.68	0.78	0.82	87.3	20	44	1577	69.0
		890	444/5T	254	127	102	G	6.0	582	1.9	2.2	93.6	94.1	94.1	0.63	0.74	0.79	87.3	15	33	1599	63.0
125	90	3570	444/5TS	268	134	107	F	6.5	181	2.0	2.5	93.6	94.5	95.0	0.82	0.87	0.89	33.5	29	64	1599	81.0
		1780	444/5T	278	139	111	G	6.5	364	2.0	2.5	95.0	95.4	95.4	0.74	0.82	0.85	57.2	27	59	1590	73.0
		1185	444/5T	286	143	114	G	6.4	547	2.1	2.4	95.0	95.4	95.0	0.70	0.79	0.83	104	19	42	1751	69.0
		890	504/5T	298	149	119	F	5.8	728	1.8	2.0	94.5	94.5	94.5	0.66	0.76	0.80	104	23	51	2110	66.0
		890	445/7T	302	151	121	G	6.0	728	1.8	2.1	94.5	94.5	94.5	0.64	0.74	0.79	104	17	37	1887	63.0

W22 IEEE 841-2009 NEMA Premium Efficiency Motors - TEFC (IP55)
Electrical Data

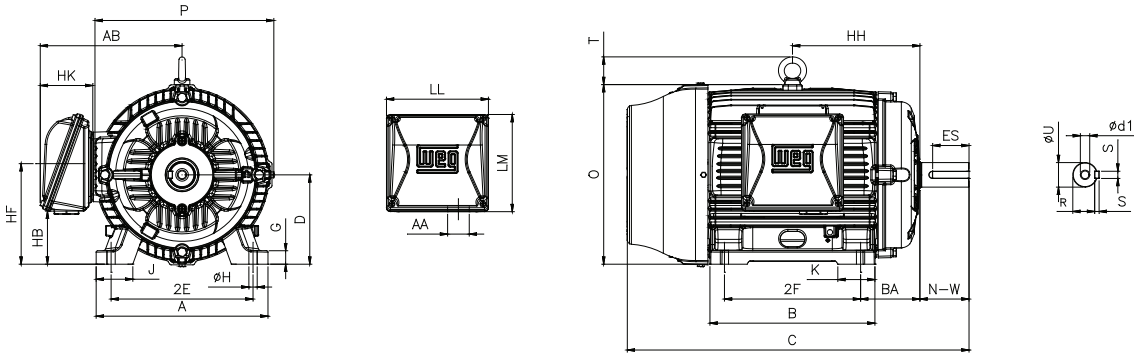
Rated Output		Full Load Speed	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load										
HP	kW	(RPM)		230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
		3570	444/5TS	322	161	129	F	6,5	218	1,8	2,4	94,1	95,0	95,0	0,83	0,88	0,90	39,1	22	48	1709	81,0
		1780	444/5T	340	170	136	G	6,6	437	2,0	2,5	95,4	95,8	95,8	0,74	0,82	0,85	66,7	27	59	1676	73,0
150	110	1190	445/7T	352	176	141	G	6,7	653	2,4	2,9	95,0	95,4	95,8	0,67	0,78	0,82	134	20	44	2042	69,0
		1190	504/5T	352	176	141	G	6,7	653	2,3	2,5	94,5	95,4	95,8	0,67	0,78	0,82	134	29	64	2249	70,0
		890	445/7T	370	185	148	G	6,0	873	1,9	2,1	94,5	94,5	94,5	0,64	0,74	0,79	125	15	33	2042	63,0
		890	504/5T	360	180	144	F	5,8	873	1,8	2,0	94,5	94,5	94,5	0,68	0,77	0,81	125	21	46	2293	66,0
		3570	445/7TS	438	219	175	G	7,2	290	2,4	2,4	95,0	95,4	95,4	0,86	0,89	0,90	44,7	14	31	1914	81,0
		3575	504/5TS	444	222	178	H	7,2	290	2,0	2,7	94,1	95,0	95,4	0,81	0,87	0,89	44,7	17	37	2168	81,0
		1780	445/7T	460	230	184	G	6,8	582	2,4	2,5	95,4	96,2	96,2	0,73	0,82	0,85	76,2	16	35	1899	---
200	150	1785	504/5T	456	228	182	G	6,6	580	2,2	2,2	95,4	96,2	96,2	0,75	0,83	0,86	76,2	22	48	2273	---
		1190	445/7T	474	237	190	G	6,6	871	2,3	2,4	95,0	95,4	95,8	0,68	0,79	0,83	145	15	33	2247	69,0
		1190	504/5T	474	237	190	G	6,6	871	2,2	2,3	95,0	95,4	95,8	0,70	0,80	0,83	145	21	46	2459	70,0
		895	586/7T	494	247	198	G	6,3	1158	1,4	2,1	95,0	95,4	95,4	0,65	0,75	0,80	350	40	88	3334	75,0
		890	L447/9T	484	242	194	G	6,1	1164	2,0	2,2	94,6	95,0	95,0	0,70	0,79	0,82	255	25	55	3550	64,0
		3570	445/7TS	532	266	213	F	6,5	363	2,3	2,2	95,4	95,8	95,8	0,87	0,90	0,91	50,3	18	40	2159	81,0
		3575	504/5TS	538	269	215	G	7,0	362	2,0	2,4	95,0	95,8	95,8	0,85	0,89	0,90	50,3	23	51	2388	81,0
		1780	445/7T	562	281	225	G	6,6	728	2,3	2,4	95,8	96,2	96,2	0,75	0,83	0,86	89,6	15	33	2079	73,0
250	185	1785	504/5T	554	277	222	G	6,6	726	2,3	2,2	95,8	96,2	96,2	0,78	0,85	0,87	89,6	20	44	2450	75,0
		1185	447/9T	584	292	234	G	6,7	1093	2,4	2,4	95,0	95,4	95,8	0,68	0,79	0,83	145	12	26	2538	---
		1190	586/7T	598	299	239	G	6,2	1088	2,0	2,1	95,0	95,4	95,8	0,68	0,77	0,81	226	30	66	3206	77,0
		895	586/7T	598	299	239	G	6,2	1447	1,4	2,1	95,4	95,8	95,8	0,66	0,76	0,81	395	40	88	3649	75,0
		890	L447/9T	594	297	238	G	6,1	1455	2,0	2,2	95,0	95,4	95,4	0,70	0,79	0,82	286	25	55	3704	64,0
		3570	447/9TS	640	320	256	G	7,0	435	2,5	2,4	95,4	95,8	95,8	0,86	0,89	0,90	58,1	14	31	2545	---
		3580	586/7TS	634	317	254	F	6,5	434	1,5	2,2	95,0	95,8	95,8	0,87	0,90	0,91	123	35	77	3382	84,0
300	220	1780	447/9T	660	330	264	G	6,5	873	2,3	2,3	95,8	96,2	96,2	0,77	0,84	0,87	89,6	16	35	2381	---
		1790	586/7T	668	334	267	G	6,8	868	2,3	2,3	95,4	96,2	96,2	0,77	0,84	0,86	161	19	42	3080	78,0
		1190	586/7T	712	356	285	G	6,0	1306	2,0	2,0	95,4	95,8	95,8	0,69	0,78	0,81	277	30	66	3495	77,0
		895	586/7T	712	356	285	G	6,5	1737	1,5	2,2	95,4	95,8	95,8	0,66	0,77	0,81	462	40	88	4035	75,0
		3580	586/7TS	746	373	298	G	6,6	507	1,6	2,3	95,4	96,2	96,2	0,86	0,90	0,91	136	28	62	3621	84,0
		1790	586/7T	788	394	315	G	6,4	1013	2,0	2,0	95,8	96,2	96,2	0,78	0,85	0,86	179	23	51	2675	78,0
350	260	1190	586/7T	842	421	337	G	6,3	1524	2,1	2,1	95,4	95,8	95,8	0,67	0,77	0,81	328	29	64	3784	77,0
		1190	L447/9T	808	404	323	G	6,5	1524	2,2	2,4	95,4	95,8	95,8	0,70	0,80	0,84	257	21	46	3574	71,0
		895	586/7T*	852	426	341	G	6,4	2026	1,6	2,3	95,4	95,8	95,8	0,64	0,75	0,80	484	34	75	4309	75,0
		3580	586/7TS	860	430	344	F	6,5	579	1,8	2,2	95,8	96,2	96,2	0,88	0,90	0,91	122	48	106	3749	84,0
		3575	L447/9TS	864	432	346	G	6,7	580	2,2	2,5	95,4	95,8	95,8	0,85	0,90	0,91	91,9	25	55	3158	88,0
400	300	1790	586/7T	910	455	364	G	6,4	1158	2,0	2,2	95,8	96,2	96,2	0,78	0,85	0,86	179	19	42	3455	78,0
		1790	L447/9T	910	455	364	H	7,0	1158	2,5	2,6	95,4	95,8	96,2	0,74	0,82	0,86	136	21	46	3285	79,0
		1190	586/7T	966	483	386	G	6,5	1741	2,3	2,1	95,4	95,8	96,2	0,67	0,77	0,81	368	29	64	4115	77,0
		895	588/9T	996	498	398	H	6,7	2315	1,5	2,4	95,0	95,6	95,7	0,62	0,73	0,79	0,0000	25	55	4851	75,0
		3580	586/7TS	946	473	378	F	6,6	651	2,0	2,3	95,8	96,2	96,2	0,88	0,90	0,91	132	34	75	3918	84,0
		3575	L447/9TS	950	475	380	G	7,2	652	2,4	2,6	95,4	95,8	95,8	0,84	0,89	0,91	100	26	57	3268	88,0
450	330	1790	586/7T	1002	501	401	G	6,8	1302	2,4	2,1	95,8	96,2	96,2	0,78	0,85	0,86	213	16	35	3640	78,0
		1790	L447/9T	1002	501	401	G	6,9	1302	2,6	2,5	95,4	96,2	96,2	0,74	0,83	0,86	152	22	48	3396	79,0
		1190	586/7T	1064	532	426	G	6,2	1959	2,1	2,1	95,8	96,2	96,2	0,67	0,77	0,81	368	26	57	4384	77,0
		3580	586/7TS	1060	530	424	G	6,8	724	2,2	2,4	95,8	96,2	96,2	0,88	0,90	0,91	143	39	86	4086	84,0
500	370	1790	586/7T	1110	555	444	G	6,5	1447	2,4	2,0	95,8	96,2	96,2	0,80	0,85	0,87	256	16	35	3912	78,0
		1190	586/7T	1206	603	482	G	6,5	2177	2,2	2,1	95,8	96,2	96,2	0,66	0,76	0,80	368	25	55	4403	77,0
550	400	1190	588/9T	1322	661	529	G	6,5	2395	2,2	2,3	95,2	96,0	96,1	0,63	0,74	0,79	389	30	66	4734	77,0
600	450	3585	588/9TS	1300	650	520	H	7,4	867	2,3	2,7	96,0	96,5	96,5	0,84	0,89	0,90	155	33	73	4410	89,0
		1790	586/7T	1330	665	532	G	7,1	1737	2,2	2,5	96,2	96,4	96,5	0,74	0,82	0,86	236	16	35	4335	78,0
650	480	3585	588/9TS	1370	685	548	G	7,1	939	2,0	2,4	96,1	96,6	96,6	0,86	0,90	0,91	176	56	123	4635	89,0
		1790	588/9T	1468	734	587	H	7,4	1881	2,5	2,7	96,0	96,5	96,6	0,71	0,81	0,85	301	22	48	4395	81,0
700	515	1790	588/9T	1576	788	630	G	7,0	2026	2,5	2,6	96,2	96,5	96,6	0,71	0,81	0,85	335	23	51	4584	81,0

W22 IEEE 841-2009 NEMA Premium Efficiency Motors - TEFC (IP55)
Mechanical Data

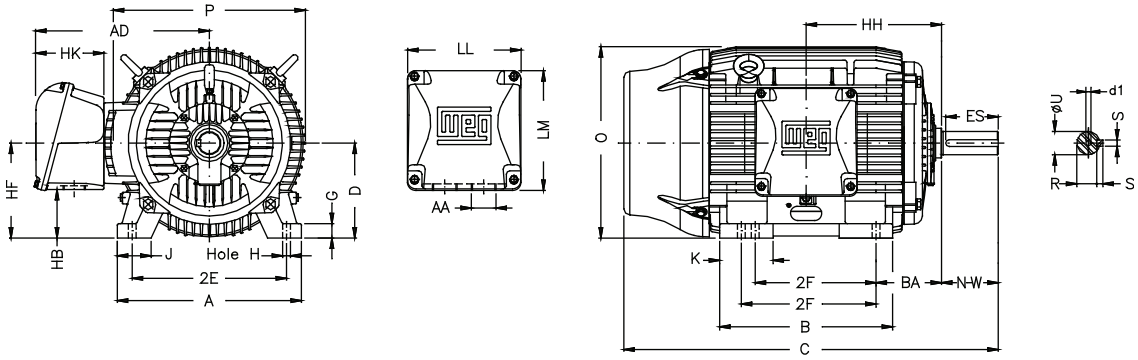
Frames 143T to 184T



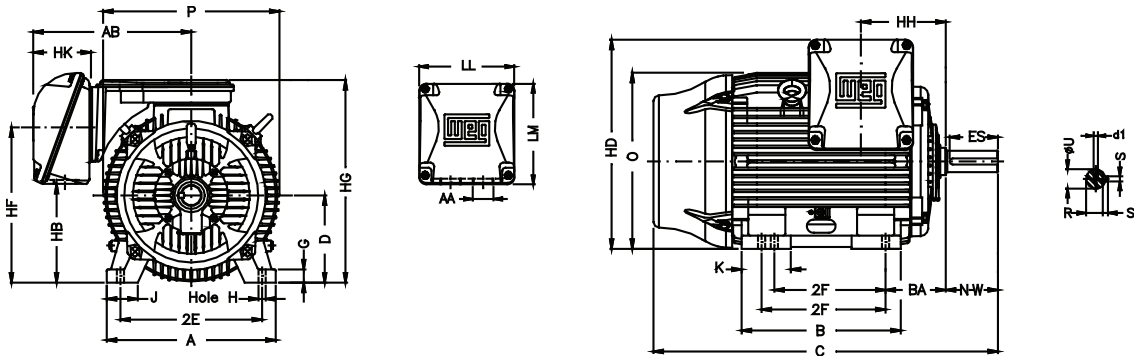
Frames 213T to 326T



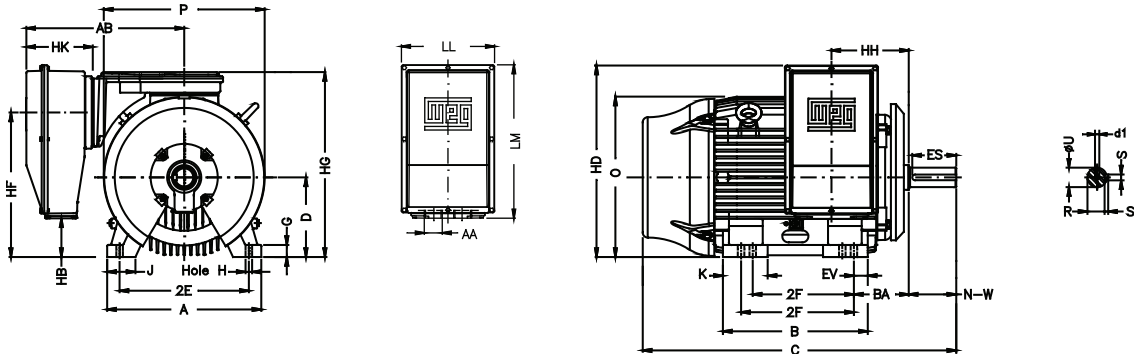
Frames 364 to 444/5T



Frames 445/7T to 586/7T



Frame 588/9T



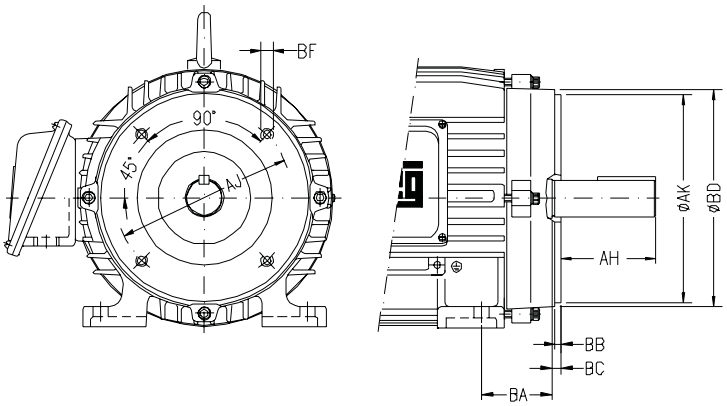
W22 IEEE 841-2009 NEMA Premium Efficiency Motors - TEFC (IP55)
Mechanical Data

NEMA Frames	MOUNTING				A	B	C	D	G	J	O	K	P	T	KEYWAY			SHAFT EXTENSION	
	2E	2F	H	BA											S	R	ES	N–W	U
143T	5.500	4.000	0.344	2.250	6.457	5.157	12.346	3.500	0.354	1.437	7.122	-	7.047	-	0.187	0.765	1.575	2.250	0.875
145T		5.000				6.142	13.346												
182T	7.500	4.500	0.406	2.750	8.661	5.945	14.860	4.500	0.394	1.594	9.343		8.740	1.772	0.250	0.984	1.969	2.750	1.125
184T		5.500				6.969	15.860												
213T	8.500	5.500		3.500	9.764	7.362	18.021	5.250	0.827	1.988	10.841	2.165	10.669		0.313	1.203	2.480	3.375	1.375
215T		7.000				8.858	19.517												
254T	10.000	8.252	0.531	4.250	12.126	10.000	23.213	6.250		2.539	12.598	2.559	12.953	2.087	0.375	1.406	2.756	4.000	1.625
256T		10.000				11.732	24.945												
284TS	11.000	9.500		4.750	13.780	11.575	25.061	7.000	1.023	3.110	14.067	2.874	14.173				2.480	3.250	
284T							26.433								0.500	1.594	3.149	4.622	1.875
286TS		11.000				13.071	26.557								0.375	1.406	2.480	3.250	1.625
286T							27.929								0.500	1.594	3.149	4.622	1.875
324TS	12.500	10.500	0.657	5.250	15.157		28.120	8.000	1.300	3.189	15.953	3.189	15.827	2.441			2.756	3.750	
324T							29.620									1.844	3.937	5.250	2.125
326TS		12.000				14.567	29.616									1.594	2.756	3.750	1.875
326T							31.116									1.844	3.937	5.250	2.125
364/5TS	14.016	11.260 / 12.244	0.660	5.875	17.165	16.220	32.276	9.000	1.480	3.150	17.957	4.921	17.914	-		1.591	1.968	3.748	1.875
364/5T							34.251								0.625	2.019	4.330	5.874	2.375
404/5TS	15.984	12.244 / 13.740	0.810	6.625	19.921	18.386	36.732	10.000	1.811	3.937	19.566	5.669	19.134		0.500	1.842	2.756	4.250	2.125
404/5T							39.730								0.750	2.449	5.512	7.250	2.875
444/5TS	18.000	14.500 / 16.500		7.500	21.929	20.315	41.200	11.000	1.630		22.795	5.866	23.583	4.620	0.625	2.021	3.000	4.750	2.375
444/5T							44.950								0.875	2.880	7.087	8.500	3.375
445/7TS		16.500 / 20.000				23.897	44.951		1.654						0.625	2.021	3.000	4.750	2.375
445/7T							48.701								0.875	2.880	7.087	8.500	3.375
447/9TS		20.000 / 25.000				31.535	52.588		1.630	4.331		6.692			0.625	2.021	3.000	4.750	2.375
447/9T							56.338								0.875	2.880	7.087	8.500	3.375
L447/9TS		20.000 / 25.000					53.431			3.937	23.874	8.780	25.866		0.625	2.021	3.000	4.750	2.375
L447/9T							57.181								0.875	2.880	7.087	8.500	3.375
504/5TS	20.000	16.000 / 18.000	1.250	8.500	24.724	24.449	48.215	12.500	2.146	4.724	25.425	7.228		4.880	0.625	2.021	3.000	4.750	2.375
504/5T							54.095								0.875	3.134	8.661	10.630	3.625
586/7TS	23.000	22.000 / 25.000	1.181	10.000	29.528	29.921	55.027	14.500	2.492	5.512	28.985	9.055	28.977	5.590	0.625	2.021	3.000	4.750	2.375
586/7T							61.902								1.000	3.312	8.661	11.625	3.875
588/9TS		28.000 / 32.000				37.980	62.506					12.795		8.464	0.625	2.021	3.000	4.750	2.375
588/9T							69.381								1.000	3.312	8.661	11.625	3.875

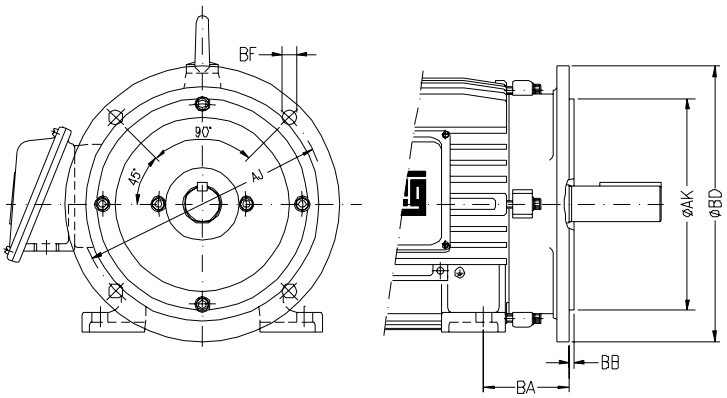
NEMA Frames	TERMINAL BOX									d1	BEARINGS	
	AB	HB	HF	HG	HH	HK	LL	LM	AA		D.E.	N.D.E
143T	6.181	1.728	3.500	-	4.250	2.638	4.527	4.094	NPT3/4"	A 4	6205	6204
145T					4.750							
182T	7.559	2.236	4.500		5.000	3.110	5.512	5.236	NPT1"		6207	6206
184T					5.500							
213T	8.583	3.006	5.250		6.250						6308	6207
215T					7.000							
254T	10.394	3.061	6.565		8.376	3.937	7.795	7.402	NPT1 1/2"		6309 C3	6209 C3
256T					9.250							
284TS	10.984	3.535	7.000		9.500						6311 C3	6211 C3
284T												
286TS					10.250							
286T												
324TS	12.480	4.811	8.708		10.500	4.645	8.976	8.543	NPT 2"		6312 C3	6212 C3
324T												
326TS					11.250							
326T												
364/5TS	16.378	4.055	-		12.362	6.378	9.646	10.119	NPT 3"		6314 C3	6314 C3
364/5T												
404/5TS		5.040			14.213						6316 C3	
404/5T											6314 C3	
444/5TS	18.386	5.394			15.748	5.787	11.811	11.890	2xNPT 3"		6319 C3	6316 C3
444/5T												
445/7TS	20.670	12.598	20.724	26.850	11.803	6.968	14.646	15.040		UNC 3/4"-10	6314 C3	6314 C3
445/7T											6319 C3	6316 C3
447/9TS											6314 C3	6314 C3
447/9T											6322 C3	6319 C3
L447/9TS	23.071	11.417	20.551	28.236	11.500	8.464	15.906	17.244			6314 C3	6314 C3
L447/9T											6322 C3	6319 C3
504/5TS	20.670	15.275	24.291	29.409	10.394	6.968	14.646	15.040			6314 C3	6314 C3
504/5T											6319 C3	6316 C3
586/7TS	23.977	17.322	26.182	33.346	13.386	8.464	15.906	17.244			6314 C3	6314 C3
586/7T										UNC 7/8"-9	6322 C3	6319 C3
588/9TS	27.600	6.063				12.519 (side mounted) / 13.977(top mounted)	17.441	28.740		UNC 3/4"-10	6314 C3	6314 C3
588/9T										UNC 7/8"-9	6322 C3	6319 C3

W22 IEEE 841-2009 NEMA Premium Efficiency Motors - TEFC (IP55)
Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143TC	2.250	5.875	4.500	6.500	4	UNC 3/8"x16	0.156	0.125	2.125
145TC									
182TC	2.750	7.250	8.500	8.875		UNC 1/2"x13	0.250	0.250	2.625
184TC									
213TC	3.500								3.125
215TC									
254TC	4.250								3.75
256TC									
284TC	4.750	9.000	10.500	11.031					4.375
284TSC									3.000
286TC									4.375
286TSC									3.000
324TC	5.250	11.000	12.500	13.583		UNC 5/8"x11			5.000
324TSC									3.500
326TC									5.000
326TSC									3.500
364/5TC	5.875			15.551	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500
445/7TC									8.250
445/7TSC									4.500
447/9TC									8.250
447/9TSC									4.500
504/5TC	8.500	14.500	16.500						10.375
504/5TSC									4.500
586/7TC	10.000								11.375
586/7TSC									4.500
588/9TC									11.375
588/9TSC									4.500



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143TD	2.250	10.000	9.000	11.000	4	0.562	0.203
145TD							
182TD	2.750						
184TD							
213TD	3.500						
215TD							
254TD	4.250	12.500	11.000	14.000		0.828	
256TD							
284TD	4.750						
284TSD							
286TD							
286TSD							
324TD	5.250	16.000	14.000	18.000			
324TSD							
326TD							
326TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	22.000	8		
404/5TSD							
444/5TD	7.500			21.653			
444/5TSD							
445/7TD							
445/7TSD							
447/9TD							
447/9TSD							
504/5TD	8.500	22.000	18.000	24.803			0.250
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							
588/9TD							
588/9TSD							



High Efficiency Explosion Proof Motors - Three Phase
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan) - CSA C390
- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 2, 4, 6 & 8 pole, 60 & 50 Hz
- Voltage: 230/460, 460 or 575V
- Totally Enclosed Fan Cooled - (IP55)
- Squirrel cage rotor / Aluminum die cast
- Class 'F' insulation
- 104°F (40°C) ambient temperature
- Temperature rise: Class 'B' (80°C)
- Altitude: 3300 ft (1000 m)
- NEMA ratings design 'B'
- 1045 heat treated and stress relieved carbon steel shaft up to 365T. 4140 for frame 404T and up
- Continuous Duty (S1)
- NEMA dimensions
- Non-sparking fan
- Service factor: 1.15
- Stainless steel nameplate
- Thermostats
- F1 mount
- NPT threaded terminal box conduit hole
- Color: RAL 5009 - (Blue)
- WEG paint plan 201A
- Regreasable bearings, positive pressure lubrication system (frames 364T and up)

Optional Features

- C and D flanges available for all frames
- F2 mount
- Special Voltages and frequency
- Stainless steel shaft
- IP56
- Washdown Duty

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- Inverter Duty Certified for 12:1 CT & 1000:1 VT *
- Inverter Duty Certified for 100:1 CT with a WEG VFD running in Optimized Flux mode
- Inverter Duty CSA certified for Division 1, Class I, Groups C & D and Division 1, Class II, Groups F & G

* 449T and 586/7T frame sizes not included. Other speed ranges available. Call for specific ratings

TEMP CODE T4
CSA / UL: Class I – Division 1 – Groups C and D
CSA: Class II – Division 1 – Groups F and G
CSA: Class I, Zone 1, IIB

APPROVED BY
LR 50962
E 87848
EEV 78282

High Efficiency Explosion Proof Motors - Three Phase
Purchasing Data

High Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	3600	143T	$781	933	1,024	HX000X02P	1.43	1.14	78.5	59	12.760	0.875
	1800	143T	814	972	1,067	HX000X04P	1.49	1.19	82.5	62	12.760	0.875
	1200	145T	1,004	1,162	1,257	HX000X06P	1.70	1.36	80.0	70	13.752	0.875
	900	182T	1,262	1,484	1,531	HX000X08P	2.31	1.85	74.0	111	14.862	1.125
1.5	3600	143T	936	1,094	1,189	HX001X02P	2.06	1.65	82.5	61	12.760	0.875
	1800	145T	846	1,004	1,099	HX001X04P	2.05	1.64	84.0	68	13.752	0.875
	1200	182T	1,117	1,339	1,386	HX001X06P	2.38	1.90	85.5	118	14.862	1.125
	900	184T	1,393	1,615	1,662	HX001X08P	2.71	2.17	77.0	122	15.862	1.125
2	3600	145T	1,006	1,164	1,259	HX002X02P	2.60	2.08	84.0	65	13.752	0.875
	1800	145T	908	1,066	1,161	HX002X04P	2.70	2.16	84.0	70	13.752	0.875
	1200	184T	1,192	1,414	1,461	HX002X06P	3.20	2.56	86.5	129	15.862	1.125
	900	213T	1,724	2,009	2,035	HX002X08P	3.46	2.77	82.5	141	17.952	1.375
3	3600	182T	1,138	1,360	1,407	HX003X02P	3.71	2.97	85.5	90	14.862	1.125
	1800	182T	1,194	1,416	1,463	HX003X04P	3.90	3.12	87.5	115	14.862	1.125
	1200	213T	1,553	1,838	1,864	HX003X06P	4.26	3.41	87.5	291	17.952	1.375
	900	215T	1,883	2,168	2,194	HX003X08P	4.39	3.51	84.0	199	19.450	1.375
5	3600	184T	1,373	1,595	1,642	HX005X02P	5.90	4.72	87.5	106	15.862	1.125
	1800	184T	1,321	1,543	1,590	HX005X04P	6.48	5.18	87.5	130	15.862	1.125
	1200	215T	1,872	2,157	2,183	HX005X06P	6.80	5.44	87.5	219	19.450	1.375
	900	254T	2,198	2,631	2,641	HX005X08P	7.99	6.39	85.5	304	23.175	1.625
7.5	3600	213T	1,769	2,054	2,080	HX007X02P	8.66	6.93	88.5	191	17.952	1.375
	1800	213T	1,703	1,988	2,014	HX007X04P	9.53	7.62	89.5	186	17.952	1.375
	1200	254T	2,426	2,859	2,869	HX007X06P	9.53	7.62	89.5	288	23.175	1.625
	900	256T	2,833	3,266	3,276	HX007X08P	11.2	8.99	86.5	329	24.923	1.625
10	3600	215T	2,019	2,304	2,330	HX010X02P	11.7	9.35	89.5	201	19.450	1.375
	1800	215T	2,036	2,321	2,347	HX010X04P	12.8	10.2	90.2	207	19.450	1.375
	1200	256T	3,086	3,519	3,529	HX010X06P	13.4	10.7	89.5	310	24.923	1.625
	900	284T	4,000	4,475	4,559	HX010X08P	13.6	10.9	88.5	467	26.407	1.875
15	3600	254T	2,773	3,206	3,216	HX015X02P	17.0	13.6	90.2	317	23.175	1.625
	1800	254T	2,806	3,239	3,249	HX015X04P	17.9	14.3	91.0	328	23.175	1.625
	1200	284T	3,981	4,456	4,540	HX015X06P	17.3	13.8	91.0	462	26.407	1.875
	900	286T	4,743	5,218	5,302	HX015X08P	19.0	15.2	88.5	507	27.905	1.875
20	3600	256T	3,207	3,640	3,650	HX020X02P	23.3	18.6	90.2	358	24.923	1.625
	1800	256T	3,244	3,677	3,687	HX020X04P	24.4	19.5	91.0	273	24.923	1.625
	1200	286T	4,426	4,901	4,985	HX020X06P	23.5	18.8	91.0	501	27.905	1.875
	900	324T	5,902	6,483	6,588	HX020X08P	28.0	22.4	89.5	512	29.602	2.125
25	3600	284TS	3,829	4,304	4,388	HX025X02P	29.0	23.2	91.0	434	25.033	1.625
	1800	284T	3,948	4,423	4,507	HX025X04P	29.6	23.7	92.4	472	26.407	1.875
	1200	324T	5,527	6,108	6,213	HX025X06P	29.8	23.8	91.7	614	29.602	2.125
	900	326T	6,675	7,256	7,361	HX025X08P	35.5	28.4	89.5	673	31.106	2.125
30	3600	286TS	4,673	5,148	5,232	HX030X02P	33.8	27.0	91.0	487	26.531	1.625
	1800	286T	4,283	4,758	4,842	HX030X04P	34.4	27.5	92.4	511	27.905	1.875
	1200	326T	6,561	7,142	7,247	HX030X06P	35.4	28.3	91.7	678	31.106	2.125
	900	364/5T	9,272	10,359	10,634	HX030X08P	38.4	30.7	91.0	911	33.701	2.375
40	3600	324TS	5,524	6,105	6,210	HX040X02P	46.1	36.9	91.7	626	28.102	1.875
	1800	324T	6,134	6,715	6,820	HX040X04P	47.6	38.1	93.0	621	29.602	2.125
	1200	364/5T	9,066	10,153	10,428	HX040X06P	47.1	37.7	93.0	1,012	33.701	2.375
	900	364/5T	9,369	10,456	10,731	HX040X08P	52.4	41.9	91.0	953	33.701	2.375
50	3600	326TS	7,302	7,883	7,988	HX050X02P	56.5	45.2	92.4	669	29.606	1.875
	1800	326T	6,727	7,308	7,412	HX050X04P	57.8	46.2	93.6	686	31.106	2.125
	1200	364/5T	9,478	10,565	10,840	HX050X06P	58.1	46.5	93.0	1,010	33.701	2.375
	900	404/5T	11,945	13,032	13,307	HX050X08P	64.9	51.9	91.7	1,169	38.074	2.875
60	3600	364/5TS	8,669	9,756	10,031	HX060X02P	69.0	55.2	93.0	937	31.575	1.875
	1800	364/5T	8,573	9,660	9,935	HX060X04P	67.0	53.6	93.6	929	33.701	2.375
	1200	404/5T	11,944	13,031	13,306	HX060X06P	70.1	56.1	93.6	1,176	38.074	2.875
	900	404/5T	12,185	13,272	13,547	HX060X08P	77.0	61.6	91.7	1,308	38.074	2.875
75	3600	364/5TS	9,429	10,516	10,791	HX075X02P	82.5	66.0	93.0	1,012	31.575	1.875
	1800	364/5T	8,940	10,027	10,302	HX075X04P	82.4	65.9	94.1	1,003	33.701	2.375
	1200	404/5T	12,132	13,219	13,494	HX075X06P	86.8	69.4	93.6	1,211	38.074	2.875
	900	444/5T	17,887	19,565	19,639	HX075X08P	90.5	72.4	93.0	1,911	43.797	3.375
100	3600	404/5TS	10,669	11,756	12,031	HX100X02P	113	90.4	93.6	1,142	35.074	2.125
	1800	404/5T	11,750	12,837	13,112	HX100X04P	115	91.6	94.5	1,221	38.074	2.875
	1200	444/5T	17,599	19,277	19,351	HX100X06P	121	96.4	94.1	1,544	43.797	3.375
	900	444/5T	18,996	20,674	20,748	HX100X08P	123	98.7	93.0	2,054	43.797	3.375
125	3600	444/5TS	18,362	20,040	20,114	HX125X02P	131	105	94.5	1,625	40.047	2.375
	1800	444/5T	16,448	18,126	18,200	HX125X04P	138	110	94.5	1,860	43.797	3.375
	1200	444/5T	18,084	19,762	19,836	HX125X06P	141	113	94.1	1,874	43.797	3.375
	900	504/5T	24,655	26,829	26,851	HX125X08P	148	118	93.6	2,044	49.445	3.625
	900	447T	24,655	26,333	26,407	HX125X08P447T	153	122	93.6	2,342	47.339	3.375

Flange: For C Flange add 'C' to end of part number
For D Flange add 'D' to end of part number
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

High Efficiency Explosion Proof Motors - Three Phase
Purchasing Data

High Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
150	3600	444/5TS	$18,166	$19,844	$19,918	HX150X02P	160	128	94.5	1,689	40.047	2.375
	1800	444/5T	17,416	19,094	19,168	HX150X04P	168	134	95.0	2,023	43.797	3.375
	1200	504/5T	25,872	28,046	28,068	HX150X06P	171	137	95.0	2,425	49.445	3.625
	1200	447T	25,872	27,550	27,624	HX150X06P447T	171	137	95.0	2,395	47.339	3.375
	900	504/5T	28,675	30,849	30,871	HX150X08P	178	142	93.6	2,273	49.445	3.625
	900	447T	28,675	30,353	30,427	HX150X08P447T	178	142	93.6	2,690	47.339	3.375
200	3600	504/5TS	24,427	26,601	26,623	HX200X02P	223	178	95.0	1,874	46.875	2.875
	3600	447TS	24,427	26,105	26,179	HX200X02P447TS	223	178	95.0	2,403	45.589	2.375
	1800	504/5T	21,981	24,155	24,117	HX200X04P	230	184	95.0	1,996	49.445	3.625
	1800	447T	21,981	24,155	23,733	HX200X04P447T	230	184	95.0	2,412	47.339	3.375
	1200	504/5T	26,134	28,308	28,330	HX200X06P	236	189	95.0	1,884	49.445	3.625
	1200	447T	26,134	27,812	27,886	HX200X06P447T	236	189	95.0	2,646	47.339	3.375
	900	586/7T	43,903	47,005	47,104	HX200X08P	263	210	94.5	3,815	61.389	3.875
	900	449T	38,060	40,074	40,162	HX200X08P449T	265	212	94.5	3,197	54.996	3.375
250	3600	504/5TS	26,816	28,990	29,012	HX250X02P	268	214	95.4	2,068	46.875	2.875
	3600	447TS	26,816	28,494	28,568	HX250X02P447TS	268	214	95.4	2,542	45.589	2.375
	1800	504/5T	26,240	28,414	28,436	HX250X04P	283	226	95.4	2,315	49.445	3.625
	1800	447T	26,240	27,918	27,992	HX250X04P447T	283	226	95.4	2,597	47.339	3.375
	1200	586/7T	45,154	48,220	48,319	HX250X06P	305	244	95.0	3,605	61.389	3.875
	1200	449T	39,130	41,144	41,232	HX250X06P449T	298	238	95.0	2,977	54.996	3.375
	900	586/7T	45,587	48,689	48,788	HX250X08P	318	254	95.0	4,245	61.389	3.875
300	3600	586/7TS	44,509	47,611	47,710	HX300X02P	325	260	95.4	2,977	54.514	2.375
	3600	449TS	39,352	41,366	41,454	HX300X02P449TS	320	256	95.8	2,977	51.246	2.375
	1800	586/7T	40,264	43,330	43,429	HX300X04P	329	263	95.4	3,440	61.389	3.875
	1800	449T	35,396	37,410	37,498	HX300X04P449T	333	266	95.4	2,977	54.996	3.375
	1200	586/7T	46,712	49,778	49,877	HX300X06P	355	284	95.0	4,090	61.389	3.875
	1200	449T	41,662	43,676	43,764	HX300X06P449T	364	291	95.0	3,308	54.996	3.375
	900	586/7T	57,380	60,446	60,545	HX300X08P	368	294	95.0	4,476	61.389	3.875
350	3600	586/7TS	51,201	54,267	54,366	HX350X02P	384	307	95.4	3,208	54.514	2.375
	3600	449TS	45,111	47,125	47,213	HX350X02P449TS	379	303	95.8	3,197	51.246	2.375
	1800	586/7T	43,926	47,028	47,127	HX350X04P	398	318	95.4	3,903	61.389	3.875
	1800	449T	38,116	40,130	40,218	HX350X04P449T	394	315	95.4	3,308	54.996	3.375
	1200	586/7T	54,439	57,505	57,604	HX350X06P	428	342	95.4	4,322	61.389	3.875
	900	586/7T	57,380	60,446	60,545	HX350X08P	440	352	95.0	4,631	61.389	3.875
400	1800	586/7T	47,032	50,098	50,197	HX400X04P	459	367	95.4	4,248	61.389	3.875
	1200	586/7T	62,828	65,894	65,993	HX400X06P	481	385	95.4	4,564	61.389	3.875
450	1800	586/7T	50,198	53,264	53,363	HX450X04P	505	404	95.4	4,807	61.389	3.875
500	1800	586/7T	54,953	58,019	58,118	HX500X04P	564	451	95.8	5,027	61.389	3.875

Flange: For C Flange add 'C' to end of part number
For D Flange add 'D' to end of part number
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

High Efficiency Explosion Proof Motors - Three Phase
Electrical Data

Rated Output		Full Load Speed	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW	(RPM)		230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		3495	143T	2.85	1.43	1.14	M	9.0	1.48	3.0	4.0	72.0	77.0	78.5	0.69	0.79	0.84	1.25	0.03726	23	51	59	68
1	0.75	1765	143T	2.98	1.49	1.19	M	8.6	2.94	2.9	4.0	77.0	80.0	82.5	0.55	0.69	0.77	1.25	0.09302	16	35	62	51
		1155	145T	3.40	1.70	1.36	L	6.8	4.49	2.3	3.0	75.5	80.0	80.0	0.48	0.60	0.69	1.25	0.13289	22	48	70	49
		875	182T	4.63	2.31	1.85	M	6.0	5.92	3.0	3.5	68.0	72.0	74.0	0.35	0.45	0.55	1.25	0.39914	40	88	111	50
		3500	143T	4.13	2.06	1.65	M	9.2	2.22	3.0	4.0	75.5	81.5	82.5	0.64	0.74	0.81	1.25	0.04295	17	37	61	68
1.5	1.1	1760	145T	4.10	2.05	1.64	L	8.5	4.42	2.7	3.7	80.0	84.0	84.0	0.60	0.72	0.80	1.25	0.11960	13	29	68	51
		1165	182T	4.75	2.38	1.90	L	7.5	6.67	2.9	3.6	81.5	84.0	85.5	0.47	0.58	0.68	1.15	0.39914	36	79	118	52
		860	184T	5.43	2.71	2.17	J	5.5	9.04	2.5	2.6	74.0	75.5	77.0	0.47	0.58	0.66	1.25	0.44375	32	70	122	50
		3480	145T	5.20	2.60	2.08	L	9.4	2.98	2.8	4.0	80.0	82.5	84.0	0.70	0.81	0.86	1.15	0.04865	12	26	65	68
2	1.5	1750	145T	5.40	2.70	2.16	K	7.7	5.92	2.4	3.0	81.5	84.0	84.0	0.63	0.74	0.83	1.25	0.13289	11	24	70	51
		1165	184T	6.40	3.20	2.56	L	7.5	8.89	3.0	3.0	84.0	86.5	86.5	0.48	0.60	0.68	1.15	0.53226	35	77	129	52
		870	213T	6.93	3.46	2.77	L	6.6	11.9	2.4	2.9	78.5	81.5	82.5	0.47	0.53	0.66	1.25	1.19101	43	95	141	52
		3500	182T	7.43	3.71	2.97	K	8.2	4.44	2.5	4.0	80.0	84.0	85.5	0.74	0.83	0.87	1.15	0.15425	23	51	90	69
3	2.2	1765	182T	7.80	3.90	3.12	K	7.9	8.81	2.3	3.2	85.5	87.5	87.5	0.65	0.75	0.81	1.15	0.28595	31	68	115	56
		1170	213T	8.53	4.26	3.41	J	7.0	13.3	2.2	2.5	86.5	87.5	87.5	0.53	0.65	0.74	1.25	1.01185	59	130	291	55
		860	215T	8.78	4.39	3.51	J	6.2	18.1	2.0	2.1	82.5	84.0	84.0	0.57	0.69	0.75	1.15	1.78616	30	66	199	52
		3480	184T	11.8	5.90	4.72	J	7.7	7.44	2.3	3.3	84.0	86.5	87.5	0.80	0.86	0.90	1.25	0.19981	23	51	106	69
		3515	213T	11.9	5.96	4.77	H	6.7	7.37	2.2	3.0	81.5	85.5	87.5	0.79	0.86	0.89	1.15	0.39938	30	66	128	72
5	3.7	1750	184T	13.0	6.48	5.18	J	7.1	14.8	2.1	3.0	85.5	87.5	87.5	0.66	0.77	0.82	1.25	0.38134	21	46	130	56
		1160	215T	13.6	6.80	5.44	H	6.1	22.3	1.8	2.1	86.5	87.5	87.5	0.65	0.75	0.78	1.25	1.47174	49	108	219	55
		875	254T	16.0	7.99	6.39	H	5.3	29.6	2.0	2.8	82.1	85.0	85.5	0.47	0.60	0.68	1.25	2.89720	37	81	304	54
		3515	213T	17.3	8.66	6.93	H	7.1	11.1	2.2	3.5	85.5	87.5	88.5	0.80	0.87	0.90	1.25	0.48789	26	57	191	72
7.5	5.5	1765	213T	19.1	9.53	7.62	H	6.4	22.0	2.0	2.6	87.5	89.5	89.5	0.64	0.75	0.81	1.25	1.01185	21	46	186	58
		1170	254T	19.1	9.53	7.62	H	6.8	33.2	2.3	3.1	88.5	89.5	89.5	0.62	0.74	0.81	1.25	2.55643	29	64	288	59
		875	256T	22.5	11.2	8.99	G	5.2	44.4	1.9	2.7	83.4	85.9	86.5	0.51	0.63	0.71	1.25	3.40858	41	90	329	54
		3500	215T	23.4	11.7	9.35	H	6.9	14.8	2.2	2.8	88.5	89.5	89.5	0.81	0.88	0.90	1.25	0.57664	20	44	201	72
10	7.5	1760	215T	25.5	12.8	10.2	H	6.5	29.4	2.0	2.6	88.5	90.2	90.2	0.67	0.78	0.82	1.25	1.37990	17	37	207	58
		1175	256T	26.8	13.4	10.7	J	6.9	44.1	2.3	2.9	88.5	89.5	89.5	0.58	0.72	0.79	1.25	2.89720	22	48	310	59
		885	284T	27.3	13.6	10.9	H	6.0	58.5	2.5	2.4	86.5	88.5	88.5	0.60	0.72	0.78	1.25	7.19897	53	117	467	54
		3520	254T	34.0	17.0	13.6	G	6.3	22.1	2.0	2.7	88.5	90.2	90.2	0.83	0.89	0.90	1.25	1.25650	28	62	317	75
15	11	1760	254T	35.8	17.9	14.3	G	6.4	44.2	2.5	2.5	89.5	91.0	91.0	0.70	0.80	0.85	1.25	2.38178	27	59	328	69
		1180	284T	34.5	17.3	13.8	G	6.7	65.9	2.3	2.5	89.5	90.2	91.0	0.79	0.85	0.88	1.25	7.19921	21	46	462	59
		880	286T	38.0	19.0	15.2	G	6.1	88.3	2.4	2.3	86.5	88.5	88.5	0.68	0.78	0.82	1.25	8.18092	37	81	507	54
		3520	256T	46.5	23.3	18.6	G	6.2	29.4	2.0	2.5	89.5	90.2	90.2	0.86	0.90	0.90	1.25	1.53581	21	46	358	75
20	15	1755	256T	48.8	24.4	19.5	G	5.9	59.0	2.4	2.4	89.5	91.0	91.0	0.72	0.81	0.85	1.25	2.85804	18	40	273	69
		1175	286T	47.0	23.5	18.8	G	6.3	88.2	2.3	2.5	90.2	91.0	91.0	0.80	0.86	0.88	1.25	8.18092	31	68	501	59
		880	324T	56.0	28.0	22.4	G	5.3	118	2.2	2.2	87.5	89.5	89.5	0.56	0.68	0.75	1.25	9.79052	47	103	512	56
		3525	284TS	58.0	29.0	23.2	G	6.2	36.7	2.0	2.5	90.2	91.0	91.0	0.84	0.87	0.88	1.25	2.28947	23	51	434	75
25	18.5	1760	284T	59.3	29.6	23.7	G	6.1	73.6	2.2	2.5	91.7	92.4	92.4	0.72	0.82	0.85	1.15	4.68264	51	112	472	68
		1175	324T	59.5	29.8	23.8	F	5.9	110	2.2	2.4	89.5	91.7	91.7	0.72	0.81	0.85	1.25	10.2162	56	123	614	62
		880	326T	71.0	35.5	28.4	G	5.1	147	2.4	2.4	87.5	88.5	89.5	0.53	0.65	0.73	1.25	11.9189	52	114	673	56
		3520	286TS	67.5	33.8	27.0	G	6.4	44.2	1.9	2.3	90.2	91.0	91.0	0.84	0.88	0.90	1.25	2.82838	19	42	487	75
30	22	1755	286T	68.8	34.4	27.5	G	6.3	88.6	2.4	2.6	92.4	93.0	92.4	0.75	0.83	0.87	1.25	5.32122	22	48	511	68
		1175	326T	70.8	35.4	28.3	G	6.1	132	2.3	2.5	90.2	91.7	91.7	0.70	0.80	0.85	1.25	11.9189	35	77	678	62
		885	364/5T	76.8	38.4	30.7	G	5.7	176	2.2	2.2	89.5	91.0	91.0	0.66	0.75	0.79	1.25	23.4554	48	106	911	60
		3550	324TS	92.3	46.1	36.9	G	6.4	58.4	2.3	2.4	91.0	91.7	91.7	0.84	0.88	0.89	1.25	4.89550	36	79	626	81
40	30	1770	324T	95.3	47.6	38.1	G	6.0	117	2.3	2.3	91.7	93.0	93.0	0.76	0.83	0.85	1.25	7.85344	28	62	621	71
		1175	364/5T	94.3	47.1	37.7	G	6.3	176	2.3	2.3	92.4	93.0	93.0	0.76	0.83	0.86	1.25	23.4554	35	77	1012	65
		885	365T	105	52.4	41.9	G	5.6	234	2.2	2.2	89.5	91.0	91.0	0.66	0.75	0.79	1.25	29.0401	42	92	953	60
		3555	326TS	113	56.5	45.2	G	6.5	72.9	2.3	2.3	91.0	92.4	92.4	0.83	0.88	0.89	1.25	5.32122	33	73	669	81
50	37	1770	326T	116	57.8	46.2	G	6.1	146	2.3	2.3	92.4	93.6	93.6	0.77	0.83	0.86	1.25	9.16263	25	55	686	71
		1180	365T	116	58.1	46.5	G	6.3	220	2.5	2.7	92.4	93.0	93.0	0.74	0.82	0.86	1.25	29.0401	39	86	1010	65
		885	404T	130	64.9	51.9	G	5.6	293	2.2	2.1	90.2	91.7	91.7	0.69	0.75	0.78	1.25	34.6247	27	59	1169	60
		3555	364/5TS	138	69.0	55.2	G	6.3	87.4	2.0	2.5	91.0	92.4	93.0	0.80	0.87	0.88	1.25	8.51337	61	134	937	85
60	45	1775	364/5T	134	67.0	53.6	G	6.4	175	2.0	2.3	93.0	93.6	93.6	0.80	0.87	0.90	1.25	17.4382	23	51	929	75
		1180	404T	140	70.1	56.1	G	6.3	263	2.5	2.7	93.0	93.6	93.6	0.74	0.83	0.86	1.25	34.6247	32	70	1176	65
		885	405T	154	77.0	61.6	G	5.8	351	1.7	2.1	91.0	91.7	91.7	0.70	0.76	0.80	1.25	36.8586	13	29	1308	60

* ΔT 105K.

High Efficiency Explosion Proof Motors - Three Phase
Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
75	55	3550	365TS	165	82.5	66.0	G	6.5	109	2.0	2.6	91.7	93.0	93.0	0.83	0.89	0.90	1.25	10.6420	46	101	1012	85
		1775	365T	165	82.4	65.9	G	6.5	219	2.2	2.4	93.6	94.1	94.1	0.82	0.87	0.89	1.25	19.9294	22	48	1003	75
		1175	405T	174	86.8	69.4	G	6.3	331	2.5	2.6	93.0	93.6	93.6	0.72	0.81	0.85	1.25	36.8584	23	51	1211	65
		890	444T	181	90.5	72.4	G	6.1	437	1.7	2.1	91.7	92.4	93.0	0.69	0.78	0.82	1.25	73.6254	38	84	1911	63
100	75	3550	405TS	226	113	90.4	G	6.4	146	2.0	2.4	91.7	93.6	93.6	0.84	0.88	0.89	1.25	11.9191	38	84	1142	85
		1775	405T	229	115	91.6	G	6.3	292	2.1	2.2	93.6	94.5	94.5	0.80	0.86	0.87	1.25	27.4029	18	40	1221	75
		1185	444T	241	121	96.4	G	6.0	437	2.2	2.6	93.0	94.1	94.1	0.70	0.80	0.83	1.25	73.6254	48	106	1544	70
		890	445T	247	123	98.7	G	6.1	582	1.7	2.0	92.4	93.0	93.0	0.71	0.79	0.82	1.25	87.2597	29	64	2054	63
125	90	3560	444TS	263	131	105	F	6.6	182	2.0	2.5	92.4	94.1	94.5	0.84	0.90	0.91	1.15	27.9231	72	158	1625	86
		1780	444T	275	138	110	G	6.4	364	2.0	2.2	93.6	94.5	94.5	0.77	0.84	0.87	1.15	45.7301	35	77	1860	76
		1185	445T	283	141	113	G	6.3	547	2.1	2.3	93.6	94.1	94.1	0.74	0.80	0.85	1.15	87.2597	40	88	1874	70
		890	504T	295	148	118	G	6.1	728	1.7	2.0	93.0	93.6	93.6	0.70	0.79	0.82	1.15	103.621	25	55	2044	66
		890	447T	295	148	118	G	6.1	728	1.7	2.0	93.0	93.6	93.6	0.70	0.79	0.82	1.15	103.621	25	55	2044	66
150	110	3575	445TS	320	160	128	G	6.7	217	2.0	2.5	93.0	94.1	94.5	0.83	0.88	0.91	1.15	33.5077	45	99	1689	86
		1780	445T	335	168	134	G	6.4	437	2.2	2.3	94.1	95.0	95.0	0.81	0.86	0.87	1.15	57.1627	33	73	2023	76
		1185	504T	343	171	137	G	6.3	656	2.2	2.2	94.5	95.0	95.0	0.74	0.82	0.85	1.15	109.075	40	88	2425	73
		1185	447T	343	171	137	G	6.3	656	2.2	2.2	94.5	95.0	95.0	0.74	0.82	0.85	1.15	109.075	40	88	1969	73
		890	505T	355	178	142	G	6.0	873	1.7	2.0	93.0	93.6	93.6	0.71	0.79	0.83	1.15	133.617	18	40	2273	66
		890	447T	355	178	142	G	6.0	873	1.7	2.0	93.0	93.6	93.6	0.71	0.79	0.83	1.15	133.617	18	40	2273	66
200	150	3570	447TS	445	223	178	G	6.5	290	1.7	2.5	94.1	94.5	95.0	0.85	0.88	0.89	1.15	44.6769	30	66	1874	87
		3570	504TS	445	223	178	G	6.5	290	1.7	2.5	94.1	94.5	95.0	0.85	0.88	0.89	1.15	44.6769	30	66	1874	88
		1780	504T	460	230	184	G	6.4	582	2.3	2.4	94.1	95.0	95.0	0.78	0.84	0.86	1.15	76.2208	23	51	1996	77
		1780	447T	460	230	184	G	6.4	582	2.3	2.4	94.1	95.0	95.0	0.78	0.84	0.86	1.15	76.2208	23	51	1996	82
		1185	505T	473	236	189	F	5.9	874	2.2	2.3	94.5	95.0	95.0	0.71	0.80	0.84	1.15	133.617	32	70	1884	73
		1185	447T	473	236	189	F	5.9	874	2.2	2.3	94.5	95.0	95.0	0.71	0.80	0.84	1.15	133.617	32	70	2269	73
		890	586/7T	525	263	210	G	5.7	1164	1.2	2.1	93.6	94.1	94.5	0.60	0.71	0.76	1.00	350.219	65	143	3815	75
		890	449T	530	265	212	J	7.0	1164	2.2	2.5	93.0	94.1	94.5	0.56	0.68	0.75	1.00	160.885	16	35	3409	66
250	185	3570	505TS	535	268	214	G	6.6	363	2.0	2.5	93.6	95.4	95.4	0.88	0.90	0.91	1.15	51.3785	34	75	2068	88
		3570	447TS	535	268	214	G	6.6	363	2.0	2.5	93.6	95.4	95.4	0.88	0.90	0.91	1.15	51.3785	34	75	2068	87
		1780	505T	565	283	226	G	6.5	728	2.1	2.3	94.5	95.0	95.4	0.81	0.85	0.86	1.15	89.5551	22	48	2315	77
		1780	447T	565	283	226	G	6.5	728	2.1	2.3	94.5	95.0	95.4	0.81	0.85	0.86	1.15	89.5551	22	48	2315	82
		1190	586/7T	610	305	244	G	6.0	1088	1.8	2.1	93.0	94.1	95.0	0.68	0.76	0.80	1.15	226.177	74	163	3605	77
		1185	449T	595	298	238	H	6.7	1093	2.5	2.6	94.5	95.0	95.0	0.68	0.78	0.82	1.00	152.705	15	33	2977	70
		890	586/7T	635	318	254	G	5.8	1455	1.0	2.1	93.6	94.1	95.0	0.60	0.71	0.77	1.15	387.477	26	57	4245	75
300	220	3575	449TS	641	320	256	J	8.4	435	2.8	3.4	94.5	95.4	95.8	0.82	0.88	0.90	1.00	58.0801	15	33	2646	84
		3570	586/7TS	650	325	260	G	6.6	435	1.1	2.0	94.1	95.0	95.4	0.87	0.88	0.89	1.15	122.709	34	75	2977	85
		1790	586/7T	658	329	263	G	6.6	868	2.0	2.3	95.0	95.4	95.4	0.84	0.87	0.88	1.15	176.946	56	123	3440	83
		1785	449T	665	333	266	H	7.3	871	2.9	2.7	94.0	95.0	95.4	0.78	0.84	0.87	1.00	104.798	18	40	2807	80
		1190	586/7T	710	355	284	G	6.1	1306	1.8	2.0	93.6	94.5	95.0	0.72	0.80	0.82	1.15	277.067	70	154	4090	77
		1190	449T	728	364	291	J	7.6	1306	2.8	2.8	94.1	94.5	95.0	0.63	0.75	0.80	1.00	169.066	14	31	3197	70
		890	586/7T	735	368	294	G	5.9	1746	1.0	2.0	93.6	94.1	95.0	0.67	0.76	0.79	1.15	461.991	25	55	4476	75
350	260	3575	449TS	758	379	303	J	8.7	507	2.8	3.4	95.0	95.8	95.8	0.82	0.88	0.90	1.00	68.1324	14	31	3169	84
		3570	586/7TS	768	384	307	G	6.6	508	1.0	2.0	94.1	95.0	95.4	0.87	0.88	0.89	1.15	136.344	35	77	3208	85
		1790	586/7T	795	398	318	G	6.6	1013	1.8	2.1	94.5	95.0	95.4	0.81	0.85	0.86	1.15	185.793	38	84	3903	83
		1780	449T	788	394	315	G	6.9	1019	2.6	2.6	95.0	95.4	95.4	0.79	0.85	0.87	1.00	118.136	22	48	3175	80
		1190	586/7T	855	428	342	G	6.2	1524	1.8	2.0	93.0	94.1	95.4	0.70	0.77	0.80	1.15	327.957	73	161	4322	77
		890	586/7T*	880	440	352	G	5.9	2037	1.1	2.0	93.6	94.1	95.0	0.60	0.64	0.78	1.00	484.346	25	55	4631	75
400	300	1790	586/7T	918	459	367	G	6.4	1158	1.8	2.0	94.5	95.0	95.4	0.81	0.85	0.86	1.15	199.064	34	75	4248	83
		1190	586/7T	963	481	385	G	6.0	1741	2.0	2.0	95.0	95.4	95.4	0.70	0.78	0.82	1.15	367.538	71	156	4564	77
450	330	1790	586/7T*	1010	505	404	G	6.5	1302	1.8	2.0	94.5	95.0	95.4	0.81	0.85	0.86	1.00	221.182	32	70	4807	83
		1190	586/7T*	1085	543	434	G	6.0	1959	1.5	2.1	93.0	94.1	95.4	0.70	0.78	0.80	1.00	367.538	34	75	4851	77
500	370	1790	586/7T*	1128	564	451	G	6.4	1447	1.8	2.1	94.5	95.4	95.8	0.82	0.85	0.86	1.00	265.419	35	77	5027	83

* ΔT 105K.

NEMA Premium Efficiency Explosion Proof Motors - Three Phase
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan) - CSA C390
- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 2, 4, 6 & 8 pole, 60 & 50 Hz
- Voltage: 230/460, 460 or 575V
- Totally Enclosed Fan Cooled - (IP55)
- Squirrel cage rotor / Aluminum die cast
- Class 'F' insulation
- 104°F (40°C) ambient temperature
- Temperature rise: Class 'B' (80°C)
- Altitude: 3300 ft (1000 m)
- NEMA ratings design 'B'
- 1045 heat treated and stress relieved carbon steel shaft up to 365T. 4140 for frame 404T and up
- Continuous Duty (S1)
- NEMA dimensions
- Non-sparking fan
- Service factor: 1.15
- Stainless steel nameplate
- Thermostats
- F1 mount
- NPT threaded terminal box conduit hole
- Color: RAL 5009 - (Blue)
- WEG paint plan 201A
- Regreasable bearings, positive pressure lubrication system (frames 364T and up)

Optional Features

- C and D flanges available for all frames
- F2 mount
- Special Voltages and frequency
- Stainless steel shaft
- IP56
- Washdown Duty

NEMA MG1 Part 31

Inverter Duty

- Inverter Duty Certified for 20:1 CT & 1000:1 VT *
- Inverter Duty Certified for 1000:1 CT with a WEG VFD running in Optimized Flux mode
- Inverter Duty CSA certified for Division 1, Class I, Groups C & D and Division 1, Class II, Groups F & G

* 449T and 586/7T frame sizes not included. Other speed ranges available. Call for specific ratings

TEMP CODE T4
CSA / UL: Class I – Division 1 – Groups C and D
CSA: Class II – Division 1 – Groups F and G
CSA: Class I, Zone 1, IIB

APPROVED BY
LR 50962
E 87848
EEV 78282

NEMA Premium™

NEMA Premium Efficiency Explosion Proof Motors - Three Phase
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	3600	143T	$1,015	$1,173	$1,268	HX000X02NP	1.41	1.13	81.5	61.7	12.760	0.875
	1800	143T	1,058	1,216	1,311	HX000X04NP	1.43	1.14	85.5	61.7	12.760	0.875
	1200	182T	1,305	1,527	1,574	HX000X06NP	2.30	1.84	78.5	112	14.862	1.125
1.5	3600	143T	1,217	1,375	1,470	HX001X02NP	2.05	1.64	84.0	61.7	12.760	0.875
	1800	145T	1,100	1,258	1,353	HX001X04NP	2.05	1.64	86.5	70.6	13.752	0.875
	1200	182T	1,452	1,674	1,721	HX001X06NP	2.32	1.86	87.5	118	14.862	1.125
	900	184T	1,811	2,033	2,080	HX001X08NP	2.70	2.16	82.5	128	15.862	1.125
2	3600	145T	1,308	1,466	1,561	HX002X02NP	2.69	2.15	85.5	66.1	13.752	0.875
	1800	145T	1,180	1,338	1,433	HX002X04NP	2.72	2.18	86.5	55.1	13.752	0.875
	1200	184T	1,550	1,772	1,819	HX002X06NP	3.13	2.50	88.5	129	15.862	1.125
	900	213T	2,241	2,526	2,552	HX002X08NP	3.45	2.76	84.0	165	17.952	1.375
3	3600	182T	1,479	1,701	1,748	HX003X02NP	3.80	3.04	86.5	90.4	14.862	1.125
	1800	182T	1,552	1,774	1,821	HX003X04NP	3.91	3.13	89.5	115	14.862	1.125
	1200	213T	2,019	2,304	2,330	HX003X06NP	4.41	3.53	89.5	165	17.952	1.375
	900	215T	2,448	2,733	2,759	HX003X08NP	4.44	3.55	84.0	201	19.450	1.375
5	3600	184T	1,785	2,007	2,054	HX005X02NP	6.10	4.88	88.5	106	15.862	1.125
	1800	184T	1,717	1,939	1,986	HX005X04NP	6.57	5.26	89.5	130	15.862	1.125
	1200	215T	2,434	2,719	2,745	HX005X06NP	6.83	5.46	89.5	218	19.450	1.375
	900	254T	2,528	2,961	2,971	HX005X08NP	7.93	6.34	87.5	313	23.175	1.625
7.5	3600	213T	2,300	2,585	2,611	HX007X02NP	8.97	7.18	89.5	190	17.952	1.375
	1800	213T	2,214	2,499	2,525	HX007X04NP	9.41	7.53	91.7	152	17.952	1.375
	1200	254T	2,790	3,223	3,233	HX007X06NP	9.73	7.78	91.0	309	23.175	1.625
	900	256T	3,258	3,691	3,701	HX007X08NP	11.6	9.28	87.5	353	24.923	1.625
10	3600	215T	2,625	2,910	2,936	HX010X02NP	12.0	9.60	90.2	201	19.450	1.375
	1800	215T	2,647	2,932	2,958	HX010X04NP	12.7	10.2	91.7	207	19.450	1.375
	1200	256T	3,549	3,982	3,992	HX010X06NP	13.3	10.6	91.0	364	24.923	1.625
	900	284T	4,600	5,075	5,159	HX010X08NP	13.3	10.6	91.0	467	26.407	1.875
15	3600	254T	3,189	3,622	3,632	HX015X02NP	16.9	13.5	91.7	318	23.175	1.625
	1800	254T	3,227	3,660	3,670	HX015X04NP	18.4	14.7	92.4	329	23.175	1.625
	1200	284T	4,578	5,053	5,137	HX015X06NP	17.5	14.0	91.7	463	26.407	1.875
	900	286T	5,454	5,929	6,013	HX015X08NP	19.0	15.2	91.0	507	27.905	1.875
20	3600	256T	3,688	4,121	4,131	HX020X02NP	23.1	18.5	91.7	357	24.923	1.625
	1800	256T	3,731	4,164	4,174	HX020X04NP	25.0	20.0	93.0	364	24.923	1.625
	1200	286T	5,090	5,565	5,649	HX020X06NP	24.2	19.4	91.7	501	27.905	1.875
	900	324T	6,787	7,368	7,473	HX020X08NP	27.5	22.0	92.4	606	29.602	2.125
25	3600	284TS	4,403	4,878	4,962	HX025X02NP	28.6	22.9	92.4	452	25.033	1.625
	1800	284T	4,540	5,015	5,099	HX025X04NP	29.9	23.9	93.6	472	26.407	1.875
	1200	324T	6,356	6,937	7,042	HX025X06NP	30.4	24.3	93.0	639	29.602	2.125
	900	326T	7,676	8,257	8,362	HX025X08NP	35.4	28.3	92.4	673	31.106	2.125
30	3600	286TS	5,374	5,849	5,933	HX030X02NP	33.7	27.0	93.0	529	26.531	1.625
	1800	286T	4,925	5,400	5,484	HX030X04NP	36.0	28.8	93.6	512	27.905	1.875
	1200	326T	7,545	8,126	8,231	HX030X06NP	36.7	29.4	93.0	695	31.106	2.125
	900	364/5T	10,663	11,750	12,025	HX030X08NP	38.5	30.8	93.0	911	33.701	2.375
40	3600	324TS	6,353	6,934	7,039	HX040X02NP	45.8	36.6	93.6	639	28.102	1.875
	1800	324T	7,054	7,635	7,740	HX040X04NP	48.2	38.6	94.1	650	29.602	2.125
	1200	364/5T	10,426	11,513	11,788	HX040X06NP	47.1	37.7	94.1	1,010	33.701	2.375
	900	364/5T	10,774	11,861	12,136	HX040X08NP	52.2	41.8	93.6	1,058	33.701	2.375
50	3600	326TS	8,397	8,978	9,083	HX050X02NP	55.5	44.4	94.1	728	29.606	1.875
	1800	326T	7,736	8,317	8,422	HX050X04NP	60.6	48.5	94.5	706	31.106	2.125
	1200	364/5T	10,900	11,987	12,262	HX050X06NP	58.1	46.5	94.1	1,036	33.701	2.375
	900	404/5T	13,737	14,824	15,099	HX050X08NP	68.0	54.4	93.6	1,257	38.074	2.875
60	3600	364/5TS	9,969	11,056	11,331	HX060X02NP	68.3	54.6	94.1	1,017	31.575	1.875
	1800	364/5T	9,859	10,946	11,221	HX060X04NP	68.3	54.6	95.0	1,014	33.701	2.375
	1200	404/5T	13,736	14,823	15,098	HX060X06NP	70.4	56.3	94.5	1,213	38.074	2.875
	900	404/5T	14,013	15,100	15,375	HX060X08NP	75.9	60.7	93.0	1,279	38.074	2.875
75	3600	364/5TS	10,843	11,930	12,205	HX075X02NP	82.4	65.9	94.1	1,025	31.575	1.875
	1800	364/5T	10,281	11,368	11,643	HX075X04NP	83.2	66.6	95.4	937	33.701	2.375
	1200	404/5T	13,952	15,039	15,314	HX075X06NP	87.0	69.6	94.5	1,257	38.074	2.875
	900	444/5T	20,570	22,248	22,322	HX075X08NP	92.2	73.8	93.6	1,912	43.797	3.375
100	3600	404/5TS	12,269	13,356	13,631	HX100X02NP	110	88.0	95.0	1,206	35.074	2.125
	1800	404/5T	13,513	14,600	14,875	HX100X04NP	113	90.4	95.4	1,222	38.074	2.875
	1200	444/5T	20,239	21,917	21,991	HX100X06NP	121	96.8	95.0	1,896	43.797	3.375
	900	444/5T	21,845	23,523	23,597	HX100X08NP	125	100	94.1	2,053	43.797	3.375
125	3600	444/5TS	21,116	22,794	22,868	HX125X02NP	137	110	95.0	1,940	40.047	2.375
	1800	444/5T	18,915	20,593	20,667	HX125X04NP	142	114	95.4	2,026	43.797	3.375
	1200	444/5T	20,797	22,475	22,549	HX125X06NP	150	120	95.0	2,293	43.797	3.375
	900	447T	28,353	30,031	30,105	HX125X08NP	154	123	94.5	2,337	47.339	3.375
	900	504/5T	28,353	30,527	30,549	HX125X08NP447T	154	123	94.5	2,337	49.445	3.625

Flange: For C Flange add 'C' to end of part number
For D Flange add 'D' to end of part number
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

NEMA Premium Efficiency Explosion Proof Motors - Three Phase
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
150	3600	444/5TS	$20,891	22,569	22,643	HX150X02NP	161	129	95.4	1,985	40.047	2.375
	1800	444/5T	20,028	21,706	21,780	HX150X04NP	170	136	95.8	2,095	43.797	3.375
	1200	447T	29,753	31,431	31,505	HX150X06NP	174	139	95.8	2,540	47.339	3.375
	1200	504/5T	29,753	31,927	31,949	HX150X06NP447T	174	139	95.8	2,540	49.445	3.625
	900	447T	32,976	34,654	34,728	HX150X08NP	179	143	94.5	2,646	47.339	3.375
	900	504/5T	32,976	35,150	35,172	HX150X08NP447T	179	143	94.5	2,646	49.445	3.625
200	3600	447TS	28,091	29,769	29,843	HX200X02NP	221	177	95.8	2,492	45.589	2.375
	3600	504/5TS	28,091	30,265	30,287	HX200X02NP447TS	221	177	95.8	2,492	46.875	2.875
	1800	447T	25,278	26,956	27,030	HX200X04NP	230	184	96.2	2,426	47.339	3.375
	1800	504/5T	25,278	27,452	27,474	HX200X04NP447T	230	184	96.2	2,426	49.445	3.625
	1200	447T	30,054	31,732	31,806	HX200X06NP	249	199	95.8	2,615	47.339	3.375
	1200	504/5T	30,054	32,228	32,250	HX200X06NP447T	249	199	95.8	2,615	49.445	3.625
	900	449T	43,769	45,950	46,047	HX200X08NP	283	226	95.0	3,581	54.996	3.375
	900	586/7T	50,488	53,554	53,653	HX200X08NP449T	261	209	95.0	4,167	61.389	3.875
250	3600	447TS	30,838	32,516	32,590	HX250X02NP	269	215	95.8	2,492	45.589	2.375
	3600	504/5TS	30,838	33,012	33,034	HX250X02NP447TS	269	215	95.8	2,492	46.875	2.875
	1800	447T	30,176	31,854	31,928	HX250X04NP	284	227	96.2	2,646	47.339	3.375
	1800	504/5T	30,176	32,350	32,372	HX250X04NP447T	284	227	96.2	2,646	49.445	3.625
	1200	449T	45,000	47,181	47,278	HX250X06NP	299	239	95.8	3,188	54.996	3.375
	1200	586/7T	51,927	54,993	55,092	HX250X06NP449T	303	242	95.8	3,859	61.389	3.875
	900	586/7T	52,425	55,491	55,590	HX250X08NP	316	253	95.4	4,410	61.389	3.875
300	3600	449TS	45,255	47,436	47,533	HX300X02NP	320	256	95.8	3,308	51.246	2.375
	3600	586/7TS	51,185	54,251	54,350	HX300X02NP449TS	328	262	95.8	4,410	54.514	2.375
	1800	449T	40,705	42,886	42,983	HX300X04NP	334	267	96.2	3,087	54.996	3.375
	1800	586/7T	46,304	49,370	49,469	HX300X04NP449T	338	270	96.2	4,079	61.389	3.875
	1200	449T	47,911	50,092	50,189	HX300X06NP	351	281	95.8	3,197	54.996	3.375
	1200	586/7T	53,719	56,785	56,884	HX300X06NP449T	351	281	95.8	4,190	61.389	3.875
	900	586/7T	65,987	69,053	69,152	HX300X08NP	376	301	95.4	4,818	61.389	3.875
350	3600	449TS	51,878	54,059	54,156	HX350X02NP	379	303	95.8	3,638	51.246	2.375
	3600	586/7TS	58,881	61,947	62,046	HX350X02NP449TS	388	310	95.8	4,410	54.514	2.375
	1800	449T	43,833	46,014	46,111	HX350X04NP	390	312	96.2	3,418	54.996	3.375
	1800	586/7T	50,515	53,581	53,680	HX350X04NP449T	395	316	96.2	4,234	61.389	3.875
	1200	586/7T	62,605	65,671	65,770	HX350X06NP	426	341	95.8	4,520	61.389	3.875
	900	586/7T	65,987	69,053	69,152	HX350X08NP	439	351	95.4	4,895	61.389	3.875
400	1800	586/7T	54,087	57,153	57,252	HX400X04NP	460	368	96.2	4,366	61.389	3.875
	1200	586/7T	72,252	75,318	75,417	HX400X06NP	479	383	95.8	4,983	61.389	3.875
450	1800	586/7T	57,728	60,794	60,893	HX450X04NP	501	401	96.2	4,586	61.389	3.875
500	1800	586/7T	63,196	66,262	66,361	HX500X04NP	568	454	96.2	4,829	61.389	3.875

Flange: For C Flange add 'C' to end of part number
For D Flange add 'D' to end of part number
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

NEMA Premium Efficiency Explosion Proof Motors - Three Phase
Electrical Data

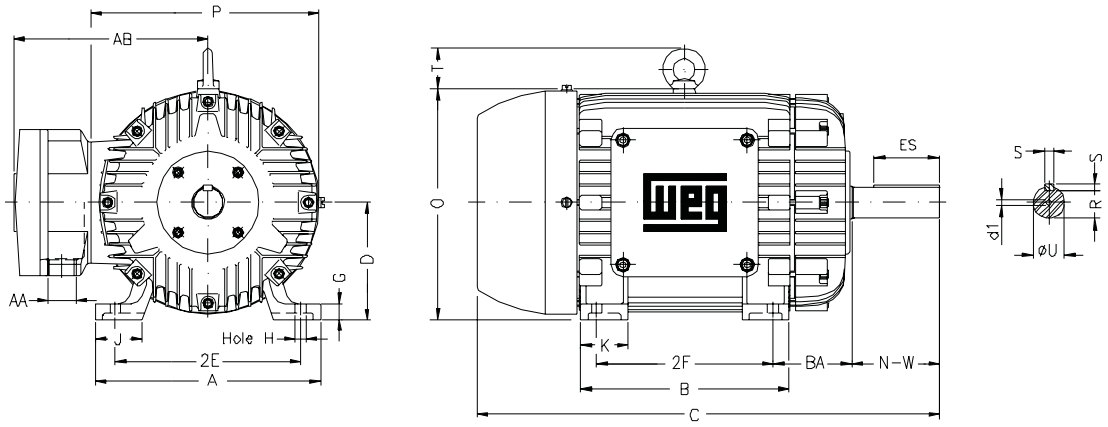
Rated Output		Full Load Speed	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW	(RPM)		230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	3495	143T	2.82	1.41	1.13	M	9.0	2.01	3.0	4.0	75.5	80.0	81.5	0.65	0.76	0.82	1.25	0.0415	40	88	61.7	68.0
		1765	143T	2.86	1.43	1.14	L	8.6	3.98	2.9	4.0	80.0	82.5	85.5	0.57	0.70	0.77	1.25	0.0975	18	40	61.7	51.0
		875	182T	4.60	2.3	1.84	M	6.0	8.03	3.0	3.5	74.0	77.0	78.5	0.32	0.42	0.52	1.25	0.3991	22	48	112	50.0
1.5	1.1	3500	143T	4.10	2.05	1.64	M	9.2	3.01	3.0	4.0	78.5	82.5	84.0	0.62	0.73	0.80	1.25	0.0413	20	44	61.7	68.0
		1760	145T	4.10	2.05	1.64	L	8.9	5.99	2.7	3.8	81.5	85.5	86.5	0.58	0.70	0.78	1.25	0.1303	14	31	70.6	51.0
		1165	182T	4.64	2.32	1.86	K	7.2	9.04	2.6	3.3	84.5	86.5	87.5	0.47	0.59	0.68	1.25	0.4212	35	77	118	52.0
		860	184T	5.40	2.7	2.16	J	5.5	12.3	2.4	2.6	80.0	81.5	82.5	0.42	0.54	0.62	1.25	0.5223	17	37	128	50.0
2	1.5	3495	145T	5.38	2.69	2.15	M	9.4	4.02	3.5	4.0	80.0	84.0	85.5	0.64	0.76	0.82	1.25	0.0551	15	33	66.1	68.0
		1750	145T	5.44	2.72	2.18	K	7.9	8.03	2.5	3.2	84.0	85.5	86.5	0.60	0.73	0.80	1.25	0.1595	11	24	55.1	51.0
		1165	184T	6.26	3.13	2.50	K	7.0	12.1	2.6	3.3	84.5	86.5	88.5	0.47	0.58	0.68	1.25	0.5323	35	77	129	52.0
		870	213T	6.90	3.45	2.76	M	7.6	16.2	2.7	3.0	80.0	82.5	84.0	0.45	0.57	0.65	1.25	1.31	35	77	165	52.0
3	2.2	3515	182T	7.60	3.8	3.04	K	8.8	5.99	2.5	4.0	82.5	85.5	86.5	0.69	0.79	0.84	1.25	0.1471	30	66	90.4	69.0
		1760	182T	7.82	3.91	3.13	K	8.0	12.0	2.5	3.2	87.5	88.5	89.5	0.59	0.71	0.79	1.25	0.2781	28	62	115	56.0
		1170	213T	8.82	4.41	3.53	J	6.7	18.0	2.2	2.5	86.5	88.5	89.5	0.50	0.62	0.70	1.25	1.20	58	128	165	55.0
		865	215T	8.88	4.44	3.55	K	7.1	24.4	2.6	2.6	84.0	85.5	84.0	0.54	0.66	0.74	1.25	1.79	32	70	201	52.0
5	3.7	3505	184T	12.2	6.1	4.88	K	9.0	10.0	2.8	3.8	85.5	87.5	88.5	0.70	0.81	0.86	1.25	0.1889	26	57	106	69.0
		1755	184T	13.1	6.57	5.26	K	8.2	20.0	2.7	3.3	86.5	88.5	89.5	0.59	0.71	0.79	1.25	0.3695	17	37	130	56.0
		1160	215T	13.7	6.83	5.46	J	6.6	30.3	1.9	2.4	88.5	89.5	89.5	0.58	0.70	0.76	1.25	1.47	57	125	218	55.0
		880	254T	15.9	7.93	6.34	H	5.3	39.9	2.1	2.7	84.0	86.5	87.5	0.46	0.58	0.67	1.25	3.41	21	46	313	54.0
7.5	5.5	3540	213T	17.9	8.97	7.18	K	9.0	14.9	3.0	3.8	85.5	88.5	89.5	0.71	0.81	0.86	1.25	0.4696	23	51	190	72.0
		1765	213T	18.8	9.41	7.53	H	7.1	29.9	2.4	2.8	88.5	90.2	91.7	0.60	0.73	0.80	1.25	1.38	12	26	152	58.0
		1175	254T	19.5	9.73	7.78	J	7.0	44.8	2.7	3.2	88.5	90.2	91.0	0.58	0.71	0.78	1.25	3.32	25	55	309	59.0
		880	256T	23.2	11.6	9.28	H	5.3	59.9	2.1	2.8	86.5	87.5	87.5	0.48	0.60	0.68	1.25	4.15	23	51	353	54.0
10	7.5	3535	215T	24.0	12	9.60	K	9.2	19.9	2.8	3.5	88.5	89.5	90.2	0.71	0.81	0.87	1.25	0.5512	18	40	201	72.0
		1765	215T	25.4	12.7	10.2	J	7.5	39.8	2.5	3.0	90.2	91.0	91.7	0.62	0.75	0.81	1.25	1.34	15	33	207	58.0
		1175	256T	26.6	13.3	10.6	J	7.2	59.8	2.7	3.1	89.5	90.2	91.0	0.60	0.70	0.78	1.25	4.15	26	57	364	59.0
		880	284T	26.6	13.3	10.6	H	6.0	79.8	2.5	2.4	91.0	91.7	91.0	0.62	0.73	0.78	1.25	7.20	30	66	467	54.0
15	11	3535	254T	33.8	16.9	13.5	G	6.5	29.8	2.0	2.7	91.0	91.7	91.7	0.79	0.86	0.89	1.25	1.19	31	68	318	75.0
		1770	254T	36.8	18.4	14.7	J	7.3	59.5	3.0	3.0	90.2	91.7	92.4	0.65	0.75	0.81	1.25	2.31	26	57	329	69.0
		1180	284T	35.0	17.5	14.0	H	7.2	89.3	2.5	2.6	91.0	91.7	91.7	0.74	0.83	0.86	1.25	7.07	25	55	463	59.0
		880	286T	38.0	19	15.2	G	6.1	120	2.4	2.3	91.0	91.7	91.0	0.66	0.76	0.80	1.25	8.18	37	81	507	54.0
20	15	3530	256T	46.2	23.1	18.5	G	6.2	39.8	2.0	2.5	91.0	91.7	91.7	0.79	0.86	0.89	1.25	1.45	26	57	357	75.0
		1770	256T	50.0	25	20.0	J	7.5	79.4	3.0	3.0	91.7	92.4	93.0	0.63	0.75	0.81	1.25	2.89	20	44	364	69.0
		1180	286T	48.4	24.2	19.4	H	7.2	119	2.5	2.7	91.7	91.7	91.7	0.70	0.80	0.85	1.25	8.02	22	48	501	59.0
		880	324T	55.0	27.5	22.0	G	5.3	160	2.3	2.3	91.7	92.4	92.4	0.56	0.67	0.74	1.25	9.37	25	55	606	56.0
25	18.5	3555	284TS	57.2	28.6	22.9	K	9.0	49.4	2.2	2.8	91.7	92.4	92.4	0.78	0.85	0.88	1.25	2.58	58	128	452	75.0
		1775	284T	59.8	29.9	23.9	J	8.2	98.9	3.0	3.0	92.4	93.6	93.6	0.67	0.78	0.83	1.25	4.54	20	44	472	68.0
		1180	324T	60.8	30.4	24.3	G	6.4	149	2.3	2.6	92.4	93.0	93.0	0.65	0.76	0.82	1.25	10.8	25	55	639	62.0
		880	326T	70.8	35.4	28.3	G	5.1	200	2.4	2.4	91.0	92.4	92.4	0.51	0.63	0.71	1.25	11.9	20	44	673	56.0
30	22	3545	286TS	67.4	33.7	27.0	H	7.7	59.4	2.6	3.0	92.4	93.0	93.0	0.78	0.86	0.88	1.25	3.08	14	31	529	75.0
		1770	286T	72.0	36	28.8	J	8.2	119	3.0	3.0	93.0	93.6	93.6	0.66	0.77	0.82	1.25	5.16	17	37	512	68.0
		1180	326T	73.4	36.7	29.4	H	7.1	179	2.4	2.7	92.4	93.0	93.0	0.63	0.75	0.81	1.25	12.5	25	55	695	62.0
		885	364/5T	77.0	38.5	30.8	G	5.7	238	2.2	2.2	92.4	93.0	93.0	0.64	0.73	0.77	1.25	23.5	14	31	911	62.0
40	30	3555	324TS	91.6	45.8	36.6	G	6.6	79.0	2.7	2.7	92.4	93.6	93.6	0.80	0.86	0.88	1.25	4.62	43	95	639	81.0
		1780	324T	96.4	48.2	38.6	J	7.7	158	2.7	3.0	93.0	94.1	94.1	0.66	0.77	0.83	1.25	8.17	19	42	650	71.0
		1185	364/5T	94.2	47.1	37.7	H	7.0	237	2.3	2.3	93.6	94.1	94.1	0.72	0.80	0.85	1.25	29.0	24	53	1010	65.0
		885	364/5T	104	52.2	41.8	F	5.2	317	2.2	2.2	93.0	93.6	93.6	0.64	0.73	0.77	1.25	29.0	25	55	1058	62.0
50	37	3550	326TS	111	55.5	44.4	H	7.2	98.9	2.1	2.1	92.4	93.6	94.1	0.82	0.88	0.89	1.25	5.42	33	73	728	81.0
		1780	326T	121	60.6	48.5	H	7.3	197	2.6	2.8	93.6	94.5	94.5	0.65	0.76	0.81	1.25	9.16	20	44	706	71.0
		1185	364/5T	116	58.1	46.5	H	7.4	296	2.6	2.8	93.6	94.1	94.1	0.71	0.81	0.85	1.25	29.4	20	44	1036	65.0
		885	404/5T	136	68	54.4	J	7.3	397	2.2	2.1	92.4	93.0	93.6	0.67	0.73	0.73	1.25	34.6	12	26	1257	62.0
60	45	3560	364/5TS	137	68.3	54.6	G	6.4	118	2.0	2.5	92.4	93.6	94.1	0.79	0.86	0.88	1.25	9.96	60	132	1017	85.0
		1780	364/5T	137	68.3	54.6	J	8.6	237	3.0	3.2	94.1	94.5	95.0	0.72	0.82	0.87	1.25	20.8	20	44	1014	75.0
		1180	404/5T	141	70.4	56.3	H	6.9	357	2.5	2.7	93.6	94.5	94.5	0.73	0.82	0.85	1.25	36.9	29	64	1213	65.0
		885	404/5T	152	75.9	60.7	G	6.2	476	1.8	2.2	92.4	93.0	93.0	0.65	0.75	0.80	1.25	38.3	25	55	1279	62.0
75	55	3560	364/5TS	165	82.4	65.9	G	7.0	148	2.3	2.6	93.0	94.1	94.1	0.81	0.87	0.89	1.25	9.96	18	40	1025	85.0
		1780	364/5T	166	83.2	66.6	J	8.2	296	2.7	3.0	94.5	95.0	95.4	0.74	0.83	0.87	1.25	23.3	16	35	937	75.0
		1180	404/5T	174	87	69.6	J	7.7	446	2.5	2.6	94.1	95.0	94.5	0.72	0.81	0.84	1.25	40.2	15	33	1257	65.0
		890	444/5T	184	92.2	73.8	G	6.1	592	1.7	2.1	93.6	94.1	93.6	0.66	0.76	0.80	1.25	73.6	18	40	1912	64.0
100	75	3550	404/5TS	220	110	88.0	F	6.3	198	2.0	2.6	93.6	95.0	95.0	0.85	0.89	0.90	1.25	13.2	21	46	1206	85.0
		1780	404/5T	226	113	90.4	J	8.7	395	3.0	3.2	94.5	95.0	95.4	0.72	0.82	0.87	1.25	26.4	13	29	1222	75.0
		1190	444/5T	242	121	96.8	H	6.8	590	2.3	2.6	94.1	95.0	95.0	0.66	0.76	0.82	1.25	87.3	49	108	1896	70.0
		890	444/5T	250	125	100	G	6.1	789	1.7	2.0	94.1	94.5	94.1	0.68	0.77	0.80	1.25	87.3	16	35	2053	64.0
125	90	3560	444/5TS	274	137	110	G	6.6	247	2.0	2.5	93.0	94.5	95.0	0.83	0.89	0.90	1.15	31.2	22	48	1940	86.0
		1785	444/5T	284	142	114	G	6.4	492	2.0	2.2	95.0	95.4	95.4	0.76	0.83	0.86	1.15	57.2	18	40	2026	76.0
		1185	444/5T	300	150	120	H	7.4	741	2.3	2.4	94.5	95.0	95.0	0.67	0.76	0.82	1.15	104	41	90	2293	70.0
		890	447T	308	154	123	G	6.1	987	1.7	2.0	94.5	95.0	94.5	0.66	0.76	0.80	1.15	104	18	40	2337	66.0
		890	504/5T	308	154	123	G	6.1	987	1.7	2.0	94.5	95.0	94.5	0.66	0.76	0.80	1.15	104	18	40	2337	66.0

NEMA Premium Efficiency Explosion Proof Motors - Three Phase
Electrical Data

Rated Output		Full Load Speed	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW	(RPM)		230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
150	110	3570	444/5TS	322	161	129	G	7,0	295	2,0	2,5	93,6	95,0	95,4	0,85	0,89	0,90	1.15	39,1	31	68	1985	86,0
		1780	444/5T	340	170	136	G	6,3	592	2,2	2,5	95,0	95,8	95,8	0,72	0,81	0,85	1.15	66,7	22	48	2095	76,0
		1185	447T	348	174	139	H	7,5	889	2,6	2,6	95,0	95,8	95,8	0,68	0,78	0,83	1.15	134	42	92	2540	73,0
		1185	504/5T	348	174	139	H	7,5	889	2,6	2,6	95,0	95,8	95,8	0,68	0,78	0,83	1.15	134	42	92	2540	73,0
		890	447T	358	179	143	G	6,0	1184	1,7	2,0	94,5	95,0	94,5	0,68	0,77	0,82	1.15	125	18	40	2646	66,0
		890	504/5T	358	179	143	G	6,0	1184	1,7	2,0	94,5	95,0	94,5	0,68	0,77	0,82	1.15	125	18	40	2646	66,0
200	150	3570	447TS	442	221	177	H	7,3	394	2,2	2,6	94,1	95,4	95,8	0,84	0,88	0,89	1.15	44,7	37	81	2492	87,0
		3570	504/5TS	442	221	177	H	7,3	394	2,2	2,6	94,1	95,4	95,8	0,84	0,88	0,89	1.15	44,7	37	81	2492	88,0
		1780	447T	460	230	184	H	7,0	789	2,3	2,4	95,8	96,2	96,2	0,70	0,80	0,85	1.15	76,2	25	55	2426	82,0
		1780	504/5T	460	230	184	H	7,0	789	2,3	2,4	95,8	96,2	96,2	0,70	0,80	0,85	1.15	76,2	25	55	2426	82,0
		1190	447T	498	249	199	J	7,8	1181	2,7	2,8	94,5	95,4	95,8	0,60	0,73	0,79	1.15	134	14	31	2615	73,0
		1190	504/5T	498	249	199	J	7,8	1181	2,7	2,8	94,5	95,4	95,8	0,60	0,73	0,79	1.15	134	14	31	2615	73,0
		890	449T	566	283	226	K	7,5	1578	2,8	3,0	92,4	94,5	95,0	0,52	0,63	0,70	1.00	161	13	29	3581	66,0
		890	586/7T	522	261	209	G	5,7	1578	1,2	2,1	94,1	94,5	95,0	0,60	0,71	0,76	1.15	350	65	143	4167	75,0
250	185	3570	447TS	538	269	215	H	8,0	492	2,4	2,8	95,0	95,4	95,8	0,83	0,89	0,90	1.15	50,3	18	40	2492	87,0
		3570	504/5TS	538	269	215	H	8,0	492	2,4	2,8	95,0	95,4	95,8	0,83	0,89	0,90	1.15	50,3	18	40	2492	88,0
		1780	447T	568	284	227	H	7,0	987	2,1	2,3	95,4	96,2	96,2	0,72	0,81	0,85	1.15	89,6	30	66	2646	82,0
		1780	504/5T	568	284	227	H	7,0	987	2,1	2,3	95,4	96,2	96,2	0,72	0,81	0,85	1.15	89,6	30	66	2646	77,0
		1190	449T	598	299	239	J	8,1	1476	2,8	3,0	95,0	95,4	95,8	0,64	0,76	0,81	1.00	145	10	22	3188	70,0
		1190	586/7T	606	303	242	G	6,0	1476	1,8	2,1	93,6	95,4	95,8	0,67	0,75	0,80	1.15	226	33	73	3859	77,0
		890	586/7T	632	316	253	G	5,8	1973	1,0	2,1	94,1	94,5	95,4	0,60	0,71	0,77	1.15	395	26	57	4410	75,0
300	220	3575	449TS	640	320	256	J	8,4	589	2,8	3,4	94,5	95,4	95,8	0,82	0,88	0,90	1.00	58,1	15	33	3308	84,0
		3580	586/7TS	656	328	262	G	6,6	589	1,3	2,2	94,5	95,4	95,8	0,86	0,87	0,88	1.15	123	34	75	4410	85,0
		1785	449T	668	334	267	H	8,0	1181	2,8	2,9	95,4	95,8	96,2	0,74	0,83	0,86	1.00	89,6	14	31	3087	80,0
		1790	586/7T	676	338	270	G	6,8	1177	1,8	2,1	95,0	95,8	96,2	0,78	0,84	0,85	1.15	161	50	110	4079	83,0
		1190	449T	702	351	281	J	7,9	1771	2,8	3,0	95,0	95,4	95,8	0,66	0,77	0,82	1.00	145	7	15	3197	70,0
		1190	586/7T	702	351	281	G	6,1	1771	1,8	2,1	93,6	95,4	95,8	0,68	0,75	0,82	1.15	277	35	77	4190	77,0
		895	586/7T	752	376	301	G	6,2	2354	1,4	2,1	95,0	95,0	95,4	0,60	0,72	0,77	1.15	462	24	53	4818	75,0
350	260	3575	449TS	758	379	303	J	8,7	688	2,8	3,4	95,0	95,8	95,8	0,82	0,88	0,90	1.00	68,1	14	31	3638	84,0
		3580	586/7TS	776	388	310	G	6,6	687	1,3	2,2	94,5	95,4	95,8	0,86	0,87	0,88	1.15	136	35	77	4410	85,0
		1780	449T	780	390	312	H	7,8	1381	2,8	2,9	95,4	95,8	96,2	0,76	0,84	0,87	1.00	118	14	31	3418	80,0
		1790	586/7T	790	395	316	H	7,3	1373	2,3	2,3	95,0	95,8	96,2	0,77	0,84	0,86	1.15	179	32	70	4234	83,0
		1190	586/7T	852	426	341	G	6,2	2066	1,8	2,0	93,6	95,0	95,8	0,69	0,76	0,80	1.15	328	30	66	4520	77,0
		890	586/7T*	878	439	351	G	5,9	2762	1,1	2,0	94,1	94,5	95,4	0,60	0,64	0,78	1.15	484	25	55	4895	75,0
400	300	1790	586/7T	920	460	368	G	6,4	1570	1,8	2,0	95,4	96,2	96,2	0,80	0,84	0,85	1.15	179	18	40	4366	83,0
		1190	586/7T	958	479	383	G	6,0	2361	2,0	2,0	93,6	95,0	95,8	0,70	0,78	0,82	1.15	368	71	156	4983	77,0
450	330	1790	586/7T*	1002	501	401	G	6,5	1766	1,8	2,0	95,8	96,2	96,2	0,81	0,85	0,86	1.15	213	24	53	4586	83,0
		1190	586/7T*	1080	540	432	G	6,0	2656	1,5	2,1	93,6	95,0	95,8	0,69	0,77	0,80	1.15	368	34	75	5005	77,0
500	370	1790	586/7T*	1136	568	454	G	6,4	1962	1,8	2,1	95,8	96,2	96,2	0,81	0,84	0,85	1.15	256	25	55	4829	83,0

* ΔT 105K.

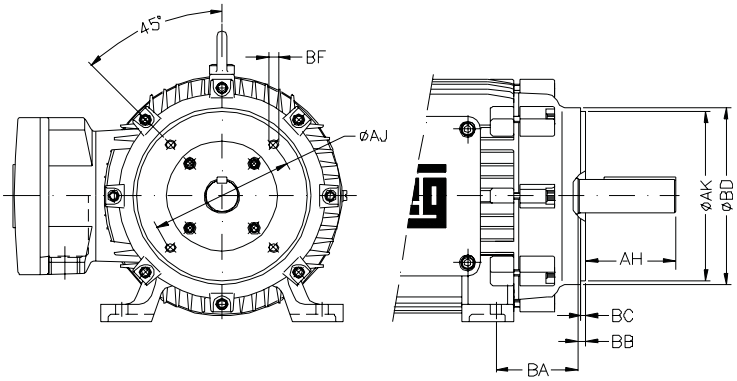
Explosion Proof Motors - High and NEMA Premium Efficiency
Mechanical Data



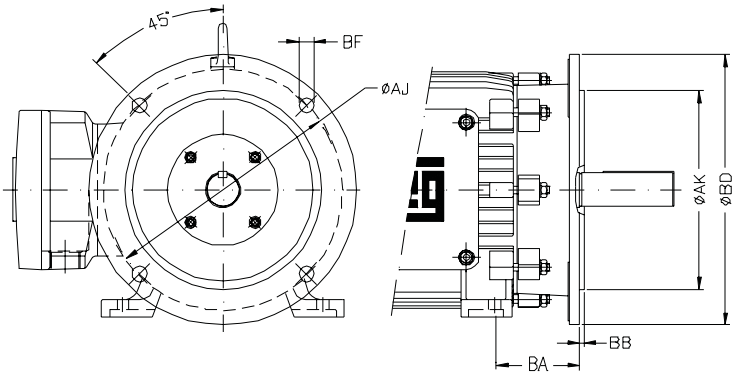
NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.
143T	5.500	4.000	0.344	2.250	6.457	5.157	12.760	3.500	0.429	1.496	1.654	7.000	7.000		0.187	0.765	1.575	2.250	0.875	6.811	NPT0.75"	A4	6205-ZZ	6204-ZZ
145T		5.000				6.142	13.752																	
182T	7.500	4.500	0.406	2.750	8.661	5.945	14.862	4.500	0.787	1.890	1.969	9.421	8.909	1.772	0.250	0.984	1.969	2.750	1.125	8.240			6307-ZZ	6206-ZZ
184T		5.500				6.969	15.862																	
213T	8.500	5.500		3.500	9.764	7.402	17.952	5.250	0.827	2.008	2.165	11.156	10.709		0.313	1.203	2.480	3.375	1.375	9.252	NPT1"		6308-ZZ	6207-ZZ
215T		7.000				8.898	19.450																	
254T	10.000	8.252	0.531	4.250	12.126	10.000	23.175	6.250	0.817	2.520	2.559	12.352	12.224	2.087	0.375	1.406	2.756	4.000	1.625	11.063			6309-C3	6209-Z-C3
256T		10.000				11.732	24.923																	
284T	11.000	9.500		4.750	13.780	11.575	26.407	7.000	1.024	3.150	2.953	14.362	14.094	2.441	0.500	1.594	3.150	4.622	1.875	11.850	NPT1.0.5"		6311-C3	6211-Z-C3
284TS							25.033								0.375	1.406	2.480	3.250	1.625					
286T		11.000				13.071	27.905								0.500	1.594	3.150	4.622	1.875					
286TS							26.531								0.375	1.406	2.480	3.250	1.625					
324T	12.500	10.500	0.657	5.250	15.157		29.602	8.000	1.307	3.228	3.346	15.992	15.697	2.795	0.500	1.844	3.937	5.250	2.125	12.961	NPT2"		6312-C3	6212-Z-C3
324TS							28.102									1.594	2.756	3.750	1.875					
326T		12.000				14.567	31.106									1.844	3.937	5.250	2.125					
326TS							29.606									1.594	2.756	3.750	1.875					
364/5T	14.000	11.250	0.750	5.875	17.165	15.394	33.701	9.000	1.480	3.150	4.134	18.898	18.583		0.625	2.019	4.330	5.874	2.375	16.654	NPT3"	UNC0.75"	6314-C3	6314-C3
		12.250																						
364/5TS		11.250					31.575								0.500	1.591	1.968	3.748	1.875					
		12.250																						
404/5T	16.000	12.250	0.807	6.625	19.921	17.520	38.074	10.000	1.811	3.937	5.433	19.843			0.750	2.449	5.512	7.250	2.875				NU217-C3	6314-C3
		13.752																						
404/5TS		12.250					35.074								0.500	1.842	2.756	4.250	2.125				6314-C3	
		13.752																						
444/5T	18.000	14.500		7.500	21.929	20.079	43.797	11.000	1.630		5.591	23.622	24.016	3.543	0.875	2.880	7.087	8.500	3.375	20.984	2xNPT3"		NU219-C3	6316-C3
		16.500																						
444/5TS		14.500					40.047								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
		16.500																						
447T		20.000				23.640	47.339		1.654	4.331	5.608				0.875	2.880	7.087	8.500	3.375	21.850			NU319-C3	6316-C3
447TS							45.589								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
449T		25.000				31.986	54.996				7.104				0.875	2.880	7.087	8.500	3.375				NU322-C3	6319-C3
449TS							51.246								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
504/5T	20.000	15.961	1.250	8.500	24.724	21.969	49.445	12.500	2.146	4.724	5.984	25.197			0.875	3.134	8.661	10.630	3.625				NU319-C3	6316-C3
		18.000																						
504/5TS		15.961					46.875								0.750	2.450	7.086	4.750	2.375				6316-C3	
		18.000																						
586/7T	23.000	22.000	1.181	10.000	29.528	29.921	61.389	14.500	2.492	5.236	7.874	30.248	30.709	4.291	1.000	3.312	8.661	11.625	3.875	25.787		UNC7/8"	NU322-C3	6319-C3
		25.000																						
586/7TS		22.000					54.514								0.625	2.021	3.000	4.750	2.375			UNC0.75"	6314-C3	6314-C3
		25.000																						

Explosion Proof Motors - High and NEMA Premium Efficiency
Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143TC	2.250	5.875	4.500	6.500	4	UNC3/8"x16	0.156	0.125	2.125
145TC									
182TC	2.750	7.250	8.500	8.875		UNC0.5"x13	0.250	0.250	2.625
184TC									
213TC	3.500								3.125
215TC									
254TC	4.250								3.750
256TC									
284TC	4.750	9.000	10.500	11.031					4.375
284TSC									3.000
286TC									4.375
286TSC									3.000
324TC	5.250	11.000	12.500	13.583		UNC5/8"x11			5.000
324TSC									3.500
326TC									5.000
326TSC									3.500
364/5TC	5.875			15.562	8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.312					8.250
444/5TSC									4.500
447TC									
447TSC									
449TC									
449TSC									
504/5TC	8.500	14.500	16.500						10.375
504/5TSC									8.125



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143TD	2.250	10.000	9.000	11.000	4	0.551	0.203
145TD							
182TD	2.750					0.562	
184TD							
213TD	3.500						
215TD							
254TD	4.250	12.500	11.000	14.000		0.828	
256TD							
284TD	4.750						
284TSD							
286TD							
286TSD							
324TD	5.250	16.000	14.000	18.000			
324TSD							
326TD							
326TSD							
364/5TD	5.875						
364/5TSD							
404/5TD	6.625	20.000	18.000	21.656	8		
404/5TSD							
444/5TD	7.500						
444/5TSD							
447TD							
447TDS							
449TD							
449TDS							
504/5TD	8.500	22.000		24.803			
504/5TSD							
586/7TD	10.000	30.000	28.000	32.000			
586/7TSD							



High Efficiency Three Phase Motors - ODP
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan)
- Efficiency Certification number CC029A according to US Department of Energy Regulations for EPACT Efficiency levels
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 230/460V, 460V or 575V
- Inverter duty
- Open drip proof (ODP)
- NEMA dimensions
- NEMA design “B” ratings
- Service Factor: 1.15
- Class “F” insulation
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- 1045 heat treated and stress relieved carbon steel shaft up to 365T. 4140 for frame 404T and up
- Ball bearings
- Color: RAL 5009 (Blue) - WEG paint plan 201A
- Paint: Enamel alkyd resin base
- F1 mount
- NPT threaded terminal box conduit hole
- Stainless steel nameplate - laser etched
- Ball bearings

Frame Specific Features

For Frame 143/5T up to 213/5T only

- Welded steel plate frames (welded feet)
- Cast iron endshields fixed with through bolt construction
- ‘ZZ’ bearings (double shielded)
- Degree of protection: IP21

For Frame 254/6T and up

- Cast Iron Frames
- Cast Iron endshields and terminal box
- Cooling system with finned rotor
- Regreasable bearings positive pressure lubrication system (frame 254T and up)
- Degree of protection: IP23

Optional Features

- Cable glands
- Special voltages
- Flanges
- Drip covers
- Specially designed shaft
- Second shaft end
- Thermistors, Thermostats or RTD’s (PT100)
- Auxiliary terminal box
- Roller bearings
- IEC metric frames (on request) for frames 160M to 280S/M
- F2 mount

Fire Pump Duty

Motor also certified for fire pump application with SF 1.15

LISTED
68YN
FIRE PUMP MOTOR
EX5990

NEMA MG1 Part 31

Inverter Duty

- 4:1 CT (143/5T to 404/5T less than 150HP)
- 2:1 CT (404/5T and above 150 HP or higher)
- 10:1 VT

* Other speed ranges available. Call for specific ratings

APPROVED BY
APPROVED BY
LR 38324
EEV 78282

High Efficiency Three Phase Motors - ODP
Purchasing Data

High Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	1800	143/5T	$326	$389	•	DP000X04P	1.41	1.13	82.5	33	12.086	0.875
	1200	143/5T	371	434	•	DP000X06P	1.73	1.38	80.0	38	12.086	0.875
1.5	3600	143/5T	334	397	•	DP001X02P	1.95	1.56	82.5	29	12.086	0.875
	1800	143/5T	334	397	•	DP001X04P	2.05	1.64	84.0	37	12.086	0.875
	1200	182/4T	435	498	•	DP001X06P	2.28	1.82	84.0	44	13.504	1.125
2	3600	143/5T	394	457	•	DP002X02P	2.52	2.02	84.0	40	12.086	0.875
	1800	143/5T	371	434	•	DP002X04P	2.87	2.30	84.0	40	12.086	0.875
	1200	182/4T	495	558	•	DP002X06P	2.98	2.38	85.5	60	14.291	1.125
3	3600	143/5T	436	499	•	DP003X02P	3.65	2.92	84.0	46	12.086	0.875
	1800	182/4T	422	493	•	DP003X04P	3.94	3.15	86.5	47	13.504	1.125
	1200	213/5T	723	794	•	DP003X06P	4.56	3.65	86.5	66	17.165	1.375
5	3600	182/4T	551	622	•	DP005X02P	6.10	4.88	86.5	48	13.504	1.125
	1800	182/4T	497	568	•	DP005X04P	6.39	5.11	87.5	60	14.291	1.125
	1200	213/5T	905	976	•	DP005X06P	7.27	5.82	87.5	96	17.165	1.375
7.5	3600	182/4T	647	718	•	DP007X02P	8.97	7.18	87.5	60	14.291	1.125
	1800	213/5T	668	749	•	DP007X04P	9.40	7.52	88.5	72	17.165	1.375
	1200	254/6T	1,183	1,340	$1,367	DP007X06P	9.63	7.70	88.5	232	20.669	0.875
10	3600	213/5T	835	916	•	DP010X02P	11.8	9.44	88.5	95	17.165	1.375
	1800	213/5T	835	916	•	DP010X04P	12.7	10.2	89.5	96	17.165	1.375
	1200	256T	1,470	1,627	1,654	DP010X06P	12.9	10.3	90.2	251	22.401	1.125
15	3600	213/5T	1,086	1,167	•	DP015X02P	17.1	13.7	89.5	126	17.165	1.375
	1800	254T	1,182	1,339	1,366	DP015X04P	18.7	15.0	91.0	221	20.669	0.875
	1200	284T	2,243	2,436	2,481	DP015X06P	17.6	14.1	90.2	353	23.386	1.125
20	3600	254T	1,340	1,497	1,524	DP020X02P	24.6	19.7	90.2	179	20.669	0.875
	1800	256T	1,438	1,595	1,622	DP020X04P	25.2	20.2	91.0	251	22.401	1.125
	1200	286T	2,574	2,767	2,812	DP020X06P	24.1	19.3	91.0	388	24.882	1.375
25	3600	256T	1,664	1,821	1,848	DP025X02P	29.3	23.4	91.0	225	22.401	1.125
	1800	284T	1,724	1,917	1,962	DP025X04P	30.1	24.1	91.7	271	23.386	1.125
	1200	324T	2,811	3,044	3,089	DP025X06P	30.9	24.7	91.7	450	26.181	2.125
30	3600	284TS	2,069	2,262	2,307	DP030X02P	34.0	27.2	92.4	333	22.000	1.375
	1800	286T	1,907	2,100	2,145	DP030X04P	35.6	28.5	92.4	357	24.882	1.375
	1200	326T	3,004	3,237	3,282	DP030X06P	36.9	29.5	92.4	560	27.667	2.125
40	3600	286TS	2,489	2,682	2,727	DP040X02P	45.8	36.6	92.4	417	23.504	1.625
	1800	324T	2,430	2,663	2,708	DP040X04P	48.8	39.0	93.0	450	26.181	2.125
	1200	364/5T	4,176	4,678	4,808	DP040X06P	48.2	38.6	93.0	728	29.764	2.375
50	3600	324TS	3,069	3,302	3,347	DP050X02P	57.7	46.2	93.0	478	24.685	1.875
	1800	326T	2,747	2,980	3,025	DP050X04P	60.2	48.2	93.6	538	27.667	2.125
	1200	364/5T	4,393	4,895	5,025	DP050X06P	59.4	47.5	93.0	825	29.764	2.375
60	3600	326TS	3,360	3,593	3,638	DP060X02P	70.6	56.5	93.0	564	26.181	1.875
	1800	364/5T	3,500	4,002	4,132	DP060X04P	70.2	56.2	93.6	633	29.764	2.375
	1200	404/5T	5,196	5,698	3,638	DP060X06P	71.0	56.8	93.6	882	34.133	2.875
75	3600	364/5TS	4,436	4,938	5,068	DP075X02P	80.6	64.5	94.1	695	27.638	1.875
	1800	364/5T	4,142	4,644	4,774	DP075X04P	85.3	68.2	94.1	825	29.764	2.375
	1200	404/5T	5,351	5,903	5,828	DP075X06P	87.8	70.2	93.6	1,052	34.133	2.875
100	3600	364/5TS	6,160	6,662	6,792	DP100X02P	110	88.0	94.1	825	27.638	1.875
	1800	404/5T	5,360	5,862	5,992	DP100X04P	115	92.0	94.1	882	34.133	2.875
	1200	444/5T	10,627	11,412	6,033	DP100X06P	125	100	94.1	1,486	39.803	3.375
125	3600	404/5TS	7,819	8,321	8,451	DP125X02P	132	106	94.1	931	31.141	2.125
	1800	404/5T	6,489	6,991	7,121	DP125X04P	137	110	94.5	1,052	34.133	2.875
	1200	444/5T	11,752	12,537	11,444	DP125X06P	150	120	94.1	1,740	39.803	3.375
150	3600	404/5TS	10,124	10,626	10,756	DP150X02P	159	127	94.5	1,246	31.141	2.125
	1800	444/5T	9,531	10,316	10,348	DP150X04P	165	132	95.0	1,235	39.803	3.375
	1200	444/5T	12,778	13,563	17,595	DP150X06P	183	146	94.5	2,007	39.803	3.375
200	3600	444/5TS	13,837	14,622	14,654	DP200X02P	221	177	94.5	1,537	36.062	2.375
	1800	444/5T	11,726	12,511	12,543	DP200X04P	220	176	95.0	1,740	39.803	3.375
	1200	447/9T	18,035	19,035	19,135	DP200X06P	243	194	94.5	2,205	48.317	3.375
250	3600	444/5TS	14,398	15,183	15,215	DP250X02P	272	218	95.0	1,634	36.062	2.375
	1800	444/5T	12,412	13,197	13,229	DP250X04P	270	216	95.4	1,737	39.803	3.375
	1200	447/9T	21,462	22,462	22,562	DP250X06P	300	240	95.4	2,426	48.317	3.375
300	3600	444/5TS	16,909	17,694	17,726	DP300X02P	323	258	95.0	1,709	36.062	2.375
	1800	447/9T	16,592	17,592	17,692	DP300X04P	325	260	95.4	2,095	48.317	3.375
	1200	447/9T	23,712	24,712	24,812	DP300X06P	357	286	95.4	2,646	48.317	3.375
350	3600	447/9TS	18,776	19,776	19,876	DP350X02P	377	302	95.0	1,819	44.567	2.375
	1800	447/9T	18,819	19,819	19,919	DP350X04P	384	307	95.4	2,315	48.317	3.375
400	3600	447/9TS	19,474	20,474	20,574	DP400X02P	434	347	95.4	1,896	44.567	2.375
	1800	447/9T	21,164	22,164	22,264	DP400X04P	443	354	95.4	2,536	48.317	3.375
450	3600	447/9TS	21,231	22,231	22,331	DP450X02P	470	376	95.8	2,073	44.567	2.375
500	3600	447/9TS	23,665	24,665	24,765	DP500X02P	539	431	95.8	2,139	44.567	2.375
600	3600	447/9TS	24,533	25,533	25,633	DP600X02P	633	506	95.8	2,359	44.567	2.375

Flange: For C Flange replace 'D' with 'C'
For D Flange replace 'DP' with 'DD'
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

High Efficiency Three Phase Motors - ODP
Electrical Data

Rated Output		Full Load Speed	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load								Hot	Cold		
HP	kW	(RPM)		230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100						
1	0.75	1730	E143/5T	3.00	1.50	1.20	L	7.6	2.99	3.3	3.5	80.0	81.5	82.5	0.57	0.68	0.75	1.15	0.12506	-	-	37	-
		1140	E143/5T	3.40	1.70	1.36	K	6.0	4.54	2.2	2.7	77.0	78.5	80.0	0.45	0.58	0.68	1.15	0.14285	-	-	41	-
		3430	E143/5T	3.90	1.95	1.56	K	8.6	2.27	4.5	3.5	81.5	84.0	84.0	0.69	0.80	0.86	1.15	0.04366	-	-	35	-
1.5	1.1	1730	E143/5T	4.20	2.10	1.68	K	7.5	4.49	3.0	3.0	82.5	84.0	84.0	0.57	0.70	0.79	1.15	0.14285	-	-	41	-
		1150	182/4T	4.56	2.28	1.82	K	7.0	6.76	2.0	2.7	80.0	82.5	84.0	0.52	0.65	0.72	1.15	0.23825	-	-	55	-
		3430	E143/5T	5.00	2.50	2.00	K	9.0	3.02	4.5	3.5	84.0	85.5	85.5	0.73	0.83	0.88	1.15	0.05956	-	-	39	-
2	1.5	1725	E143/5T	5.74	2.87	2.30	K	7.5	6.01	3.5	3.0	82.5	84.0	84.0	0.56	0.70	0.78	1.15	0.16065	-	-	44	-
		1150	182/4T	5.96	2.98	2.38	K	7.0	9.01	2.1	2.7	82.5	84.0	85.5	0.54	0.67	0.74	1.15	0.31774	-	-	67	-
		3400	F143/5T	7.30	3.65	2.92	K	8.5	4.57	4.0	3.0	81.5	82.5	84.0	0.80	0.88	0.92	1.15	0.07166	-	-	43	-
3	2.2	1760	182/4T	7.88	3.94	3.15	K	8.1	8.83	2.4	3.0	82.5	85.5	86.5	0.62	0.74	0.81	1.15	0.25415	-	-	59	-
		1165	213/5/5T	9.12	4.56	3.65	J	6.0	13.3	1.6	2.5	84.0	85.5	86.5	0.50	0.62	0.70	1.15	0.68983	-	-	88	-
		3480	182/4T	12.2	6.10	4.88	H	7.1	7.44	2.0	2.9	85.5	86.5	86.5	0.73	0.82	0.88	1.15	0.12719	-	-	57	-
5	3.7	1755	182/4T	12.8	6.39	5.11	J	7.1	14.8	2.1	3.0	84.0	86.5	87.5	0.66	0.77	0.83	1.15	0.31774	-	-	69	-
		1160	213/5/5T	14.5	7.27	5.82	H	6.0	22.3	1.6	2.2	86.5	87.5	87.5	0.54	0.67	0.73	1.15	1.01185	-	-	106	-
		3485	182/4T	17.9	8.97	7.18	H	7.0	11.2	2.2	3.0	86.5	87.5	87.5	0.78	0.85	0.88	1.15	0.16350	-	-	68	-
7.5	5.5	1755	213/5/5T	18.8	9.40	7.52	H	6.8	22.1	1.8	2.5	85.5	87.5	88.5	0.68	0.78	0.83	1.15	0.91977	-	-	103	-
		1175	254T	19.3	9.63	7.70	H	6.3	33.1	1.8	2.5	86.5	88.5	88.5	0.64	0.75	0.81	1.15	2.38581	12	26	214	56
		3515	213/5/5T	23.6	11.8	9.44	H	6.8	14.7	2.2	2.3	86.5	88.5	88.5	0.78	0.86	0.90	1.15	0.44351	-	-	107	-
10	7.5	1760	213/5/5T	25.4	12.7	10.2	H	6.5	29.4	1.8	2.3	86.5	88.5	89.5	0.67	0.78	0.83	1.15	1.01185	-	-	109	-
		1175	256T	25.8	12.9	10.3	H	6.2	44.1	1.8	2.5	88.0	89.5	90.2	0.62	0.74	0.81	1.15	2.72681	12	26	237	57
		3500	213/5/5T	34.2	17.1	13.7	G	6.2	22.2	2.1	3.1	88.5	89.5	89.5	0.84	0.89	0.90	1.15	0.57664	-	-	124	-
15	11	1765	254T	37.4	18.7	15.0	G	6.0	44.0	2.2	2.5	89.5	90.2	91.0	0.65	0.75	0.81	1.15	1.54815	14	31	210	59
		1180	284T	35.2	17.6	14.1	G	6.2	65.9	1.9	2.3	89.5	90.2	90.2	0.75	0.83	0.87	1.15	5.07205	12	26	318	58
		3530	254T	49.2	24.6	19.7	G	6.0	29.4	1.9	2.5	88.5	90.2	90.2	0.72	0.80	0.85	1.15	0.73302	10	22	198	66
20	15	1765	256T	50.4	25.2	20.2	G	5.8	58.7	2.2	2.5	89.5	90.2	91.0	0.66	0.77	0.82	1.15	1.90528	12	26	240	60
		1175	286T	48.2	24.1	19.3	F	5.5	88.2	2.2	2.2	90.2	91.0	91.0	0.75	0.82	0.86	1.15	6.54450	18	40	372	58
		3530	256T	58.6	29.3	23.4	G	6.0	36.7	2.0	2.5	89.5	90.2	91.0	0.76	0.85	0.87	1.15	0.90744	10	22	250	67
25	18.5	1765	284T	60.2	30.1	24.1	G	6.0	73.4	2.2	2.5	89.5	91.0	91.7	0.70	0.79	0.84	1.15	2.97978	13	29	312	62
		1180	324T	61.8	30.9	24.7	G	5.7	110	1.8	2.3	89.5	91.0	91.7	0.67	0.77	0.82	1.15	7.44932	22	48	445	60
		3540	284TS	68.0	34.0	27.2	F	6.2	43.9	2.0	2.7	90.2	91.7	92.4	0.81	0.87	0.88	1.15	2.38605	12	26	321	72
30	22	1770	286T	71.2	35.6	28.5	G	6.1	87.8	2.5	3.0	90.2	92.4	92.4	0.74	0.81	0.84	1.15	3.83121	13	29	360	63
		1180	326T	73.8	36.9	29.5	G	5.8	132	1.8	2.2	90.2	91.7	92.4	0.65	0.76	0.81	1.15	8.93909	30	66	523	60
		3535	286TS	91.6	45.8	36.6	G	6.3	58.6	1.8	2.4	91.7	92.4	92.4	0.81	0.87	0.89	1.15	2.35686	16	35	359	73
40	30	1765	324T	97.6	48.8	39.0	F	5.2	117	1.8	2.0	91.7	92.4	93.0	0.70	0.79	0.83	1.15	5.72652	24	53	514	64
		1180	364/5T	96.4	48.2	38.6	G	6.0	176	1.8	2.2	92.4	93.0	93.0	0.71	0.80	0.84	1.15	18.9876	24	53	536	67
		3560	324TS	115	57.7	46.2	G	6.4	72.8	2.2	2.5	91.7	93.0	93.6	0.75	0.83	0.86	1.15	3.51204	28	62	518	74
50	37	1765	326T	120	60.2	48.2	F	5.6	147	2.0	2.1	92.4	93.0	93.0	0.72	0.80	0.83	1.15	6.05376	18	40	494	65
		1175	364/5T	119	59.4	47.5	G	6.0	220	1.9	2.2	92.4	93.0	93.0	0.71	0.80	0.84	1.15	21.7799	18	40	594	68
		3555	326TS	141	70.6	56.5	G	6.0	87.4	2.3	2.8	91.7	93.0	93.0	0.75	0.83	0.86	1.15	4.15061	19	42	517	75
60	45	1780	364/5T	140	70.2	56.2	G	6.1	175	2.2	2.6	91.7	93.0	93.6	0.74	0.84	0.86	1.15	12.4559	16	35	697	67
		1180	404/5T	142	71.0	56.8	G	6.2	263	2.0	2.3	93.0	93.6	93.6	0.72	0.81	0.85	1.15	27.9231	16	35	949	69
		3550	364/5TS	161	80.6	64.5	F	6.3	109	1.8	2.8	93.0	94.1	94.1	0.84	0.90	0.91	1.15	6.81099	15	33	524	80
75	55	1780	364/5T	171	85.3	68.2	F	6.1	218	2.4	2.8	93.0	93.6	94.1	0.74	0.82	0.86	1.15	16.1926	17	37	770	68
		1180	404/5T	176	87.8	70.2	G	6.1	329	2.0	2.2	93.0	93.6	93.6	0.72	0.81	0.84	1.15	27.9231	14	31	949	69
		3550	364/5TS	220	110	88.0	F	6.3	146	1.9	3.0	93.6	94.1	94.1	0.86	0.91	0.91	1.15	8.30075	13	29	779	83
100	75	1775	404/5T	230	115	92.0	G	6.2	292	2.4	2.5	93.0	93.6	94.1	0.74	0.84	0.87	1.15	19.5141	10	22	928	69
		1185	444/5T	250	125	100	F	5.6	437	1.9	2.0	94.1	94.1	94.1	0.65	0.76	0.80	1.15	43.8246	18	40	1380	77
		3560	404/5TS	264	132	106	F	6.4	182	1.8	2.7	93.6	94.1	94.1	0.85	0.90	0.91	1.15	9.36481	11	24	890	84
125	90	1775	404/5T	274	137	110	F	6.4	365	2.4	2.6	93.0	94.1	94.5	0.75	0.84	0.87	1.15	20.7600	11	24	954	69
		1180	444/5T	300	150	120	F	5.5	549	2.0	2.0	94.1	94.1	94.1	0.66	0.76	0.80	1.15	70.8986	20	44	1482	78
		3555	404/5TS	318	159	127	F	6.4	219	1.9	3.0	93.6	94.1	94.5	0.87	0.91	0.92	1.15	11.9189	10	22	994	84
150	110	1780	444/5T	330	165	132	G	6.4	437	2.4	2.6	93.6	94.5	95.0	0.75	0.85	0.88	1.15	35.2504	19	42	1421	77
		1185	444/5T	366	183	146	F	5.7	656	2.0	2.0	94.5	94.5	94.5	0.66	0.76	0.80	1.15	57.1656	18	40	1704	79
		3565	444/5TS	442	221	177	G	6.4	291	2.0	2.5	93.6	94.5	94.5	0.83	0.88	0.90	1.15	25.6892	20	44	1503	88
200	150	1780	444/5T	440	220	176	G	6.5	582	2.3	2.4	93.6	94.5	95.0	0.80	0.88	0.90	1.15	49.5409	19	42	1627	78
		1200	447/9T	486	243	194	G	5.8	874	2.0	2.2	94.5	94.5	94.5	0.69	0.78	0.82	1.15	98.166	18	40	2205	79
		3565	444/5TS	544	272	218	F	6.4	363	2.0	2.5	94.1	94.5	95.0	0.86	0.89	0.90	1.15	30.1568	15	33	1634	88
250	185	1780	444/5T	540	270	216	G	6.7	728	2.2	2.3	94.1	95.4	95.4	0.81	0.88	0.90	1.15	57.1627	15	33	1737	79
		1200	447/9T	600	300	240	G	6.5	1093	2.2	2.4	95.0	95.4	95.4	0.67	0.77	0.81	1.15	114.530	18	40	2426	79
		3565	444/5TS	646	323	258	F	6.3	436	2.0	2.6	94.5	95.0	95.0	0.84	0.89	0.90	1.15	33.5077	16	35	1709	89
300	220	1800	447/9T	650	325	260	G	7.1	873	2.2	2.3	95.4	95.4	95.4	0.81	0.87	0.89	1.15	56.1470	10	22	2095	77
		1200	447/9T	714	357	286	H	6.7	1312	2.2	2.4	95.0	95.4	95.4	0.67	0.77	0.81	1.15	130.890	18	40	2646	79
350	260	3600	447/9TS	754	377	302	H	6.7	509	1.9	2.5	94.5	95.0	95.0	0.88	0.90	0.91	1.15	35.7420	14	31	1819	87
		1800	447/9T	768	384	307	H	7.4	1019	2.4	2.6	95.4	95.8	95.4	0.81	0.88	0.89	1.15	66.0550	10	22	2315	77
400	300	3600	447/9TS	868	434	347	H	7.2	581	2.0	2.6	95.0	95.4	95.4	0.88	0.90	0.91	1.15	39.0920	14	31	1896	87
		1800	447/9T	886	443	354	H	7.7	1164	2.6	2.7	95.8	95.8	95.4	0.81	0.87	0.89	1.15	77.6140	9	20	2536	77
450	330	3600	447/9TS	940	470	376	J	8.6	653	2.2	2.6	95.0	95.4	95.8	0.89	0.91	0.92	1.15	43.5600	14	31	2073	87
500	370	3600	447/9TS	1078	539	431	J	8.5	726	2.4	2.7	95.0	95.4	95.8	0.86	0.89	0.90	1.15	46.9110	14	31	2139	87
550	400	3600	447/9TS	1152	576	461	J	8.0	799	2.4	2.6	95.0	95.4	95.8	0.88	0.90	0.91	1.15	50.2620	14	31	2271	87
600	440	3600	447/9TS	1266	633	506	J	8.5	871	2.5	2.8	95.0	95.4	95.8	0.88	0.90	0.91	1.15	53.6120	14	31	2359	87

Frame 143/5T to 213/5T are IP21
Frame 254T to 445T are IP23

NEMA Premium Efficiency Three Phase Motors - ODP
Purchasing Data

Standard Features

- Efficiency Certification number EEV 78282 according to National Resources Canada (NRCan)
- Efficiency Certification number CC029A according to US Department of Energy Regulations for EPACT Efficiency levels
- Three-phase, 2, 4 and 6 pole, 60Hz
- Voltage: 208-230/460V, 460V or 575V
- Inverter duty
- Open drip proof (ODP)
- NEMA dimensions
- NEMA design “B” ratings
- Service Factor: 1.15
- Class “F” insulation
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- 1045 heat treated and stress relieved carbon steel shaft up to 365T. 4140 for frame 404T and up
- Ball bearings
- Color: RAL 5009 (Blue) - WEG paint plan 201A
- Paint: Synthetic Enamel alkyd resin base
- F1 mount
- NPT threaded terminal box conduit hole
- Stainless steel nameplate - laser etched
- Ball bearings

Frame Specific Features

For Frame 143/5T up to 213/5T only

- Welded steel plate frames (welded feet)
- Cast iron endshields fixed with through bolt construction
- ‘ZZ’ bearings (double shielded)
- Degree of protection: IP21

For Frame 254/6T and up

- Cast Iron Frames
- Cast Iron endshields and terminal box
- Cooling system with finned rotor
- Regreasable bearings positive pressure lubrication system (frame 254T and up)
- Degree of protection: IP23

Optional Features

- Cable glands
- Special voltages
- Flanges
- Specially designed shaft
- Second shaft end
- Thermistors, Thermostats or RTD’s (PT100)
- Auxiliary terminal box
- Roller bearings
- IEC metric frames (on request) for frames 160M to 280S/M
- F2 mount

Fire Pump Duty

Motor also certified for fire pump application with SF 1.15

LISTED
68YN
FIRE PUMP MOTOR
EX5990

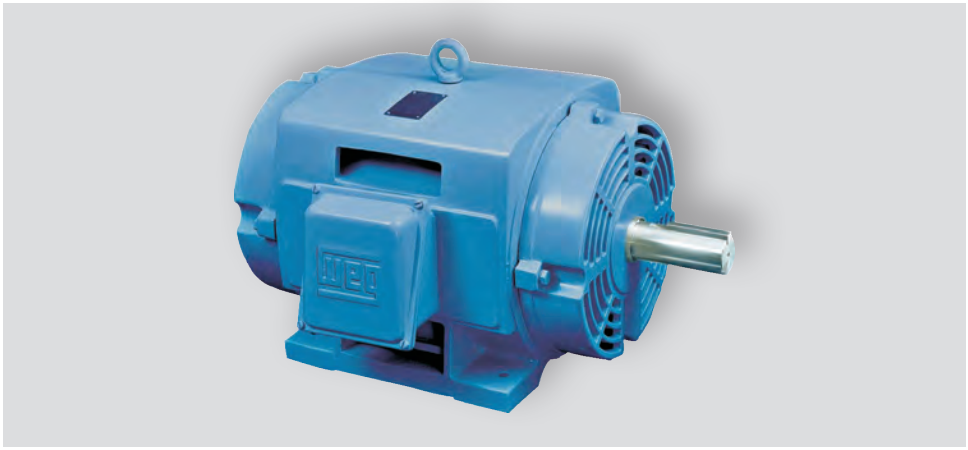
NEMA MG1 Part 31

Inverter Duty

- 4:1 CT (143/5T to 404/5T less than 150HP)
- 2:1 CT (404/5T and above 150 HP or higher)
- 10:1 VT

* Other speed ranges available. Call for specific ratings

APPROVED BY LR 38324
APPROVED BY EEV 78282



NEMA Premium Efficiency Three Phase Motors - ODP
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM						460V	575V				
1	1800	143/5T	$391	$454	•	DP000X04NP	1.45	1.16	85.5	33	12.086	0.875
	1200	143/5T	445	508	•	DP000X06NP	1.63	1.30	82.5	39	12.086	0.875
1.5	3600	143/5T	401	464	•	DP001X02NP	1.90	1.52	85.5	31	12.086	0.875
	1800	143/5T	401	464	•	DP001X04NP	2.07	1.66	86.5	40	12.086	0.875
	1200	182/4T	522	593	•	DP001X06NP	2.31	1.85	86.5	49	13.504	1.125
2	3600	143/5T	473	536	•	DP002X02NP	2.56	2.05	86.5	40	12.086	0.875
	1800	143/5T	445	508	•	DP002X04NP	2.83	2.26	86.5	40	12.086	0.875
	1200	182/4T	594	665	•	DP002X06NP	3.03	2.42	87.5	66	14.291	1.125
3	3600	143/5T	523	586	•	DP003X02NP	3.59	2.87	87.5	46	12.086	0.875
	1800	182/4T	506	577	•	DP003X04NP	4.06	3.25	89.5	46	13.504	1.125
	1200	213/5T	868	949	•	DP003X06NP	4.27	3.42	88.5	73	17.165	1.375
5	3600	182/4T	661	732	•	DP005X02NP	6.15	4.92	88.5	48	13.504	1.125
	1800	182/4T	596	667	•	DP005X04NP	6.40	5.12	89.5	62	14.291	1.125
	1200	213/5T	1,086	1,167	•	DP005X06NP	6.92	5.54	89.5	105	17.165	1.375
7.5	3600	182/4T	776	847	•	DP007X02NP	8.95	7.16	88.5	60	14.291	1.125
	1800	213/5T	802	883	•	DP007X04NP	9.03	7.22	91.0	77	17.165	1.375
	1200	254/6T	1,420	1,577	$1,604	DP007X06NP	9.69	7.75	90.2	255	20.669	0.875
10	3600	213/5T	1,002	1,083	•	DP010X02NP	11.8	9.44	91.0	121	17.165	1.375
	1800	213/5T	1,002	1,083	•	DP010X04NP	12.2	9.76	91.7	99	17.165	1.375
	1200	256T	1,764	1,921	1,948	DP010X06NP	13.0	10.4	91.7	276	22.401	1.125
15	3600	213/5T	1,303	1,384	•	DP015X02NP	17.5	14.0	91.0	126	17.165	1.375
	1800	254T	1,418	1,575	1,602	DP015X04NP	18.6	14.9	93.0	254	20.669	0.875
	1200	284T	2,692	2,885	2,930	DP015X06NP	17.7	14.2	91.7	400	23.386	1.125
20	3600	254T	1,608	1,765	1,792	DP020X02NP	24.6	19.7	91.0	179	20.669	0.875
	1800	256T	1,726	1,883	1,910	DP020X04NP	25.3	20.2	93.0	295	22.401	1.125
	1200	286T	3,089	3,282	3,327	DP020X06NP	24.0	19.2	92.4	437	24.882	1.375
25	3600	256T	1,997	2,154	2,181	DP025X02NP	29.8	23.8	91.7	243	22.401	1.125
	1800	284T	2,069	2,262	2,307	DP025X04NP	29.9	23.9	93.6	342	23.386	1.125
	1200	324T	3,373	3,606	3,651	DP025X06NP	30.4	24.3	93.0	509	26.181	2.125
30	3600	284TS	2,483	2,676	2,721	DP030X02NP	35.2	28.2	92.4	333	22.000	1.375
	1800	286T	2,288	2,481	2,526	DP030X04NP	35.4	28.3	94.1	419	24.882	1.375
	1200	326T	3,605	3,838	3,883	DP030X06NP	36.0	28.8	93.6	630	27.667	2.125
40	3600	286TS	2,987	3,180	3,225	DP040X02NP	47.1	37.7	93.0	417	23.504	1.625
	1800	324T	2,916	3,149	3,194	DP040X04NP	50.7	40.6	94.1	529	26.181	2.125
	1200	364/5T	5,011	5,513	5,643	DP040X06NP	48.2	38.6	94.1	813	29.764	2.375
50	3600	324TS	3,683	3,916	3,961	DP050X02NP	59.0	47.2	93.0	496	24.685	1.875
	1800	326T	3,296	3,529	3,574	DP050X04NP	61.4	49.1	94.1	573	27.667	2.125
	1200	364/5T	5,272	5,774	5,904	DP050X06NP	60.2	48.2	94.1	948	29.764	2.375
60	3600	326TS	4,032	4,265	4,310	DP060X02NP	71.0	56.8	93.6	582	26.181	1.875
	1800	364/5T	4,200	4,702	4,832	DP060X04NP	70.0	56.0	94.5	825	29.764	2.375
	1200	404/5T	6,235	6,737	6,867	DP060X06NP	71.2	57.0	94.5	1,007	34.133	2.875
75	3600	364/5TS	5,323	5,825	5,955	DP075X02NP	81.5	65.2	93.6	695	27.638	1.875
	1800	364/5T	4,970	5,472	5,602	DP075X04NP	85.5	68.4	95.0	825	29.764	2.375
	1200	404/5T	6,421	6,923	7,053	DP075X06NP	85.9	68.7	94.5	1,188	34.133	2.875
100	3600	364/5TS	7,392	7,894	8,024	DP100X02NP	111	88.8	94.5	825	27.638	1.875
	1800	404/5T	6,432	6,934	7,064	DP100X04NP	115	92.0	95.4	1,052	34.133	2.875
	1200	444/5T	12,752	13,537	13,569	DP100X06NP	125	100	95.0	1,635	39.803	3.375
125	3600	404/5TS	9,383	9,885	10,015	DP125X02NP	132	106	94.5	986	31.141	2.125
	1800	404/5T	7,787	8,289	8,419	DP125X04NP	141	113	95.4	1,144	34.133	2.875
	1200	444/5T	14,102	14,887	14,919	DP125X06NP	158	126	95.0	1,914	39.803	3.375
150	3600	404/5TS	12,149	12,651	12,781	DP150X02NP	159	127	94.5	1,246	31.141	2.125
	1800	444/5T	11,437	12,222	12,254	DP150X04NP	166	133	95.8	1,433	39.803	3.375
	1200	444/5T	15,334	16,119	16,151	DP150X06NP	183	146	95.4	2,208	39.803	3.375
200	3600	444/5TS	16,604	17,389	17,421	DP200X02NP	223	178	95.0	1537	36.062	2.375
	1800	444/5TS	14,071	14,856	14,888	DP200X04NPS	223	178	95.8	1740	39.803	2.375
	1800	444/5T	14,071	14,856	14,888	DP200X04NP	223	178	95.8	1740	39.803	3.375
	1200	447/9T	21,642	22,642	22,742	DP200X06NP	241	193	95.4	2205	48.317	3.375
250	3600	444/5TS	17,278	18,063	18,095	DP250X02NP	273	218	95.0	1806	36.062	2.375
	1800	444/5TS	14,894	15,679	15,711	DP250X04NPS	275	220	95.8	2029	36.062	2.375
	1800	444/5T	14,894	15,679	15,711	DP250X04NP	275	220	95.8	2029	39.803	3.375
	1200	447/9T	25,754	26,754	26,854	DP250X06NP	300	240	95.4	2426	48.317	3.375
300	3600	444/5TS	20,291	21,076	21,108	DP300X02NP	323	258	95.4	2007	36.062	2.375
	1800	447/9T	19,910	20,910	21,010	DP300X04NP	324	259	95.8	2095	48.317	3.375
	1200	447/9T	28,454	29,454	29,554	DP300X06NP	358	286	95.4	2646	48.317	3.375
350	3600	447/9TS	22,531	23,531	23,631	DP350X02NP	376	301	95.4	1819	44.567	2.375
	1800	447/9T	22,583	23,583	23,683	DP350X04NP	383	306	95.8	2315	48.317	3.375
400	3600	447/9TS	23,369	24,369	24,469	DP400X02NP	433	346	95.8	1896	44.567	2.375
	1800	447/9T	25,397	26,397	26,497	DP400X04NP	443	354	95.8	2536	48.317	3.375
450	3600	447/9TS	25,477	26,477	26,577	DP450X02NP	468	374	96.2	2073	44.567	2.375
500	3600	447/9TS	28,398	29,398	29,498	DP500X02NP	536	429	96.2	2139	44.567	2.375
600	3600	447/9TS	29,440	30,440	30,540	DP600X02NP	573	458	96.2	2271	44.567	2.375

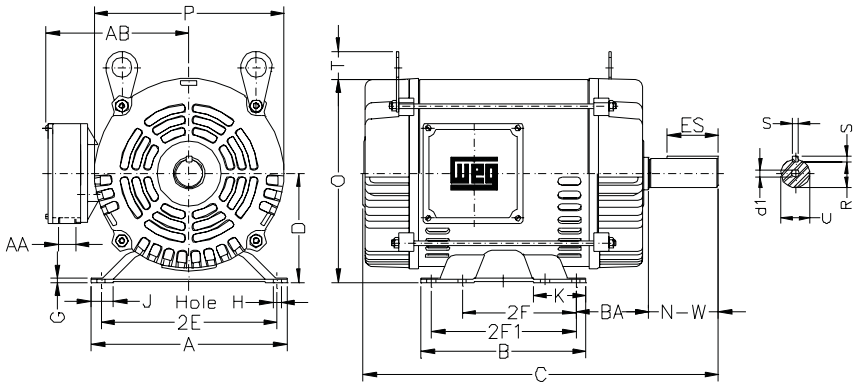
Flange: For C Flange replace 'D' with 'C'
For D Flange replace 'DP' with 'DD'
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

NEMA Premium Efficiency Three Phase Motors - ODP
Electrical Data

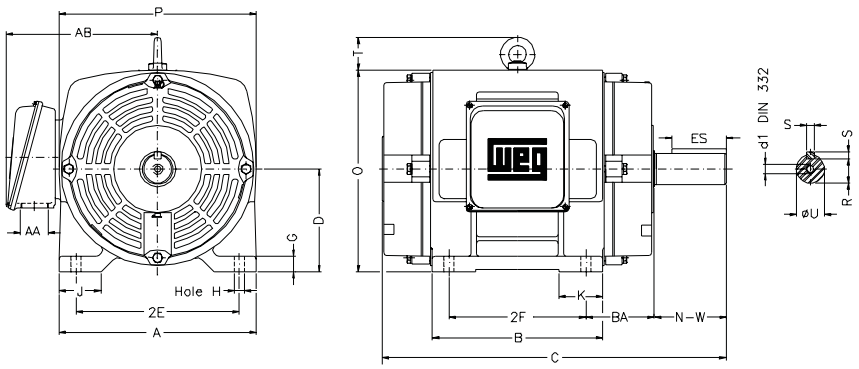
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1730	E143/5T	2.90	1.45	1.16	L	8.0	2.99	3.2	3.3	83.0	85.5	85.5	0.54	0.68	0.76	1.15	0.12506	-	-	38	-
1.5	1.1	3430	E143/5T	3.80	1.90	1.52	L	9.0	2.27	3.5	3.5	82.5	85.5	85.5	0.70	0.80	0.87	1.15	0.05173	-	-	39	-
		1730	E143/5T	4.14	2.07	1.66	L	8.5	4.49	3.3	3.4	84.5	86.5	86.5	0.56	0.70	0.78	1.15	0.16065	-	-	44	-
2	1.5	3430	E143/5T	5.12	2.56	2.05	L	9.5	3.02	3.5	3.5	84.0	85.5	86.5	0.68	0.79	0.85	1.15	0.05956	-	-	42	-
		1720	E143/5T	5.66	2.83	2.26	K	7.8	6.02	3.2	3.3	84.5	86.5	86.5	0.56	0.70	0.77	1.15	0.16065	-	-	44	-
3	2.2	3420	F143/5T	7.18	3.59	2.87	K	9.0	4.54	3.5	3.2	86.5	87.5	87.5	0.75	0.85	0.89	1.15	0.07166	-	-	45	-
		1760	182T	8.12	4.06	3.25	K	8.1	8.83	2.4	3.0	85.5	88.5	89.5	0.54	0.68	0.76	1.15	0.25415	-	-	58	-
5	3.7	3490	182T	12.3	6.17	4.94	H	7.0	7.42	2.0	2.8	87.5	88.5	88.5	0.68	0.80	0.85	1.15	0.12719	-	-	58	-
		1755	184T	12.8	6.41	5.13	J	7.3	14.8	2.1	2.9	88.5	89.5	89.5	0.63	0.75	0.81	1.15	0.34954	-	-	68	-
7.5	5.5	3480	184T	17.9	8.97	7.18	H	7.0	11.2	2.1	2.8	87.5	88.5	88.5	0.73	0.83	0.87	1.15	0.16350	-	-	68	-
		1760	213/5T	18.1	9.03	7.22	H	7.2	22.1	1.8	2.7	89.0	90.2	91.0	0.68	0.79	0.84	1.15	0.91977	-	-	102	-
10	7.5	3520	213/5T	23.7	11.9	9.49	J	7.8	14.7	2.2	2.8	89.5	90.2	90.2	0.73	0.83	0.88	1.15	0.48813	-	-	123	-
		1765	213/5T	24.4	12.2	9.76	K	8.5	29.4	2.1	2.9	90.0	91.0	91.7	0.64	0.76	0.84	1.15	1.19576	-	-	117	-
15	11	3515	213/5T	34.8	17.4	13.9	J	8.0	22.1	2.1	2.7	90.2	91.0	91.0	0.73	0.82	0.87	1.15	0.57664	-	-	124	-
		1775	254T	37.2	18.6	14.9	K	8.5	43.8	2.2	3.3	91.7	92.4	93.0	0.60	0.72	0.80	1.15	2.08397	14	31	236	59
20	15	3520	254T	49.2	24.6	19.7	G	6.0	29.4	1.9	2.5	89.5	90.2	91.0	0.71	0.80	0.84	1.15	0.73278	12	26	198	66
		1775	256T	50.0	25.0	20.0	K	8.6	58.4	2.3	3.4	91.7	93.0	93.0	0.60	0.72	0.81	1.15	2.61979	12	26	274	60
25	18.5	3530	256T	59.6	29.8	23.8	H	6.8	36.7	2.0	2.6	91.0	91.7	91.7	0.73	0.82	0.85	1.15	1.08185	9	20	243	67
		1770	284T	59.8	29.9	23.9	H	6.8	73.2	2.5	2.8	92.4	93.0	93.6	0.67	0.78	0.83	1.15	3.40549	15	33	358	62
		1770	284TS	59.8	29.9	23.9	H	6.8	73.2	2.5	2.8	92.4	93.0	93.6	0.67	0.78	0.83	1.15	3.40549	15	33	342	62
30	22	3530	284TS	70.4	35.2	28.2	H	7.0	44.0	2.2	2.8	91.0	92.4	92.4	0.71	0.81	0.85	1.15	1.88559	10	22	318	72
		1770	286TS	70.8	35.4	28.3	J	8.0	87.8	2.8	3.0	93.0	93.6	94.1	0.67	0.78	0.83	1.15	4.89550	14	31	419	63
		1770	286T	70.8	35.4	28.3	J	8.0	87.8	2.8	3.0	93.0	93.6	94.1	0.67	0.78	0.83	1.15	4.89550	14	31	409	63
40	30	3535	286TS	94.2	47.1	37.7	H	7.0	58.6	2.0	2.6	91.7	93.0	93.0	0.74	0.83	0.86	1.15	2.35686	10	22	357	73
		1775	324TS	95.2	47.6	38.1	G	6.2	117	2.2	2.3	93.0	94.1	94.1	0.69	0.79	0.84	1.15	6.54450	28	62	529	64
		1775	324T	95.2	47.6	38.1	G	6.2	117	2.2	2.3	93.0	94.1	94.1	0.69	0.79	0.84	1.15	6.54450	28	62	545	64
50	37	3555	324TS	118	59.1	47.3	G	6.4	72.9	2.2	2.6	92.4	93.6	93.6	0.74	0.82	0.84	1.15	3.83121	28	62	537	74
		1775	326TS	123	61.4	49.1	H	6.6	146	2.6	2.6	92.5	94.1	94.5	0.64	0.75	0.80	1.15	7.03547	12	26	573	65
		1775	326T	123	61.4	49.1	H	6.6	146	2.6	2.6	92.5	94.1	94.5	0.64	0.75	0.80	1.15	7.03547	12	26	557	65
60	45	3555	326TS	142	71.0	56.8	G	6.2	87.4	2.0	2.6	93.0	93.6	93.6	0.77	0.84	0.85	1.15	4.36347	24	53	526	75
		1780	364TS	140	69.9	55.9	J	7.8	175	2.5	3.0	93.0	94.5	95.0	0.70	0.80	0.85	1.15	16.1926	15	33	825	68
		1780	364T	140	69.9	55.9	J	7.8	175	2.5	3.0	93.0	94.5	95.0	0.70	0.80	0.85	1.15	16.1926	15	33	640	68
75	55	3550	364TS	163	81.5	65.2	G	6.5	109	1.8	2.8	93.6	94.1	94.1	0.83	0.88	0.90	1.15	6.81075	14	31	526	80
		1780	365TS	171	85.5	68.4	H	7.4	218	2.4	3.0	93.6	94.5	95.0	0.70	0.80	0.85	1.15	16.1926	14	31	825	68
		1780	365T	171	85.5	68.4	H	7.4	218	2.4	3.0	93.6	94.5	95.0	0.70	0.80	0.85	1.15	16.1926	14	31	642	68
100	75	3550	365TS	222	111	88.8	G	6.7	146	1.9	2.8	94.1	94.5	94.5	0.84	0.89	0.90	1.15	8.30075	12	26	587	83
		1780	404T	230	115	92.0	H	7.5	291	2.5	2.9	94.1	95.0	95.4	0.73	0.82	0.86	1.15	20.7597	10	22	991	69
		1780	404TS	230	115	92.0	H	7.5	291	2.5	2.9	94.1	95.0	95.4	0.73	0.82	0.86	1.15	20.7597	10	22	1052	69
125	90	3550	404TS	262	131	105	F	6.5	182	1.8	2.8	94.1	94.5	94.5	0.87	0.90	0.91	1.15	10.2162	11	24	986	84
		1780	405TS	276	138	110	J	8.6	364	2.2	3.0	94.5	95.4	95.4	0.73	0.83	0.86	1.15	26.5726	10	22	1144	69
		1780	405T	276	138	110	J	8.6	364	2.2	3.0	94.5	95.4	95.4	0.73	0.83	0.86	1.15	26.5726	10	22	1056	69
150	110	3550	405TS	318	159	127	G	7.0	219	1.9	2.9	94.5	94.5	94.5	0.87	0.91	0.92	1.15	11.9189	9	20	1246	84
		1780	444TS	332	166	133	G	7.1	437	2.3	2.6	94.4	95.4	95.8	0.74	0.83	0.87	1.15	49.5409	19	42	1433	78
		1780	444T	332	166	133	G	7.1	437	2.3	2.6	94.4	95.4	95.8	0.74	0.83	0.87	1.15	49.5409	19	42	1433	78
200	150	3575	444TS	446	223	178	G	6.5	290	1.9	2.5	93.6	94.5	95.0	0.81	0.87	0.89	1.15	25.6892	20	44	1537	88
		1780	445TS	446	223	178	H	7.1	582	2.3	2.5	94.7	95.4	95.8	0.78	0.85	0.88	1.15	49.5409	16	35	1740	78
		1780	445T	446	223	178	H	7.1	582	2.3	2.5	94.7	95.4	95.8	0.78	0.85	0.88	1.15	49.5409	16	35	1740	78
		1185	447/9T	483	241	193	F	5.8	874	2.0	2.2	95.0	95.4	95.4	0.69	0.78	0.82	1.15	98.1660	18	36	2205	79
250	185	3564	445TS	545	273	218	F	6.0	363	1.9	2.5	94.1	95.0	95.0	0.84	0.88	0.90	1.15	30.1568	18	40	1806	88
		1780	445TS	550	275	220	H	7.4	728	2.4	2.6	94.8	95.4	95.8	0.78	0.86	0.88	1.15	57.1627	14	31	2029	78
		1780	445T	550	275	220	H	7.4	728	2.4	2.6	94.8	95.4	95.8	0.78	0.86	0.88	1.15	57.1627	14	31	2029	78
		1185	447/9T	600	300	240	G	6.5	1093	2.2	2.4	95.4	95.8	95.4	0.67	0.77	0.81	1.15	114.530	18	36	2426	79
300	220	3565	445TS	645	323	258	F	6.3	436	2.0	2.6	94.5	95.4	95.4	0.84	0.89	0.90	1.15	33.5077	16	35	2007	89
		1780	447/9T	648	324	259	G	7.1	873	2.2	2.3	95.8	95.8	95.8	0.81	0.87	0.89	1.15	56.1470	10	20	2095	77
		1185	447/9T	715	358	286	H	6.7	1312	2.2	2.4	95.4	95.8	95.4	0.67	0.77	0.81	1.15	130.890	18	36	2646	79
350	260	3565	447/9TS	753	376	301	F	6.5	509	1.9	2.5	95.0	95.4	95.4	0.88	0.90	0.91	1.15	35.7420	14	28	1819	87
		1780	447/9T	765	383	306	H	7.4	1019	2.4	2.6	95.8	96.2	95.8	0.81	0.88	0.89	1.15	66.0550	10	20	2315	77
400	300	3565	447/9TS	865	433	346	G	7.2	581	2.0	2.6	95.4	95.8	95.8	0.88	0.90	0.91	1.15	39.0920	14	28	1896	87
		1780	447/9T	885	443	354	H	7.7	1164	2.6	2.7	96.2	96.2	95.8	0.81	0.87	0.89	1.15	77.6140	9	18	2536	77
450	330	3570	447/9TS	935	468	374	J	8.6	653	2.2	2.6	95.8	96.2	96.2	0.89	0.91	0.92	1.15	43.5600	14	28	2073	87
500	370	3570	447/9TS	1073	536	429	J	8.5	726	2.4	2.7	95.8	96.2	96.2	0.86	0.89	0.90	1.15	46.9110	14	28	2139	87
550	400	3565	447/9TS	1145	573	458	H	8.0	799	2.4	2.6	95.8	96.2	96.2	0.88	0.90	0.91	1.15	50.2620	14	28	2271	87
600	440	3570	447/9TS	1263	631	505	J	8.5	871	2.5	2.8	95.8	96.2	96.2	0.88	0.90	0.91	1.15	53.6120	14	28	2359	87

Frame 143/5T to 213/5T are IP21
Frame 254T to 445T are IP23

High and NEMA Premium Efficiency Three Phase Motors - ODP
Mechanical Data



Frames 182T to 215T

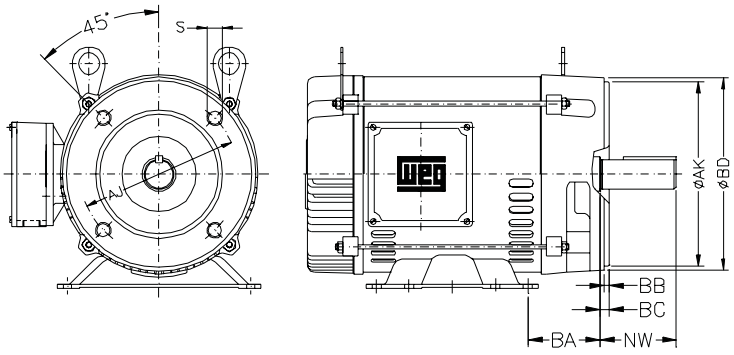


NEMA Frames	Mounting					A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	2F1	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.
143/5T	5.500	4.000	5.000	0.342	2.250	6.535	6.496	12.047	3.500	0.120	1.732	1.988	6.772	6.535		0.187	0.766	1.417	2.250	0.875	5.433	2xNPT0.5"	-	6205-ZZ	6204-ZZ
182T	7.500	4.500	5.500	0.406	2.750	8.661	6.299	13.504	4.500	0.187	1.171	1.988	8.307	7.637		0.250	0.984	1.771	2.750	1.125	6.574	NPT0.75"	A4	6206-ZZ	6205-ZZ
184T								14.291																	
213T	8.500	5.500	7.000		3.488	9.448	7.952	17.165	5.250		1.063	2.567	9.842	8.779	1.378	0.312	1.203	2.480	3.375	1.375	6.795			6208-ZZ	6206-ZZ
215T																									

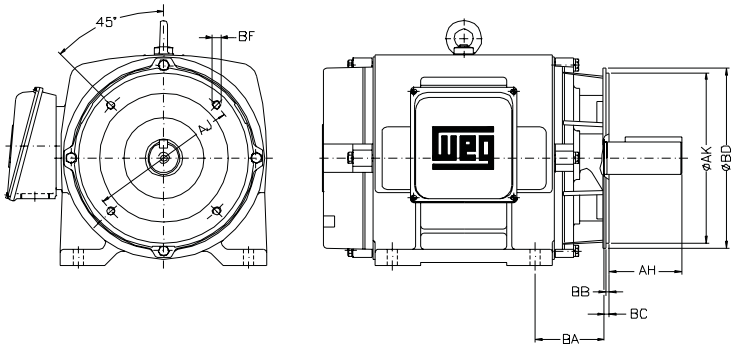
NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.
254T	10.000	8.250	0.531	4.250	12.130	10.100	20.669	6.250	0.787	2.520	2.560	12.204	11.812	2.165	0.375	1.406	2.756	4.000	0.875	10.079	NPT1.0.5"	A4	6309-Z-C3	6209-Z-C3
256T		10.000				11.732	22.401								0.500	1.594	3.149	4.622	1.125					
284T	11.000	9.500		4.750	13.780	11.574	23.386	7.000	1.102	3.150	2.960	13.858	13.700		0.375	1.406	2.480	3.250	1.375	10.866			6311-Z-C3	6211-Z-C3
284TS							22.000								0.500	1.594	3.149	4.622						
286T		11.000				13.070	24.882								0.375	1.406	2.480	3.250	1.625					
286TS							23.504																	
324T	12.500	10.500	0.657	5.250	15.160		26.181	8.000	1.299	3.230	3.350	15.551	15.118	2.559	0.500	1.844	3.937	5.250	2.125	11.496	NPT2"		6312-Z-C3	6212-Z-C3
324TS							24.685									1.594	2.756	3.750	1.875					
326T		12.000				14.566	27.667									1.844	3.937	5.250	2.125					
326TS							26.181									1.594	2.756	3.750	1.875					
364/5T	14.000	11.250	0.625	5.875	17.170	15.400	29.764	9.000	1.480	3.150	4.140	18.425	17.874	2.795	0.625	2.019	4.330	5.874	2.375	16.378	NPT3"	UNC0.75"	6314-C3	6314-C3
364/5TS		12.250					27.638								0.500	1.591	1.968	3.748	1.875					
404/5T	16.000	11.250	0.807	6.625	19.950	17.700	34.133	10.000	1.968	3.950	5.440	19.409		2.800	0.750	2.449	5.512	7.250	2.875				NU316-C3	
404/5TS		12.250					31.141								0.500	1.842	2.756	4.250	2.125				6314-C3	
444/5T	18.000	14.500		7.500	21.929	20.078	39.803	11.000	1.811	3.937	5.590	22.440	22.125	3.544	0.875	2.880	7.087	8.500	3.375	18.150	2xNPT3"		NU319-C3	6316-C3
444/5TS		14.500					36.062								0.625	2.021	3.000	4.750	2.375				6314-C3	6314-C3
447/9TS		25.000				28.898	44.567				10.470									20.236				
447/9T							48.317								0.875	2.880	7.087	8.500	3.375				6319-C3	6316-C3

High and NEMA Premium Efficiency Three Phase Motors - ODP
Mechanical Data

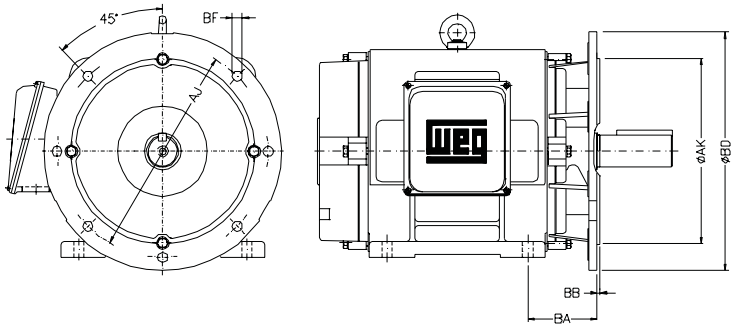
"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
182/4T	2.750	7.250	8.500	8.875	4	UNC0.5"x16	0.250	0.125	2.625
213/5T	3.500							0.250	3.125
254TC	4.250					UNC0.5"x13			3.750
256TC									
284TC	4.750	9.000	10.500	11.031					4.375
284TSC									3.000
286TC									4.375
286TSC									3.000
324TC	5.250	11.000	12.500	15.562		UNC5/8"x11			5.000
324TSC									3.500
326TC									5.000
326TSC									3.500
364/5TC	5.875				8				5.625
364/5TSC									3.500
404/5TC	6.625								7.000
404/5TSC									4.000
444/5TC	7.500	14.000	16.000	17.913					8.250
444/5TSC									4.500



Frames 182T to 215T



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
254TD	4.250	12.500	11.000	14.000	4	0.828	0.250
256TD							
284TD	4.750						
284TSD							
286TD							
286TSD							
324TD	5.250	16.000	14.000	18.000			
324TSD							
326TD							
326TSD							
364/5TD	5.875			17.716			
364/5TSD							
404/5TD	6.625	20.000	18.000	21.653	8		
404/5TSD							
444/5TD	7.500						
444/5TSD							



Low Voltage Machines - H Line - HGF - TEFC
Purchasing Data

Standard Features

- Sinusoidal power supply up to 690V
- Motors manufactured in 2 to 12 poles
- Cast iron frame 5000 to 9600
- Internal and external self-ventilated enclosed cooling system
- Service Factor: 1.0
- Class of insulation: F
- Temperature rise: 80°C
- Ambient temperature: 40°C
- Altitude: 1000 m
- Mounting: F1 or F2
- Starting method: DOL
- Degree of Protection: IP55
- Service duty: (S1)
- Temperature detector: Pt100
  - 2 per phase with 3 wires
  - 1 per bearing with 3 wires
- 06 loose connection leads inside the terminal box (without terminal block)
- Labyrinth tachonite in grease lubricated bearings
- Grease lubricated bearings for the following frame sizes:
  - For 2 pole motors in the following frame sizes:
    - Up to frame 6800 (inclusive) for 60 Hz;
    - Up to frame 7000 (inclusive) for 50 Hz;
  - For 4 pole motors in the following frame sizes:
    - Up to frame 9600 (inclusive) for 60 and 50 Hz;
- Grease lubricated bearings for 6 pole motors and above;
- Sleeve bearings for the following frame sizes:
  - For 2 pole motors:
    - Frame 7000 and above for 60 Hz;
    - Frame 8000 and above for 50 Hz;
  - For 4 pole motors in frame 9600.
- Electrically insulated non-drive end bearing for frames 6800 and above, when connected directly to the power supply
- Paint: RAL 5009 - Blue - Acrylic polyurethane Polyamide epoxy
- Two accessory terminal boxes, one for signal accessories and the other for those accessories requiring power supply (space heaters)
- Single phase space heater
- Stainless steel nameplate
- Grounding lug on the frame and terminal box

Optional Features

- Service Factor: 1.15
- Insulation Class: H
- Temperature rise: 105°K for class F, 125°K for class H
- Ambient temperature above 40°C
- Altitude above 1000 m
- Degree of Protection IPW55 and above
- Special balance
- Base: rail, sliding base, extended feet, rebuilt feet, anchorage plate
- Steel welded t-box in different sizes
- Power factor correction capacitors
- Non-reversion ratchet
- Centrifugal switch
- Pt100, Thermistor (PTC or NTC), Thermostat (Bimetallic)
- Two energized power terminal boxes
- Shaft: Special dimensions, double shaft end, tapered, hollow, special steel
- Encoder
- Sleeve bearing
- Oil lubricated bearing
- Special bearing (overdesigned) for axial or radial thrust
- Special painting
- Terminal block
- Cable gland in the terminal box entrance
- Protection against voltage surge
- Aluminum, copper or brass rotor
- Vibration detector
- Noise suppressor in the air inlet and outlet
- Tachogenerator
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Signal transducer
- One or more accessory terminal boxes
- Indep. hydraulic oil circulation sytem for sleeve bearing
- Electrically insulated non-drive end bearing for all frame sizes when driven by frequency drive
- Both bearings are electrically insulated
- Grounding brush on drive end bearing for all frames when driven by frequency converter (except for classified area)
- Independent cooling
- Inpro Seal
- VFD Duty

APPROVED BY
LR 38324

Other Certifications are available. Please call for more information.

Also available with:

- Class 1 Division 2
- API 541

Low Voltage Machines - H Line - HGF - TEFC
Electrical Data

Rated Output		Full Load Speed (RPM)	Frame	Full Load Current I_n(A)		Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load										
HP	kW			460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
125	90	710	5006/7/8T	173	139	G	5,5	911	1,5	2,0	91,8	93,0	93,0	0,51	0,63	0,70	1.413	15	33	3417	80,0
150	110	710	5006/7/8T	211	169	G	5,5	1092	1,5	2,0	92,2	93,3	93,3	0,51	0,63	0,70	1.718	15	33	3638	80,0
175	132	710	5009/10/11T	253	202	H	5,5	1273	1,5	2,0	92,6	93,6	93,6	0,51	0,63	0,70	2.068	15	33	4079	80,0
		593	5807/8/9T	262	210	F	4,5	1526	1,2	1,7	93,8	94,3	94,3	0,50	0,61	0,67	3.707	20	44	5247	82,0
200	150	889	5009/10/11T	242	194	F	5,5	1165	1,2	2,4	94,1	94,7	94,7	0,68	0,78	0,82	1.718	24	53	3814	75,0
		710	5009/10/11T	286	229	H	5,8	1461	1,6	2,0	92,8	93,9	93,9	0,51	0,63	0,70	2.437	15	33	4365	80,0
		593	5807/8/9T	298	239	F	4,5	1743	1,2	1,7	93,8	94,3	94,3	0,50	0,61	0,67	3.891	20	44	5335	82,0
250	185	1186	5009/10/11T	284	227	F	6,1	1092	1,2	2,5	94,3	94,8	94,9	0,75	0,84	0,86	1.528	17	37	3649	77,0
		888	5009/10/11T	297	238	F	5,5	1461	1,2	2,3	94,5	95,1	95,1	0,70	0,78	0,82	2.068	26	57	4112	75,0
		713	5807/8/9T	368	295	H	5,5	1815	1,3	2,2	93,0	94,0	94,2	0,48	0,60	0,67	3.482	20	44	5071	82,0
		592	5810/11/12T	363	290	F	4,5	2184	1,2	1,7	93,9	94,3	94,3	0,50	0,62	0,68	4.649	20	44	6217	82,0
300	220	3581	5009/10/11TS	321	257	F	6,5	434	0,9	2,5	94,4	95,3	95,6	0,84	0,89	0,90	0.606	28	62	3527	79,0
		1186	5009/10/11T	334	267	F	6,1	1309	1,3	2,5	94,7	95,2	95,1	0,77	0,84	0,87	1.794	16	35	3902	77,0
		889	5009/10/11T	353	282	F	5,5	1750	1,2	2,5	94,9	95,3	95,3	0,68	0,78	0,82	2.437	21	46	4420	75,0
		713	5810/11/12T	429	344	G	5,5	2177	1,3	2,2	93,3	94,3	94,5	0,49	0,61	0,68	3.994	20	44	5952	82,0
		592	6806/7/8T	385	308	F	5,0	2626	1,0	2,0	94,0	94,3	94,5	0,57	0,69	0,76	6.902	20	44	7628	82,0
350	260	3579	5009/10/11TS	375	300	F	6,5	506	0,9	2,5	94,8	95,5	95,7	0,85	0,89	0,91	0.711	24	53	3726	79,0
		1784	5009/10/11T	396	317	H	7,0	1013	1,2	2,4	94,7	95,5	95,8	0,75	0,83	0,86	1.012	22	48	3748	79,0
		1186	5009/10/11T	393	315	F	6,1	1526	1,3	2,5	94,9	95,4	95,4	0,77	0,85	0,87	2.109	16	35	4101	77,0
		892	5807/8/9T	417	334	F	5,5	2032	1,2	2,3	95,0	95,5	95,5	0,68	0,78	0,82	3.215	21	46	4960	79,0
		713	5810/11/12T	506	405	H	5,5	2539	1,3	2,2	93,6	94,6	94,8	0,49	0,61	0,68	4.895	20	44	6614	82,0
		592	6806/7/8T	452	362	G	5,5	3060	1,0	2,0	94,0	94,9	95,0	0,57	0,69	0,76	7.229	20	44	8014	82,0
400	300	3577	5009/10/11TS	435	348	G	6,5	579	1,0	2,5	95,2	96,0	96,1	0,86	0,89	0,90	0.799	24	53	3902	79,0
		1784	5009/10/11T	456	365	H	7,0	1165	1,3	2,5	95,0	95,7	96,0	0,75	0,83	0,86	1.178	20	44	3968	79,0
		1188	5807/8/9T	462	370	G	6,1	1743	1,2	2,5	95,2	95,9	95,8	0,74	0,83	0,85	2.437	26	57	4861	81,0
		891	5807/8/9T	480	384	F	5,5	2322	1,2	2,3	95,3	95,8	95,7	0,68	0,78	0,82	3.604	23	51	5181	79,0
		714	6806/7/8T	505	404	F	5,5	2900	1,0	2,2	94,9	95,6	95,6	0,60	0,72	0,78	5.427	22	48	7363	82,0
		593	6809/10/11T	521	417	G	5,5	3494	0,9	2,0	94,4	94,9	95,1	0,59	0,69	0,76	8.602	20	44	9568	82,0
450	330	3575	5009/10/11TS	473	378	G	6,8	652	1,0	2,5	95,6	96,2	96,3	0,85	0,89	0,91	0.889	24	53	4145	79,0
		1784	5009/10/11T	501	401	G	7,0	1309	1,3	2,5	95,2	95,8	96,1	0,75	0,83	0,86	1.294	19	42	4123	79,0
		1188	5807/8/9T	508	406	F	6,1	1960	1,2	2,5	95,4	95,9	95,9	0,75	0,83	0,85	2.683	26	57	5071	81,0
		892	5810/11/12T	527	422	F	5,7	2611	1,2	2,3	95,4	96,0	95,9	0,68	0,78	0,82	4.116	17	37	6217	79,0
		714	6806/7/8T	554	443	F	5,5	3262	1,0	2,2	95,1	95,8	95,8	0,60	0,72	0,78	6.369	22	48	7893	82,0
		595	7006/10	563	451	F	5,5	3920	0,8	1,9	95,3	95,5	95,5	0,61	0,71	0,77	12.10	40	88	10042	82,0
500	370	3573	5810/11/12TS	536	429	F	6,0	723	0,9	2,4	95,6	96,2	96,3	0,86	0,89	0,90	1.059	45	99	5291	86,0
		1784	5009/10/11T	561	449	G	6,8	1454	1,3	2,5	95,4	96,0	96,1	0,76	0,84	0,86	1.436	19	42	4233	79,0
		1188	5810/11/12T	561	449	F	6,2	2177	1,3	2,5	95,5	96,2	96,2	0,75	0,83	0,86	2.929	26	57	5952	81,0
		892	5810/11/12T	590	472	G	6,3	2900	1,3	2,4	95,4	96,0	96,0	0,67	0,77	0,82	5.018	17	37	6548	79,0
		714	6806/7/8T	620	496	F	5,5	3624	1,0	2,2	95,3	96,0	96,0	0,60	0,72	0,78	6.861	22	48	8135	82,0
		595	7006/10	631	505	F	5,5	4354	0,8	1,9	95,4	95,6	95,6	0,61	0,71	0,77	12.10	40	88	10251	82,0
550	400	714	6806/7/8T	669	535	F	5,5	3993	1,0	2,2	95,5	96,2	96,2	0,60	0,72	0,78	6.779	22	48	8664	82,0
		595	7006/10	681	545	F	5,5	4788	0,8	1,9	95,5	95,7	95,7	0,61	0,71	0,77	12.98	40	88	10560	82,0
600	440	3577	5810/11/12TS	628	503	F	6,5	868	0,9	2,2	95,7	96,4	96,5	0,87	0,89	0,91	1.255	36	79	5710	86,0
		1783	5009/10/11T	659	527	G	7,0	1743	1,4	2,5	95,5	96,1	96,3	0,77	0,84	0,87	1.671	16	35	4542	79,0
		1188	5810/11/12T	667	533	F	6,1	2618	1,3	2,5	95,6	96,3	96,3	0,75	0,83	0,86	3.420	25	55	6393	81,0
		893	6806/7/8T	701	561	G	6,6	3479	1,1	2,3	95,1	95,8	96,1	0,67	0,78	0,82	6.717	22	48	7937	79,0
		714	6806/7/8T	735	588	F	5,5	4354	1,0	2,2	95,7	96,4	96,4	0,60	0,72	0,78	8.274	22	48	8929	82,0
		595	7006/10	749	599	F	5,5	5222	0,8	1,9	95,6	95,8	95,8	0,61	0,71	0,77	13.84	40	88	11133	82,0
650	480	714	7006/10	774	619	G	6,2	4716	0,8	2,2	95,6	96,1	96,1	0,67	0,77	0,81	12.70	25	55	10516	82,0
		595	7006/10	805	644	F	5,5	5656	0,8	1,9	95,7	95,9	95,9	0,62	0,72	0,78	14.75	40	88	11464	82,0
700	515	3576	5810/11/12TS	727	582	F	6,5	1013	0,9	2,3	96,0	96,7	96,6	0,88	0,91	0,92	1.468	45	99	5952	86,0
		1788	5810/11/12T	769	615	G	6,5	2025	1,5	2,3	95,9	96,5	96,6	0,79	0,85	0,87	2.826	33	73	6393	83,0
		1192	6806/7/8T	788	631	G	6,3	3038	1,3	2,5	96,1	96,5	96,5	0,71	0,81	0,85	4.506	18	40	7970	81,0
		893	6806/7/8T	820	656	G	6,6	4058	1,1	2,3	95,2	95,9	96,2	0,67	0,78	0,82	7.639	22	48	8378	79,0
		714	7006/10	829	663	G	6,2	5078	0,8	2,2	95,7	96,2	96,2	0,67	0,77	0,81	13.52	25	55	10803	82,0
		595	7006/10	863	690	F	5,5	6090	0,8	1,9	95,8	96,0	96,0	0,62	0,72	0,78	15.61	40	88	11707	82,0
750	560	714	7006/10	902	722	G	6,2	5439	0,8	2,2	95,7	96,2	96,2	0,67	0,77	0,81	14.34	25	55	11067	82,0
		595	7006/10	937	750	F	5,5	6531	0,8	1,9	95,9	96,1	96,1	0,62	0,72	0,78	16.49	40	88	12390	82,0
800	590	3580	6806/7/8TS	844	675	G	6,7	1157	1,3	2,4	95,5	96,3	96,5	0,84	0,90	0,91	2.253	26	57	7540	89,0
		1788	6806/7/8T	899	719	H	7,3	2315	1,2	2,1	96,0	96,7	96,9	0,74	0,82	0,85	3.277	17	37	7826	83,0
		1192	6806/7/8T	913	731	G	6,3	3479	1,3	2,2	96,1	96,5	96,5	0,69	0,80	0,84	5.079	20	44	8378	81,0
		893	6809/10/11T	936	749	G	6,6	4636	1,1	2,3	95,4	96,1	96,4	0,67	0,78	0,82	9.073	22	48	10229	79,0
		714	7006/10	948	758	G	6,2	5801	0,8	2,2	95,8	96,4	96,4	0,67	0,77	0,81	15.36	25	55	11354	82,0

Low Voltage Machines - H Line - HGF - TEFC
Electrical Data

Rated Output		Full Load Speed (RPM)	Frame	Full Load Current I_n(A)		Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load										
HP	kW			460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
850	630	895	7006/10	976	781	F	5,9	4918	0,7	2,1	96,1	96,5	96,5	0,70	0,80	0,84	10.92	26	57	12291	82,0
		714	7006/10	1014	811	G	6,2	6163	0,8	2,2	95,8	96,4	96,4	0,67	0,77	0,81	16.38	25	55	11696	82,0
900	660	3580	6806/7/8TS	942	754	G	6,9	1302	1,3	2,4	95,7	96,4	96,6	0,85	0,90	0,91	2.437	26	57	7826	89,0
		1788	6806/7/8T	1004	803	H	7,3	2604	1,5	2,2	96,0	96,8	97,0	0,76	0,82	0,85	3.748	16	35	8267	83,0
		1192	6809/10/11T	1023	819	G	6,5	3913	1,4	2,4	96,2	96,6	96,6	0,69	0,80	0,84	5.714	20	44	10009	81,0
		895	7006/10	1023	819	F	5,9	5208	0,7	2,1	96,1	96,5	96,5	0,70	0,80	0,84	11.69	26	57	12617	82,0
1000	750	3580	6806/7/8TS	1071	857	H	7,4	1447	1,4	2,5	95,9	96,5	96,7	0,85	0,90	0,91	2.642	26	57	8157	89,0
		1788	6809/10/11T	1129	903	H	7,3	2893	1,5	2,1	96,3	97,0	97,0	0,76	0,83	0,86	4.096	18	40	9766	83,0
		1193	7006/10	1119	895	G	6,5	4340	0,7	2,3	96,6	96,8	96,8	0,78	0,84	0,87	7.660	20	44	11956	88,0
		895	7006/10	1148	918	F	5,9	5786	0,7	2,1	96,3	96,6	96,6	0,72	0,81	0,85	13.23	26	57	13415	82,0
1100	800	1790	6809/10/11T	1215	972	H	7,8	3183	1,5	2,1	96,3	97,0	97,0	0,74	0,82	0,85	4.342	18	40	9921	83,0
		1194	7006/10	1196	957	G	6,5	4774	0,7	2,3	96,6	96,8	96,8	0,78	0,84	0,87	8.172	20	44	12291	88,0
1250	900	1792	7006/10	1349	1079	G	7,0	3609	0,7	2,4	95,8	96,5	96,6	0,76	0,84	0,87	4.506	20	44	11299	90,0
		1194	7006/10	1358	1087	G	6,7	5425	0,7	2,3	96,7	96,9	96,9	0,76	0,84	0,86	9.052	20	44	12952	88,0
1350	1000	1792	7006/10	1492	1194	H	7,3	3899	0,7	2,4	96,0	96,7	96,8	0,76	0,84	0,87	5.120	20	44	11960	90,0
		1194	7006/10	1502	1201	G	6,5	5859	0,7	2,3	96,8	97,0	97,0	0,76	0,84	0,86	9.052	20	44	12952	88,0
1500	1100	1792	7006/10	1636	1309	G	7,0	4333	0,7	2,4	96,1	96,8	96,9	0,76	0,84	0,87	5.427	20	44	12291	90,0

Medium Voltage Machines - H Line - HGF - TEFC
Purchasing Data

Standard Features

- Sinusoidal power supply up to 690V
- Motors manufactured in 2 to 12 poles
- Cast iron frame 5000 to 9600
- Internal and external self-ventilated enclosed cooling system
- Service Factor: 1.0
- Class of insulation: F
- Temperature rise: 80°C
- Ambient temperature: 40°C
- Altitude: 1000 m
- Mounting: F1 or F2
- Starting method: DOL
- Degree of Protection: IP55
- Service duty: (S1)
- Temperature detector: Pt100
  - 2 per phase with 3 wires
  - 1 per bearing with 3 wires
- 06 loose connection leads inside the terminal box (without terminal block)
- Labyrinth tachonite in grease lubricated bearings
- Grease lubricated bearings for the following frame sizes:
  - For 2 pole motors in the following frame sizes:
    - Up to frame 6800 (inclusive) for 60 Hz;
    - Up to frame 7000 (inclusive) for 50 Hz;
  - For 4 pole motors in the following frame sizes:
    - Up to frame 9600 (inclusive) for 60 and 50 Hz;
- Grease lubricated bearings for 6 pole motors and above;
- Sleeve bearings for the following frame sizes:
  - For 2 pole motors:
    - Frame 7000 and above for 60 Hz;
    - Frame 8000 and above for 50 Hz;
  - For 4 pole motors in frame 9600.
- Electrically insulated non-drive end bearing for frames 6800 and above, when connected directly to the power supply
- Paint: RAL 5009 - Blue - Acrylic polyurethane Polyamide epoxy
- Two accessory terminal boxes, one for signal accessories and the other for those accessories requiring power supply (space heaters)
- Single phase space heater
- Stainless steel nameplate
- Grounding lug on the frame and terminal box
- Global VPI

APPROVED BY

LR 38324

Other Certifications are available. Please call for more information.

Optional Features

- Service Factor: 1.15
- Insulation Class: H
- Temperature rise: 105°K for class F, 125°K for class H
- Ambient temperature above 40°C
- Altitude above 1000 m
- Other mounting configurations
- Degree of Protection IPW55 and above
- Special balance
- Base: rail, sliding base, extended feet, rebuilt feet, anchorage plate
- Steel welded t-box in different sizes (incl. NEMA type II)
- Power factor correction capacitors
- Non-reversion ratchet
- Centrifugal switch
- Pt100, Thermistor (PTC or NTC), Thermostat (Bimetallic)
- Two energized power terminal boxes
- Shaft: Special dimensions, double shaft end, tapered, hollow, special steel
- Encoder
- Sleeve bearing
- Oil lubricated bearing
- Special bearing (overdesigned) for axial or radial thrust
- Special painting
- Terminal block
- Cable gland in the terminal box entrance
- Protection against voltage surge
- Aluminum, copper or brass rotor
- Vibration detector
- Noise suppressor in the air inlet and outlet
- Tachogenerator
- CT for differential and integral protection
- Bearing thermometer with gauge with/without contacts
- Signal transducer
- One or more accessory terminal boxes
- Indep. hydraulic oil circulation sytem for sleeve bearing
- Electrically insulated non-drive end bearing for all frame sizes when driven by frequency drive
- Both bearings are electrically insulated
- Grounding brush on drive end bearing for all frames when driven by frequency converter (except for classified area)
- Independent cooling
- Inpro Seal
- VFD Duty

Also available with:

- Class 1 Division 2
- API 541

Medium Voltage Machines - H Line - HGF - TEFC
Electrical Data

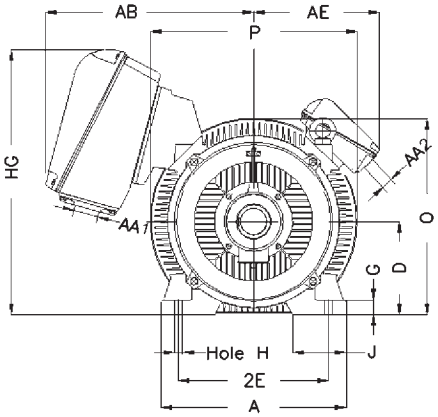
Rated Output		Full Load Speed	Frame	Full Load Current I_n(A)				Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Snd dB(A)
													% of full load										
HP	kW	(RPM)		2300V	4000V	4160V	6600V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
150	110	1780	5006/7/8T	35.8	20.6	19.8	12.5	G	6,0	436	1,2	2,1	91,1	92,5	92,7	0,70	0,78	0,83	0.600	15	33	3086	79,0
		888	5009/10/11T	47.0	27.0	26.0	16.4	G	5,8	1020	1,2	2,5	92,2	92,7	92,7	0,58	0,69	0,76	1.606	12	26	3616	75,0
175	132	710	5807/8/9T	56.8	32.7	31.4	19.8	J	5,5	1273	1,2	2,2	91,3	92,5	92,7	0,43	0,55	0,63	3.318	11	24	5291	82,0
		594	6806/7/8T	49.9	28.7	27.6	17.4	G	5,5	1526	1,1	2,3	91,9	93,4	93,4	0,51	0,64	0,71	3.789	25	55	5952	82,0
		1782	5009/10/11T	47.4	27.2	26.2	16.5	G	6,0	582	1,4	2,1	92,4	93,6	93,6	0,74	0,82	0,85	0.666	15	33	3153	79,0
		1181	5009/10/11T	48.8	28.1	27.0	17.0	G	6,0	875	1,6	2,0	92,8	93,1	93,0	0,71	0,80	0,83	1.491	14	31	3549	77,0
200	150	889	5009/10/11T	53.9	31.0	29.8	18.8	H	5,9	1165	1,2	2,5	92,4	93,0	93,0	0,56	0,68	0,75	1.716	12	26	3814	75,0
		710	5810/11/12T	64.2	36.9	35.5	22.4	H	5,5	1461	1,2	2,2	91,6	92,8	93,0	0,43	0,55	0,63	3.789	11	24	5589	82,0
		594	6806/7/8T	56.6	32.6	31.3	19.7	G	5,5	1743	1,1	2,3	92,2	93,6	93,6	0,51	0,64	0,71	4.342	25	55	6217	82,0
		1782	5009/10/11T	58.1	33.4	32.1	20.2	G	6,1	723	1,4	2,1	93,4	94,0	94,0	0,74	0,82	0,85	0.819	15	33	3351	79,0
		1181	5009/10/11T	59.9	34.4	33.1	20.9	G	6,2	1099	1,6	2,0	93,2	93,5	93,5	0,71	0,80	0,83	1.710	12	26	3836	77,0
250	185	889	5009/10/11T	65.7	37.8	36.3	22.9	H	6,1	1454	1,3	2,5	92,5	93,0	93,0	0,58	0,69	0,76	2.068	12	26	4079	75,0
		710	5810/11/12T	77.8	44.7	43.0	27.1	H	5,5	1823	1,2	2,2	91,8	93,0	93,2	0,44	0,56	0,64	4.260	11	24	5886	82,0
		594	6806/7/8T	69.8	40.1	38.6	24.3	G	5,5	2177	1,1	2,3	92,5	93,8	93,8	0,51	0,64	0,71	4.874	25	55	6482	82,0
		3573	5009/10/11TS	65.8	37.9	36.4	22.9	G	6,5	435	1,0	2,1	93,3	94,2	94,2	0,83	0,88	0,89	0.696	20	44	3748	79,0
		1782	5009/10/11T	68.0	39.1	37.6	23.7	F	6,0	875	1,4	2,1	93,7	94,4	94,5	0,74	0,82	0,86	0.909	15	33	3461	79,0
300	220	1182	5009/10/11T	70.9	40.8	39.2	24.7	G	6,2	1316	1,6	2,0	93,4	93,8	93,8	0,71	0,80	0,83	2.212	12	26	4123	77,0
		889	5009/10/11T	77.8	44.7	43.0	27.1	G	6,1	1750	1,3	2,5	92,9	93,4	93,4	0,57	0,68	0,76	2.601	12	26	4497	75,0
		710	5810/11/12T	92.2	53.0	51.0	32.1	H	5,5	2192	1,2	2,2	92,1	93,3	93,5	0,44	0,56	0,64	5.325	11	24	6559	82,0
		594	6806/7/8T	82.7	47.5	45.7	28.8	G	5,5	2618	1,1	2,3	92,8	94,2	94,2	0,51	0,64	0,71	6.103	25	55	7077	82,0
		3575	5009/10/11TS	77.4	44.5	42.8	27.0	G	6,5	507	1,0	2,1	93,8	94,7	94,7	0,83	0,88	0,89	0.778	18	40	3968	79,0
		1782	5009/10/11T	80.1	46.1	44.3	27.9	G	6,2	1020	1,5	2,1	93,8	94,6	94,8	0,75	0,83	0,86	1.047	15	33	3858	79,0
350	260	1184	5009/10/11T	83.7	48.2	46.3	29.2	H	7,0	1533	1,8	2,2	93,6	94,0	94,0	0,69	0,79	0,83	2.396	10	22	4277	77,0
		891	5807/8/9T	89.5	51.5	49.5	31.2	G	6,0	2032	1,3	2,2	94,2	94,7	94,7	0,60	0,71	0,77	2.888	22	48	5291	79,0
		713	6806/7/8T	93.1	53.6	51.5	32.5	G	5,5	2539	0,9	2,0	93,9	94,6	94,6	0,58	0,69	0,74	4.198	28	62	6471	82,0
		594	6806/7/8T	97.3	56.0	53.8	33.9	G	5,5	3052	1,1	2,3	93,1	94,4	94,4	0,51	0,64	0,71	6.779	25	55	7419	82,0
		3575	5009/10/11TS	89.0	51.2	49.2	31.0	G	6,5	579	1,1	2,2	94,2	95,0	95,0	0,83	0,88	0,89	0.819	15	33	4200	79,0
		1783	5009/10/11T	92.4	53.1	51.1	32.2	G	6,5	1165	1,6	2,2	94,2	94,7	94,8	0,73	0,83	0,86	1.354	15	33	4255	79,0
400	300	1189	5807/8/9T	98.0	56.4	54.2	34.2	G	6,0	1743	1,2	2,0	94,4	94,8	94,8	0,67	0,77	0,81	2.314	18	40	4872	81,0
		891	5810/11/12T	101	57.8	55.6	35.0	G	6,0	2322	1,3	2,2	94,4	94,8	94,8	0,63	0,74	0,79	3.543	22	48	6217	79,0
		713	6806/7/8T	107	61.8	59.4	37.4	G	5,5	2908	0,9	2,0	94,1	94,8	94,8	0,58	0,69	0,74	4.710	28	62	6757	82,0
		593	7006/10	119	68.2	65.6	41.3	H	5,5	3494	1,0	2,0	93,9	94,8	94,8	0,48	0,60	0,67	7.721	50	110	10097	82,0
		3575	5009/10/11TS	97.9	56.3	54.1	34.1	G	6,5	652	1,1	2,2	94,6	95,1	95,1	0,83	0,88	0,89	0.901	15	33	4365	79,0
		1784	5009/10/11T	101	58.2	56.0	35.3	G	6,5	1309	1,6	2,2	94,3	94,9	95,1	0,73	0,82	0,86	1.464	15	33	4299	79,0
450	330	1189	5807/8/9T	108	61.9	59.5	37.5	G	6,0	1960	1,2	2,0	94,4	94,9	95,0	0,67	0,77	0,81	2.826	18	40	5247	81,0
		890	5810/11/12T	111	63.5	61.1	38.5	G	6,0	2618	1,3	2,2	94,7	94,9	94,9	0,64	0,75	0,79	4.014	22	48	6724	79,0
		713	6806/7/8T	116	66.9	64.3	40.5	G	5,5	3269	0,9	2,0	94,3	95,0	95,0	0,59	0,70	0,75	5.284	28	62	7088	82,0
		593	7006/10	130	74.9	72.0	45.4	H	5,5	3928	1,0	2,0	94,1	95,0	95,0	0,48	0,60	0,67	8.704	50	110	10615	82,0
		3574	5810/11/12TS	110	63.2	60.8	38.3	G	6,4	723	1,0	2,2	93,8	94,8	94,9	0,83	0,88	0,89	1.126	20	44	5600	86,0
		1783	5009/10/11T	113	65.2	62.7	39.5	H	7,0	1454	1,6	2,2	94,5	94,9	95,3	0,74	0,82	0,86	1.575	14	31	4542	79,0
500	370	1189	5810/11/12T	119	68.4	65.8	41.5	G	6,0	2177	1,2	2,1	94,8	95,0	95,1	0,69	0,78	0,82	3.072	18	40	6041	81,0
		891	6806/7/8T	119	68.4	65.8	41.5	G	6,4	2908	1,0	2,3	95,0	95,2	95,2	0,70	0,79	0,82	6.226	22	48	7716	79,0
		713	6806/7/8T	130	74.8	71.9	45.3	G	5,5	3631	0,9	2,0	94,5	95,2	95,2	0,59	0,70	0,75	5.960	28	62	7463	82,0
		593	7006/10	146	83.7	80.5	50.7	H	5,5	4369	1,0	2,0	94,3	95,2	95,2	0,48	0,60	0,67	9.789	50	110	11211	82,0
550	400	713	6806/7/8T	139	79.7	76.6	48.3	F	5,5	3993	0,9	2,0	94,7	95,4	95,4	0,60	0,71	0,76	6.717	28	62	7893	82,0
		593	7006/10	157	90.4	86.9	54.8	G	5,5	4803	1,0	2,0	94,5	95,4	95,4	0,48	0,60	0,67	11.04	50	110	11872	82,0
		3574	5810/11/12TS	130	75.0	72.1	45.4	G	6,5	868	1,0	2,2	94,3	95,1	95,2	0,83	0,88	0,89	1.311	20	44	5886	86,0
		1787	5810/11/12T	134	77.3	74.3	46.8	G	6,6	1736	1,5	2,2	94,8	95,5	95,6	0,75	0,83	0,86	2.376	16	35	6052	83,0
600	440	1190	5810/11/12T	143	82.4	79.2	49.9	H	6,7	2611	1,3	2,3	94,8	95,2	95,2	0,66	0,76	0,81	3.768	18	40	6504	81,0
		891	6806/7/8T	141	81.2	78.1	49.2	G	6,4	3486	1,0	2,3	95,2	95,4	95,4	0,70	0,79	0,82	6.717	22	48	7937	79,0
		713	7006/10	145	83.2	80	50.4	F	5,5	4362	0,9	2,0	95,1	95,4	95,4	0,66	0,76	0,80	8.356	31	68	10395	82,0
650	480	713	7006/10	158	90.7	87.2	55.0	F	5,5	4723	0,9	2,0	95,2	95,5	95,5	0,66	0,76	0,80	8.806	31	68	10648	82,0
		1788	5810/11/12T	157	90.3	86.8	54.7	G	6,8	2025	1,5	2,2	94,9	95,6	95,7	0,75	0,83	0,86	2.744	20	44	6393	83,0
		1190	6806/7/8T	163	93.7	90.1	56.8	H	6,8	3045	1,4	2,4	94,9	95,5	95,6	0,69	0,79	0,83	4.076	20	44	7716	81,0
700	515	892	6809/10/11T	167	96.0	92.3	58.2	G	6,6	4065	1,2	2,5	95,4	95,6	95,6	0,68	0,78	0,81	8.131	22	48	9789	79,0
		713	7006/10	169	97.2	93.5	58.9	F	5,5	5085	0,9	2,0	95,3	95,6	95,6	0,66	0,76	0,80	9.277	31	68	10880	82,0
750	560	713	7006/10	183	105	101	63.7	F	5,5	5446	0,9	2,0	95,5	95,8	95,8	0,66	0,76	0,80	10.40	31	68	11475	82,0
		3578	6806/7/8TS	176	101	97.4	61.4	G	6,6	1157	1,3	2,5	94,5	95,4	95,5	0,80	0,86	0,88	2.089	20	44	7496	89,0
		1790	6806/7/8T	183	105	101	63.7	H	7,0	2315	1,5	2,4	94,8	95,7	95,8	0,73	0,82	0,85	3.994	20	44	7716	83,0
800	590	1190	6806/7/8T	184	106	102	64.3	H	6,9	3479	1,4	2,4	95,2	95,6	95,8	0,71	0,80	0,84	4.690	20	44	8157	81,0
		892	6809/10/11T	192	110	106	66.8	H	6,6	4644	1,2	2,5	95,6	95,8	95,8	0,68	0,78	0,81	9.073	22	48	10229	79,0
		713	7006/10	194	111	107	67.4	F	5,5	5808	0,9	2,0	95,6	95,9	95,9	0,66	0,76	0,80	11.06	31	68	11905	82,0
850	630	713	7006/10	206	119	114	71.9	F	5,5	6177	0,9	2,0	95,7	96,0	96,0	0,66	0,76	0,80	11.69	31	68	12170	82,0

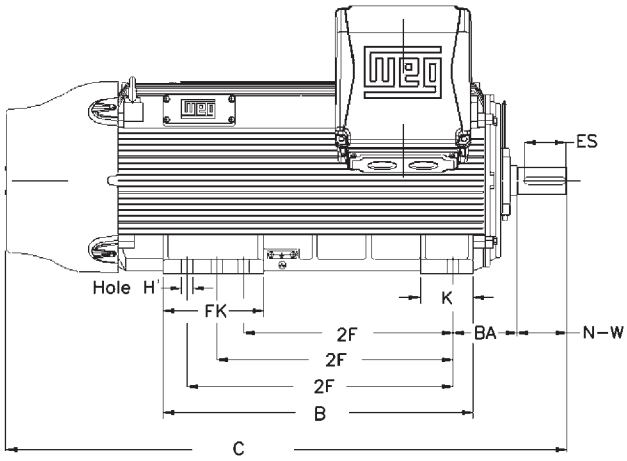
Medium Voltage Machines - H Line - HGF - TEFC
Electrical Data

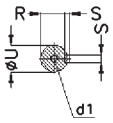
Rated Output		Full Load Speed (RPM)	Frame	Full Load Current I_n(A)				Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Snd dB(A)
													% of full load										
HP	kW			2300V	4000V	4160V	6600V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
900	660	3580	6806/7/8TS	197	113	109	68.7	G	7.2	1302	1.4	2.5	95.0	95.6	95.7	0.80	0.85	0.88	2.191	20	44	7606	89.0
		1790	6806/7/8T	203	116	112	70.6	H	7.1	2604	1.5	2.4	95.0	95.9	96.0	0.73	0.82	0.85	4.301	20	44	8157	83.0
		1190	6809/10/11T	206	119	114	71.9	H	7.0	3920	1.4	2.4	95.4	95.8	96.0	0.71	0.80	0.84	5.304	20	44	9789	81.0
		892	6809/10/11T*	213	123	118	74.4	G	6.6	5222	1.2	2.5	95.7	96.0	96.0	0.67	0.77	0.81	9.544	22	48	10560	79.0
950	700	895	7006/10	222	128	123	77.5	G	6.1	5497	0.7	2.2	95.7	96.0	96.0	0.69	0.79	0.82	11.20	30	66	12291	82.0
1000	750	3580	6809/10/11TS	222	128	123	77.5	H	7.2	1447	1.4	2.5	95.4	95.9	96.0	0.81	0.86	0.88	2.621	20	44	9259	89.0
		1790	6809/10/11T	230	132	127	80.0	H	7.2	2893	1.5	2.4	95.3	96.0	96.1	0.73	0.82	0.85	4.915	20	44	9546	83.0
		1190	6809/10/11T	233	134	129	81.3	H	6.8	4354	1.4	2.4	95.6	96.0	96.1	0.71	0.80	0.84	5.919	20	44	10229	81.0
		894	7006/10	239	137	132	83.2	G	6.1	5794	0.7	2.2	95.8	96.1	96.1	0.69	0.79	0.82	11.86	30	66	12621	82.0
1100	800	3580	6809/10/11TS	237	136	131	82.6	H	8.2	1591	1.5	2.7	95.6	96.1	96.2	0.81	0.86	0.88	2.785	20	44	9811	89.0
		1790	6809/10/11T	251	145	139	87.6	J	7.8	3183	1.5	2.4	95.3	96.0	96.1	0.71	0.80	0.84	5.222	20	44	9789	83.0
		1192	7006/10	242	139	134	84.5	F	5.9	4781	0.8	2.4	95.9	96.3	96.3	0.77	0.84	0.86	6.820	23	51	11294	88.0
		894	7006/10	255	147	141	88.9	G	6.2	6372	0.7	2.2	95.9	96.2	96.2	0.70	0.79	0.82	12.49	30	66	12952	82.0
1250	900	3580	6809/10/11TS	266	153	147	92.7	H	8.2	1808	1.5	2.5	95.8	96.3	96.4	0.81	0.86	0.88	3.133	20	44	10086	89.0
		1790	6809/10/11T	279	160	154	97.1	H	7.5	3617	1.5	2.4	95.5	96.2	96.3	0.71	0.80	0.84	5.509	20	44	10009	83.0
		1193	7006/10	273	157	151	95.2	F	6.1	5425	0.8	2.4	96.1	96.4	96.4	0.76	0.83	0.86	7.741	23	51	11956	88.0
1350	1000	3588	7006/10	289	166	160	101	H	7.5	1946	0.7	2.3	95.3	96.1	96.3	0.84	0.89	0.90	5.161	20	44	11956	90.0
		1791	7006/10	298	172	165	104	G	6.5	3906	0.7	2.4	95.6	96.3	96.4	0.79	0.85	0.87	4.792	20	44	11740	90.0
		1193	7006/10	302	174	167	105	G	6.3	5859	0.8	2.4	96.1	96.5	96.5	0.75	0.83	0.86	8.212	23	51	12291	88.0
1500	1100	3588	7006/10	318	183	176	111	H	7.5	2163	0.7	2.4	95.5	96.2	96.4	0.84	0.89	0.90	5.448	20	44	12286	90.0
		1791	7006/10	329	189	182	115	G	6.5	4340	0.7	2.4	95.7	96.4	96.5	0.79	0.85	0.87	5.100	20	44	11960	90.0
		1194	7006/10	340	196	188	118	G	6.8	6510	0.8	2.4	96.1	96.5	96.5	0.74	0.80	0.84	8.684	17	37	12621	88.0
1700	1250	3588	7006/10*	362	208	200	126	H	7.5	2452	0.7	2.4	95.6	96.3	96.5	0.84	0.89	0.90	5.448	20	44	12286	90.0
		1791	7006/10	374	215	207	130	G	6.5	4918	0.7	2.4	95.9	96.5	96.5	0.79	0.85	0.87	5.734	20	44	12617	90.0

Low and Medium Voltage Machines - H Line - HGF - TEFC
Mechanical Data

Frame 5006/7/8T to 6809/10/11T

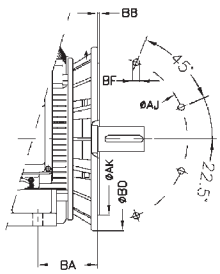






Frame	2E	J	A	P	AB**	AE	2F	K	FK	B	BA	Shaft Extension				
												U	N–W	ES	S	R
5006/7/8T (TS*)	20.000	7.087	24.725	26.575	27.756	15.945	20.000	7.087	10.237	30.315	8.500	2.375*	4,75*	4,33*	0,625*	2,021*
							22.000					3.625	10.625	9.055	0.875	3.134
5009/10/11T (TS*)							25.000		13.386	41.339		2.375*	4,75*	4,33*	0,625*	2,021*
							28.000					3.625	10.625	9.055	0.875	3.134
							32.000									
							36.000									
5807/8/9T (TS*)	23.000	9.055	29.528	30.118	28.937	16.929	25.000	7.874	14.961	39.370	10.000	2.375*	4,75*	4,33*	0,625*	2,021*
							28.000					3.875	11.625	9.842	1.000	3.309
5810/11/12T (TS*)							32.000			51.181		2.375*	4,75*	4,33*	0,625*	2,021*
							36.000					3.875	11.625	9.842	1.000	3.309
							40.000									
							45.000									
6806/7/8T (TS*)	27.000	8.583	33.071	34.449	30.512	18.504	28.000	8.661	14.173	42.126	11.500	2.750*	5,75*	4,33*	0,625*	2,402*
							32.000					4.375	11.625	9.842	1.000	3.817
6809/10/11T (TS*)							36.000		16.338	56.102		2.750*	5,75*	4,33*	0,625*	2,402*
							40.000					4.375	11.625	9.842	1.000	3.817
							45.000									
							50.000									

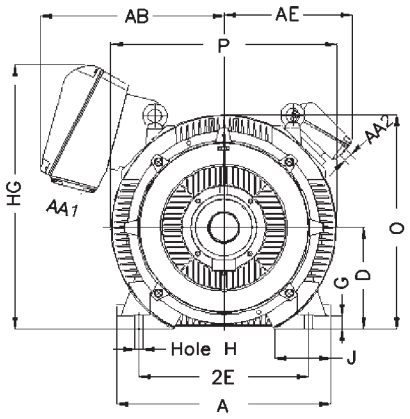
Frame	D	G	O	HG**	H	H´	C	d1	AA1	AA2	Bearings			
											HGF Standard		HGF API 541	
											DE	NDE	DE	NDE
5006/7/8TS	12.500	1.968	25.886	34.941	1.181	1.575	61.049	UNC 3/4"	2xNPT3"	3xNPT3/4"	6314	6314	6314	6314
5006/7/8T							66.924	UNC 7/8"			6320	6316	6320	6320
5009/10/11TS							72.860	UNC 3/4"			6314	6314	6314	6314
5009/10/11T							78.735	UNC 7/8"			6320	6316	6320	6320
5807/8/9TS	14.500	2.492	29.657	37.925		1.968	69.120	UNC 3/4"			6314	6314	6314	6314
5807/8/9T							75.995	UNC 7/8"			6322	6320	6322	6322
5810/11/12TS							80.931	UNC 3/4"			6314	6314	6314	6314
5810/11/12T							87.806	UNC 7/8"			6322	6320	6322	6322
6806/7/8TS	17.000	3.220	34.323	42.000	1.417	2.205	83.589	UNC 3/4"			6315	6315	6315	6315
6806/7/8T							89.464	UNC 1"			NU224	6320	6324	6324
6809/10/11TS							95.400	UNC 3/4"			6315	6315	6315	6315
6809/10/11T							101.275	UNC 1"			NU224	6320	6324	6324

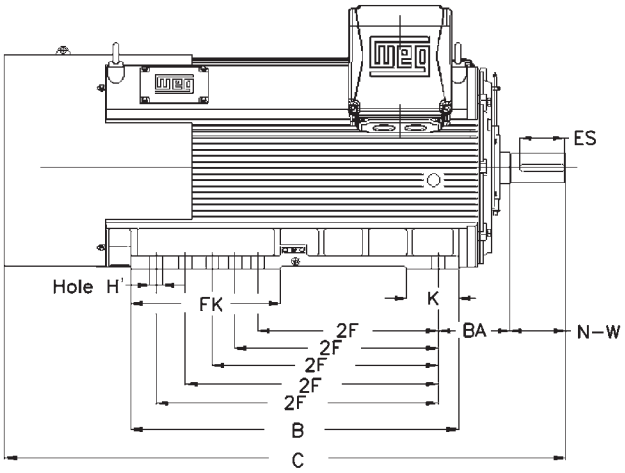


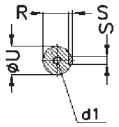
Frame	Flange Dimensions							
	Flange	BA	ØAJ	ØAK	ØBD	ØBF	BB	No. Holes
5006/7/8T	D 558	8.5	22.000	18.000	24.000	1.000	0.250	8
5009/10/11T								
5807/8/9T	D 762	10.000	30.000	28.000	32.000	1.000		
5810/11/12T								
6806/7/8T	D 895	11.500	35.250	33.250	37.250	1.000		
6809/10/11T								

Low and Medium Voltage Machines - H Line - HGF - TEFC
Mechanical Data

Frame 7006/10T to 9606/10T

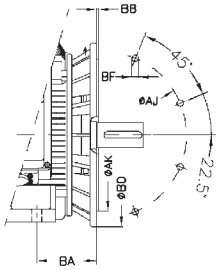






Frame	2E	J	A	P	AB**	AE	2F	K	FK	B	BA	Shaft Extension				
												U	N–W	ES	S	R
7006/10	30	9.961	37.402	39.370	32.087	21.260	32 36 40 45 50	9.134	26.063	57.087	12.402	3,375* 5.125	6,75* 11.625	5,512* 9.842	0,875* 1.250	2,88* 4.423
8006/10	34	11.000	41.500	43.500	43.700	21.500	36 40 45 50 56	12.000	17.800	66.000	14.000	4.750	11.625	-	1.250	4.041
8806/10	38	12.600	47.200	48.000	45.000	24.500	40 45 50 56 63	15.700	19.700	74.800	15.000	5.125	11.625	-	1.250	4.423
9606/10	49	12.600	60.000	54.300	48.400	24.500	36 40 45 50 56	15.700	19.700	74.600	17.500	6.000	11.625	-	1.500	5.155

Frame	D	G	O	HG**	H	H´	C	d1	AA1	AA2	Bearings			
											HGF Standard		HGF API 541	
											DE	NDE	DE	NDE
7006/10	17.5	2.165	37.185	45.256	1.417	2.205	104,585	UNC7/8"	2XNPT3"	3XNPT3/4	6220	6220	6220	6220
							99.617	UNC1 1/4			6328	6324	6328	6328
8006/10	20	2.900	41.500	52.500	1.700	-	108.5	UNC 1			6330	6324	6330	6330
8806/10	22	2.700	46.000	57.800	1.700	-	114	UNC 1 1/4			NU228+6228	NU224	-	-
9606/10	24	3.100	51.200	53.000	1.700	-	126.9	UNC 1 1/4			Nu232+6232	NU224	-	-



Frame	Flange Dimensions							
	Flange	BA	ØAJ	ØAK	ØBD	ØBF	BB	No. Holes
7006/10	FF 1080	12.402	42.520	39.370	45.275	1.102	0.236	8
8006/10	FF - 1180	14.764	46.457	44.094	43.307	1.102		
8806/10	-	-	-	-	-	-		
9606/10	-	-	-	-	-	-		

TEFC NEMA 56 Frame Motors - Single and Three Phase
Purchasing Data

Standard Features - Single Phase

- Single Phase, 2, 4 & 6 pole, 60Hz
- Voltage: 115/208-230V
- Totally Enclosed Fan Cooled
- Squirrel cage rotor
- Start Capacitor
- Ball bearings
- Continuous duty, 40°C ambient
- High starting torque
- Service factor: 1.15
- Class “B” insulation
- Designed to operate in any position
- Paint: RAL 7022
- WEG paint plan: 201A
- V rings

Optional Features - Single Phase

- Class “F” insulation
- Flange mounted (C Flange)
- Special voltages
- Specially designed shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Automatic or manual thermal overload protection
- Other mounting configurations

Standard Features - Three Phase

- Three Phase, 2, 4 & 6 pole, 60Hz
- Voltage: 208-230/460 or 575V - dual name-plated for 50/60Hz for 460V
- Totally Enclosed Fan Cooled
- Squirrel cage rotor
- Ball bearings
- Continuous duty, 40°C ambient
- High starting torque
- Service factor: 1.15
- Class “F” insulation
- CSA certified Class I, Division 2, Groups B, C & D (not as inverter duty)
- Designed to operate in any position
- Paint: RAL 7022
- WEG paint plan: 201A
- V rings
- Inverter Duty (not as Division 2)

Optional Features - Three Phase

- Flange mounted (C Flange)
- Special voltages
- Specially designed shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Other mounting configurations

NEMA MG1 Part 31
Three Phase only

Inverter Duty
Inverter Duty Certified (Three Phase only)
- 4:1 CT
- 10:1 VT

APPROVED BY APPROVED BY
LR 38324

TEFC NEMA 56 Frame Motors - Single and Three Phase
Purchasing Data

Single Phase

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					115V	230V		
0.25	3600	B 56	$168	$208	TF.25102	4.60	2.30	20	11.457
	1800	B 56	204	248	TF.25104	4.70	2.35	20	11.457
0.33	3600	B 56	175	215	TF.33102	5.70	2.85	22	11.457
	1800	B 56	205	245	TF.33104	5.60	2.80	21	11.457
0.5	3600	B 56	194	234	TF.50102	7.60	3.80	23	11.457
	1800	B 56	233	273	TF.50104	7.40	3.70	23	11.457
	1200	D 56	265	305	TF.50106	7.20	3.60	27	12.638
0.75	3600	B 56	210	250	TF.75102	10.4	5.20	28	11.457
	1800	B 56	286	326	TF.75104	10.6	5.30	26	11.457
	1200	F 56 H	337	377	TF.75106	10.0	5.00	42	13.819
1	3600	D 56	250	290	TF000102	12.8	6.40	30	12.638
	1800	D 56	306	346	TF000104	14.0	7.00	34	12.638
	1200	G 56 H	415	455	TF000106	11.0	5.50	52	14.212
1.5	3600	D 56	324	364	TF001102	17.1	8.55	34	12.638
	1800	F 56 H	373	413	TF001104	17.4	8.70	46	13.819
2	3600	F 56 H	390	430	TF002102	20.0	10.0	42	13.819
	1800	G 56 H	429	469	TF002104	21.0	10.5	51	14.212
3	3600	G 56 H	519	559	TF003102	26.0	13.0	49	14.212

Flange: For C Flange change 'TF' to 'FC'

Three Phase

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					460V	575V		
0.25	3600	B 56	$188	$228	TF.25X02	0.45	0.36	20	11.457
	1800	B 56	188	228	TF.25X04	0.50	0.40	20	11.457
0.33	3600	B 56	192	232	TF.33X02	0.60	0.48	17	11.457
	1800	B 56	192	232	TF.33X04	0.55	0.44	21	11.457
0.5	3600	B 56	205	245	TF.50X02	0.83	0.66	19	11.457
	1800	B 56	226	266	TF.50X04	0.83	0.66	22	11.457
	1200	D 56	251	291	TF.50X06	1.30	1.04	40	11.457
0.75	3600	B 56	238	278	TF.75X02	1.10	0.88	22	11.457
	1800	B 56	245	285	TF.75X04	1.12	0.90	26	11.457
	1200	D 56	260	301	TF.75X06	1.48	1.18	40	11.457
1	3600	B 56	268	308	TF000X02	1.40	1.12	26	11.457
	1800	D 56	278	318	TF000X04	1.45	1.16	32	12.638
	1200	D 56	353	393	TF000X06	1.83	1.46	46	12.638
1.5	3600	B 56	330	370	TF001X02	1.96	1.57	29	11.457
	1800	D 56	330	370	TF001X04	2.13	1.70	33	12.638
2	3600	D 56	337	377	TF002X02	2.58	2.06	32	12.638
	1800	F 56 H	337	377	TF002X04	2.75	2.20	42	13.819
3	3600	F 56 H	442	482	TF003X02	3.80	3.04	35	13.819

Flange: For C Flange change 'TF' to 'FC'
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

TEFC NEMA 56 Frame Motors - Single and Three Phase
Electrical Data

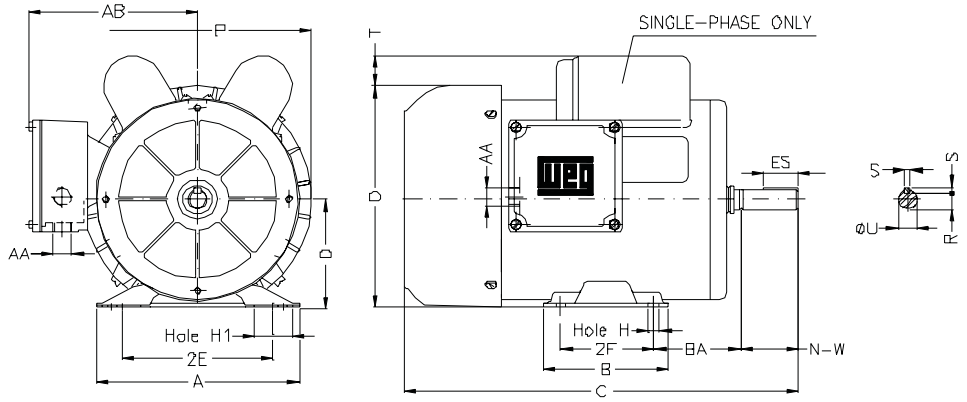
Single Phase

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
HP	kW			115V	230V					50	75	100	50	75	100			
0.25	0.18	B56	3480	4.60	2.30	N	0.37	2.8	2.9	36.0	45.0	50.0	0.56	0.64	0.70	1.15	0.02373	22
		B56	1750	4.70	2.35	P	0.74	3.6	2.8	45.0	53.0	57.7	0.41	0.50	0.58	1.15	0.05363	20
0.33	0.25	B56	3490	5.70	2.85	N	0.49	3.7	3.2	40.0	49.0	53.0	0.56	0.64	0.70	1.15	0.02776	22
		B56	1750	5.60	2.80	N	0.98	3.4	2.8	49.0	58.0	61.0	0.44	0.53	0.62	1.15	0.06241	22
0.5	0.37	B56	3480	7.60	3.80	L	0.74	3.2	2.8	45.0	52.0	58.0	0.56	0.66	0.73	1.15	0.03156	23
		B56	1750	7.40	3.70	L	1.48	2.9	2.7	56.0	64.0	66.5	0.46	0.57	0.65	1.15	0.08044	25
		D56	1180	7.20	3.60	L	2.20	2.5	3.0	58.0	67.0	71.0	0.47	0.55	0.63	1.15	0.14285	38
0.75	0.55	B56	3490	10.4	5.20	M	1.11	3.0	2.9	52.0	60.0	64.0	0.54	0.64	0.72	1.15	0.03963	26
		B56	1745	10.6	5.30	M	2.23	3.0	2.5	58.5	66.0	68.5	0.47	0.58	0.66	1.15	0.09824	28
		F56H	1170	10.0	5.00	K	3.32	2.3	2.6	59.0	67.0	71.0	0.49	0.59	0.68	1.15	0.17774	42
1	0.75	D56	3500	12.8	6.40	M	1.48	3.2	2.8	55.0	63.0	67.0	0.56	0.67	0.75	1.15	0.05149	32
		D56	1750	14.0	7.00	M	2.96	3.2	2.7	60.0	67.0	70.3	0.45	0.56	0.65	1.15	0.13384	34
		G56H	1150	11.0	5.50	J	4.51	2.4	2.2	64.0	69.0	73.0	0.63	0.72	0.80	1.15	0.21333	49
1.5	1.1	D56	3480	17.1	8.55	K	2.23	2.5	2.5	62.0	69.0	70.0	0.61	0.72	0.80	1.15	0.05933	35
		F56H	1750	17.4	8.70	K	4.44	2.8	2.6	70.0	75.0	76.5	0.52	0.64	0.72	1.15	0.19554	47
2	1.5	F56H	3480	20.0	10.0	K	2.98	2.7	2.4	69.0	73.0	74.0	0.72	0.81	0.87	1.15	0.07902	44
		G56H	1750	21.0	10.5	K	5.92	2.8	2.5	74.0	78.0	78.1	0.60	0.71	0.78	1.15	0.21333	50
3	2.2	G56H	3480	26.0	13.0	J	4.47	2.5	2.5	75.0	79.0	80.0	0.82	0.90	0.93	1.15	0.09492	51

Three Phase

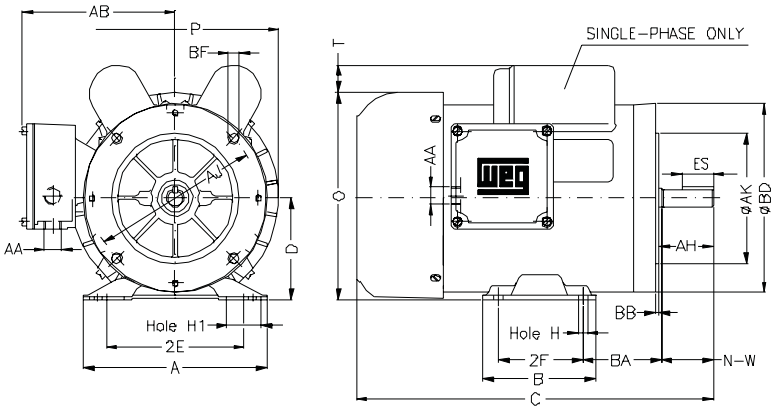
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
HP	kW			230V	460V					50	75	100	50	75	100			
0.25	0.18	3420	B56	0.89	0.45	L	0.51	4.0	3.8	48.5	57.0	62.0	0.72	0.79	0.85	1.15	0.02373	19
		1740	B56	1.00	0.50	K	1.01	2.7	3.5	59.5	66.0	70.0	0.47	0.58	0.67	1.15	0.05363	20
0.33	0.25	3465	B56	1.20	0.60	N	0.67	5.0	4.0	52.5	61.0	66.0	0.61	0.71	0.78	1.15	0.02373	21
		1730	B56	1.10	0.55	K	1.34	3.0	3.5	68.0	74.0	75.5	0.53	0.66	0.74	1.15	0.06241	22
0.5	0.37	3450	B56	1.65	0.83	M	1.02	4.8	4.0	58.0	66.0	72.0	0.63	0.73	0.80	1.15	0.02776	23
		1735	B56	1.65	0.83	K	2.02	3.0	3.5	72.0	75.5	77.0	0.52	0.64	0.73	1.15	0.07143	24
		1160	B56	2.60	1.30	M	3.03	3.5	4.0	59.5	66.0	70.0	0.34	0.43	0.51	1.15	0.10679	28
0.75	0.55	3440	B56	2.19	1.10	L	1.53	4.0	3.5	66.5	72.5	77.0	0.67	0.78	0.83	1.15	0.03156	25
		1730	B56	2.23	1.12	K	3.05	3.0	3.0	75.5	78.5	80.0	0.57	0.70	0.79	1.15	0.08922	27
		1160	D56	2.95	1.48	L	4.54	3.0	3.5	75.5	80.0	81.5	0.38	0.49	0.58	1.15	0.14214	35
1	0.75	3450	B56	2.80	1.40	L	2.04	4.2	3.5	70.0	76.0	80.0	0.69	0.79	0.85	1.15	0.03963	29
		1730	D56	2.90	1.45	K	4.06	3.0	3.0	78.5	81.5	81.5	0.58	0.71	0.79	1.15	0.10702	31
		1160	F56H	3.65	1.83	K	6.06	2.5	3.0	78.5	81.5	81.5	0.41	0.53	0.62	1.15	0.17774	42
1.5	1.1	3440	B56	3.91	1.96	K	3.06	4.5	3.5	76.0	80.0	82.5	0.72	0.82	0.88	1.15	0.05149	32
		1730	D56	4.25	2.13	K	6.09	3.0	3.0	78.5	81.5	81.5	0.60	0.72	0.81	1.15	0.13384	35
2	1.5	3440	D56	5.15	2.58	L	4.08	4.8	3.4	77.6	81.5	82.5	0.71	0.82	0.88	1.15	0.05933	36
		1730	F56H	5.50	2.75	J	8.12	3.0	3.0	82.5	84.0	84.0	0.60	0.74	0.81	1.15	0.17845	43
3	2.2	3430	F56H	7.60	3.80	L	6.14	5.1	3.2	80.5	83.0	84.0	0.70	0.81	0.88	1.15	0.07119	41

TEFC NEMA 56 Frame Motors - Single and Three Phase
Mechanical Data



NEMA FRAMES	MOUNTING					A	B	C	D	O	P	XO	KEYWAY			SHAFT EXTENSION		AB	AA	BEARINGS	
	2E	2F	H	H1	BA								S	R	ES	N–W	U			D.E.	O.D.E.
B56	4.875	3.000	0.343	1.220	2.750	6.535	4.016	11.457	3.500	7.165	7.323	1.064	0.187	0.517	1.102	1.874	0.625	5.433	2X NPT0.5"	6203-ZZ	6202-ZZ
D56								12.638													
F56H		5.000					6.496	13.819												6204-ZZ	6203-ZZ
G56H								14.212													

"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		BB	AH
				NUMBER	TAP SIZE		
B56	5.875	4.500	6.535	4	UNC3/8"x16	0.157	2.063
D56							
F56H							
G56H							



ODP NEMA 48 & 56 Frame Motors - Single and Three Phase
Purchasing Data

Standard Features - Single Phase

- Single Phase, 2 & 4 pole, 60Hz
- Voltage: 115/208-230V
- Open Drip Proof, fan cooled
- Squirrel cage rotor
- Start Capacitor
- Ball bearings
- High starting torque
- Class “B” insulation (Δt 80°C)
- Dimensions according to NEMA standard
- Paint: RAL 7022
- WEG paint plan: 201A

Standard Features - Three Phase

- Three Phase, 2, 4 & 6 pole, 60Hz
- Voltage: 208-230/460 or 575V
- Open Drip Proof, fan cooled
- Squirrel cage rotor
- Ball bearings
- High starting torque
- Class “B” insulation (Δt 80°C)
- Dimensions according to NEMA standard
- Paint: RAL 7022
- WEG paint plan: 201A
- Inverter Duty

Optional Features - Single Phase

- Class “F” insulation
- Flange mounted (C Flange)
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Automatic or manual thermal overload protection
- Other mounting configurations

Optional Features - Three Phase

- Class “F” insulation
- Flange mounted (C Flange)
- Special voltages
- Specially designed shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Other mounting configurations

NEMA MG1 Part 31
Three Phase only

Inverter Duty
Inverter Duty Certified (Three Phase only)
- Please call for specific ratings

APPROVED BY APPROVED BY
LR 38324

ODP NEMA 48 & 56 Frame Motors - Single and Three Phase
Purchasing Data

Single Phase

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					115V	230V		
0.25	3600	B 48	$150	$194	OF.2510248	4.30	2.15	18	9.409
	3600	56	150	194	OF.25102	4.30	2.15	18	9.764
	1800	B 48	168	208	OF.2510448	5.30	2.65	19	9.409
	1800	56	168	208	OF.25104	5.30	2.65	19	9.764
0.33	3600	C 48	150	190	OF.3310248	5.70	2.85	21	10.197
	3600	C 56	150	190	OF.33102	5.70	2.85	21	10.551
	1800	C 48	167	207	OF.3310448	6.60	3.30	22	10.197
	1800	C 56	167	207	OF.33104	6.60	3.30	22	10.551
0.5	3600	C 48	178	218	OF.5010248	7.20	3.60	23	10.197
	3600	C 56	178	218	OF.50102	7.20	3.60	23	10.551
	1800	C 48	194	234	OF.5010448	8.50	4.25	24	10.197
	1800	C 56	194	234	OF.50104	8.50	4.25	24	10.551
0.75	3600	B 56	194	234	OF.75102	10.5	5.25	28	11.102
	1800	D 56	247	287	OF.75104	12.0	6.00	27	12.283
1	3600	D 56	217	257	OF000102	13.6	6.80	33	12.283
	1800	D 56	274	314	OF000104	14.0	7.00	32	12.283
1.5	3600	D 56	295	335	OF001102	17.8	8.90	38	12.283
	1800	F 56 H	338	378	OF001104	20.4	10.2	42	13.464
2	3600	F 56 H	350	390	OF002102	21.9	11.0	49	13.464
	1800	G 56 H	372	412	OF002104	28.0	14.0	48	13.858
3	3600	G 56 H	429	469	OF003102	31.0	15.5	44	13.858

Flange: For C Flange replace 'F' with 'C'

Three Phase

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					460V	575V		
0.25	3600	A56	$163	$203	OF.25X02	2.15	1.72	18	10.315
	1800	A56	163	203	OF.25X04	2.15	1.72	19	10.315
	1200	A56	215	255	OF.25X06	2.65	2.12	18	10.315
0.33	3600	A56	167	207	OF.33X02	2.65	2.12	19	10.315
	1800	A56	167	207	OF.33X04	2.85	2.28	19	10.315
	1200	A56	219	259	OF.33X06	2.85	2.28	21	10.315
0.5	3600	A56	175	215	OF.50X02	3.30	2.64	21	10.315
	1800	A56	192	232	OF.50X04	3.30	2.64	20	10.315
	1200	B56	244	284	OF.50X06	3.60	2.88	26	11.102
0.75	3600	B56	192	232	OF.75X02	3.60	2.88	22	11.102
	1800	B56	206	246	OF.75X04	4.25	3.40	24	11.102
	1200	D56	265	305	OF.75X06	4.25	3.40	31	12.283
1	3600	B56	206	246	OF000X02	5.25	4.20	24	11.102
	1800	B56	210	250	OF000X04	6.00	4.80	26	11.102
	1200	F56H	284	324	OF000X06	6.80	5.44	41	13.464
1.5	3600	D56	228	268	OF001X02	7.00	5.60	23	12.283
	1800	D56	235	275	OF001X04	8.90	7.12	31	12.283
2	3600	D56	247	287	OF002X02	10.2	8.16	34	12.283
	1800	F56H	247	287	OF002X04	11.0	8.80	38	13.464
3	3600	F56H	338	378	OF003X02	14.0	11.2	42	13.464

Flange: For C Flange replace 'F' with 'C'
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

ODP NEMA 48 & 56 Frame Motors - Single and Three Phase
Electrical Data

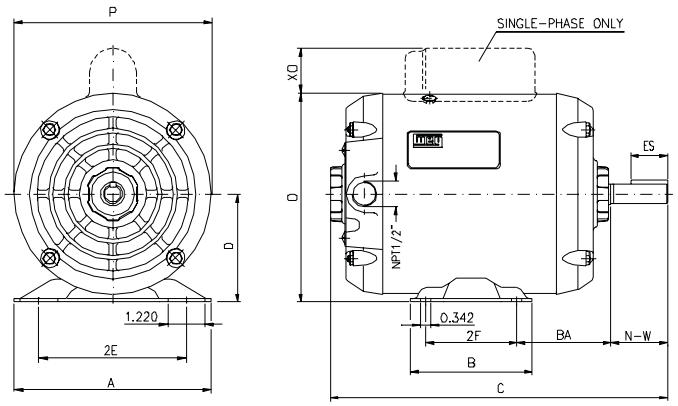
Single Phase

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
										% of full load								
HP	kW			115V	230V					50	75	100	50	75	100			
0.25	0.18	3440	B48	4.30	2.15	M	0.38	3.5	2.8	42.0	50.5	54.7	0.56	0.64	0.68	1.35	0.01495	18
		3440	56	4.30	2.15	M	0.38	3.5	2.8	42.0	50.5	54.7	0.56	0.64	0.68	1.35	0.01495	18
		1740	B48	5.30	2.65	N	0.74	3.2	2.6	40.5	48.5	55.9	0.40	0.48	0.54	1.35	0.03204	19
		1740	56	5.30	2.65	N	0.74	3.2	2.6	40.5	48.5	55.9	0.40	0.48	0.54	1.35	0.03204	19
0.33	0.25	3480	C48	5.70	2.85	N	0.49	3.8	3.0	46.5	54.1	57.6	0.49	0.59	0.65	1.35	0.01898	21
		3480	C56	5.70	2.85	N	0.49	3.8	3.0	46.5	54.1	57.6	0.49	0.59	0.65	1.35	0.01898	21
		1745	C48	6.60	3.30	N	0.98	3.5	2.8	45.5	53.5	58.2	0.39	0.47	0.55	1.35	0.04010	22
		1745	C56	6.60	3.30	N	0.98	3.5	2.8	45.5	53.5	58.2	0.39	0.47	0.55	1.35	0.04010	22
0.5	0.37	3470	C48	7.20	3.60	L	0.75	3.8	3.0	53.5	60.7	64.4	0.52	0.61	0.69	1.25	0.02326	23
		3470	C56	7.20	3.60	L	0.75	3.8	3.0	53.5	60.7	64.4	0.52	0.61	0.69	1.25	0.02326	23
		1730	C48	8.50	4.25	M	1.50	3.3	2.4	53.0	59.0	61.7	0.43	0.52	0.61	1.25	0.04817	24
		1730	C56	8.50	4.25	M	1.50	3.3	2.4	53.0	59.0	61.7	0.43	0.52	0.61	1.25	0.04817	24
0.75	0.55	3525	B56	10.5	5.25	L	1.10	2.5	2.8	56.5	64.2	67.2	0.52	0.61	0.68	1.25	0.03322	28
		1745	D56	12.0	6.00	M	2.23	2.7	2.6	57.7	65.9	66.7	0.41	0.51	0.60	1.25	0.10702	27
1	0.75	3520	D56	13.6	6.80	M	1.47	2.8	2.9	54.5	62.1	66.3	0.53	0.63	0.71	1.25	0.04153	33
		1740	D56	14.0	7.00	L	2.98	2.7	2.6	64.2	70.0	71.4	0.44	0.56	0.64	1.15	0.13384	32
1.5	1.1	3500	D56	17.8	8.90	L	2.22	2.5	2.4	61.5	67.5	70.0	0.58	0.69	0.77	1.15	0.04983	38
		1740	F56H	20.4	10.2	L	4.47	2.8	2.5	65.5	71.1	71.3	0.46	0.57	0.66	1.15	0.19554	42
2	1.5	3525	F56H	21.9	11.0	M	2.94	2.5	2.8	71.1	76.2	77.9	0.59	0.67	0.75	1.15	0.06644	49
		1730	G56H	28.0	14.0	L	5.99	2.5	2.5	64.3	70.6	71.4	0.42	0.53	0.64	1.15	0.23018	48
3	2.2	3490	G56H	31.0	15.5	K	4.45	2.3	2.4	74.9	77.8	77.4	0.61	0.73	0.80	1.15	0.07214	44

Three Phase

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
										% of full load								
HP	kW			230V	460V					50	75	100	50	75	100			
0.25	0.18	3440	B48	4.30	2.15	M	0.38	3.5	2.8	42.0	50.5	54.7	0.56	0.64	0.68	1.35	0.01495	18
		3440	56	4.30	2.15	M	0.38	3.5	2.8	42.0	50.5	54.7	0.56	0.64	0.68	1.35	0.01495	18
		1740	B48	5.30	2.65	N	0.74	3.2	2.6	40.5	48.5	55.9	0.40	0.48	0.54	1.35	0.03204	19
		1740	56	5.30	2.65	N	0.74	3.2	2.6	40.5	48.5	55.9	0.40	0.48	0.54	1.35	0.03204	19
0.33	0.25	3480	C48	5.70	2.85	N	0.49	3.8	3.0	46.5	54.1	57.6	0.49	0.59	0.65	1.35	0.01898	21
		3480	C56	5.70	2.85	N	0.49	3.8	3.0	46.5	54.1	57.6	0.49	0.59	0.65	1.35	0.01898	21
		1745	C48	6.60	3.30	N	0.98	3.5	2.8	45.5	53.5	58.2	0.39	0.47	0.55	1.35	0.04010	22
		1745	C56	6.60	3.30	N	0.98	3.5	2.8	45.5	53.5	58.2	0.39	0.47	0.55	1.35	0.04010	22
0.5	0.37	3470	C48	7.20	3.60	L	0.75	3.8	3.0	53.5	60.7	64.4	0.52	0.61	0.69	1.25	0.02326	23
		3470	C56	7.20	3.60	L	0.75	3.8	3.0	53.5	60.7	64.4	0.52	0.61	0.69	1.25	0.02326	23
		1730	C48	8.50	4.25	M	1.50	3.3	2.4	53.0	59.0	61.7	0.43	0.52	0.61	1.25	0.04817	24
		1730	C56	8.50	4.25	M	1.50	3.3	2.4	53.0	59.0	61.7	0.43	0.52	0.61	1.25	0.04817	24
0.75	0.55	3525	B56	10.5	5.25	L	1.10	2.5	2.8	56.5	64.2	67.2	0.52	0.61	0.68	1.25	0.03322	28
		1745	D56	12.0	6.00	M	2.23	2.7	2.6	57.7	65.9	66.7	0.41	0.51	0.60	1.25	0.10702	27
1	0.75	3520	D56	13.6	6.80	M	1.47	2.8	2.9	54.5	62.1	66.3	0.53	0.63	0.71	1.25	0.04153	33
		1740	D56	14.0	7.00	L	2.98	2.7	2.6	64.2	70.0	71.4	0.44	0.56	0.64	1.15	0.13384	32
1.5	1.1	3500	D56	17.8	8.90	L	2.22	2.5	2.4	61.5	67.5	70.0	0.58	0.69	0.77	1.15	0.04983	38
		1740	F56H	20.4	10.2	L	4.47	2.8	2.5	65.5	71.1	71.3	0.46	0.57	0.66	1.15	0.19554	42
2	1.5	3525	F56H	21.9	11.0	M	2.94	2.5	2.8	71.1	76.2	77.9	0.59	0.67	0.75	1.15	0.06644	49
		1730	G56H	28.0	14.0	L	5.99	2.5	2.5	64.3	70.6	71.4	0.42	0.53	0.64	1.15	0.23018	48
3	2.2	3490	G56H	31.0	15.5	K	4.45	2.3	2.4	74.9	77.8	77.4	0.61	0.73	0.80	1.15	0.07214	44

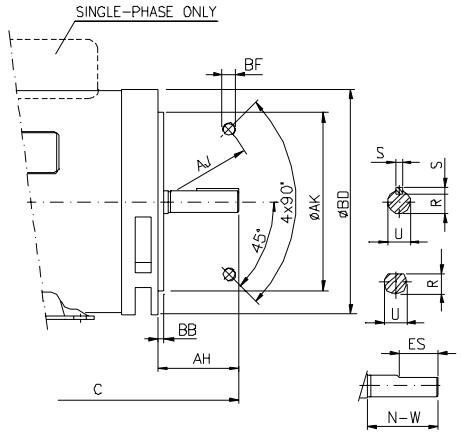
ODP NEMA 48 & 56 Frame Motors - Single and Three Phase
Mechanical Data



NEMA FRAMES	MOUNTING			A	B	C	D	O	P	XO	KEYWAY			SHAFT EXTENSION		BEARINGS	
	2E	2F	BA								S	R	ES	N–W	U	D.E.	O.D.E.
B48	4.236	2.748	2.500	6.141	3.543	9.409	3.000	5.905	5.748	1.516	*	*	*	1.500	0.5000	6203-ZZ	6202-ZZ
C48						10.197											
56	4.875	3.000	2.750	6.535	4.015	9.764	3.500	6.378			0.187	0.517	1.102	1.874	0.6250		
C56						10.551											
A56						10.315		6.772	6.535	1.516						6204-ZZ	6203-ZZ
B56						11.102											
D56						12.283											
F56H		3.000 5.000**			6.496	13.464				1.300							
G56H						13.858											

* The shaft of NEMA 48 frame motors shows a flat Chanfer with 0.291" of width instead of the keyway.
** NEMA 56H is provided with a double holed base - DIMENSION B: 3" AND 5".

"C" FLANGE DIMENSIONS						
NEMA FRAMES	AJ	AK	BD	BF		AH
				NUMBER	TAP SIZE	
FC–95	3.748	3.000	5.629	4	UNC0.25"	1.689
FC–149	5.874	4.500	6.496		UNC3/8"	2.063



Single Phase Motors 140T Frame and up - ODP and TEFC
Purchasing Data

Standard Features - ODP

- Single Phase, 2 & 4 pole, 60Hz
- Voltage: 208-230V or 115/208-230V & 460V (5HP and up)
- Open Drip Proof (IP22), fan cooled
- Service Factor: 1.25
- Squirrel cage rotor / Aluminum die cast
- Ball bearings
- High starting torque
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- F1 mounting T-box
- NPT threaded terminal box conduit hole
- NEMA Dimensions
- Colour: RAL 7022 - Dark Gray
- WEG Paint plan: 201A

Optional Features - ODP & TEFC

- Flanges: ODP - C Flange
  TEFC - C Flange or D Flange from W182/4T)
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Drip cover (canopy) for shaft down applications

Standard Features - TEFC

- Single Phase, 2, 4 & 6 pole, 60Hz
- Voltage: 1HP - 3HP: 115/208-230V or 208-230/460V
- Voltage: 5HP and up: 230V or 230/460V
- Totally Enclosed Fan Cooled (IP55)
- Steel plate frames (143/5T)
- Cast iron frames (182T up to 215T)
- Automatic drain plugs
- V-ring slingers on both endshields
- Service Factor: 1.15
- Squirrel cage rotor / Aluminum die cast
- Ball bearings
- High starting torque
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- F1 mounting T-box
- NPT threaded terminal box conduit hole
- Stainless steel nameplate from 182T frame and up
- NEMA Dimensions
- Colour: RAL 7022 - Dark Gray
- WEG Paint plan: 201A

APPROVED BY APPROVED BY

LR 38324

Single Phase Motors 140T Frame and up - ODP and TEFC
Purchasing Data

ODP

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	Part Number	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM						
3	3600	182T	$540	$611	DP003102	73	14.448
	1800	184T	540	611	DP003104	73	14.870
5	3600	184T	593	664	DP005102	99	14.870
	1800	184T	593	664	DP005104S	99	14.870
7.5	3600	184T	774	845	DP007102	108	14.870
	1800	213/5T	999	1080	DP007104	147	19.500

Flange: For C Flange replace 'D' with 'C'

TEFC

Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM						230V		
1	3600	F 143/5T	$385	$459	•	TS000102	6.30	30	14.488
	1800	F 143/5T	397	471	•	TS000104	7.00	34	14.488
	1200	G 143/5T	710	784	•	TS000106	5.80	43	14.882
1.5	3600	F 143/5T	440	514	•	TS001102	8.50	34	14.488
	1800	G 143/5T	452	526	•	TS001104	9.00	46	14.882
	1200	W 182/4T	806	890	$896	TS001106W	7.70	88	17.240
2	3600	G 143/5T	475	549	•	TS002102	10.2	42	14.882
	1800	G 143/5T	536	610	•	TS002104	10.8	51	14.882
	1800	W 182/4T	639	723	729	TS002104W	10.0	83	17.240
	1200	W 213/5T	970	1,065	1,070	TS002106W	10.0	108	21.000
3	3600	G 143/5T	745	819	•	TS003102	13.5	49	14.882
	3600	W 182/4T	775	859	865	TS003102W	14.5	77	17.240
	1800	W 182/4T	632	716	722	TS003104W	14.0	73	17.240
	1200	W 213/5T	1032	1,127	1,132	TS003106W	13.0	126	21.000
5	3600	184T	894	978	984	TS005102	21.0	106	17.050
	1800	184T	762	846	852	TS005104	21.0	143	17.050
	1800	W 213/5T	1,007	1,102	1,107	TS005104W	21.0	150	21.000
	1200	215T	1,164	1,259	1,264	TS005106	22.0	168	19.500
7.5	3600	W 213/5T	1,237	1,332	1,337	TS007102W	31.0	126	21.000
	1800	215T	1,179	1,274	1,279	TS007104S	34.0	154	19.500
	1800	215TZ	1,179	1,274	1,279	TS007104	34.0	154	19.500
10	3600	215T	1,481	1,576	1,581	TS010102	39.0	159	19.500
	1800	215T	1,429	1,524	1,529	TS010104	40.0	165	19.500
12.5	3600	215T	1,629	1,724	1,729	TS012102	47.8	176	19.500
	1800	215T	1,572	1,667	1,672	TS012104	47.8	198	19.500

Flange: For C Flange replace 'TS' with 'TC'
For D Flange replace 'TS' with 'TD'

Single Phase Motors 140T Frame and up - ODP and TEFC
Electrical Data

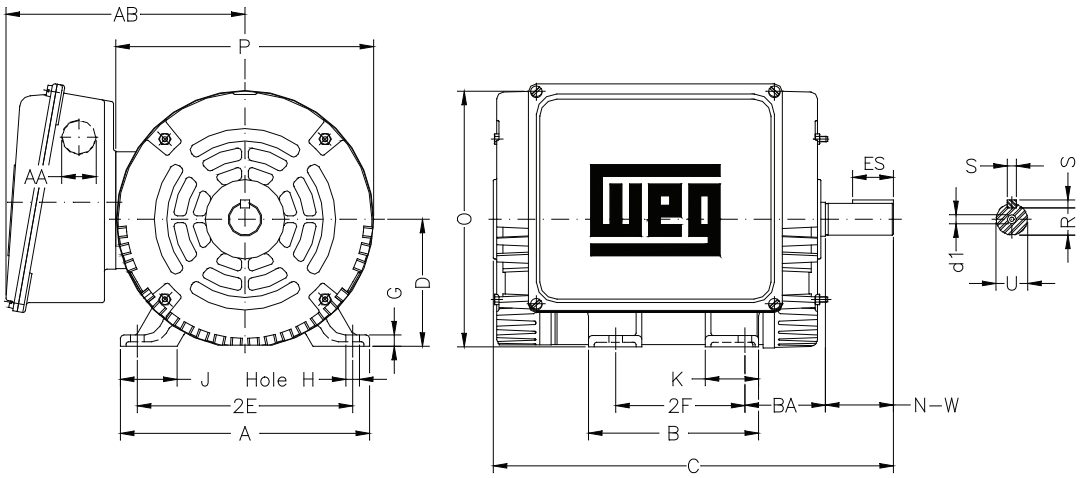
ODP

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)	Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
HP	kW			230V					50	75	100	50	75	100			
3	2.2		182T	DATA AVAILABLE ON REQUEST													
		1750	184T	17.5	K	8.85	2.1	2.0	71.0	74.0	75.0	0.56	0.68	0.75	1.25	0.4319	105
5	3.7	3500	184T	21.0	G	7.38	2.6	2.0	80.0	81.5	81.5	0.85	0.91	0.92	1.25	0.2563	104
		1745	184T	21.5	H	14.8	2.2	2.0	81.5	82.5	82.5	0.82	0.87	0.91	1.25	0.4983	114
7.5	5.5		184T	DATA AVAILABLE ON REQUEST													
			213/5T	DATA AVAILABLE ON REQUEST													

TEFC

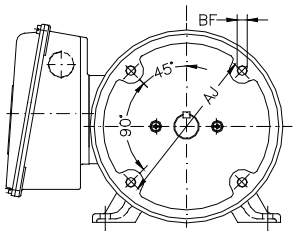
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
HP	kW			115V	230V					50	75	100	50	75	100			
1	0.75	3510	143T	12.6	6.30	L	1.48	2.4	2.4	57.0	63.0	67.0	0.62	0.71	0.77	1.15	0.03560	46
		1760	143T	11.2	5.60	L	2.94	2.8	2.7	65.0	72.0	74.0	0.61	0.71	0.79	1.15	0.09255	54
1.5	1.1	3535	143T	15.2	7.60	K	2.20	2.4	2.8	68.0	73.5	76.0	0.70	0.81	0.85	1.15	0.04746	53
		1760	145T	14.4	7.20	L	4.42	2.5	2.9	65.0	72.0	76.0	0.76	0.82	0.87	1.15	0.12340	62
		1180	182T	19.0	9.50	K	6.59	2.2	2.6	60.0	68.0	72.0	0.53	0.62	0.70	1.15	0.34575	88
2	1.5	3530	145T	19.2	9.60	J	2.94	2.7	2.8	72.0	75.5	79.0	0.74	0.84	0.86	1.15	0.05695	55
		1740	145T	19.0	9.50	J	5.96	2.3	2.3	69.0	74.0	76.0	0.75	0.85	0.90	1.15	0.19933	64
		1160	213T	20.0	10.0	K	8.93	2.4	2.3	68.0	75.0	80.0	0.68	0.75	0.80	1.15	0.53155	118
3	2.2	3500	145T	26.8	13.4	J	4.44	2.3	2.5	75.0	79.0	79.5	0.81	0.86	0.90	1.15	0.08068	60
		3490	182T	27.0	13.5	J	4.45	2.6	2.6	75.0	77.0	78.0	0.84	0.88	0.91	1.15	0.15187	87
		1745	184T	26.6	13.3	J	8.91	3.0	2.6	70.0	75.0	78.0	0.82	0.89	0.92	1.15	0.31561	89
		1750	W182/4T	28.0	14.0	J	8.88	2.9	2.4	75.0	79.0	80.0	0.70	0.80	0.85	1.15	0.23730	88
		1165	215T	26.0	13.0	G	13.3	2.3	2.2	71.0	78.0	82.0	0.84	0.89	0.90	1.15	0.61935	162
5	3.7	3500	184T	42.0	21.0	H	7.40	2.8	2.6	79.0	81.0	83.0	0.80	0.88	0.92	1.15	0.19530	102
		1730	184T	42.0	21.0	H	15.0	2.9	2.4	75.0	78.0	80.0	0.86	0.92	0.95	1.15	0.42714	113
		1730	215TZ	42.0	21.0	H	15.0	2.9	2.4	75.0	78.0	80.0	0.86	0.92	0.95	1.15	0.44375	128
		1160	215T	44.0	22.0	H	22.3	2.3	2.3	76.0	81.0	82.0	0.80	0.86	0.88	1.15	1.78450	166
7.5	5.5	3495	184T	61.8	30.9	H	11.1	2.8	2.6	79.0	83.0	84.0	0.82	0.89	0.92	1.15	0.57664	110
		3495	213T	61.8	30.9	H	11.1	2.8	2.6	79.0	83.0	84.0	0.82	0.89	0.92	1.15	0.57664	110
		1735	215TZ	68.0	34.0	H	22.4	3.2	2.5	75.0	80.0	82.0	0.71	0.81	0.86	1.15	0.90649	161
		1735	215T	68.0	34.0	H	22.4	3.2	2.5	75.0	80.0	82.0	0.71	0.81	0.86	1.15	0.90649	157
10	7.5	3520	215T	79.6	39.8	H	14.7	2.1	2.6	81.5	85.1	86.2	0.91	0.93	0.95	1.15	0.57664	157
		1720	215T	80.0	40.0	G	30.1	2.7	2.2	78.0	82.0	83.0	0.93	0.96	0.97	1.15	1.18650	180
12.5	9.2	3520	215T	94.6	47.3	H	18.4	1.6	2.9	86.0	87.5	89.0	0.91	0.93	0.95	1.15	0.75699	176
		1730	215T	95.6	47.8	G	37.4	2.2	2.4	79.0	84.0	85.3	0.95	0.96	0.98	1.15	1.33363	192

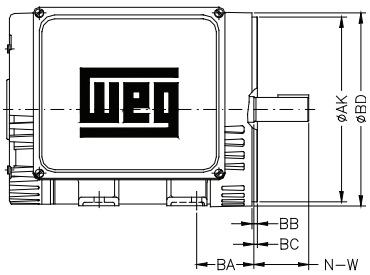
Single Phase Motors 140T Frame and up - ODP
Mechanical Data



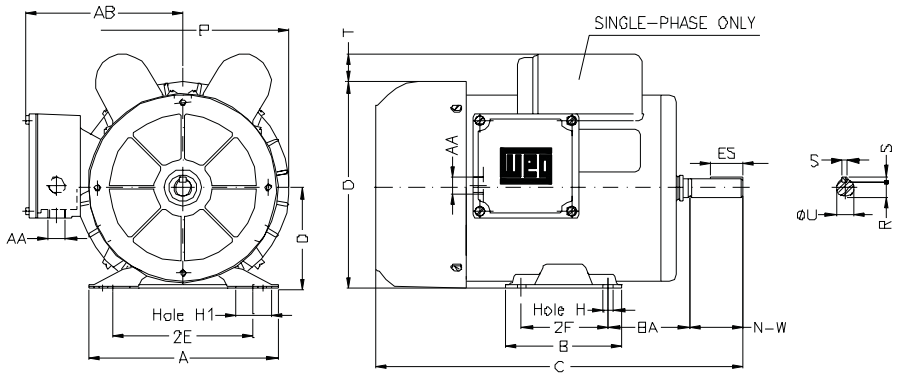
NEMA Frames	Mounting					A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	2F1	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.
182T	7.500	4.500	5.500	0.406	2.750	8.661	6.299	13.504	4.500	0.187	1.171	1.988	8.307	7.637		0.250	0.984	1.771	2.750	1.125	8.346	NPT0.75"	A4	6206-ZZ	6205-ZZ
184T								14.291																	
213T	8.500	5.500	7.000		3.488	9.448	7.952	17.165	5.250		1.063	2.567	9.842	8.779	1.378	0.312	1.203	2.480	3.375	1.375				6208-ZZ	6206-ZZ
215T																									

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
182/4T	2.750	7.250	8.500	8.875	4	UNC0.5"x16	0.250	0.125	2.625
213/5T	3.500							0.250	3.125

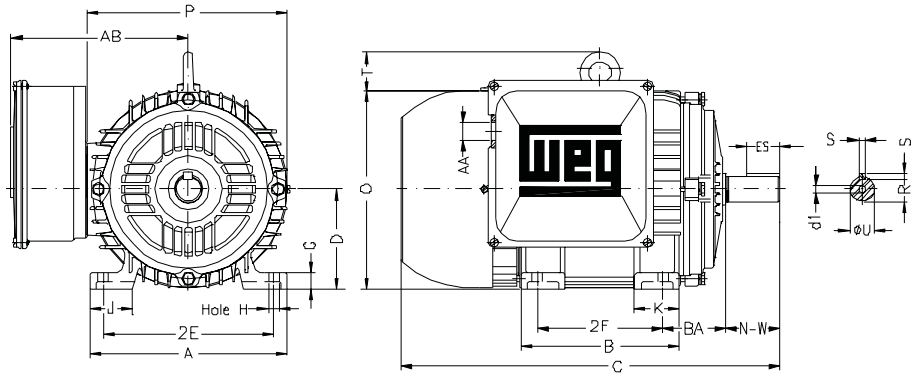




Single Phase Motors 140T Frame and up - TEFC
Mechanical Data



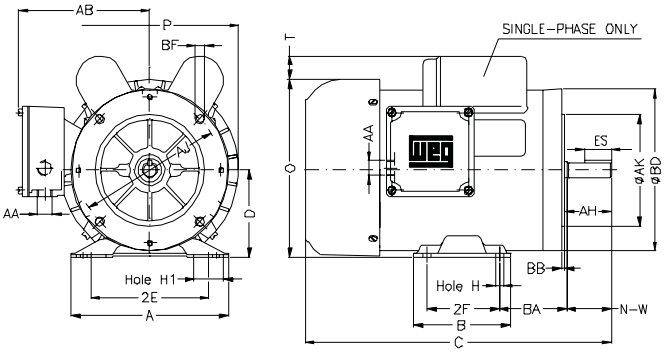
NEMA FRAMES	MOUNTING					A	B	C	D	O	P	XO	KEYWAY			SHAFT EXTENSION		AB	AA	BEARINGS	
	2E	2F	H	H1	BA								S	R	ES	N–W	U			D.E.	O.D.E.
F143T	5.500	5.000	0.343	-	2.250	6.535	6.498	14.834	3.500	7.165	7.323	1.064	0.187	0.766	1.417	2.250	0.875	5.433	NPT0.75"	6205-ZZ	6203-ZZ
G145T								15.228													



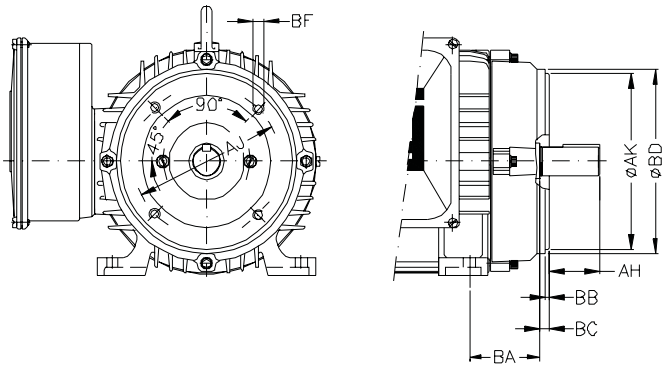
NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.
W182/4T	7.500	4.500	0.406	2.750	8.661	6.968	17.240	4.500	0.630	1.890	2.441	8.267	7.800	1.851	0.250	1.234	1.771	2.750	1.125	7.362	NPT0.75"	A4	6206-ZZ	6206-ZZ
184T		5.500					17.050				1.968		8.820							7.835			6307-ZZ	
W213/5T	8.500	7.000		3.500	9.765	8.875	21.000	5.250	0.830	2.000	3.343	9.610		1.890	0.312	1.516	2.480	3.375	1.375	7.953	NPT1"		6308-ZZ	
215T							19.500				2.165		10.630							9.055				

Single Phase Motors 140T Frame and up - TEFC
Mechanical Data

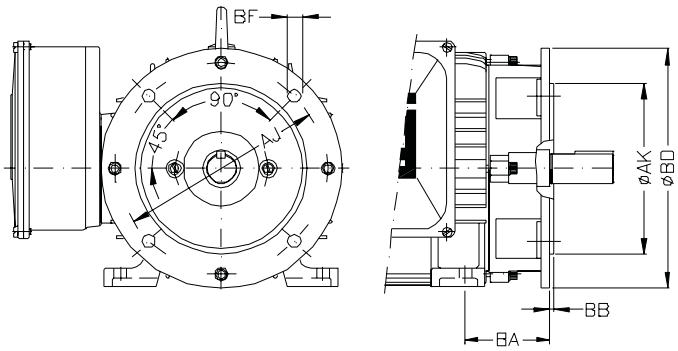
"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		BB	AH
				NUMBER	TAP SIZE		
F143/5T G143/5T	5.875	4.500	6.535	4	16	0.157	2.125



"C" FLANGE DIMENSIONS								
NEMA FRAMES	AJ	AK	BD	BF		BB	BC	AH
				NUMBER	TAP SIZE			
W182/4T 184T W213/5T 215T	7.250	8.500	8.860	4	UNC0.5"x13	0.250	0.250	3.120



"D" FLANGE DIMENSIONS						
NEMA FRAMES	AJ	AK	BD	BF		BB
				NUMBER	TAP SIZE	
W182/4T 184T W213/5T 215T	10.000	9.000	11.000	4	0.590	0.190



Explosion Proof NEMA 56 Frame Motors
Purchasing Data

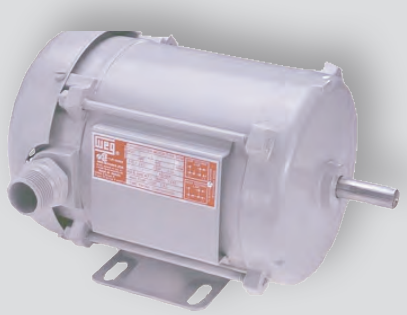
Standard Features

- Single and Three Phase, 4 pole, 60 Hz
- Voltage: Single Phase 115/208-230V
  Three Phase 208-230/460 or 575V
- Totally Enclosed Fan Cooled (IP44)
- Squirrel cage rotor
- Ball bearings
- Overload protection: Single Phase: Automatic Thermostats
  Three Phase: Thermostats
- Continuous Duty
- 40°C ambient
- High starting torque
- Service Factor: 1.15
- Insulation class 'B' (Δt 80°C)
- Designed to operate in any position
- Paint: RAL 7022 (Grey)
- WEG Paint Plan: 201A
- Terminal box included

Optional Features

- Class 'F" insulation
- Flange mounted (C Flange
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Other mounting configurations

Note:
This Motor is not suitable for Inverter Duty Applications



CSA Approved
File LR 50962

Division 1, Class I, Group D
Division 1, Class II, Groups F & G
Temperature Code T3C

APPROVED BY
LR 50962

Explosion Proof NEMA 56 Frame Motors
Purchasing Data

Single Phase

Rated Output		NEMA Frame	List Price	List Price with "C" Flange	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					230V		
0.25	1800	A56EX	$432	$487	XF.25104	2.20	35	11.410
0.33	1800	A56EX	469	524	XF.33104	3.00	37	11.410
0.5	1800	B56EX	505	560	XF.50104	3.60	40	12.204
0.75	1800	D56EX	558	613	XF.75104	4.80	44	13.385
1	1800	D56EX	609	664	XF000104	5.50	46	13.385

Flange: For "C" flange replace 'F' with 'C'

Three Phase

Rated Output		NEMA Frame	List Price	List Price with "C" Flange	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					460V	575V		
0.25	1800	A56EX	$468	$523	XF.25X04	0.55	0.44	33	11.410
0.33	1800	A56EX	501	556	XF.33X04	0.65	0.52	35	11.410
0.5	1800	B56EX	524	579	XF.50X04	0.88	0.70	37	12.204
0.75	1800	B56EX	546	601	XF.75X04	1.16	0.93	40	12.204
1	1800	D56EX	609	664	XF000X04	1.50	1.20	46	13.385

Flange: For "C" flange replace 'F' with 'C'
Voltage: Replace 'X' with 4 for 208–230/460V
Replace 'X' with 5 for 575V

Explosion Proof NEMA 56 Frame Motors
Electrical Data

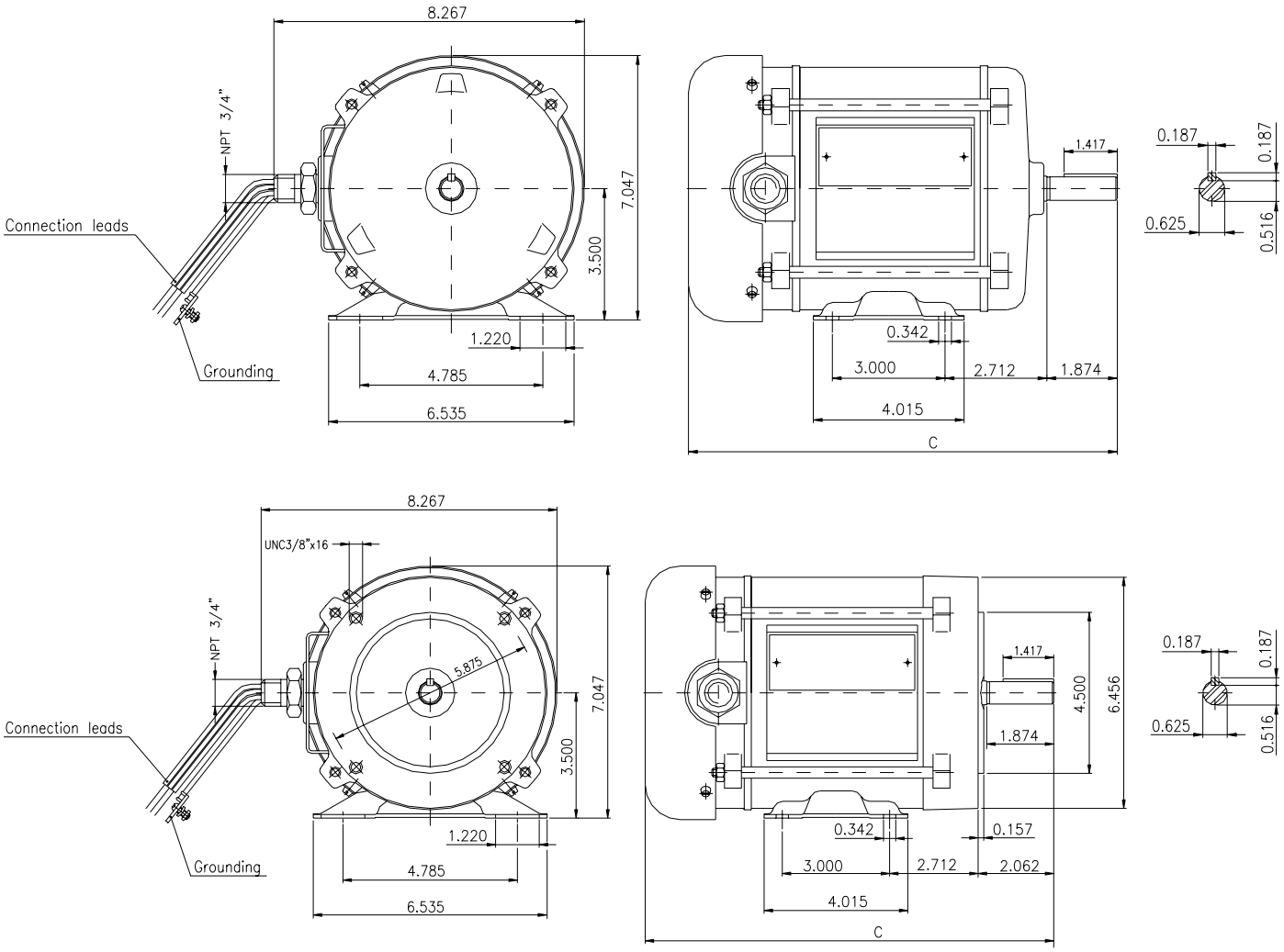
Single Phase

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
										% of full load								
HP	kW			115V	230V					50	75	100	50	75	100			
0.25	0.18	1760	A56EX	4.40	2.20	P	0.74	3.0	3.0	52.0	61.0	64.0	0.40	0.49	0.56	1.15	0.06170	35
0.33	0.25	1755	A56EX	6.50	3.25	N	0.97	3.1	2.9	46.5	55.2	60.2	0.39	0.48	0.54	1.15	0.07997	33
0.5	0.37	1750	B56EX	7.40	3.70	M	1.48	2.8	2.2	57.0	64.0	68.6	0.44	0.55	0.63	1.15	0.09777	37
0.75	0.55	1760	D56EX	11.0	5.50	M	2.21	3.2	3.0	57.0	65.0	71.5	0.42	0.53	0.61	1.15	0.12458	42
1	0.75	1740	D56EX	11.4	5.70	H	2.98	1.9	2.1	72.1	74.7	74.9	0.56	0.68	0.75	1.15	0.14285	44

Three Phase

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
										% of full load								
HP	kW			230V	460V					50	75	100	50	75	100			
0.25	0.18	1750	A56EX	1.10	0.55	M	0.74	3.0	2.6	52.0	57.0	62.2	0.51	0.61	0.66	1.15	0.05430	33
0.33	0.25	1750	A56EX	1.30	0.65	J	0.98	2.4	3.0	66.0	72.0	74.0	0.43	0.54	0.64	1.15	0.06217	30
0.5	0.37	1740	B56EX	1.75	0.88	J	1.49	2.4	3.0	72.0	74.0	75.5	0.48	0.61	0.70	1.15	0.07997	33
0.75	0.55	1730	B56EX	2.32	1.16	H	2.25	2.4	2.8	77.0	80.0	81.5	0.53	0.66	0.74	1.15	0.09777	36
1	0.75	1740	D56EX	3.00	1.50	J	2.98	2.8	3.2	80.0	82.5	84.0	0.53	0.66	0.74	1.15	0.14214	44

Explosion Proof NEMA 56 Frame Motors
Mechanical Data



NEMA FRAMES	C	BEARINGS	
		D.E	O.D.E.
A56	11.410	6203-ZZ	
B56	12.204		
D56	13.385		

Compressor Duty NEMA 56 Frame Motors - ODP
Purchasing Data

Standard Features

- Single Phase, 2 pole, 60 Hz
- Voltage: 115/208-230V up to frame F 56 H
  208-230V for frame G 56 H
- Open Drip Proof (IP21)
- Squirrel cage rotor
- Capacitor start
- Dimensions according to NEMA standard
- Insulation class 'B' (Δt 80°C)
- Ball bearings
- Manual overload
- High starting torque
- Service Factor: 1.0
- Paint: RAL 7022 (Dark Grey)

Optional Features

- Class 'F" insulation
- Flange mounted (C Flange)
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Other mounting configurations

APPROVED BY APPROVED BY

LR 38324

Compressor Duty NEMA 56 Frame Motors - ODP
Purchasing Data

Single Phase

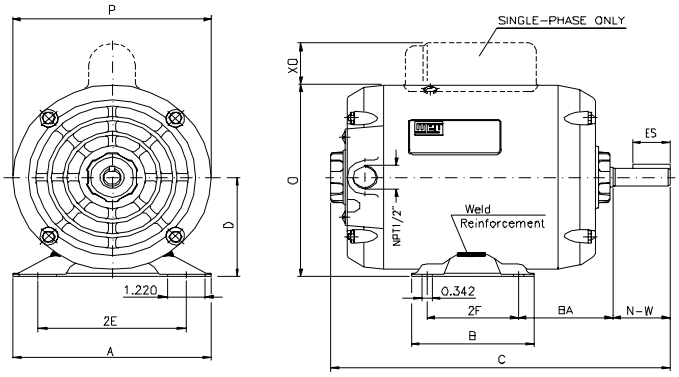
Rated Output		NEMA Frame	List Price	List Price with "C" Flange	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					230V		
0.5	3600	C 56	$208	$248	CD.50102	3.60	20	10.433
0.75	3600	C 56	234	274	CD.75102	4.50	22	10.433
1	3600	B 56	264	304	CD000102	7.00	30	11.102
1.5	3600	D 56	268	308	CD001102	9.50	35	12.283
2	3600	D 56	294	334	CD002102	11.0	40	12.283
3	3600	F 56 H	314	354	CD003102	15.0	46	13.464
5	3600	G 56 H	378	418	CD005102	25.0	51	13.858

Flange: For "C" flange add 'C' to end of part number

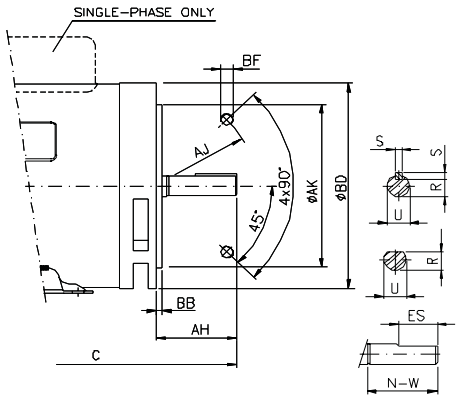
Compressor Duty NEMA 56 Frame Motors - ODP
Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
										% of full load								
HP	kW			115V	230V					50	75	100	50	75	100			
0.5	0.37	3400	C56	6.60	3.30	H	0.76	2.5	2.9	53.0	59.0	63.0	0.61	0.71	0.77	1.00	0.01898	23
0.75	0.55	3400	C56	9.20	4.60	H	1.14	2.5	1.9	62.0	65.0	66.0	0.61	0.72	0.80	1.00	0.02326	24
1	0.75	3480	B56	12.2	6.10	J	1.49	1.8	2.5	59.0	65.0	67.0	0.59	0.70	0.78	1.00	0.03322	21
1.5	1.1	3430	D56	16.8	8.40	H	2.27	2.0	1.9	64.0	68.0	68.0	0.68	0.78	0.84	1.00	0.04153	33
2	1.5	3440	D56	22.0	11.0	J	3.01	2.1	1.9	67.0	70.0	70.0	0.67	0.77	0.84	1.00	0.04983	38
3	2.2	3440	F56H	--	14.7	H	4.52	1.8	1.9	76.0	77.0	77.0	0.70	0.80	0.86	1.00	0.06644	42
5	3.7	3460	G56H	--	19.0	G	7.49	2.6	2.2	83.0	85.0	85.0	0.99	0.99	0.99	1.00	0.07214	56

Compressor Duty NEMA 56 Frame Motors - ODP
Mechanical Data



NEMA FRAMES	MOUNTING			A	B	C	D	O	P	XO	KEYWAY			SHAFT EXTENSION		BEARINGS	
	2E	2F	BA								S	R	ES	N–W	U	D.E.	O.D.E.
C56	4.875	3.000	2.750	6.535	4.015	10.551	3.500	6.378	5.748	1.516	0.187	0.517	1.102	1.874	0.625	6203-ZZ	6202-ZZ
A56						10.315		6.772	6.535							6204-ZZ	6203-ZZ
B56						11.102				1.516							
D56						12.283											
F56H		3.000			6.496	13.464				1.300							
G56H		5000*				13.858											



"C" FLANGE DIMENSIONS						
NEMA FRAMES	AJ	AK	BD	BF		AH
				NUMBER	TAP SIZE	
FC–95	3.748	3.000	5.629	4	UNC0.25"	1.689
FC–149	5.874	4.500	6.496		UNC3/8"	2.063

Farm Duty Motors - TEFC
Purchasing Data

Standard Features

- Single Phase, 4 pole, 60 Hz
- Voltage: 115/230V up to frame G145T
- 230V above frame G145T
- Totally Enclosed Fan Cooled (IP55)
- Squirrel cage rotor
- Capacitor start
- V Ring in both endshields
- Dimensions according to NEMA standard
- Manual thermal overload protection
- High starting torque
- Insulation class 'B' up to frame 143/5T
- Insulation class 'F' above frame 143/5T
- Ball bearings
- Service Factor: 1.15
- Continuous Duty (S1), 40°C ambient
- Paint: RAL 3002 (Red)
- WEG paint plan: 201A

Optional Features

- Class 'F' insulation (up to frame 143/5T)
- Class 'H' insulation (frames W182/4T up to 215T)
- Flange mounted
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft

APPROVED BY APPROVED BY

LR 38324

Farm Duty Motors - TEFC
Purchasing Data

Single Phase

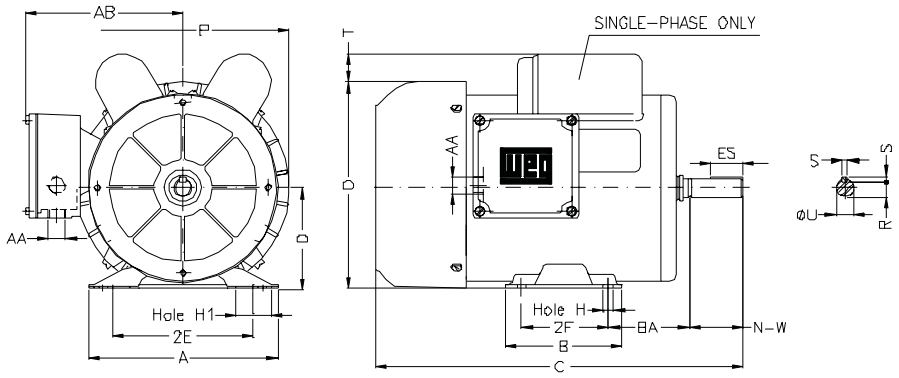
Rated Output		NEMA Frame	List Price	List Price with "C" Flange	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM					230V		
0.33	1800	B 56	$216	$256	FD.33104	3.00	21	11.496
0.5	1800	B 56	232	272	FD.50104	3.70	23	11.496
0.75	1800	B 56	270	310	FD.75104	5.50	25	11.496
1	1800	F143/5T	316	390	FD000104S	7.50	32	13.674
	1800	D 56	292	332	FD000104	7.50	33	12.677
1.5	1800	F 56 H	358	398	FD001104	9.00	46	13.858
	1800	G143/5T	376	450	FD001104S	9.00	47	15.355
2	1800	G 56 H	424	486	FD002104S	11.0	49	15.355
	1800	G143/5T	446	498	FD002104	11.0	50	14.252
	1800	W182/4T	576	660	FD002104W	10.0	68	17.240
3	1800	W182/4T	642	726	FD003104W	14.5	73	17.240
5	1800	184T	762	846	FD005104	21.0	143	17.050
	1800	W213/5T	970	1,065	FD005104W	21.0	116	21.000
7.5	1800	215T	1,092	1,187	FD007104	32.0	154	19.500
	1800	215TZ	1,092	1,187	FD007104S	32.0	154	19.500
10	1800	215T	1,286	1,381	FD010104	40.0	165	19.500

Flange: For "C" flange add 'C' to end of part number

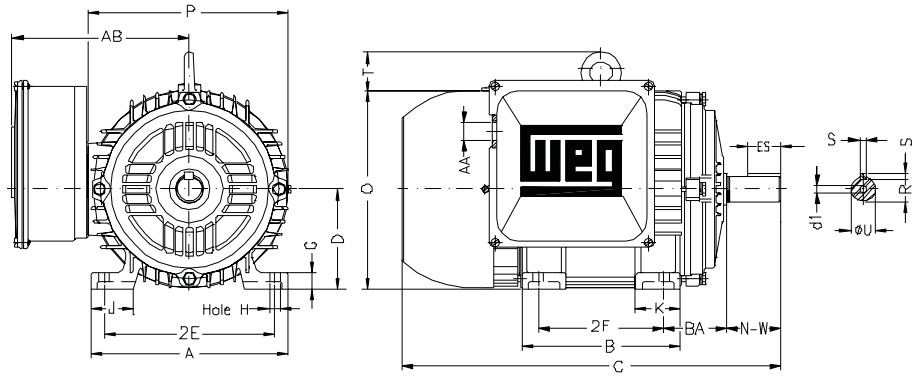
Farm Duty Motors - TEFC
Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Approx. Weight (lb)
										% of full load								
HP	kW			115V	230V					50	75	100	50	75	100			
0.25	0.18	1750	B56	4.70	2.35	P	0.74	3.6	2.8	45.0	53.0	57.7	0.41	0.50	0.58	1.15	0.05363	20
0.33	0.25	1750	B56	5.60	2.80	N	0.98	3.4	2.8	49.0	58.0	61.0	0.44	0.53	0.62	1.15	0.06241	22
0.5	0.37	1750	B56	7.40	3.70	L	1.48	2.9	2.7	56.0	64.0	66.5	0.46	0.57	0.65	1.15	0.08044	25
0.75	0.55	1745	B56	10.6	5.30	M	2.23	3.0	2.5	58.5	66.0	68.5	0.47	0.58	0.66	1.15	0.09824	28
1	0.75	1750	D56	14.0	7.00	M	2.96	3.2	2.7	60.0	67.0	70.3	0.45	0.56	0.65	1.15	0.13384	38
		1750	F143T	14.0	7.00	M	2.96	3.2	2.7	60.0	67.0	70.3	0.45	0.56	0.65	1.15	0.13384	38
1.5	1.1	1750	F56H	17.4	8.70	K	4.44	2.8	2.6	70.0	75.0	76.5	0.52	0.64	0.72	1.15	0.19554	50
		1750	G145T	17.4	8.70	K	4.44	2.8	2.6	70.0	75.0	76.5	0.52	0.64	0.72	1.15	0.19554	50
2	1.5	1750	G56H	21.0	10.5	K	5.92	2.8	2.5	74.0	78.0	78.1	0.60	0.71	0.78	1.15	0.21333	51
		1750	G145T	21.0	10.5	K	5.92	2.8	2.5	74.0	78.0	78.1	0.60	0.71	0.78	1.15	0.21333	51
		1725	W182/4T	20.0	10.0	H	6.01	2.9	2.5	64.0	70.0	72.7	0.74	0.82	0.88	1.15	0.21784	85
3	2.2	1750	W182/4T	--	14.5	J	8.88	2.9	2.4	69.0	75.0	77.2	0.72	0.80	0.86	1.15	0.23730	88
5	3.7	1730	184T	--	21.0	J	15.0	2.9	2.4	76.0	78.0	79.4	0.91	0.93	0.95	1.15	0.42714	113
		1730	W213/5T	--	21.0	J	15.0	2.9	2.4	76.0	78.0	79.4	0.91	0.93	0.95	1.15	0.44612	128
7.5	5.5	1730	215T	--	32.0	H	22.5	2.9	2.4	77.0	80.0	82.0	0.87	0.89	0.92	1.15	0.90649	156
10	7.5	1720	215T	--	40.0	G	30.1	2.7	2.4	80.0	82.0	83.0	0.90	0.94	0.96	1.15	1.18650	179

Farm Duty Motors - TEFC
Mechanical Data



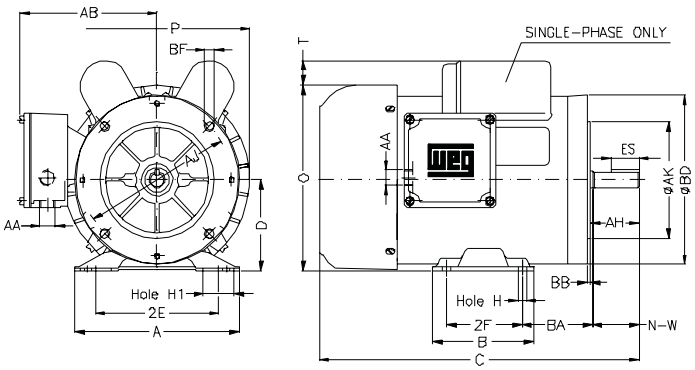
NEMA FRAMES	MOUNTING					A	B	C	D	O	P	XO	KEYWAY			SHAFT EXTENSION		AB	AA	BEARINGS	
	2E	2F	H	H1	BA								S	R	ES	N–W	U			D.E.	O.D.E.
B56	4.875	3.000	0.343	1.220	2.750	6.535	4.016	11.457	3.500	7.165	7.323	1.064	0.187	0.517	1.102	1.874	0.625	5.433	NPT0.5"	6203-ZZ	6202-ZZ
D56								12.638													
F56H		5.000					6.498	13.819												6204-ZZ	6203-ZZ
G56H								14.212													
F143T	5.500				2.250			14.834						0.766	1.417	2.250	0.875		NPT0.75"	6205-ZZ	
G145T								15.228													



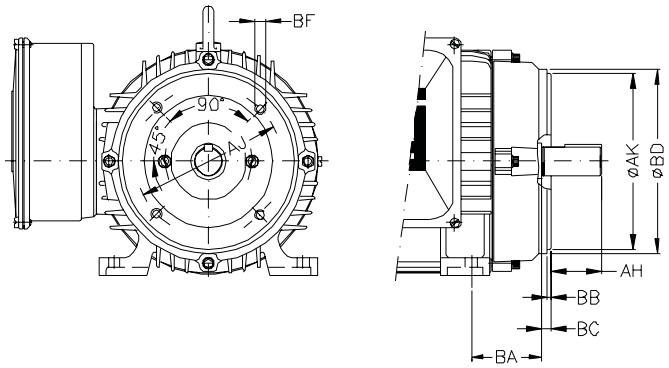
NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.
W182/4T	7.500	4.500	0.406	2.750	8.661	6.968	17.240	4.500	0.630	1.890	2.441	8.267	7.800	1.851	0.250	1.234	1.771	2.750	1.125	7.362	NPT0.75"	A4	6206-ZZ	6206-ZZ
184T		5.500					17.050				1.968									7.835			6307-ZZ	
W213/5T	8.500	7.000		3.500	9.765	8.875	21.000	5.250	0.830	2.000	3.343	9.610	8.820	1.890	0.312	1.516	2.480	3.375	1.375	7.953	NPT1"		6308-ZZ	
215T							19.500				2.165		10.630							9.055				

Farm Duty Motors - TEFC
Mechanical Data

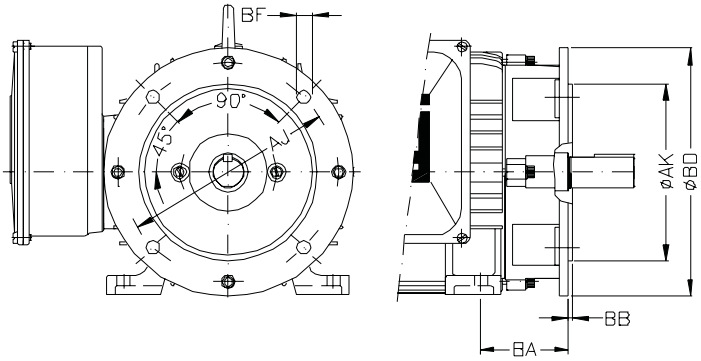
"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		BB	AH
				NUMBER	TAP SIZE		
B56	5.875	4.500	6.535	4	UNC3/8"x16	0.157	2.063
D56							
F56H							
G56H							
F143T							2.125
G145T							



"C" FLANGE DIMENSIONS								
NEMA FRAMES	AJ	AK	BD	BF		BB	BC	AH
				NUMBER	TAP SIZE			
W182/4T	7.250	8.500	8.860	4	UNC0.5"x13	0.250	0.250	3.120
184T								
W213/5T								
215T								



"D" FLANGE DIMENSIONS						
NEMA FRAMES	AJ	AK	BD	BF		BB
				NUMBER	TAP SIZE	
W182/4T	10.000	9.000	11.000	4	0.590	0.190
184T						
W213/5T						
215T						



Jet Pump Motors - NEMA 56 Frames - ODP and TEFC
Purchasing Data

Standard Features - ODP

- Single phase, 2 pole, 60Hz -or-
- Three phase, 2 pole, 60Hz (4 pole on request)
- Voltage: Single Phase - 115/208-230V
- Voltage: Three Phase - 208-230/460V or 575V
- Start capacitor
- Squirrel cage rotor
- Open Drip Proof (IP21)
- 'ZZ' Bearings
- Service factor according to NEMA standard MG 1-18.122
- Insulation class "B" (Δt 80°C)
- Continuous duty (S1), 40ºC ambient
- Automatic thermal overload protection (Single phase only)
- Keyed or Threaded shaft
- Rotation: Form J: non-reversible
- Form C: reversible
- Stainless steel shaft end
- Paint: RAL 7022
- WEG paint plan: 201A

Optional Features - ODP & TEFC

- Class 'F' insulation
- Special voltages
- Manual thermal overload protection
- Other mounting configurations
- 1800 RPM available on request

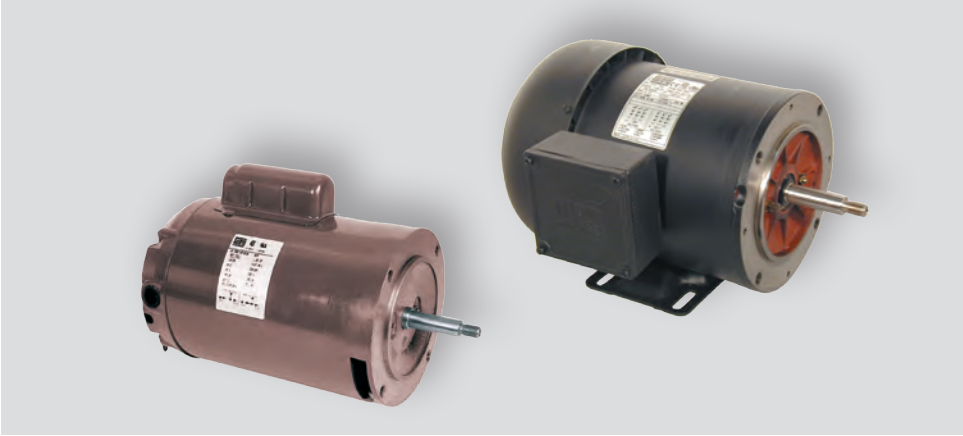
Standard Features - TEFC

- Single phase, 2 pole, 60Hz -or-
- Three phase, 2 pole, 60Hz (4 pole on request)
- Voltage: Single Phase - 115/208-230V
- Voltage: Three Phase - 208-230/460V or 575V
- Start capacitor
- Squirrel cage rotor
- Totally Enclosed Fan Cooled (IP55)
- Insulation class "B" (Δt 80°C)
- Continuous duty (S1), 40ºC ambient
- Automatic thermal overload protection (Single phase only)
- Keyed or Threaded shaft
- Rotation: Form J: non-reversible
- Form C: reversible
- Stainless steel shaft end
- Paint: RAL 7022
- WEG paint plan: 201A

NEMA MG1 Part 31
Three Phase only

Inverter Duty
Inverter Duty Certified (Three Phase only)
- Please call for specific ratings

APPROVED BY APPROVED BY
LR 38324



Jet Pump Motors - NEMA 56 Frames - ODP and TEFC
Purchasing Data

Single Phase - ODP (IP21) - Threaded Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				115V		
0.25	3600	W56J	$152	JO.25102	3.80	18	12.862
0.33	3600	W56J	160	JO.33102	5.20	20	12.862
0.5	3600	W56J	189	JO.50102	6.80	22	12.862
0.75	3600	E56J	229	JO.75102	11.0	27	13.610
1	3600	E56J	270	JO000102	14.0	33	13.610
1.5	3600	E56J	292	JO001102	18.0	34	13.610
2	3600	E56J	343	JO002102	22.0	40	13.610
3	3600	E56J	453	JO003102*	30.0	44	13.610

* only available for 230V

Single Phase - ODP (IP21) - Keyed Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				115V		
0.25	3600	W56C	$152	KO.25102	3.80	18	12.362
0.33	3600	W56C	160	KO.33102	5.20	20	12.362
0.5	3600	W56C	189	KO.50102	6.80	22	12.362
0.75	3600	E56C	229	KO.75102	11.0	27	13.110
1	3600	E56C	270	KO000102	14.0	33	13.110
1.5	3600	E56C	292	KO001102	18.0	34	13.110
2	3600	E56C	343	KO002102	22.0	40	13.110
3	3600	E56C	453	KO003102*	30.0	44	13.110

* only available for 230V

Single Phase - TEFC (IP55) - Threaded Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				115V		
0.33	3600	B56J	$185	JT.33102	5.60	22	11.957
0.5	3600	B56J	217	JT.50102	7.60	23	11.957
0.75	3600	B56J	264	JT.75102	10.6	28	11.957
1	3600	D56J	311	JT000102	12.6	30	13.138
1.5	3600	D56J	337	JT001102	17.0	34	13.138
2	3600	F56HJ	395	JT002102	21.0	42	14.319
3	3600	G56HJ	520	JT003102 *	27.0	49	14.712

* only available for 230V

Single Phase - TEFC (IP55) - Keyed Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				115V		
0.33	3600	B56C	$185	KT.33102	5.60	22	11.457
0.5	3600	B56C	217	KT.50102	7.60	23	11.457
0.75	3600	B56C	264	KT.75102	10.6	28	11.457
1	3600	D56C	311	KT000102	12.6	30	12.638
1.5	3600	D56C	337	KT001102	17.0	34	12.638
2	3600	F56HC	395	KT002102	21.0	42	13.819
3	3600	G56HC	520	KT003102 *	27.0	49	14.212

* only available for 230V

Jet Pump Motors - NEMA 56 Frames - ODP and TEFC
Purchasing Data

Three Phase - ODP (IP21) - Threaded Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				460V	575V		
0.33	3600	A56J	$160	J0.33X02	0.70	0.56	21	12.362
0.5	3600	A56J	189	J0.50X02	0.96	0.77	22	12.362
0.75	3600	B56J	229	J0.75X02	1.20	0.96	24	13.110
1	3600	B56J	270	J0000X02	1.55	1.24	26	13.110
1 0.5	3600	D56J	292	J0001X02	2.13	1.70	31	13.110
2	3600	D56J	343	J0002X02	2.68	2.14	35	13.110
3	3600	F56HJ	453	J0003X02	3.87	3.10	41	13.110

Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase - ODP (IP21) - Keyed Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				460V	575V		
0.33	3600	A56C	$160	K0.33X02	0.70	0.56	21	11.003
0.5	3600	A56C	189	K0.50X02	0.96	0.77	22	11.003
0.75	3600	B56C	229	K0.75X02	1.20	0.96	24	11.790
1	3600	B56C	270	K0000X02	1.55	1.24	26	11.790
1 0.5	3600	D56C	292	K0001X02	2.13	1.70	31	12.971
2	3600	D56C	343	K0002X02	2.68	2.14	35	12.971
3	3600	F56HC	453	K0003X02	3.87	3.10	41	14.152

Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase - TEFC (IP55) - Threaded Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				460V	575V		
0.33	3600	B56J	185	JT.33X02	0.60	0.48	17	11.957
0.5	3600	B56J	217	JT.50X02	0.83	0.66	19	11.957
0.75	3600	B56J	264	JT.75X02	1.10	0.88	22	11.957
1	3600	B56J	311	JT000X02	1.40	1.12	26	13.138
1 0.5	3600	B56J	337	JT001X02	1.96	1.57	29	13.138
2	3600	D56J	395	JT002X02	2.58	2.06	32	14.319
3	3600	F56HJ	520	JT003X02	3.80	3.04	35	14.712

Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase - TEFC (IP55) - Keyed Shaft

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				460V	575V		
0.33	3600	B56C	185	KT.33X02	0.60	0.48	17	11.457
0.5	3600	B56C	217	KT.50X02	0.83	0.66	19	11.457
0.75	3600	B56C	264	KT.75X02	1.10	0.88	22	11.457
1	3600	B56C	311	KT000X02	1.40	1.12	26	11.457
1 0.5	3600	B56C	337	KT001X02	1.96	1.57	29	11.457
2	3600	D56C	395	KT002X02	2.58	2.06	32	12.628
3	3600	F56HC	520	KT003X02	3.80	3.04	35	13.819

Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Jet Pump Motors - NEMA 56 Frames - ODP and TEFC
Electrical Data

Single Phase - ODP Threaded or Keyed Shaft

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
HP	kW			115V	230V					50	75	100	50	75	100			
0.25	0.18	3450	W56	3.80	1.90	M	0.38	2.4	2.6	32.4	41.8	47.3	0.48	0.56	0.63	1.75	0.01495	17
0.33	0.25	3450	W56	5.20	2.60	L	0.49	2.7	2.8	35.0	43.1	48.5	0.48	0.55	0.62	1.75	0.01898	18
0.5	0.37	3450	W56	6.80	3.40	L	0.75	2.0	2.9	44.8	53.5	58.0	0.47	0.55	0.63	1.60	0.02326	20
0.75	0.55	3450	W56	11.0	5.50	K	1.11	2.6	2.7	51.1	59.4	63.8	0.48	0.58	0.66	1.50	0.03322	24
1	0.75	3450	E56	14.0	7.00	M	1.47	2.0	2.6	60.5	66.2	69.0	0.58	0.60	0.77	1.40	0.04153	29
1.5	1.1	3450	E56	18.0	9.00	J	2.23	1.8	2.4	63.2	67.8	68.8	0.64	0.74	0.82	1.30	0.04153	30
2	1.5	3450	E56	22.0	11.0	H	3.00	1.7	2.4	68.0	70.0	71.5	0.64	0.76	0.83	1.20	0.05553	33
3	2.2	3450	E56	30.0	15.0	J	4.46	1.8	2.4	76.8	79.7	80.1	0.71	0.72	0.88	1.15	0.06644	45

Single Phase - TEFC Threaded or Keyed Shaft

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)		Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
HP	kW			115V	230V					50	75	100	50	75	100			
0.33	0.25	3490	B56	5.60	2.80	N	0.49	3.7	3.2	40.0	49.0	53.0	0.56	0.64	0.70	1.15	0.02776	26
0.5	0.37	3480	B56	7.60	3.80	L	0.74	3.2	2.8	45.0	52.0	58.0	0.56	0.66	0.73	1.15	0.03156	27
0.75	0.55	3490	B56	10.6	5.30	M	1.11	3.0	2.9	52.0	60.0	64.0	0.54	0.64	0.72	1.15	0.03963	29
1	0.75	3500	D56	12.6	6.30	M	1.48	3.2	2.8	55.0	63.0	67.0	0.56	0.67	0.75	1.15	0.05149	33
1.5	1.1	3480	D56	17.0	8.50	K	2.23	2.5	2.5	62.0	69.0	70.0	0.61	0.72	0.80	1.15	0.05933	37
2	1.5	3480	F56H	21.0	10.5	K	2.98	2.7	2.4	69.0	73.0	74.0	0.72	0.81	0.87	1.15	0.07902	44
3	2.2	3480	G56H	27.0	13.5	J	4.47	2.5	2.5	75.0	79.0	80.0	0.82	0.90	0.93	1.15	0.09492	53

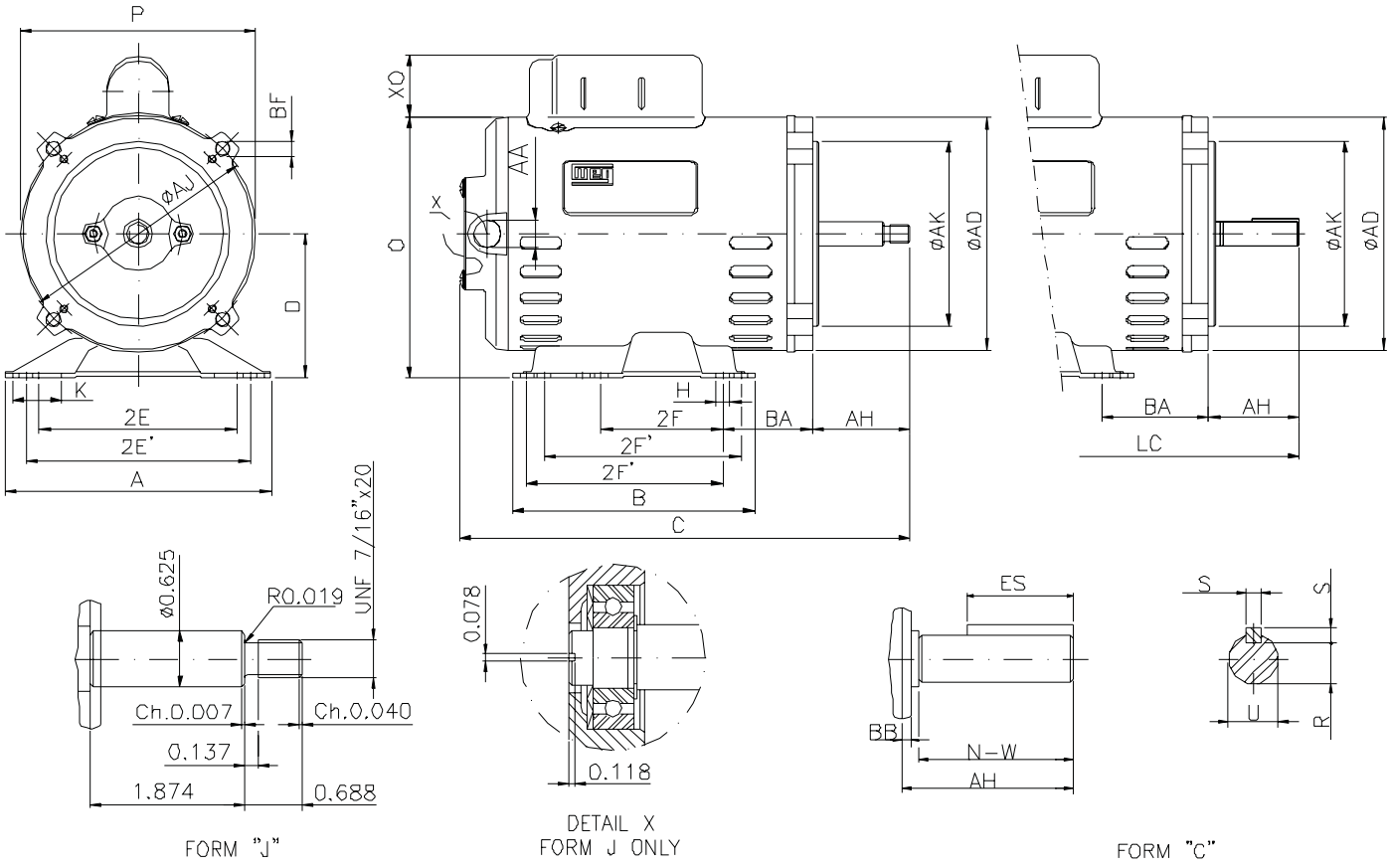
Three Phase - ODP Threaded or Keyed Shaft

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
HP	kW			230V	460V	575v					50	75	100	50	75	100			
0.33	0.25	3500	A56	1.40	0.70	0.56	L	0.49	2.6	3.1	47.0	56.2	62.0	0.54	0.64	0.72	1.75	0.01661	23
0.5	0.37	3475	A56	1.91	0.96	0.77	K	0.75	2.5	3.0	55.0	62.5	66.0	0.57	0.68	0.77	1.60	0.01946	25
0.75	0.55	3455	B56	2.40	1.20	0.96	J	1.12	2.4	2.5	64.0	69.5	72.0	0.61	0.73	0.81	1.50	0.22069	27
1	0.75	3465	B56	3.10	1.55	1.24	K	1.50	2.6	2.7	66.5	72.0	74.0	0.62	0.73	0.81	1.40	0.02776	29
1.5	1.1	3400	D56	4.26	2.13	1.70	H	2.29	2.2	2.3	72.0	76.0	75.5	0.69	0.81	0.87	1.30	0.03037	32
2	1.5	3450	D56	5.36	2.68	2.14	K	3.00	3.6	3.4	77.0	80.0	80.0	0.68	0.78	0.86	1.20	0.04153	39
3	2.2	3370	F56H	7.74	3.87	3.10	H	4.61	3.1	2.3	81.0	82.0	81.5	0.78	0.86	0.90	1.15	0.04983	50

Three Phase - TEFC Threaded or Keyed Shaft

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Approx. Weight (lb)
HP	kW			230V	460V	575v					50	75	100	50	75	100			
0.33	0.25	3465	B56	1.20	0.60	0.48	N	0.49	5.0	4.0	52.5	61.0	66.0	0.61	0.71	0.78	1.15	0.02373	21
0.5	0.37	3450	B56	1.65	0.83	0.66	M	0.75	4.8	4.0	58.0	66.0	72.0	0.63	0.73	0.80	1.15	0.02776	23
0.75	0.55	3440	B56	2.20	1.10	0.88	L	1.13	4.0	3.5	66.5	72.5	77.0	0.67	0.78	0.83	1.15	0.03156	26
1	0.75	3450	B56	2.80	1.40	1.12	L	1.50	4.2	3.5	70.0	76.0	80.0	0.69	0.79	0.85	1.15	0.03963	29
1.5	1.1	3440	B56	3.92	1.96	1.57	K	2.26	4.5	3.5	76.0	80.0	82.5	0.72	0.82	0.88	1.15	0.05149	33
2	1.5	3440	D56	5.16	2.58	2.06	L	3.01	4.8	3.4	77.6	81.5	82.5	0.71	0.82	0.88	1.15	0.05933	38
3	2.2	3430	F56H	7.60	3.80	3.04	L	4.53	5.1	3.2	80.5	83.0	84.0	0.70	0.81	0.88	1.15	0.07119	42

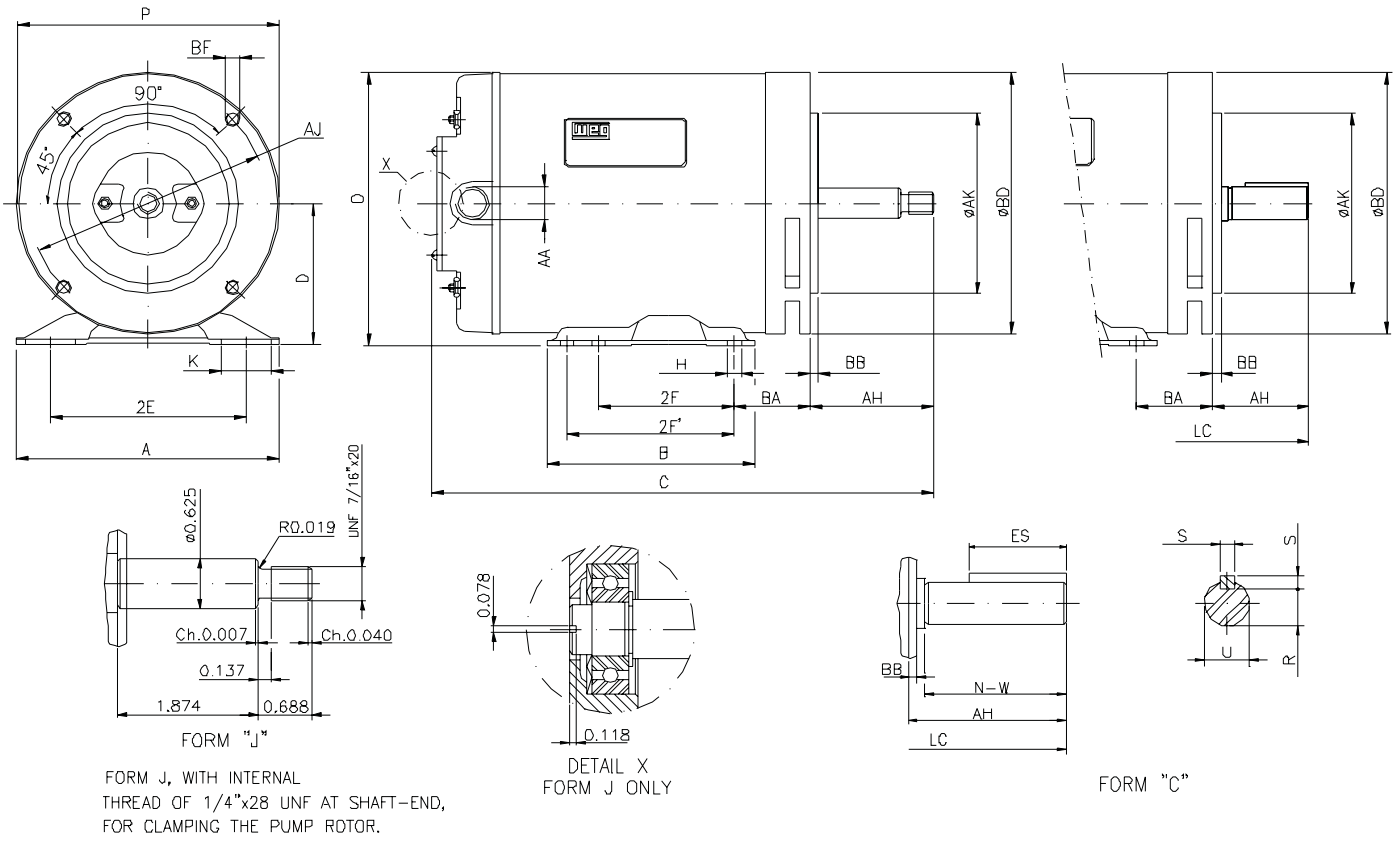
Jet Pump Motors - NEMA 56 Frames - ODP - Single Phase
Mechanical Data



NEMA Frames	HP	Mounting							A	B	C	LC	D	O	P	XO	Keyway			Shaft Extension		AA	Bearings	
		2E	2E'	2F	2F'	H	K	BA									S	R	ES	N–W	U		D.E.	O.D.E.
W56	0.33	4.875		3.000		0.343	1.220	2.559	6.535	4.015	10.236	10.732	3.500	6.378	5.669	1.516	0.187	0.517	1.417	1.874	0.6250	NPT 0.5"	6203-2RS	6202-2RS
	0.5										10.630	11.126												
	0.75										11.417	11.913												
E56	1		5.500		5.000						11.535	12.031		6.772	6.535	1.300								6203-2RS
	1 0.5										12.323	12.819												
F56H	2									6.496	12.716	13.212												
E56H	3										13.504	14.000												

"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		AH	
				NUMBER	TAP SIZE	Form C	Form J
FC–95	3.748	3.000	5.748	4	UNC 0.25'x20	2.063	2.563
FC–149	5.874	4.500	6.496		UNC 3/8'x16		

Jet Pump Motors - NEMA 56 Frames - ODP - Three Phase
Mechanical Data

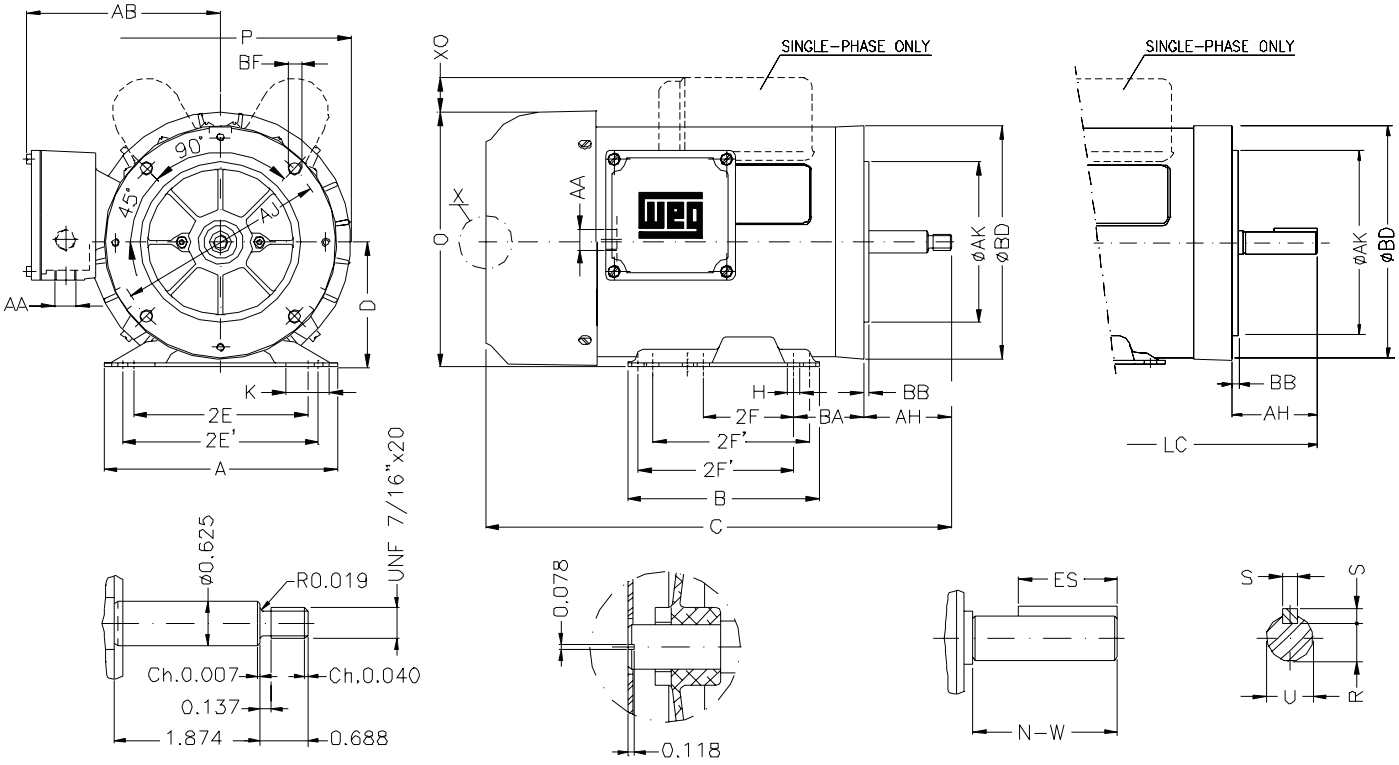


FORM J, WITH INTERNAL THREAD OF 1/4"x28 UNF AT SHAFT–END, FOR CLAMPING THE PUMP ROTOR.

NEMA Frames	Mounting							A	B	C	LC	D	O	P	Keyway			Shaft Extension		AA	Bearings	
	2E	2E'	2F	2F'	H	K	BA								S	R	ES	N–W	U		D.E.	O.D.E.
A56	4.875		3.000		0.343	1.220	2.559	6.535	4.015	11.024	10.551	3.500	6.772	6.535	0.187	0.517	1.417	1.874	0.6250	NPT 0.5"	6203-2RS	6202-2RS
B56										11.811	11.338											
D56										12.992	12.520										6204-2RS	
F56H		5.500		5.000					6.496	14.173	13.700											6203-2RS

"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		AH	
				NUMBER	TAP SIZE	Form C	Form J
FC–95	3.748	3.000	5.748	4	UNC 0.25'x20	2.063	2.563
FC–149	5.874	4.500	6.496		UNC 3/8'x16		

Jet Pump Motors - NEMA 56 Frames - TEFC
Mechanical Data



THREE PHASE FORM J, WITH INTERNAL THREAD OF 1/4"x28 UNF AT SHAFT–END, FOR CLAMPING THE PUMP ROTOR.

DETAIL X
FORM "J" ONLY

FORM "C"

NEMA Frames	Mounting							A	B	C	LC	D	O	P	Keyway			Shaft Extension		AA	Bearings	
	2E	2E'	2F	2F'	H	K	BA								S	R	ES	N–W	U		D.E.	O.D.E.
A56	4.875	X	3.000	X	0.343	1.220	2.559	6.535	4.015	11.614	11.102	3.500	6.772	6.535	0.187	0.517	1.417	1.874	0.6250	NPT 0.5"	6203-2RS	6202-2RS
B56										12.795	12.283											
D56										13.976	13.464										6204-2RS	
F56H		5.500		5.000					6.498	14.370	13.858											6203-2RS

"C" FLANGE DIMENSIONS							
NEMA FRAMES	AJ	AK	BD	BF		AH	
				NUMBER	TAP SIZE	Form C	Form J
FC–149	5.874	4.500	6.496	4	UNC 3/8'x16	2.063	2.563

Single Phase Close-Coupled Pump Motors - JM & JP - TEFC
Purchasing Data

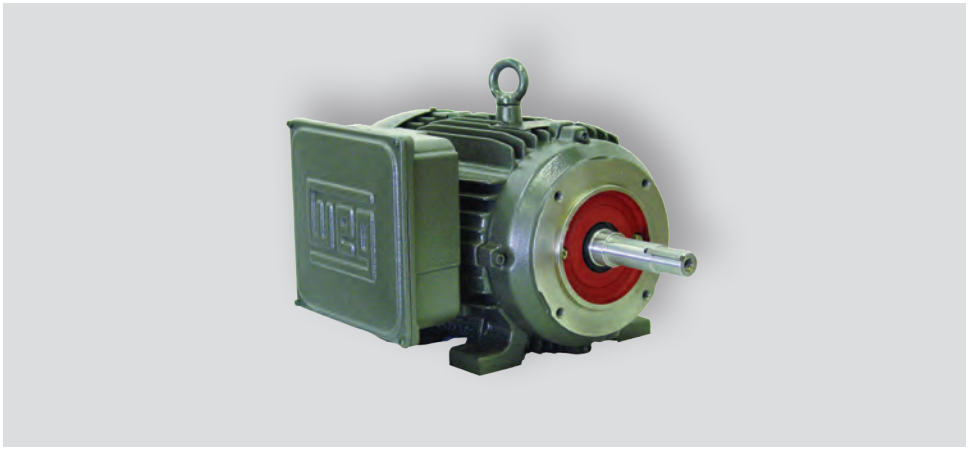
Standard Features

- Single phase, 2 and 4 pole, 60Hz
- Voltage: 115/208 or 230/460V
- Cast Iron Frame
- Squirrel cage rotor / Aluminum die cast
- Totally enclosed fan cooled (IP55)
- Ball bearings - ZZ
- Dimensions according to NEMA standard
- Class 'F' insulation
- Service Factor: 1.15
- Continuous Duty (S1)
- 40°C ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- F1 mount
- Stainless steel nameplate
- Paint: enamel alkyd resin base
- Color: RAL 7022 (Dark Grey)
- WEG paint plan: 201A
- NPT threaded terminal box conduit hole
- Automatic drain plugs

Optional Features

- Special voltages
- Specially designed shaft
- Second shaft end
- Thermistors or thermostats
- Drip cover (canopy) for shaft down applications
- Stainless steel shaft

APPROVED BY APPROVED BY
LR 38324



Single Phase Close-Coupled Pump Motors - JM & JP - TEFC
Purchasing Data

Single Phase

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current			Shipping Weight (lbs.)	"C" Dimension (in.)
HP	RPM				115V	230V	460V		
1	3600	143JM	$ 541	JM000102	12.6	6.30	3.15	46	15.458
	1800	143JM	545	JM000104	21.2	10.6	5.30	54	15.458
1.5	3600	143JM	618	JM001102	15.6	7.80	3.90	51	15.458
	1800	145JM	630	JM001104	28.8	14.4	7.20	73	16.458
2	3600	145JM	652	JM002102	19.6	9.80	4.90	55	16.458
	1800	145JM	648	JM002104	18.4	9.20	4.60	60	16.458
3	3600	145JM	707	JM003102	27.2	13.6	6.80	90	16.458
	1800	W184JM	869	JM003104W	27.2	13.6	6.80	97	18.937
5	3600	184JM	1,028	JM005102	•	21.0	10.5	104	17.368
	1800	213JM	1,058	JM005104	•	21.4	10.7	112	18.904
7.5	3600	213JM	1,557	JM007102	•	29.8	14.9	143	18.904
	3600	184JM	1,396	JM007102184	•	31.0	15.5	112	17.368
	1800	215JM	1,499	JM007104	•	34.0	17.0	157	20.400
10	3600	215JM	1,628	JM010102	•	38.8	19.4	155	20.400
	1800	215JM	1,591	JM010104	•	39.0	19.5	181	20.400

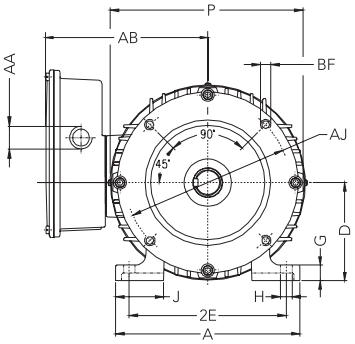
Flange: Replace 'JM' with 'JP' for JP type.

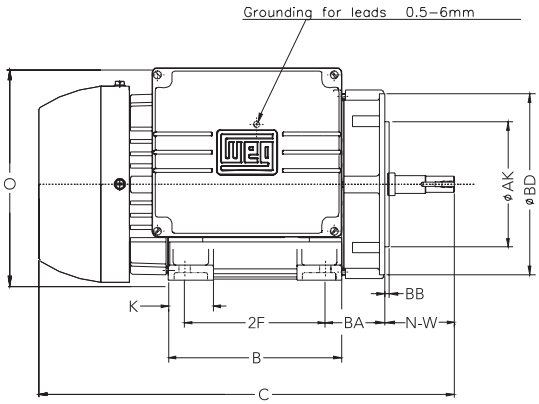
Single Phase Close-Coupled Pump Motors - JM & JP - TEFC
Electrical Data

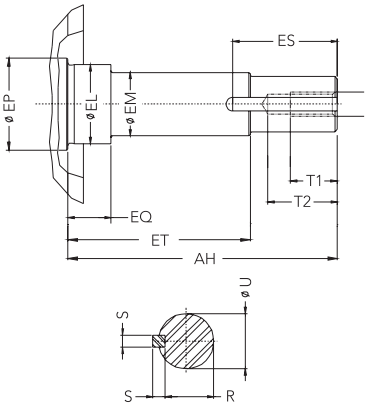
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)	Locked Rotor Current (kVA Code)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Approx. Weight (lb)*
									% of full load								
HP	kW			230V					50	75	100	50	75	100			
1	0.75	3510	143JM	3.15	L	1.48	2.4	2.4	57.0	63.0	67.0	0.62	0.71	0.77	1.15	0.03560	46
		1760	143JM	5.30	M	2.94	2.5	3.2	62.0	71.0	75.0	0.65	0.75	0.82	1.15	0.11675	54
1.5	1.1	3530	143JM	3.90	K	2.20	2.2	2.7	65.0	72.0	73.0	0.66	0.76	0.81	1.15	0.04699	51
		1760	145JM	7.20	L	4.42	2.5	3.0	66.0	72.0	77.0	0.78	0.85	0.89	1.15	0.15970	73
2	1.5	3520	145JM	4.90	L	2.94	2.2	2.3	71.0	76.0	79.0	0.71	0.81	0.86	1.15	0.05529	55
		1750	145JM	9.20	J	5.92	2.2	2.4	69.0	76.0	78.0	0.80	0.87	0.91	1.15	0.15543	60
3	2.2	3520	182JM	6.80	K	4.42	2.4	2.8	72.0	78.0	80.0	0.83	0.90	0.92	1.15	0.15638	90
		1750	184JM	6.80	J	8.88	2.8	2.5	67.0	74.0	77.0	0.84	0.90	0.93	1.15	0.31086	97
5	3.7	3500	184JM	10.5	J	7.40	2.8	2.6	80.0	82.5	83.0	0.81	0.89	0.92	1.15	0.19055	104
		1730	184JM	10.7	J	15.0	2.8	2.4	72.0	78.0	79.0	0.86	0.92	0.95	1.15	0.43426	112
7.5	5.5	3490	W213/5JM	15.5	J	11.1	2.8	2.5	80.0	83.5	84.0	0.87	0.92	0.95	1.15	0.22520	126
		3515	213JM	14.9	H	11.1	1.8	2.7	83.0	85.0	86.0	0.88	0.93	0.94	1.15	0.48623	143
		3490	184JM	15.5	J	11.1	2.8	2.5	80.0	83.5	84.0	0.87	0.92	0.95	1.15	0.22520	112
		1730	215JM	17.0	J	22.5	3.2	2.4	78.0	82.0	83.0	0.71	0.81	0.86	1.15	0.88038	157
10	7.5	3510	215JM	19.4	G	14.8	2.2	2.7	83.0	85.0	86.0	0.91	0.94	0.95	1.15	0.52847	155
		1730	215JM	19.5	G	29.9	2.8	2.1	80.0	83.5	84.0	0.94	0.96	0.97	1.15	1.15330	181

* Weight refers to JM Type motors. Please call for JP shipping weight.

Single Phase Close-Coupled Pump Motors - JM & JP - TEFC
Mechanical Data







NEMA FRAMES	MOUNTING					A	B	D	G	J	K	O	P	AB	AA	BEARINGS		NEMA "C" FLANGE						
	2E	2F	2F'	H	BA											D.E.	O.D.E.	AJ	AK	BB	BD	BF Qty.	BF Tap Size	BF Bolt Depth
143JM	5.500	4.000	X	0.344	2.560	6.457	5.157	3.500	0.547	1.496	1.654	7.000	7.047	6.968	NPT 0.75"	6206-ZZ	6203-ZZ	5.874	4.500	0.157	6.496	4	UNC 3/8"x16	0.551
145JM		5.000					6.142																	
182JM	7.500	4.500	5.500	0.406	2.756	8.661	6.969	4.500	0.720	1.890	2.441	8.909	7.795	7.362	NPT 1"	6307-ZZ	6206-ZZ							
184JM		5.500	X								1.969	9.343	8.740	7.835										
213JM	8.500				3.500	9.764	7.362	5.250	0.827	2.008	2.165	10.841	10.630	8.071		6309-ZZ		7.252	8.500	0.248	8.858		UNC 0.5"x13	0.748
215JM	8.500	7.000					8.858																	

NEMA FRAMES	SHAFT END – TYPE JM													C
	LENGTHS			DIAMETERS				KEYWAY			THREADED HOLE			
	AH	EQ	ET	U	EM	EL	EP	S	R	ES	d1 (UNC)	T1	T2	JM
143 JM	4.258	0.630	2.880	0.874	1.000	1.156	1.179	0.187	0.768	1.575	3/8"x16-2B	0.748	1.102	15.866
145 JM														16.458
W182/4 JM						1.250	1.376							18.937
184 JM														17.368
213 JM							1.770							18.904
215 JM														20.400

JP Type Data on request

Three Phase Close-Coupled Pump Motors - JM & JP - TEFC
Purchasing Data

Standard Features

- Three phase, 2, 4 & 6 pole, 60Hz
- Voltage: 230/460, 460V or 575 V
- Totally Enclosed Fan Cooled - TEFC (IP55)
- Squirrel cage rotor / Aluminum die cast
- Cast iron frames
- Class 'F' insulation
- 104ºF (40ºC) ambient temperature
- Temperature rise: Class 'B' (80ºC)
- Altitude: 3300 ft (1000m)
- Continuous Duty (S1)
- 1045 carbon steel shaft
- Automatic drain plugs
- Service Factor: 1.15 - Standard Efficiency
  1.25 - High Efficiency
  1.25 - NEMA Premium
- Stainless steel nameplate
- V-ring slingers on both endshields
- NPT threaded terminal box conduit hole
- Ball bearings
- Regreasable bearings system (frames 254JM/JP frames and up)
- F1 mount
- Paint: Enamel alkyd resin base
- Color: RAL 7022 (Dark Gray) - Standard Efficiency
  RAL 5009 (Blue) - High Efficiency
  RAL 5009 (Blue) - NEMA Premium
- WEG paint plan: 201A

Optional Features

- Auxiliary terminal box
- Cable glands
- Second shaft end
- Space heaters
- Special voltages
- Stainless steel shaft
- Thermistors, Thermostats or RTD's (PT100)
- Shaft down for vertical applications
- Washdown duty (see page 61)

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- 12:1 CT
- 1000:1 VT

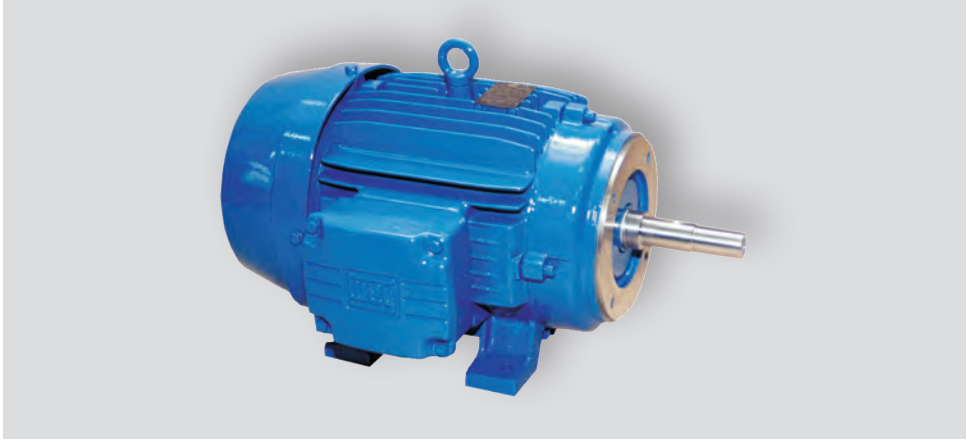
APPROVED BY

APPROVED BY

LR 38324

CSA EEV 78282 E High Efficiency and NEMA Premium Efficiency Motors only

NEMA Premium™



Three Phase Close-Coupled Pump Motors - JM & JP - TEFC
Purchasing Data

Standard Efficiency - JM & JP Type - TEFC

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	"C" Dimension (in.) JM Type	"C" Dimension (in.) JP Type
HP	RPM					460V	575V				
1	1800	143 JM or JP	$ 359	$ 373	JM000X04	1.51	1.21	78.0	38	14.304	17.365
	1200	145 JM or JP	509	523	JM000X06	1.81	1.45	74.5	44	15.304	18.365
1.5	3600	143 JM or JP	379	394	JM001X02	2.02	1.62	78.5	38	14.304	17.365
	1800	145 JM or JP	379	394	JM001X04	2.19	1.75	79.0	38	15.304	18.365
	1200	182 JM or JP	597	617	JM001X06	2.69	2.15	78.0	60	15.996	19.057
2	3600	145 JM or JP	386	401	JM002X02	2.70	2.16	81.0	38	15.304	18.365
	1800	145 JM or JP	381	396	JM002X04	2.93	2.34	82.5	49	15.304	18.365
	1200	184 JM or JP	687	707	JM002X06	3.53	2.82	78.5	79	17.020	20.395
3	3600	145 JM or JP	438	455	JM003X02	4.03	3.23	81.5	43	15.304	18.365
	1800	182 JM or JP	495	515	JM003X04W	4.13	3.30	81.5	64	15.996	19.057
	1200	215 JM or JP	861	904	JM003X06	4.97	3.98	81.8	106	20.174	24.046
5	3600	182 JM or JP	607	631	JM005X02W	6.17	4.94	84.5	88	15.996	19.057
	1800	184 JM or JP	611	637	JM005X04W	6.50	5.20	85.0	97	17.020	20.395
	1200	215 JM or JP	1,171	1,228	JM005X06	7.34	5.87	84.0	133	20.174	24.046
7.5	3600	184 JM or JP	651	677	JM007X02	9.13	7.31	86.7	90	17.020	20.395
	1800	213 JM or JP	790	821	JM007X04	9.66	7.73	87.0	139	18.678	22.550
	1200	254 JM or JP	1,743	1,800	JM007X06	9.60	7.68	86.5	212	24.370	26.964
10	3600	213 JM or JP	881	917	JM010X02	12.2	9.76	87.6	141	18.678	22.550
	1800	215 JM or JP	903	938	JM010X04	12.7	10.2	89.0	137	20.174	24.046
	1200	256 JM or JP	2,045	2,119	JM010X06	12.8	10.2	87.6	243	26.102	28.736
15	3600	215 JM or JP	1,053	1,096	JM015X02	17.6	14.1	87.8	159	20.174	24.046
	1800	254 JM or JP	1,287	1,338	JM015X04	18.8	15.0	88.5	207	24.370	26.964
20	3600	254 JM or JP	1,440	1,497	JM020X02	24.1	19.2	89.0	229	24.370	26.964
	1800	256 JM or JP	1,465	1,523	JM020X04	25.2	20.1	90.2	243	26.102	28.736
25	3600	256 JM or JP	1,604	1,669	JM025X02	29.5	23.6	89.5	245	26.102	28.736
	1800	284 JM or JP	1,792	1,863	JM025X04	30.2	24.1	90.5	331	27.165	30.079
30	3600	284 JM or JP	1,856	1,930	JM030X02	35.1	28.0	89.5	355	27.165	30.079
	1800	286 JM or JP	1,818	1,899	JM030X04	36.1	28.9	91.0	353	28.700	31.575
40	3600	286 JM or JP	2,658	2,777	JM040X02	48.6	38.8	90.2	364	28.700	31.575
	1800	324 JM or JP	3,772	3,933	JM040X04	48.3	38.6	91.7	461	28.149	32.525
50	3600	324 JM or JP	3,793	3,966	JM050X02	57.4	45.9	92.2	529	28.149	32.525
	1800	326 JM or JP	4,279	4,471	JM050X04	58.3	46.7	92.4	512	29.645	34.021
60	3600	326 JM or JP	4,281	4,475	JM060X02	70.8	56.6	93.0	595	29.645	34.021
	1800	364/5 JM or JP	6,609	6,746	JM060X04	69.8	55.9	93.0	915	33.031	35.916
75	3600	364/5 JM or JP	P.O.A.	P.O.A.	JM075X02	82.7	66.2	92.8	948	33.031	35.916
	1800	364/5 JM or JP	P.O.A.	P.O.A.	JM075X04	84.2	67.3	93.0	915	33.031	35.916
100	3600	404/5 JP	N/A	P.O.A.	JP100X02	111.0	88.8	93.5	1,025	N/A	38.911
	1800	404/5 JP	N/A	P.O.A.	JP100X04	116.0	92.8	93.5	1,147	N/A	38.911

Shaft: Replace 'JM' with 'JP' for JP type.
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase Close-Coupled Pump Motors - JM & JP - TEFC
Purchasing Data

High Efficiency - JM & JP Type - TEFC

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	"C" Dimension (in.) JM Type	"C" Dimension (in.) JP Type
HP	RPM					460V	575V				
1	1800	143 JM or JP	$ 469	$ 478	JM000X04P	1.49	1.19	82.5	44	14.304	17.365
	1200	145 JM or JP	554	563	JM000X06P	1.70	1.36	80.0	44	15.304	18.365
1.5	3600	143 JM or JP	507	516	JM001X02P	1.99	1.59	82.5	42	14.304	17.365
	1800	145 JM or JP	507	516	JM001X04P	2.05	1.64	84.0	51	15.304	18.365
	1200	182 JM or JP	643	655	JM001X06P	2.38	1.90	85.5	68	15.996	19.057
2	3600	145 JM or JP	530	540	JM002X02P	2.60	2.08	84.0	44	15.304	18.365
	1800	145 JM or JP	518	529	JM002X04P	2.70	2.16	84.0	53	15.304	18.365
	1200	184 JM or JP	745	757	JM002X06P	3.20	2.56	86.5	79	17.020	20.395
3	3600	145 JM or JP	591	603	JM003X02P	3.71	2.97	85.5	51	15.304	18.365
	1800	182 JM or JP	629	641	JM003X04PW	3.90	3.12	87.5	88	15.996	19.057
	1200	215 JM or JP	907	932	JM003X06P	4.26	3.41	87.5	110	20.174	24.046
5	3600	182 JM or JP	748	762	JM005X02PW	5.90	4.72	87.5	105	15.996	19.057
	1800	184 JM or JP	751	765	JM005X04PW	6.48	5.18	87.5	93	17.020	20.395
	1200	215 JM or JP	1,253	1,278	JM005X06P	6.80	5.44	87.5	162	20.174	24.046
7.5	3600	184 JM or JP	896	912	JM007X02P	8.76	7.01	88.5	119	17.020	20.395
	1800	213 JM or JP	1,009	1,028	JM007X04P	9.53	7.62	89.5	137	18.678	22.550
	1200	254 JM or JP	1,828	1,851	JM007X06P	9.53	7.62	89.5	236	24.370	26.964
10	3600	213 JM or JP	1,182	1,205	JM010X02P	11.7	9.36	89.5	137	18.678	22.550
	1800	215 JM or JP	1,274	1,299	JM010X04P	12.8	10.2	90.2	152	20.174	24.046
	1200	256 JM or JP	2,128	2,185	JM010X06P	13.6	10.9	89.5	278	26.102	28.736
15	3600	215 JM or JP	1,436	1,464	JM015X02P	17.3	13.8	90.2	161	20.174	24.046
	1800	254 JM or JP	1,771	1,806	JM015X04P	17.9	14.3	91.0	240	24.370	26.964
20	3600	254 JM or JP	1,931	1,969	JM020X02P	23.3	18.6	90.2	278	24.370	26.964
	1800	256 JM or JP	1,939	1,972	JM020X04P	24.4	19.5	91.0	287	26.102	28.736
25	3600	256 JM or JP	2,351	2,397	JM025X02P	28.4	22.7	91.0	287	26.102	28.736
	1800	284 JM or JP	2,723	2,777	JM025X04P	29.6	23.7	92.4	397	27.165	30.079
30	3600	284 JM or JP	2,810	2,867	JM030X02P	33.8	27.0	91.0	359	27.165	30.079
	1800	286 JM or JP	2,900	2,957	JM030X04P	34.4	27.5	92.4	441	28.700	31.575
40	3600	286 JM or JP	3,777	3,852	JM040X02P	46.6	37.3	91.7	408	28.700	31.575
	1800	324 JM or JP	3,807	3,882	JM040X04P	47.6	38.1	93.0	542	28.149	32.525
50	3600	324 JM or JP	4,647	4,738	JM050X02P	56.5	45.2	92.4	520	28.149	32.525
	1800	326 JM or JP	4,815	4,912	JM050X04P	57.8	46.2	93.6	595	29.645	34.021
60	3600	326 JM or JP	5,501	5,609	JM060X02P	69.0	55.2	93.0	549	29.645	34.021
	1800	364/5 JM or JP	P.O.A.	P.O.A.	JM060X04P	67.0	53.6	93.6	853	33.031	35.916
75	3600	364/5 JM or JP	P.O.A.	P.O.A.	JM075X02P	82.5	66.0	93.0	915	33.031	35.916
	1800	364/5 JM or JP	P.O.A.	P.O.A.	JM075X04P	82.4	65.9	94.1	900	33.031	35.916
100	3600	404/5 JP	N/A	P.O.A.	JP100X02P	113	90.4	93.6	1,206	N/A	38.911
	1800	404/5 JP	N/A	P.O.A.	JP100X04P	115	92.0	93.4	1,118	N/A	38.911

Shaft: Replace 'JM' with 'JP' for JP type.
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase Close-Coupled Pump Motors - JM & JP - TEFC
Purchasing Data

NEMA Premium Efficiency - JM & JP Type - TEFC

Rated Output		NEMA Frame	List Price JM Type	List Price JP Type	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	"C" Dimension (in.) JM Type	"C" Dimension (in.) JP Type
HP	RPM					460V	575V				
1	1800	143 JM or JP	563	574	JM000X04NP	1.43	1.14	85.5	51	14.304	17.365
	1200	145 JM or JP	693	706	JM000X06NP	1.73	1.38	82.5	53	15.304	18.365
1.5	3600	145 JM or JP	608	620	JM001X02NP	1.98	1.58	84.0	42	14.304	17.365
	1800	145 JM or JP	608	620	JM001X04NP	2.00	1.60	86.5	53	15.304	18.365
	1200	182 JM or JP	804	820	JM001X06NP	2.39	1.91	87.5	70	15.996	19.057
2	3600	145 JM or JP	635	648	JM002X02NP	2.65	2.12	85.5	49	15.304	18.365
	1800	145 JM or JP	621	633	JM002X04NP	2.63	2.10	86.5	55	15.304	18.365
	1200	184 JM or JP	931	950	JM002X06NP	3.23	2.58	88.5	88	17.020	20.395
3	3600	182 JM or JP	799	815	JM003X02NP	3.68	2.94	87.5	90	15.304	18.365
	1800	182 JM or JP	724	738	JM003X04NP	3.90	3.12	89.5	90	15.996	19.057
	1200	215 JM or JP	1,134	1,156	JM003X06NP	4.41	3.53	89.5	121	20.174	24.046
5	3600	184 JM or JP	861	878	JM005X02NP	5.83	4.66	89.5	105	15.996	19.057
	1800	184 JM or JP	864	881	JM005X04NP	6.40	5.12	89.5	99	17.020	20.395
	1200	215 JM or JP	1,566	1,598	JM005X06NP	6.83	5.46	89.5	162	20.174	24.046
7.5	3600	213 JM or JP	1,184	1,208	JM007X02NP	8.63	6.90	91.0	121	17.020	20.395
	1800	213 JM or JP	1,160	1,183	JM007X04NP	9.29	7.43	91.7	152	18.678	22.550
	1200	254 JM or JP	2,102	2,144	JM007X06NP	9.73	7.78	91.0	256	24.370	26.964
10	3600	215 JM or JP	1,358	1,385	JM010X02NP	11.5	9.23	91.7	160	18.678	22.550
	1800	215 JM or JP	1,465	1,494	JM010X04NP	12.6	10.1	91.7	159	20.174	24.046
	1200	256 JM or JP	2,447	2,496	JM010X06NP	13.3	10.6	91.0	290	26.102	28.736
15	3600	254 JM or JP	2,113	2,155	JM015X02NP	16.9	13.5	91.7	254	20.174	24.046
	1800	254 JM or JP	2,037	2,078	JM015X04NP	18.0	14.4	92.4	265	24.370	26.964
20	3600	256 JM or JP	2,352	2,399	JM020X02NP	22.9	18.3	92.4	287	24.370	26.964
	1800	256 JM or JP	2,231	2,276	JM020X04NP	24.4	19.5	93.0	298	26.102	28.736
25	3600	284 JM or JP	3,039	3,100	JM025X02NP	28.4	22.7	93.0	313	26.102	28.736
	1800	284 JM or JP	3,131	3,194	JM025X04NP	29.5	23.6	93.6	441	27.165	30.079
30	3600	286 JM or JP	3,248	3,313	JM030X02NP	33.4	26.7	93.0	388	27.165	30.079
	1800	286 JM or JP	3,334	3,401	JM030X04NP	35.1	28.1	93.6	485	28.700	31.575
40	3600	324 JM or JP	4,390	4,478	JM040X02NP	45.8	36.6	93.6	516	28.700	31.575
	1800	324 JM or JP	4,377	4,465	JM040X04NP	48.3	38.6	94.1	595	28.149	32.525
50	3600	326 JM or JP	4,954	5,053	JM050X02NP	55.5	44.4	94.1	562	28.149	32.525
	1800	326 JM or JP	5,537	5,648	JM050X04NP	60.6	48.5	94.5	617	29.645	34.021
60	3600	364 JM or JP	6,917	7,055	JM060X02NP	68.3	54.6	94.1	882	29.645	34.021
	1800	364 JM or JP	6,373	6,500	JM060X04NP	68.4	54.7	95.0	926	33.031	35.916
75	3600	364 JM or JP	7,890	8,048	JM075X02NP	80.8	64.6	95.0	915	33.031	35.916
	1800	365 JM or JP	7,216	7,360	JM075X04NP	82.3	65.8	95.4	937	33.031	35.916
100	3600	404 JM or JP	9,769	9,964	JP100X02NP	110	88.1	95.0	1,206	N/A	38.911
	1800	405 JM or JP	9,298	9,484	JP100X04NP	112	89.7	95.4	1,147	N/A	38.911

Shaft: Replace 'JM' with 'JP' for JP type.
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase Close-Coupled Pump Motors - JM Type - TEFC
Electrical Data

Standard Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1725	143JM	3.01	1.51	1.21	J	6.0	3.00	2.8	3.0	71.0	76.0	78.0	0.60	0.73	0.80	1.15	0.09302	6	13	38	51
1.5	1.1	3440	143JM	4.04	2.02	1.62	J	7.0	2.26	2.5	3.0	72.5	76.5	78.5	0.75	0.83	0.87	1.15	0.03726	7	15	38	68
		1710	145JM	4.37	2.19	1.75	J	6.6	4.54	2.6	2.8	74.0	77.5	79.0	0.60	0.73	0.80	1.15	0.09302	6	13	38	51
2	1.5	3450	145JM	5.41	2.70	2.16	K	7.5	3.00	2.7	3.2	75.5	79.0	81.0	0.73	0.82	0.86	1.15	0.03726	11	24	38	68
		1740	145JM	5.85	2.93	2.34	J	6.4	5.96	2.5	3.0	77.0	81.0	82.5	0.60	0.72	0.78	1.15	0.13289	7	15	49	51
3	2.2	3465	145JM	8.06	4.03	3.23	K	7.8	4.49	3.0	3.0	78.5	80.0	81.5	0.66	0.77	0.84	1.15	0.04865	5	11	43	68
		1750	182JM	8.26	4.13	3.30	K	7.8	8.88	2.2	3.0	75.5	78.5	81.5	0.60	0.72	0.82	1.15	0.28595	7	15	64	58
5	3.7	3470	182JM	12.3	6.17	4.94	J	7.3	7.47	2.2	2.7	82.0	84.0	84.5	0.80	0.87	0.89	1.15	0.17252	9	20	88	69
		1735	184JM	13.0	6.50	5.20	J	7.4	14.9	2.4	3.0	82.0	84.0	85.0	0.68	0.80	0.84	1.15	0.38134	10	22	97	58
7.5	5.5	3500	184JM	18.3	9.13	7.31	J	8.0	11.1	2.6	3.4	84.0	86.2	86.7	0.72	0.80	0.87	1.15	0.19981	8	18	90	69
		1760	213JM	19.3	9.66	7.73	J	7.7	22.1	2.1	3.0	83.0	86.0	87.0	0.61	0.73	0.82	1.15	0.82794	6	13	139	61
10	7.5	3510	213JM	24.4	12.2	9.76	J	7.8	14.8	2.2	2.8	84.0	86.5	87.6	0.77	0.85	0.88	1.15	0.53226	12	26	141	72
		1760	215JM	25.4	12.7	10.2	K	8.0	29.4	2.2	3.0	86.0	88.0	89.0	0.66	0.77	0.83	1.15	1.10392	5	11	137	61
15	11	3520	215JM	35.3	17.6	14.1	J	8.5	22.1	2.6	3.3	85.0	87.5	87.8	0.77	0.85	0.89	1.15	0.66539	5	11	159	72
		1755	254JM	37.6	18.8	15.0	G	6.0	44.3	2.0	2.3	85.0	86.9	88.5	0.69	0.79	0.83	1.15	1.54815	18	40	207	69
20	15	3540	254JM	48.1	24.1	19.2	J	7.8	29.3	2.3	3.0	86.4	88.6	89.0	0.75	0.84	0.88	1.15	1.11673	12	26	229	75
		1760	256JM	50.3	25.2	20.1	H	6.3	58.9	2.3	2.2	88.0	89.3	90.2	0.69	0.79	0.83	1.15	2.26266	13	29	243	69
25	18.5	3525	256JM	58.9	29.5	23.6	J	8.0	36.7	2.4	2.8	88.0	89.5	89.5	0.78	0.85	0.88	1.15	1.25650	12	26	245	75
		1765	284JM	60.4	30.2	24.1	H	7.0	73.4	2.5	2.6	88.5	90.0	90.5	0.71	0.81	0.85	1.15	3.83121	13	29	331	68
30	22	3540	284JM	70.1	35.1	28.0	H	7.5	43.9	2.6	3.2	87.0	88.5	89.5	0.79	0.85	0.88	1.15	2.28947	11	24	355	75
		1765	286JM	72.2	36.1	28.9	J	7.5	88.1	2.8	2.8	89.3	90.0	91.0	0.70	0.80	0.84	1.15	3.83121	12	26	353	68
40	30	3530	286JM	97.1	48.6	38.8	K	8.6	58.7	2.6	3.0	88.5	90.2	90.2	0.76	0.84	0.86	1.15	3.40858	7	15	364	75
		1770	324JM	96.6	48.3	38.6	H	6.6	117	2.3	2.5	89.5	90.5	91.7	0.72	0.82	0.85	1.15	6.54450	19	42	461	71
50	37	3555	324JM	115	57.4	45.9	H	7.5	72.9	3.0	2.9	90.0	91.5	92.2	0.81	0.86	0.88	1.15	4.89550	23	51	529	81
		1770	326JM	117	58.3	46.7	G	6.6	146	2.3	2.3	90.2	91.5	92.4	0.75	0.83	0.86	1.15	7.85344	16	35	512	71
60	45	3565	326JM	142	70.8	56.6	H	7.5	87.2	2.8	2.8	91.7	92.5	93.0	0.73	0.82	0.86	1.15	5.32122	19	42	595	81
		1775	364JM	140	69.8	55.9	H	7.2	175	2.3	2.7	91.0	92.2	93.0	0.75	0.84	0.87	1.15	16.6079	20	44	915	75
75	55	3560	364JM	165	82.7	66.2	H	8.0	109	2.5	2.7	90.0	92.0	92.8	0.85	0.89	0.90	1.15	10.6420	16	35	948	85
		1775	365JM	168	84.2	67.3	H	7.4	219	2.2	2.7	90.3	92.0	93.0	0.76	0.84	0.88	1.15	19.0991	15	33	915	75
100	75	3560	404JM	221	110	88.4	J	8.2	146	3.0	3.3	91.0	92.5	93.5	0.85	0.90	0.91	1.15	11.9189	13	29	1025	85
		1780	405JM	231	116	92.6	K	8.8	291	3.2	3.2	92.0	93.0	93.5	0.74	0.83	0.87	1.15	27.4029	12	26	1147	75

Three Phase Close-Coupled Pump Motors - JM Type - TEFC
Electrical Data

High Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1765	143JM	2.98	1.49	1.19	M	8.6	2.94	2.9	4.0	77.0	80.0	82.5	0.55	0.69	0.77	1.25	0.09302	16	35	44	51
1.5	1.1	3500	143JM	4.13	2.06	1.65	M	9.2	2.22	3.0	4.0	75.5	81.5	82.5	0.64	0.74	0.81	1.25	0.04295	17	37	42	68
		1760	145JM	4.10	2.05	1.64	L	8.5	4.42	2.7	3.7	80.0	84.0	84.0	0.60	0.72	0.80	1.25	0.11960	13	29	51	51
2	1.5	3480	145JM	5.20	2.60	2.08	L	9.4	2.98	2.8	4.0	80.0	82.5	84.0	0.70	0.81	0.86	1.25	0.04888	12	26	44	68
		1750	145JM	5.40	2.70	2.16	K	7.7	5.92	2.4	3.0	81.5	84.0	84.0	0.63	0.74	0.83	1.25	0.13289	11	24	53	51
3	2.2	3450	145JM	7.43	3.71	2.97	K	8.6	4.51	2.3	2.4	81.0	84.5	85.5	0.70	0.83	0.87	1.15	0.05458	6	13	51	68
		3500	182JM	7.43	3.71	2.97	K	8.2	4.44	2.5	4.0	80.0	84.0	85.5	0.74	0.83	0.87	1.25	0.17252	23	51	97	69
		1765	182JM	7.80	3.90	3.12	K	7.9	8.81	2.3	3.2	85.5	87.5	87.5	0.65	0.75	0.81	1.25	0.31774	31	68	88	56
5	3.7	3480	184JM	11.8	5.90	4.72	J	7.7	7.44	2.3	3.3	84.0	86.5	87.5	0.80	0.86	0.90	1.25	0.19981	23	51	105	69
		1750	184JM	13.0	6.48	5.18	J	7.1	14.8	2.1	3.0	85.5	87.5	87.5	0.66	0.77	0.82	1.25	0.38134	21	46	93	56
7.5	5.5	3460	184JM	17.5	8.76	7.01	H	7.0	11.2	2.2	2.3	85.5	87.5	88.5	0.81	0.87	0.89	1.15	0.23611	15	33	119	69
		3515	213JM	17.3	8.66	6.93	H	7.1	11.1	2.2	3.5	85.5	87.5	88.5	0.80	0.87	0.90	1.25	0.48789	26	57	137	72
		1765	213JM	19.1	9.53	7.62	H	6.4	22.0	2.0	2.6	87.5	89.5	89.5	0.64	0.75	0.81	1.25	1.01185	21	46	137	58
10	7.5	3500	215JM	23.4	11.7	9.35	H	6.9	14.8	2.2	2.8	88.5	89.5	89.5	0.81	0.88	0.90	1.25	0.57664	20	44	137	72
		1760	215JM	25.5	12.8	10.2	H	6.5	29.4	2.0	2.6	88.5	90.2	90.2	0.67	0.78	0.82	1.25	1.37990	17	37	152	58
15	11	3500	215JM	34.5	17.3	13.8	F	6.1	22.2	2.0	2.2	89.0	90.2	90.2	0.80	0.87	0.89	1.15	0.66539	10	22	161	72
		1760	254JM	35.8	17.9	14.3	G	6.4	44.2	2.5	2.5	89.5	91.0	91.0	0.70	0.80	0.85	1.25	2.38178	27	59	240	69
20	15	3520	254JM	46.5	23.3	18.6	G	6.2	29.4	1.8	2.2	89.5	90.5	90.2	0.86	0.90	0.90	1.25	1.39627	21	46	278	75
		1755	256JM	48.8	24.4	19.5	G	5.9	59.0	2.4	2.4	89.5	91.0	91.0	0.72	0.81	0.85	1.25	2.85804	18	40	287	69
25	18.5	3530	256JM	56.8	28.4	22.7	G	6.2	36.7	2.0	2.2	90.2	91.0	91.0	0.83	0.88	0.90	1.15	1.53581	18	40	287	75
		1760	284JM	59.3	29.6	23.7	G	6.1	73.6	2.2	2.5	91.7	92.4	92.4	0.72	0.82	0.85	1.25	5.10836	51	112	397	68
30	22	3520	284JM	67.5	33.8	27.0	G	6.4	44.2	1.9	2.3	90.2	91.0	91.0	0.84	0.88	0.90	1.25	2.82838	19	42	359	75
		1755	286JM	68.8	34.4	27.5	G	6.3	88.6	2.4	2.6	92.4	93.0	92.4	0.75	0.83	0.87	1.25	5.32122	22	48	441	68
40	30	3530	286JM	93.3	46.6	37.3	G	6.5	58.7	2.0	2.8	91.0	91.7	91.7	0.80	0.86	0.88	1.25	2.82838	14	31	408	75
		1770	324JM	95.3	47.6	38.1	G	6.0	117	2.3	2.3	91.7	93.0	93.0	0.76	0.83	0.85	1.25	7.85344	28	62	542	71
50	37	3555	324JM	113	56.5	45.2	G	6.5	72.9	2.3	2.3	91.0	92.4	92.4	0.83	0.88	0.89	1.25	5.32122	33	73	549	81
		1770	326JM	116	57.8	46.2	G	6.1	146	2.3	2.3	92.4	93.6	93.6	0.77	0.83	0.86	1.25	9.16263	25	55	595	71
60	45	3530	326JM	138	69.0	55.2	G	6.2	88.1	2.0	2.4	91.0	92.4	93.0	0.83	0.87	0.88	1.15	5.32122	14	31	549	81
		1775	364JM	134	67.0	53.6	G	6.4	175	2.0	2.3	93.0	93.6	93.6	0.80	0.87	0.90	1.25	17.4382	23	51	853	75
75	55	3550	364JM	165	82.5	66.0	G	6.5	109	2.0	2.6	91.7	93.0	93.0	0.83	0.89	0.90	1.25	10.6420	46	101	915	85
		1775	365JM	165	82.4	65.9	G	6.5	219	2.2	2.4	93.6	94.1	94.1	0.82	0.87	0.89	1.25	19.9294	22	48	900	75
100	75	3550	404JM	226	113	90.4	G	6.4	146	2.0	2.4	91.7	93.6	93.6	0.84	0.88	0.89	1.25	11.9191	38	84	1206	85
		1775	405JM	229	115	91.6	G	6.3	292	2.1	2.2	93.6	94.5	94.5	0.80	0.86	0.87	1.25	27.4029	18	40	1118	75

Three Phase Close-Coupled Pump Motors - JM Type - TEFC
Electrical Data

NEMA Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1765	143JM	2.85	1.43	1.14	L	8.8	2.99	2.9	4.0	80.0	84.0	85.5	0.58	0.71	0.77	1.25	0.11960	20	44	51	51
1.5	1.1	3495	143JM	3.95	1.98	1.58	L	9.2	2.22	3.0	4.0	81.5	84.0	84.0	0.70	0.80	0.83	1.25	0.04865	20	44	42	68
		1760	145JM	4.00	2.00	1.60	L	8.7	4.40	2.7	3.8	84.0	85.5	86.5	0.61	0.73	0.80	1.25	0.14618	15	33	53	51
2	1.5	3490	145JM	5.30	2.65	2.12	L	9.4	3.03	3.5	4.0	84.0	85.5	85.5	0.68	0.77	0.83	1.25	0.06312	21	46	49	68
		1755	145JM	5.25	2.63	2.10	K	7.9	6.02	2.5	3.2	85.5	87.5	86.5	0.64	0.76	0.83	1.25	0.15947	12	26	55	51
3	2.2	3510	182JM	7.35	3.68	2.94	K	8.8	4.42	2.5	4.0	82.5	85.5	87.5	0.72	0.82	0.86	1.25	0.19981	43	95	90	69
		1760	182JM	7.80	3.90	3.12	K	8.0	8.81	2.5	3.2	87.5	89.5	89.5	0.60	0.72	0.79	1.25	0.34954	33	73	90	58
5	3.7	3500	184JM	11.7	5.83	4.66	J	8.3	7.45	2.4	3.5	87.5	88.5	89.5	0.77	0.86	0.89	1.25	0.23611	29	64	105	69
		1755	184JM	12.8	6.40	5.12	J	7.8	14.9	2.1	3.0	88.5	90.2	89.5	0.63	0.75	0.81	1.25	0.44494	20	44	99	58
7.5	5.5	3530	213JM	17.3	8.63	6.90	J	8.0	11.0	2.6	3.4	88.5	90.2	91.0	0.72	0.82	0.88	1.25	0.57664	26	57	121	72
		1770	213JM	18.6	9.29	7.43	J	7.5	21.9	2.0	2.4	90.5	91.7	91.7	0.65	0.75	0.81	1.25	137.990	16	35	152	61
10	7.5	3520	215JM	23.1	11.5	9.23	H	7.4	15.0	2.3	2.9	91.0	91.7	91.7	0.80	0.88	0.89	1.25	0.75414	23	51	160	72
		1765	215JM	25.3	12.6	10.1	H	6.7	29.9	2.3	2.6	90.5	91.7	91.7	0.63	0.75	0.81	1.25	156.381	20	44	159	61
15	11	3535	254JM	33.8	16.9	13.5	G	6.5	21.9	2.0	2.7	91.0	91.7	91.7	0.79	0.86	0.89	1.25	125.650	31	68	254	75
		1765	254JM	36.0	18.0	14.4	H	6.6	43.9	2.5	2.5	91.5	92.4	92.4	0.67	0.77	0.83	1.25	261.979	33	73	265	66
20	15	3530	256JM	45.8	22.9	18.3	G	6.2	29.9	2.0	2.5	91.7	92.4	92.4	0.79	0.86	0.89	1.25	153.557	26	57	287	75
		1765	256JM	48.8	24.4	19.5	H	7.0	59.9	2.5	2.5	92.4	93.0	93.0	0.66	0.77	0.83	1.25	309.629	25	55	298	66
25	18.5	3555	284JM	56.8	28.4	22.7	K	9.0	36.7	2.2	2.8	91.7	92.4	93.0	0.78	0.85	0.88	1.25	269.359	58	128	313	75
		1770	284JM	59.0	29.5	23.6	H	7.0	73.7	2.5	2.7	92.4	93.6	93.6	0.71	0.80	0.84	1.25	510.836	29	64	441	68
30	22	3530	286JM	66.8	33.4	26.7	H	7.2	43.9	2.4	3.0	91.7	93.0	93.0	0.82	0.87	0.89	1.25	336.705	65	143	388	75
		1765	286JM	70.3	35.1	28.1	H	7.0	87.8	2.5	2.7	93.0	93.6	93.6	0.70	0.81	0.84	1.25	585.324	24	53	485	68
40	30	3555	324JM	91.5	45.8	36.6	G	6.6	59.5	2.7	2.7	92.4	93.6	93.6	0.80	0.86	0.88	1.25	489.550	43	95	516	79
		1775	324JM	96.5	48.3	38.6	H	6.7	119	2.3	2.3	93.0	94.1	94.1	0.68	0.79	0.83	1.25	916.239	33	73	595	71
50	37	3550	326JM	111	55.5	44.4	F	6.3	73.5	2.1	2.1	92.4	93.6	94.1	0.82	0.88	0.89	1.25	574.693	33	73	562	79
		1770	326JM	121	60.6	48.5	H	7.0	147	2.6	2.8	93.6	94.5	94.5	0.65	0.76	0.81	1.25	916.239	20	44	617	71
60	45	3560	364JM	137	68.3	54.6	G	6.4	89.1	2.0	2.5	92.4	93.6	94.1	0.79	0.86	0.88	1.25	106.420	60	132	882	83
		1780	364JM	137	68.4	54.7	J	8.1	178	2.5	2.7	94.1	95.0	95.0	0.75	0.84	0.87	1.25	224.206	21	46	926	75
75	55	3560	364JM	162	80.8	64.6	F	6.4	109	2.0	2.4	93.6	94.5	95.0	0.84	0.88	0.90	1.25	11.9189	18	40	915	83
		1775	365JM	165	82.3	65.8	H	7.3	218	2.5	2.7	94.1	95.0	95.4	0.77	0.85	0.88	1.25	23.2509	19	42	937	75
100	75	3550	404JM	220	110	88.1	F	6.3	149	2.0	2.6	93.6	95.0	95.0	0.85	0.89	0.90	1.25	13.1960	21	46	1206	84
		1775	405JM	224	112	89.7	J	8.1	298	2.5	2.8	94.5	95.4	95.4	0.77	0.85	0.88	1.25	29.8941	16	35	1147	75

Three Phase Close-Coupled Pump Motors - JP Type - TEFC
Electrical Data

Standard Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1725	143JP	3.01	1.51	1.21	J	6.0	3.00	2.8	3.0	71.0	76.0	78.0	0.60	0.73	0.80	1.15	0.09302	6	13	38	51
1.5	1.1	3440	143JP	4.04	2.02	1.62	J	7.0	2.26	2.5	3.0	72.5	76.5	78.5	0.75	0.83	0.87	1.15	0.03726	7	15	38	68
		1710	145JP	4.37	2.19	1.75	J	6.6	4.54	2.6	2.8	74.0	77.5	79.0	0.60	0.73	0.80	1.15	0.09302	6	13	38	51
2	1.5	3450	145JP	5.41	2.70	2.16	K	7.5	3.00	2.7	3.2	75.5	79.0	81.0	0.73	0.82	0.86	1.15	0.03726	11	24	38	68
		1740	145JP	5.85	2.93	2.34	J	6.4	5.96	2.5	3.0	77.0	81.0	82.5	0.60	0.72	0.78	1.15	0.13289	7	15	49	51
3	2.2	3465	145JP	8.06	4.03	3.23	K	7.8	4.49	3.0	3.0	78.5	80.0	81.5	0.66	0.77	0.84	1.15	0.04865	5	11	43	68
		1750	182JP	8.26	4.13	3.30	K	7.8	8.88	2.2	3.0	75.5	78.5	81.5	0.60	0.72	0.82	1.15	0.28595	7	15	64	58
5	3.7	3470	182JP	12.3	6.17	4.94	J	7.3	7.47	2.2	2.7	82.0	84.0	84.5	0.80	0.87	0.89	1.15	0.17252	9	20	88	69
		1735	184JP	13.0	6.50	5.20	J	7.4	14.9	2.4	3.0	82.0	84.0	85.0	0.68	0.80	0.84	1.15	0.38134	10	22	97	58
7.5	5.5	3500	184JP	18.3	9.13	7.31	J	8.0	11.1	2.6	3.4	84.0	86.2	86.7	0.72	0.80	0.87	1.15	0.19981	8	18	90	69
		1760	213JP	19.3	9.66	7.73	J	7.7	22.1	2.1	3.0	83.0	86.0	87.0	0.61	0.73	0.82	1.15	0.82794	6	13	139	61
10	7.5	3510	213JP	24.4	12.2	9.76	J	7.8	14.8	2.2	2.8	84.0	86.5	87.6	0.77	0.85	0.88	1.15	0.53226	12	26	141	72
		1760	215JP	25.4	12.7	10.2	K	8.0	29.4	2.2	3.0	86.0	88.0	89.0	0.66	0.77	0.83	1.15	1.10392	5	11	137	61
15	11	3520	215JP	35.3	17.6	14.1	J	8.5	22.1	2.6	3.3	85.0	87.5	87.8	0.77	0.85	0.89	1.15	0.66539	5	11	159	72
		1755	254JP	37.6	18.8	15.0	G	6.0	44.3	2.0	2.3	85.0	86.9	88.5	0.69	0.79	0.83	1.15	1.54815	18	40	207	69
20	15	3540	254JP	48.1	24.1	19.2	J	7.8	29.3	2.3	3.0	86.4	88.6	89.0	0.75	0.84	0.88	1.15	1.11673	12	26	229	75
		1760	256JP	50.3	25.2	20.1	H	6.3	58.9	2.3	2.2	88.0	89.3	90.2	0.69	0.79	0.83	1.15	2.26266	13	29	243	69
25	18.5	3525	256JP	58.9	29.5	23.6	J	8.0	36.7	2.4	2.8	88.0	89.5	89.5	0.78	0.85	0.88	1.15	1.25650	12	26	245	75
		1765	284JP	60.4	30.2	24.1	H	7.0	73.4	2.5	2.6	88.5	90.0	90.5	0.71	0.81	0.85	1.15	3.83121	13	29	331	68
30	22	3540	284JP	70.1	35.1	28.0	H	7.5	43.9	2.6	3.2	87.0	88.5	89.5	0.79	0.85	0.88	1.15	2.28947	11	24	355	75
		1765	286JP	72.2	36.1	28.9	J	7.5	88.1	2.8	2.8	89.3	90.0	91.0	0.70	0.80	0.84	1.15	3.83121	12	26	353	68
40	30	3530	286JP	97.1	48.6	38.8	K	8.6	58.7	2.6	3.0	88.5	90.2	90.2	0.76	0.84	0.86	1.15	3.40858	7	15	364	75
		1770	324JP	96.6	48.3	38.6	H	6.6	117	2.3	2.5	89.5	90.5	91.7	0.72	0.82	0.85	1.15	6.54450	19	42	461	71
50	37	3555	324JP	115	57.4	45.9	H	7.5	72.9	3.0	2.9	90.0	91.5	92.2	0.81	0.86	0.88	1.15	4.89550	23	51	529	81
		1770	326JP	117	58.3	46.7	G	6.6	146	2.3	2.3	90.2	91.5	92.4	0.75	0.83	0.86	1.15	7.85344	16	35	512	71
60	45	3565	326JP	142	70.8	56.6	H	7.5	87.2	2.8	2.8	91.7	92.5	93.0	0.73	0.82	0.86	1.15	5.32122	19	42	595	81
		1775	364JP	140	69.8	55.9	H	7.2	175	2.3	2.7	91.0	92.2	93.0	0.75	0.84	0.87	1.15	16.6079	20	44	915	75
75	55	3560	364JP	165	82.7	66.2	H	8.0	109	2.5	2.7	90.0	92.0	92.8	0.85	0.89	0.90	1.15	10.6420	16	35	948	85
		1775	365JP	168	84.2	67.3	H	7.4	219	2.2	2.7	90.3	92.0	93.0	0.76	0.84	0.88	1.15	19.0991	15	33	915	75
100	75	3560	404JP	221	110	88.4	J	8.2	146	3.0	3.3	91.0	92.5	93.5	0.85	0.90	0.91	1.15	11.9189	13	29	1025	85
		1780	405JP	231	116	92.6	K	8.8	291	3.2	3.2	92.0	93.0	93.5	0.74	0.83	0.87	1.15	27.4029	12	26	1147	75

Three Phase Close-Coupled Pump Motors - JP Type - TEFC
Electrical Data

High Efficiency

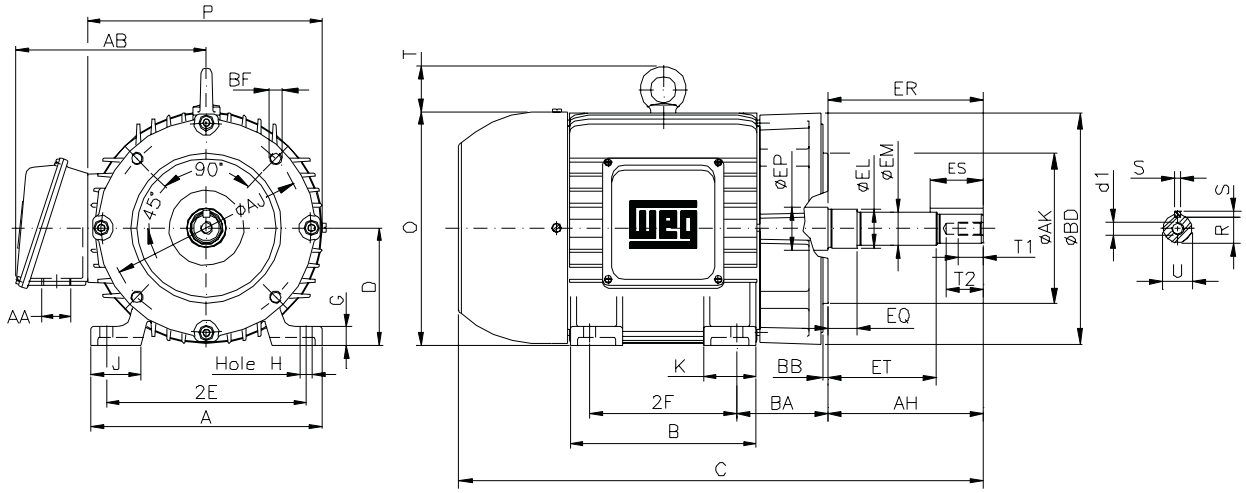
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1765	143JP	2.98	1.49	1.19	M	8.6	2.94	2.9	4.0	77.0	80.0	82.5	0.55	0.69	0.77	1.25	0.09302	16	35	44	51
1.5	1.1	3500	143JP	4.13	2.06	1.65	M	9.2	2.22	3.0	4.0	75.5	81.5	82.5	0.64	0.74	0.81	1.25	0.04295	17	37	42	68
		1760	145JP	4.10	2.05	1.64	L	8.5	4.42	2.7	3.7	80.0	84.0	84.0	0.60	0.72	0.80	1.25	0.11960	13	29	51	51
2	1.5	3480	145JP	5.20	2.60	2.08	L	9.4	2.98	2.8	4.0	80.0	82.5	84.0	0.70	0.81	0.86	1.25	0.04888	12	26	44	68
		1750	145JP	5.40	2.70	2.16	K	7.7	5.92	2.4	3.0	81.5	84.0	84.0	0.63	0.74	0.83	1.25	0.13289	11	24	53	51
3	2.2	3450	145JP	7.43	3.71	2.97	K	8.6	4.51	2.3	2.4	81.0	84.5	85.5	0.70	0.83	0.87	1.15	0.05458	6	13	51	68
		3500	182JP	7.43	3.71	2.97	K	8.2	4.44	2.5	4.0	80.0	84.0	85.5	0.74	0.83	0.87	1.25	0.17252	23	51	97	69
		1765	182JP	7.80	3.90	3.12	K	7.9	8.81	2.3	3.2	85.5	87.5	87.5	0.65	0.75	0.81	1.25	0.31774	31	68	88	56
5	3.7	3480	184JP	11.8	5.90	4.72	J	7.7	7.44	2.3	3.3	84.0	86.5	87.5	0.80	0.86	0.90	1.25	0.19981	23	51	105	69
		1750	184JP	13.0	6.48	5.18	J	7.1	14.8	2.1	3.0	85.5	87.5	87.5	0.66	0.77	0.82	1.25	0.38134	21	46	93	56
7.5	5.5	3460	184JP	17.5	8.76	7.01	H	7.0	11.2	2.2	2.3	85.5	87.5	88.5	0.81	0.87	0.89	1.15	0.23611	15	33	119	69
		3515	213JP	17.3	8.66	6.93	H	7.1	11.1	2.2	3.5	85.5	87.5	88.5	0.80	0.87	0.90	1.25	0.48789	26	57	137	72
		1765	213JP	19.1	9.53	7.62	H	6.4	22.0	2.0	2.6	87.5	89.5	89.5	0.64	0.75	0.81	1.25	1.01185	21	46	137	58
10	7.5	3500	215JP	23.4	11.7	9.35	H	6.9	14.8	2.2	2.8	88.5	89.5	89.5	0.81	0.88	0.90	1.25	0.57664	20	44	137	72
		1760	215JP	25.5	12.8	10.2	H	6.5	29.4	2.0	2.6	88.5	90.2	90.2	0.67	0.78	0.82	1.25	1.37990	17	37	152	58
15	11	3500	215JP	34.5	17.3	13.8	F	6.1	22.2	2.0	2.2	89.0	90.2	90.2	0.80	0.87	0.89	1.15	0.66539	10	22	161	72
		1760	254JP	35.8	17.9	14.3	G	6.4	44.2	2.5	2.5	89.5	91.0	91.0	0.70	0.80	0.85	1.25	2.38178	27	59	240	69
20	15	3520	254JP	46.5	23.3	18.6	G	6.2	29.4	1.8	2.2	89.5	90.5	90.2	0.86	0.90	0.90	1.25	1.39627	21	46	278	75
		1755	256JP	48.8	24.4	19.5	G	5.9	59.0	2.4	2.4	89.5	91.0	91.0	0.72	0.81	0.85	1.25	2.85804	18	40	287	69
25	18.5	3530	256JP	56.8	28.4	22.7	G	6.2	36.7	2.0	2.2	90.2	91.0	91.0	0.83	0.88	0.90	1.15	1.53581	18	40	287	75
		1760	284JP	59.3	29.6	23.7	G	6.1	73.6	2.2	2.5	91.7	92.4	92.4	0.72	0.82	0.85	1.25	5.10836	51	112	397	68
30	22	3520	284JP	67.5	33.8	27.0	G	6.4	44.2	1.9	2.3	90.2	91.0	91.0	0.84	0.88	0.90	1.25	2.82838	19	42	359	75
		1755	286JP	68.8	34.4	27.5	G	6.3	88.6	2.4	2.6	92.4	93.0	92.4	0.75	0.83	0.87	1.25	5.32122	22	48	441	68
40	30	3530	286JP	93.3	46.6	37.3	G	6.5	58.7	2.0	2.8	91.0	91.7	91.7	0.80	0.86	0.88	1.25	2.82838	14	31	408	75
		1770	324JP	95.3	47.6	38.1	G	6.0	117	2.3	2.3	91.7	93.0	93.0	0.76	0.83	0.85	1.25	7.85344	28	62	542	71
50	37	3555	324JP	113	56.5	45.2	G	6.5	72.9	2.3	2.3	91.0	92.4	92.4	0.83	0.88	0.89	1.25	5.32122	33	73	549	81
		1770	326JP	116	57.8	46.2	G	6.1	146	2.3	2.3	92.4	93.6	93.6	0.77	0.83	0.86	1.25	9.16263	25	55	595	71
60	45	3530	326JP	138	69.0	55.2	G	6.2	88.1	2.0	2.4	91.0	92.4	93.0	0.83	0.87	0.88	1.15	5.32122	14	31	549	81
		1775	364JP	134	67.0	53.6	G	6.4	175	2.0	2.3	93.0	93.6	93.6	0.80	0.87	0.90	1.25	17.4382	23	51	853	75
75	55	3550	364JP	165	82.5	66.0	G	6.5	109	2.0	2.6	91.7	93.0	93.0	0.83	0.89	0.90	1.25	10.6420	46	101	915	85
		1775	365JP	165	82.4	65.9	G	6.5	219	2.2	2.4	93.6	94.1	94.1	0.82	0.87	0.89	1.25	19.9294	22	48	900	75
100	75	3550	404JP	226	113	90.4	G	6.4	146	2.0	2.4	91.7	93.6	93.6	0.84	0.88	0.89	1.25	11.9191	38	84	1206	85
		1775	405JP	229	115	91.6	G	6.3	292	2.1	2.2	93.6	94.5	94.5	0.80	0.86	0.87	1.25	27.4029	18	40	1118	75

Three Phase Close-Coupled Pump Motors - JP Type - TEFC
Electrical Data

NEMA Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1765	143JP	2.85	1.43	1.14	L	8.8	2.99	2.9	4.0	80.0	84.0	85.5	0.58	0.71	0.77	1.25	0.11960	20	44	51	51
1.5	1.1	3495	145JP	3.95	1.98	1.58	L	9.2	2.22	3.0	4.0	81.5	84.0	84.0	0.70	0.80	0.83	1.25	0.04865	20	44	42	68
		1760	145JP	4.00	2.00	1.60	L	8.7	4.40	2.7	3.8	84.0	85.5	86.5	0.61	0.73	0.80	1.25	0.14618	15	33	53	51
2	1.5	3490	145JP	5.30	2.65	2.12	L	9.4	3.03	3.5	4.0	84.0	85.5	85.5	0.68	0.77	0.83	1.25	0.06312	21	46	49	68
		1755	145JP	5.25	2.63	2.10	K	7.9	6.02	2.5	3.2	85.5	87.5	86.5	0.64	0.76	0.83	1.25	0.15947	12	26	55	51
3	2.2	3510	182JP	7.35	3.68	2.94	K	8.8	4.42	2.5	4.0	82.5	85.5	87.5	0.72	0.82	0.86	1.25	0.19981	43	95	90	69
		1760	182JP	7.80	3.90	3.12	K	8.0	8.81	2.5	3.2	87.5	89.5	89.5	0.60	0.72	0.79	1.25	0.34954	33	73	90	58
5	3.7	3500	184JP	11.7	5.83	4.66	J	8.3	7.45	2.4	3.5	87.5	88.5	89.5	0.77	0.86	0.89	1.25	0.23611	29	64	105	69
		1755	184JP	12.8	6.40	5.12	J	7.8	14.9	2.1	3.0	88.5	90.2	89.5	0.63	0.75	0.81	1.25	0.44494	20	44	99	58
7.5	5.5	3530	213JP	17.3	8.63	6.90	J	8.0	11.0	2.6	3.4	88.5	90.2	91.0	0.72	0.82	0.88	1.25	0.57664	26	57	121	72
		1770	213JP	18.6	9.29	7.43	J	7.5	21.9	2.0	2.4	90.5	91.7	91.7	0.65	0.75	0.81	1.25	137.990	16	35	152	61
10	7.5	3520	215JP	23.1	11.5	9.23	H	7.4	15.0	2.3	2.9	91.0	91.7	91.7	0.80	0.88	0.89	1.25	0.75414	23	51	160	72
		1765	215JP	25.3	12.6	10.1	H	6.7	29.9	2.3	2.6	90.5	91.7	91.7	0.63	0.75	0.81	1.25	156.381	20	44	159	61
15	11	3535	254JP	33.8	16.9	13.5	G	6.5	21.9	2.0	2.7	91.0	91.7	91.7	0.79	0.86	0.89	1.25	125.650	31	68	254	75
		1765	254JP	36.0	18.0	14.4	H	6.6	43.9	2.5	2.5	91.5	92.4	92.4	0.67	0.77	0.83	1.25	261.979	33	73	265	66
20	15	3530	256JP	45.8	22.9	18.3	G	6.2	29.9	2.0	2.5	91.7	92.4	92.4	0.79	0.86	0.89	1.25	153.557	26	57	287	75
		1765	256JP	48.8	24.4	19.5	H	7.0	59.9	2.5	2.5	92.4	93.0	93.0	0.66	0.77	0.83	1.25	309.629	25	55	298	66
25	18.5	3555	284JP	56.8	28.4	22.7	K	9.0	36.7	2.2	2.8	91.7	92.4	93.0	0.78	0.85	0.88	1.25	269.359	58	128	313	75
		1770	284JP	59.0	29.5	23.6	H	7.0	73.7	2.5	2.7	92.4	93.6	93.6	0.71	0.80	0.84	1.25	510.836	29	64	441	68
30	22	3530	286JP	66.8	33.4	26.7	H	7.2	43.9	2.4	3.0	91.7	93.0	93.0	0.82	0.87	0.89	1.25	336.705	65	143	388	75
		1765	286JP	70.3	35.1	28.1	H	7.0	87.8	2.5	2.7	93.0	93.6	93.6	0.70	0.81	0.84	1.25	585.324	24	53	485	68
40	30	3555	324JP	91.5	45.8	36.6	G	6.6	59.5	2.7	2.7	92.4	93.6	93.6	0.80	0.86	0.88	1.25	489.550	43	95	516	79
		1775	324JP	96.5	48.3	38.6	H	6.7	119	2.3	2.3	93.0	94.1	94.1	0.68	0.79	0.83	1.25	916.239	33	73	595	71
50	37	3550	326JP	111	55.5	44.4	F	6.3	73.5	2.1	2.1	92.4	93.6	94.1	0.82	0.88	0.89	1.25	574.693	33	73	562	79
		1770	326JP	121	60.6	48.5	H	7.0	147	2.6	2.8	93.6	94.5	94.5	0.65	0.76	0.81	1.25	916.239	20	44	617	71
60	45	3560	364JP	137	68.3	54.6	G	6.4	89.1	2.0	2.5	92.4	93.6	94.1	0.79	0.86	0.88	1.25	106.420	60	132	882	83
		1780	364JP	137	68.4	54.7	J	8.1	178	2.5	2.7	94.1	95.0	95.0	0.75	0.84	0.87	1.25	224.206	21	46	926	75
75	55	3560	364JP	162	80.8	64.6	F	6.4	109	2.0	2.4	93.6	94.5	95.0	0.84	0.88	0.90	1.25	11.9189	18	40	915	83
		1775	365JP	165	82.3	65.8	H	7.3	218	2.5	2.7	94.1	95.0	95.4	0.77	0.85	0.88	1.25	23.2509	19	42	937	75
100	75	3550	404JP	220	110	88.1	F	6.3	149	2.0	2.6	93.6	95.0	95.0	0.85	0.89	0.90	1.25	13.1960	21	46	1206	84
		1775	405JP	224	112	89.7	J	8.1	298	2.5	2.8	94.5	95.4	95.4	0.77	0.85	0.88	1.25	29.8941	16	35	1147	75

Three Phase Close-Coupled Pump Motors - JM & JP - TEFC
Mechanical Data - Standard Efficiency, High Efficiency & NEMA Premium



NEMA FRAMES	MOUNTING				A	B	D	G	J	K	O	P	T	AB	AA	BEARINGS		NEMA "C" FLANGE						
	2E	2F	H	BA												D.E.	O.D.E.	AJ	AK	BB	BD	BF Qty.	BF Tap Size	BF Bolt Depth
143 JM/JP	5.500	4.000	0.344	2.205	6.457	5.157	3.500	0.547	1.496	1.654	7.000	7.047		5.905	NPT0.75"	6206-ZZ	6204-ZZ							
145 JM/JP		5.000				6.142																		
W182/4JM/JP	7.500	4.500	0.406	2.756	8.661	6.969	4.500	0.720	1.890	2.441	8.909	7.795	1.772	6.614	NPT1"	6307-ZZ	6205-ZZ	5.874	4.500	0.157	6.496	4	UNC3/8"x13	0.551
		5.500																						
182 JM/JP		4.500				5.945				1.969	9.343	8.740		7.086			6206-ZZ							
184 JM/JP		5.500				6.969																		
W213/5JM/JP	8.500	5.500		3.504	9.764	8.858	5.250	0.866	2.008	3.346	10.093	8.750		7.047		6309-Z-C3	6207-ZZ	7.252	8.500	0.248	8.858		UNC0.5"x13	0.748
		7.000																						
213 JM/JP		5.500				7.362		0.827		2.165	10.841	10.630		8.149		6309-C3								
215 JM/JP		7.000				8.858																		
W254/6JM/JP	10.000	8.268	0.531	4.252	12.126	11.732	6.250	0.866	2.520	3.465	11.841	10.670	2.087	9.272	NPT1.0.5"		6209-Z-C3							
		10.000																						
254 JM/JP		8.252				10.000		0.817		2.559	12.431	12.283		10.079			6209-C3							
256 JM/JP		10.000				11.732																		
284 JM/JP	11.000	9.500		4.764	13.780	11.575	7.000	1.016	3.150	2.953	14.067	14.094		10.866		6311-C3	6211-C3	11.000	12.500		13.593		UNC5/8"x11	0.945
286 JM/JP		11.000				13.071																		
324 JM/JP	12.500	10.500	0.657	5.236	15.157		8.000	1.307	3.228	3.346	15.953	15.591	2.441	11.496	NPT2"	6312-C3	6212-C3							
326 JM/JP		12.000				14.567																		
364 JM/JP	14.016	11.260	0.748	5.866	17.165	15.394	9.000	1.480	3.150	4.134	18.502	18.740	2.795	16.380	NPT3"	6314-C3					15.562	8		
365 JM/JP		12.244																						
404 JP	15.984	12.244	0.807	6.614	19.921	17.677	10.000	1.811	3.937	5.433	19.496													
405 JP		13.740																						

NEMA FRAMES	SHAFT END – TYPE JM														C
	LENGTHS				DIAMETERS				KEYWAY			THREADED HOLE			
	AH	ER	EQ	ET	U	EM	EL	EP	S	R	ES	d1 (UNC)	T1	T2	JM
143 JM	4.258	4.258	0.630	2.880	0.874	1.000	1.156	1.179	0.187	0.767	1.575	3/8"x16-2B	0.748	1.102	14.304
145 JM															15.304
W182/4 JM							1.250	1.376							17.125
182 JM															15.996
184 JM															17.020
W213/5 JM								1.770							20.787
213 JM															18.678
215 JM															20.174
W254/6 JM	5.250	5.250		3.006	1.249	1.375	1.750	1.750	0.250	1.110	2.480	0.5"x13-2B	0.984	1.496	26.023
254 JM															24.370
256 JM															26.102
284 JM								2.163							27.165
286 JM															28.700
324 JM								2.360							28.149
326 JM															29.645
364 JM								2.756							33.031
365 JM															

NEMA FRAMES	SHAFT END – TYPE JP														C
	LENGTHS				DIAMETERS				KEYWAY			THREADED HOLE			
	AH	ER	EQ	ET	U	EM	EL	EP	S	R	ES	d1 (UNC)	T1	T2	JP
143 JP	7.319	7.319	1.563	5.941	0.874	1.000	1.156	1.179	0.187	0.768	1.575	3/8"x16-2B	0.748	1.102	17.365
145 JP															18.365
W182/4 JP							1.250	1.376							19.685
182 JP															19.057
184 JP															20.395
W213/5 JP	8.130	8.130	2.382	5.886	1.249	1.375	1.750	1.770	0.250	1.110	2.480	0.5"x13-2B	0.984	1.496	24.645
213 JP															22.550
215 JP															24.046
W254/6 JP															28.900
254 JP															26.964
256 JP															28.736
284 JP								2.163							30.079
286 JP															31.575
324 JP								2.360							32.525
326 JP															34.021
364 JP					1.624	1.750	2.125	2.756	0.375	1.413					35.916
365 JP															
404 JP															38.911
405 JP															

Three Phase Close-Coupled Pump Motors - JM & JP - ODP
Purchasing Data

Standard Features

- Three phase, 2 & 4 pole, 60Hz
- Voltage: 230/460V, 460V or 575V
- Squirrel cage rotor / Aluminum die cast
- Class “F” insulation
- Temperature rise: Class “B” (80ºC)
- 104°F (40ºC) ambient temperature
- Continuous Duty (S1)
- NEMA dimensions
- Open drip proof
- Service Factor: 1.15
- Stainless steel nameplate - 254JM and up
- 1045 carbon steel shaft
- F1 mount (with cast iron ‘C’ Flange)
- NPT threaded terminal box conduit hole
- Paint: Enamel alkyd resin base
- Color: RAL 5007 (Blue)
- Weg paint plan: 201A
- Drip cover for all vertical motors

Optional Features

- Special voltages
- Cable glands
- Thermistors, Thermostats or RTD”s (PT100) - For frames 182JP and up
- IEC metric frames (on request) - For frames 254JP up to 365JP

Frame Specific Features

For Frame 143/5 JM & JP

- Welded steel plate frames (welded feet)
- Cast iron endshields fixed with through bolt construction
- “ZZ” bearings (double shielded)
- Degree of protection: IP21

For Frame 182 JM & JP up to 215 JM & JP

- Welded steel plate frames (welded feet)
- Aluminum endshields and Terminal box
- Cooling system with finned rotor
- “ZZ” bearings (double shielded)
- Degree of protection: IP21

For Frame 254 JM & JP up to 445 JM & JP

- Cast iron frames
- Cast iron endshields and terminal box
- Cooling system with finned rotor
- Regreasable bearings system (frame 254JP and up)
- Degree of protection: IP23

Fire Pump Duty

Motor also certified for fire pump application with SF 1.15

LISTED
68YN
FIRE PUMP MOTOR
EX5990

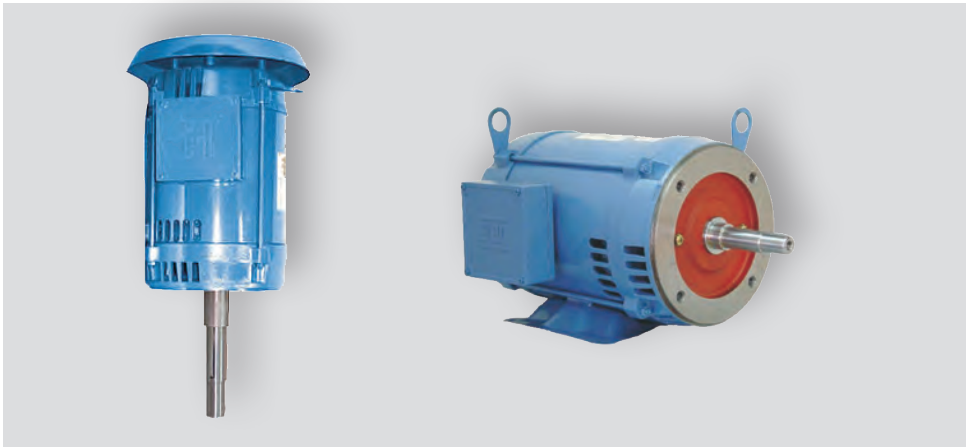
NEMA MG1 Part 31

Inverter Duty

- Please call for specific ratings

APPROVED BY LR 38324 APPROVED BY CSA E EEV 78282

NEMA Premium™



Three Phase Close-Coupled Pump Motors - JM & JP - ODP
Purchasing Data

High Efficiency - Vertical JM & JP Type - ODP

Rated Output		NEMA Frame	JM List Price	JP List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	"C" Dimension (in.) JM Type	"C" Dimension (in.) JP Type
HP	RPM					460V	575V				
1	1800	E143/5 JM or JP	$ 452	$ 461	JM000X04DPS	1.50	1.20	82.5	33	14.055	17.126
1.5	3600	E143/5 JM or JP	478	488	JM001X02DPS	1.95	1.56	84.0	29	14.055	17.126
	1800	E143/5 JM or JP	482	492	JM001X04DPS	2.10	1.68	84.0	38	14.055	17.126
2	3600	E143/5 JM or JP	520	530	JM002X02DPS	2.50	2.00	85.5	40	14.055	17.126
	1800	E143/5 JM or JP	508	518	JM002X04DPS	2.87	2.30	84.0	40	14.055	17.126
3	3600	F143/5 JM or JP	562	573	JM003X02DPS	3.65	2.92	84.0	46	14.842	17.913
	1800	182/4 JM or JP	655	668	JM003X04DPS	3.94	3.15	86.5	47	14.527	20.236
5	3600	182/4 JM or JP	737	752	JM005X02DPS	6.10	4.88	86.5	48	14.527	20.236
	1800	182/4 JM or JP	746	761	JM005X04DPS	6.39	5.11	87.5	60	14.527	20.236
7.5	3600	182/4 JM or JP	881	899	JM007X02DPS	8.97	7.18	87.5	60	14.527	20.236
	1800	213/5 JM or JP	983	1,003	JM007X04DPS	9.40	7.52	88.5	72	17.323	21.240
10	3600	213/5 JM or JP	1,086	1,108	JM010X02DPS	11.8	9.44	88.5	113	17.323	21.240
	1800	213/5 JM or JP	1,086	1,108	JM010X04DPS	12.7	10.2	89.5	96	17.323	21.240
15	3600	213/5 JM or JP	1,403	1,431	JM015X02DPS	17.1	13.7	89.5	130	17.323	21.240
	1800	254 JM or JP	1,588	1,620	JM015X04DPS	18.7	15.0	91.0	221	22.169	25.049
20	3600	254 JM or JP	1,692	1,726	JM020X02DPS	24.6	19.7	90.2	179	22.169	25.049
	1800	256 JM or JP	1,864	1,901	JM020X04DPS	25.2	20.2	91.0	251	23.902	26.782
25	3600	256 JM or JP	2,024	2,064	JM025X02DPS	29.3	23.4	91.0	225	23.902	26.782
	1800	284 JM or JP	2,136	2,179	JM025X04DPS	30.1	24.1	91.7	271	24.261	27.141
30	3600	284 JM or JP	2,522	2,572	JM030X02DPS	34.0	27.2	92.4	333	24.261	27.141
	1800	286 JM or JP	2,480	2,530	JM030X04DPS	35.6	28.5	92.4	357	25.754	28.634
40	3600	286 JM or JP	2,869	2,926	JM040X02DPS	45.8	36.6	92.4	417	25.754	28.634
	1800	324 JM or JP	3,183	3,247	JM040X04DPS	48.8	39.0	93.0	450	26.431	29.311
50	3600	324 JM or JP	3,584	3,656	JM050X02DPS	57.7	46.2	93.6	479	26.431	29.311
	1800	326 JM or JP	3,585	3,657	JM050X04DPS	60.2	48.2	93.0	538	27.927	30.807
60	3600	326 JM or JP	4,102	4,184	JM060X02DPS	70.6	56.5	93.0	565	27.927	30.807
	1800	364/5 JM or JP	4,569	4,660	JM060X04DPS	70.2	56.2	93.6	633	29.139	32.019
75	3600	364/5 JM or JP	5,579	5,691	JM075X02DPS	80.6	64.5	94.1	695	29.139	32.019
	1800	364/5 JM or JP	5,174	5,277	JM075X04DPS	85.3	68.2	94.1	825	29.139	32.019
100	3600	364/5 JM or JP	6,553	6,684	JM100X02DPS	110	88.0	94.1	825	29.139	32.019

Shaft: Replace 'JM' with 'JP' for JP type.
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V
* "C" Dimension does not include drip cover. Call 1 877 PAMENSKY for specifications.

NEMA Premium Efficiency - Vertical JM & JP Type - ODP

Rated Output		NEMA Frame	JM List Price	JP List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	"C" Dimension (in.) JM Type	"C" Dimension (in.) JP Type
HP	RPM					460V	575V				
1	1800	E143/5 JM or JP	$ 542	$ 553	JM000X04DPNPS	1.45	1.16	85.5	33	14.055	17.126
1.5	3600	E143/5 JM or JP	574	585	JM001X02DPNPS	1.90	1.52	85.5	31	14.055	17.126
	1800	E143/5 JM or JP	578	590	JM001X04DPNPS	2.07	1.66	86.5	40	14.055	17.126
2	3600	E143/5 JM or JP	624	636	JM002X02DPNPS	2.56	2.05	86.5	40	14.055	17.126
	1800	E143/5 JM or JP	610	622	JM002X04DPNPS	2.83	2.26	86.5	40	14.055	17.126
3	3600	F143/5 JM or JP	674	688	JM003X02DPNPS	3.59	2.87	87.5	46	14.842	17.913
	1800	182/4 JM or JP	786	802	JM003X04DPNPS	4.06	3.25	89.5	46	14.527	20.236
5	3600	182/4 JM or JP	884	902	JM005X02DPNPS	6.15	4.92	88.5	48	14.527	20.236
	1800	182/4 JM or JP	895	913	JM005X04DPNPS	6.40	5.12	89.5	62	14.527	20.236
7.5	3600	182/4 JM or JP	1,057	1,078	JM007X02DPNPS	8.95	7.16	88.5	60	14.527	20.236
	1800	213/5 JM or JP	1,180	1,203	JM007X04DPNPS	9.03	7.22	91.0	77	17.323	21.240
10	3600	213/5 JM or JP	1,303	1,329	JM010X02DPNPS	11.8	9.44	91.0	121	17.323	21.240
	1800	213/5 JM or JP	1,303	1,329	JM010X04DPNPS	12.2	9.76	91.7	99	17.323	21.240
15	3600	213/5 JM or JP	1,684	1,717	JM015X02DPNPS	17.5	14.0	91.0	126	17.323	21.240
	1800	254 JM or JP	1,906	1,944	JM015X04DPNPS	18.6	14.9	93.0	254	22.169	25.049
20	3600	254 JM or JP	2,030	2,071	JM020X02DPNPS	24.6	19.7	91.0	179	22.169	25.049
	1800	256 JM or JP	2,237	2,282	JM020X04DPNPS	25.3	20.2	93.0	295	23.902	26.782
25	3600	256 JM or JP	2,429	2,477	JM025X02DPNPS	29.8	23.8	91.7	243	23.902	26.782
	1800	284 JM or JP	2,563	2,614	JM025X04DPNPS	29.9	23.9	93.6	342	24.261	27.141
30	3600	284 JM or JP	3,026	3,087	JM030X02DPNPS	35.2	28.2	92.4	333	24.261	27.141
	1800	286 JM or JP	2,976	3,036	JM030X04DPNPS	35.4	28.3	94.1	419	25.754	28.634
40	3600	286 JM or JP	3,443	3,512	JM040X02DPNPS	47.1	37.7	93.0	417	25.754	28.634
	1800	324 JM or JP	3,820	3,896	JM040X04DPNPS	50.7	40.6	94.1	529	26.431	29.311
50	3600	324 JM or JP	4,301	4,387	JM050X02DPNPS	59.0	47.2	93.0	496	26.431	29.311
	1800	326 JM or JP	4,302	4,388	JM050X04DPNPS	61.4	49.1	94.1	573	27.927	30.807
60	3600	326 JM or JP	4,922	5,021	JM060X02DPNPS	71.0	56.8	93.6	582	27.927	30.807
	1800	364/5 JM or JP	5,483	5,592	JM060X04DPNPS	70.0	56.0	94.5	825	29.139	32.019
75	3600	364/5 JM or JP	6,695	6,829	JM075X02DPNPS	81.5	65.2	93.6	695	29.139	32.019
	1800	364/5 JM or JP	6,209	6,333	JM075X04DPNPS	85.5	68.4	95.0	825	29.139	32.019
100	3600	364/5 JM or JP	7,864	8,021	JM100X02DPNPS	111	88.8	94.5	825	29.139	32.019

Shaft: Replace 'JM' with 'JP' for JP type.
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V
* "C" Dimension does not include drip cover. Call 1 877 PAMENSKY for specifications.

Three Phase Close-Coupled Pump Motors - JM & JP - ODP
Purchasing Data

High Efficiency - Horizontal JM & JP Type - ODP

Rated Output		NEMA Frame	JM List Price	JP List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	"C" Dimension (in.) JM Type	"C" Dimension (in.) JP Type
HP	RPM					460V	575V				
1	1800	E143/5 JM or JP	$ 392	$ 400	JM000X04DP	1.50	1.20	82.5	33	14.055	17.126
1.5	3600	E143/5 JM or JP	418	426	JM001X02DP	1.95	1.56	84.0	29	14.055	17.126
	1800	E143/5 JM or JP	422	430	JM001X04DP	2.10	1.68	84.0	38	14.055	17.126
2	3600	E143/5 JM or JP	460	469	JM002X02DP	2.50	2.00	85.5	40	14.055	17.126
	1800	E143/5 JM or JP	448	457	JM002X04DP	2.87	2.30	84.0	40	14.055	17.126
3	3600	F143/5 JM or JP	502	512	JM003X02DP	3.65	2.92	84.0	46	14.842	17.913
	1800	182/4 JM or JP	580	592	JM003X04DP	3.94	3.15	86.5	47	14.527	20.236
5	3600	182/4 JM or JP	662	675	JM005X02DP	6.10	4.88	86.5	48	14.527	20.236
	1800	182/4 JM or JP	671	684	JM005X04DP	6.39	5.11	87.5	60	14.527	20.236
7.5	3600	182/4 JM or JP	806	822	JM007X02DP	8.97	7.18	87.5	60	14.527	20.236
	1800	213/5 JM or JP	908	926	JM007X04DP	9.40	7.52	88.5	72	17.323	21.240
10	3600	213/5 JM or JP	1,006	1,026	JM010X02DP	11.8	9.44	88.5	113	17.323	21.240
	1800	213/5 JM or JP	1,006	1,026	JM010X04DP	12.7	10.2	89.5	96	17.323	21.240
15	3600	213/5 JM or JP	1,323	1,349	JM015X02DP	17.1	13.7	89.5	130	17.323	21.240
	1800	254 JM or JP	1,478	1,508	JM015X04DP	18.7	15.0	91.0	221	22.169	25,049
20	3600	254 JM or JP	1,602	1,634	JM020X02DP	24.6	19.7	90.2	179	22.169	25,049
	1800	256 JM or JP	1,764	1,799	JM020X04DP	25.2	20.2	91.0	251	23.902	26,782
25	3600	256 JM or JP	1,914	1,952	JM025X02DP	29.3	23.4	91.0	225	23.902	26,782
	1800	284 JM or JP	1,992	2,032	JM025X04DP	30.1	24.1	91.7	271	24.261	27,141
30	3600	284 JM or JP	2,378	2,426	JM030X02DP	34.0	27.2	92.4	333	24.261	27,141
	1800	286 JM or JP	2,336	2,383	JM030X04DP	35.6	28.5	92.4	357	25.754	28,634
40	3600	286 JM or JP	2,725	2,780	JM040X02DP	45.8	36.6	92.4	417	25.754	28,634
	1800	324 JM or JP	3,019	3,079	JM040X04DP	48.8	39.0	93.0	450	26.431	29,311
50	3600	324 JM or JP	3,420	3,488	JM050X02DP	57.7	46.2	93.6	479	26.431	29,311
	1800	326 JM or JP	3,441	3,510	JM050X04DP	60.2	48.2	93.0	538	27.927	30,807
60	3600	326 JM or JP	3,948	4,027	JM060X02DP	70.6	56.5	93.0	565	27.927	30,807
	1800	364/5 JM or JP	4,356	4,443	JM060X04DP	70.2	56.2	93.6	633	29.139	32,019
75	3600	364/5 JM or JP	5,364	5,471	JM075X02DP	80.6	64.5	94.1	695	29.139	32,019
	1800	364/5 JM or JP	4,959	5,058	JM075X04DP	85.3	68.2	94.1	825	29.139	32,019
100	3600	364/5 JM or JP	6,338	6,465	JM100X02DP	110	88.0	94.1	825	29.139	32,019

Shaft: Replace 'JM' with 'JP' for JP type.
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

NEMA Premium Efficiency - Horizontal JM & JP Type - ODP

Rated Output		NEMA Frame	JM List Price	JP List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	"C" Dimension (in.) JM Type	"C" Dimension (in.) JP Type
HP	RPM					460V	575V				
1	1800	E143/5 JM or JP	$ 470	$ 480	JM000X04DPNP	1.45	1.16	85.5	33	14.055	17.126
1.5	3600	E143/5 JM or JP	502	512	JM001X02DPNP	1.90	1.52	85.5	31	14.055	17.126
	1800	E143/5 JM or JP	506	517	JM001X04DPNP	2.07	1.66	86.5	40	14.055	17.126
2	3600	E143/5 JM or JP	552	563	JM002X02DPNP	2.56	2.05	86.5	40	14.055	17.126
	1800	E143/5 JM or JP	538	548	JM002X04DPNP	2.83	2.26	86.5	40	14.055	17.126
3	3600	F143/5 JM or JP	602	614	JM003X02DPNP	3.59	2.87	87.5	46	14.842	17.913
	1800	182/4 JM or JP	696	710	JM003X04DPNP	4.06	3.25	89.5	46	14.527	20.236
5	3600	182/4 JM or JP	794	810	JM005X02DPNP	6.15	4.92	88.5	48	14.527	20.236
	1800	182/4 JM or JP	805	821	JM005X04DPNP	6.40	5.12	89.5	62	14.527	20.236
7.5	3600	182/4 JM or JP	967	987	JM007X02DPNP	8.95	7.16	88.5	60	14.527	20.236
	1800	213/5 JM or JP	1,090	1,111	JM007X04DPNP	9.03	7.22	91.0	77	17.323	21.240
10	3600	213/5 JM or JP	1,207	1,231	JM010X02DPNP	11.8	9.44	91.0	121	17.323	21.240
	1800	213/5 JM or JP	1,207	1,231	JM010X04DPNP	12.2	9.76	91.7	99	17.323	21.240
15	3600	213/5 JM or JP	1,588	1,619	JM015X02DPNP	17.5	14.0	91.0	126	17.323	21.240
	1800	254 JM or JP	1,774	1,809	JM015X04DPNP	18.6	14.9	93.0	254	22.169	25,049
20	3600	254 JM or JP	1,922	1,961	JM020X02DPNP	24.6	19.7	91.0	179	22.169	25,049
	1800	256 JM or JP	2,117	2,159	JM020X04DPNP	25.3	20.2	93.0	295	23.902	26,782
25	3600	256 JM or JP	2,297	2,343	JM025X02DPNP	29.8	23.8	91.7	243	23.902	26,782
	1800	284 JM or JP	2,390	2,438	JM025X04DPNP	29.9	23.9	93.6	342	24.261	27,141
30	3600	284 JM or JP	2,854	2,911	JM030X02DPNP	35.2	28.2	92.4	333	24.261	27,141
	1800	286 JM or JP	2,803	2,859	JM030X04DPNP	35.4	28.3	94.1	419	25.754	28,634
40	3600	286 JM or JP	3,270	3,335	JM040X02DPNP	47.1	37.7	93.0	417	25.754	28,634
	1800	324 JM or JP	3,623	3,695	JM040X04DPNP	50.7	40.6	94.1	529	26.431	29,311
50	3600	324 JM or JP	4,104	4,186	JM050X02DPNP	59.0	47.2	93.0	496	26.431	29,311
	1800	326 JM or JP	4,129	4,212	JM050X04DPNP	61.4	49.1	94.1	573	27.927	30,807
60	3600	326 JM or JP	4,738	4,832	JM060X02DPNP	71.0	56.8	93.6	582	27.927	30,807
	1800	364/5 JM or JP	5,227	5,332	JM060X04DPNP	70.0	56.0	94.5	825	29.139	32,019
75	3600	364/5 JM or JP	6,437	6,566	JM075X02DPNP	81.5	65.2	93.6	695	29.139	32,019
	1800	364/5 JM or JP	5,951	6,070	JM075X04DPNP	85.5	68.4	95.0	825	29.139	32,019
100	3600	364/5 JM or JP	7,606	7,758	JM100X02DPNP	111	88.8	94.5	825	29.139	32,019

Shaft: Replace 'JM' with 'JP' for JP type.
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase Close-Coupled Pump Motors - JM Type - ODP
Electrical Data

High Efficiency

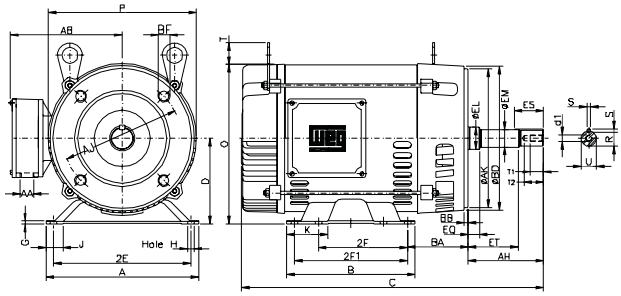
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1730	E143/5JM	3.00	1.50	1.20	L	7.60	2.99	3.3	3.5	80.0	81.5	82.5	0.57	0.68	0.75	1.15	0.12506	-	-	33	-
1.5	1.1	3430	E143/5JM	3.90	1.95	1.56	K	8.60	2.27	4.5	3.5	81.5	84.0	84.0	0.69	0.80	0.86	1.15	0.04366	-	-	29	-
		1730	E143/5JM	4.20	2.10	1.68	K	7.50	4.49	3.0	3.0	82.5	84.0	84.0	0.57	0.70	0.79	1.15	0.14285	-	-	38	-
2	1.5	3430	E143/5JM	5.00	2.50	2.00	K	9.00	3.02	4.5	3.5	84.0	85.5	85.5	0.73	0.83	0.88	1.15	0.05956	-	-	40	-
		1725	E143/5JM	5.74	2.87	2.30	K	7.50	6.01	3.5	3.0	82.5	84.0	84.0	0.56	0.70	0.78	1.15	0.16065	-	-	40	-
3	2.2	3400	F143/5JM	7.30	3.65	2.92	K	8.50	4.57	4.0	3.0	81.5	82.5	84.0	0.80	0.88	0.92	1.15	0.07166	-	-	46	-
		1760	182JM	7.88	3.94	3.15	K	8.10	8.83	2.4	3.0	82.5	85.5	86.5	0.62	0.74	0.81	1.15	0.25415	-	-	47	-
5	3.7	3480	182JM	12.2	6.10	4.88	H	7.10	7.44	2.0	2.9	85.5	86.5	86.5	0.73	0.82	0.88	1.15	0.12719	-	-	48	-
		1755	184JM	12.8	6.39	5.11	J	7.10	14.8	2.1	3.0	84.0	86.5	87.5	0.66	0.77	0.83	1.15	0.31774	-	-	60	-
7.5	5.5	3485	184JM	17.9	8.97	7.18	H	7.00	11.2	2.2	3.0	86.5	87.5	87.5	0.78	0.85	0.88	1.15	0.16350	-	-	60	-
		1755	213/5JM	18.8	9.40	7.52	H	6.80	22.1	1.8	2.5	85.5	87.5	88.5	0.68	0.78	0.83	1.15	0.91977	-	-	72	-
10	7.5	3515	213/5JM	23.6	11.8	9.44	H	6.80	14.7	2.2	2.3	86.5	88.5	88.5	0.78	0.86	0.90	1.15	0.44351	-	-	113	-
		1760	213/5JM	25.4	12.7	10.2	H	6.50	29.4	1.8	2.3	86.5	88.5	89.5	0.67	0.78	0.83	1.15	1.01185	-	-	96	-
15	11	3500	213/5JM	34.2	17.1	13.7	G	6.20	22.2	2.1	3.1	88.5	89.5	89.5	0.84	0.89	0.90	1.15	0.57664	-	-	130	-
		1765	254JM	37.4	18.7	15.0	G	6.0	44.0	2.2	2.5	89.5	90.2	91.0	0.65	0.75	0.81	1.15	1.54815	14	31	221	59
20	15	3530	254JM	49.2	24.6	19.7	G	6.0	29.4	1.9	2.5	88.5	90.2	90.2	0.72	0.80	0.85	1.15	0.73302	10	22	179	66
		1765	256JM	50.4	25.2	20.2	G	5.8	58.7	2.2	2.5	89.5	90.2	91.0	0.66	0.77	0.82	1.15	1.90528	12	26	251	60
25	18.5	3530	256JM	58.6	29.3	23.4	G	6.0	36.7	2.0	2.5	89.5	90.2	91.0	0.76	0.85	0.87	1.15	0.90744	10	22	225	67
		1765	284JM	60.2	30.1	24.1	G	6.0	73.4	2.2	2.5	89.5	91.0	91.7	0.70	0.79	0.84	1.15	2.97978	13	29	271	62
30	22	3540	284JM	68.0	34.0	27.2	F	6.2	43.9	2.0	2.7	90.2	91.7	92.4	0.81	0.87	0.88	1.15	2.38605	12	26	333	72
		1770	286JM	71.2	35.6	28.5	G	6.1	87.8	2.5	3.0	90.2	92.4	92.4	0.74	0.81	0.84	1.15	3.83121	13	29	357	63
40	30	3535	286JM	91.6	45.8	36.6	G	6.3	58.6	1.8	2.4	91.7	92.4	92.4	0.81	0.87	0.89	1.15	2.35686	16	35	417	73
		1765	324JM	97.6	48.8	39.0	F	5.2	117	1.8	2.0	91.7	92.4	93.0	0.70	0.79	0.83	1.15	5.72652	24	53	450	64
50	37	3560	324JM	115	57.7	46.2	G	6.4	72.8	2.2	2.5	91.7	93.0	93.6	0.75	0.83	0.86	1.15	3.51204	28	62	479	74
		1765	326JM	120	60.2	48.2	F	5.6	147	2.0	2.1	92.4	93.0	93.0	0.72	0.80	0.83	1.15	6.05376	18	40	538	65
60	45	3555	326JM	141	70.6	56.5	G	6.0	87.4	2.3	2.8	91.7	93.0	93.0	0.75	0.83	0.86	1.15	4.15061	19	42	565	75
		1780	364JM	140	70.2	56.2	G	6.1	175	2.2	2.6	91.7	93.0	93.6	0.74	0.84	0.86	1.15	12.4559	16	35	633	67
75	55	3550	364JM	161	80.6	64.5	F	6.3	109	1.8	2.8	93.0	94.1	94.1	0.84	0.90	0.91	1.15	6.81099	15	33	695	80
		1780	365JM	171	85.3	68.2	F	6.1	218	2.4	2.8	93.0	93.6	94.1	0.74	0.82	0.86	1.15	16.1926	17	37	825	68
100	75	3550	365JM	220	110	88.0	F	6.3	146	1.9	3.0	93.6	94.1	94.1	0.86	0.91	0.91	1.15	8.30075	13	29	825	83

Three Phase Close-Coupled Pump Motors - JP Type - ODP
Electrical Data

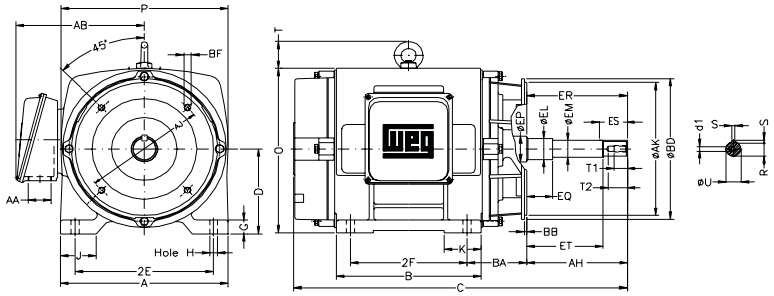
High Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1730	E143/5JM	3.00	1.50	1.20	L	7.60	2.99	3.3	3.5	80.0	81.5	82.5	0.57	0.68	0.75	1.15	0.12506	-	-	33	-
1.5	1.1	3430	E143/5JM	3.90	1.95	1.56	K	8.60	2.27	4.5	3.5	81.5	84.0	84.0	0.69	0.80	0.86	1.15	0.04366	-	-	29	-
		1730	E143/5JM	4.20	2.10	1.68	K	7.50	4.49	3.0	3.0	82.5	84.0	84.0	0.57	0.70	0.79	1.15	0.14285	-	-	38	-
2	1.5	3430	E143/5JM	5.00	2.50	2.00	K	9.00	3.02	4.5	3.5	84.0	85.5	85.5	0.73	0.83	0.88	1.15	0.05956	-	-	40	-
		1725	E143/5JM	5.74	2.87	2.30	K	7.50	6.01	3.5	3.0	82.5	84.0	84.0	0.56	0.70	0.78	1.15	0.16065	-	-	40	-
3	2.2	3400	F143/5JM	7.30	3.65	2.92	K	8.50	4.57	4.0	3.0	81.5	82.5	84.0	0.80	0.88	0.92	1.15	0.07166	-	-	46	-
		1760	182JM	7.88	3.94	3.15	K	8.10	8.83	2.4	3.0	82.5	85.5	86.5	0.62	0.74	0.81	1.15	0.25415	-	-	47	-
5	3.7	3480	182JM	12.2	6.10	4.88	H	7.10	7.44	2.0	2.9	85.5	86.5	86.5	0.73	0.82	0.88	1.15	0.12719	-	-	48	-
		1755	184JM	12.8	6.39	5.11	J	7.10	14.8	2.1	3.0	84.0	86.5	87.5	0.66	0.77	0.83	1.15	0.31774	-	-	60	-
7.5	5.5	3485	184JM	17.9	8.97	7.18	H	7.00	11.2	2.2	3.0	86.5	87.5	87.5	0.78	0.85	0.88	1.15	0.16350	-	-	60	-
		1755	213/5JM	18.8	9.40	7.52	H	6.80	22.1	1.8	2.5	85.5	87.5	88.5	0.68	0.78	0.83	1.15	0.91977	-	-	72	-
10	7.5	3515	213/5JM	23.6	11.8	9.44	H	6.80	14.7	2.2	2.3	86.5	88.5	88.5	0.78	0.86	0.90	1.15	0.44351	-	-	113	-
		1760	213/5JM	25.4	12.7	10.2	H	6.50	29.4	1.8	2.3	86.5	88.5	89.5	0.67	0.78	0.83	1.15	1.01185	-	-	96	-
15	11	3500	213/5JM	34.2	17.1	13.7	G	6.20	22.2	2.1	3.1	88.5	89.5	89.5	0.84	0.89	0.90	1.15	0.57664	-	-	130	-
		1765	254JM	37.4	18.7	15.0	G	6.0	44.0	2.2	2.5	89.5	90.2	91.0	0.65	0.75	0.81	1.15	1.54815	14	31	221	59
20	15	3530	254JM	49.2	24.6	19.7	G	6.0	29.4	1.9	2.5	88.5	90.2	90.2	0.72	0.80	0.85	1.15	0.73302	10	22	179	66
		1765	256JM	50.4	25.2	20.2	G	5.8	58.7	2.2	2.5	89.5	90.2	91.0	0.66	0.77	0.82	1.15	1.90528	12	26	251	60
25	18.5	3530	256JM	58.6	29.3	23.4	G	6.0	36.7	2.0	2.5	89.5	90.2	91.0	0.76	0.85	0.87	1.15	0.90744	10	22	225	67
		1765	284JM	60.2	30.1	24.1	G	6.0	73.4	2.2	2.5	89.5	91.0	91.7	0.70	0.79	0.84	1.15	2.97978	13	29	271	62
30	22	3540	284JM	68.0	34.0	27.2	F	6.2	43.9	2.0	2.7	90.2	91.7	92.4	0.81	0.87	0.88	1.15	2.38605	12	26	333	72
		1770	286JM	71.2	35.6	28.5	G	6.1	87.8	2.5	3.0	90.2	92.4	92.4	0.74	0.81	0.84	1.15	3.83121	13	29	357	63
40	30	3535	286JM	91.6	45.8	36.6	G	6.3	58.6	1.8	2.4	91.7	92.4	92.4	0.81	0.87	0.89	1.15	2.35686	16	35	417	73
		1765	324JM	97.6	48.8	39.0	F	5.2	117	1.8	2.0	91.7	92.4	93.0	0.70	0.79	0.83	1.15	5.72652	24	53	450	64
50	37	3560	324JM	115	57.7	46.2	G	6.4	72.8	2.2	2.5	91.7	93.0	93.6	0.75	0.83	0.86	1.15	3.51204	28	62	479	74
		1765	326JM	120	60.2	48.2	F	5.6	147	2.0	2.1	92.4	93.0	93.0	0.72	0.80	0.83	1.15	6.05376	18	40	538	65
60	45	3555	326JM	141	70.6	56.5	G	6.0	87.4	2.3	2.8	91.7	93.0	93.0	0.75	0.83	0.86	1.15	4.15061	19	42	565	75
		1780	364JM	140	70.2	56.2	G	6.1	175	2.2	2.6	91.7	93.0	93.6	0.74	0.84	0.86	1.15	12.4559	16	35	633	67
75	55	3550	364JM	161	80.6	64.5	F	6.3	109	1.8	2.8	93.0	94.1	94.1	0.84	0.90	0.91	1.15	6.81099	15	33	695	80
		1780	365JM	171	85.3	68.2	F	6.1	218	2.4	2.8	93.0	93.6	94.1	0.74	0.82	0.86	1.15	16.1926	17	37	825	68
100	75	3550	365JM	220	110	88.0	F	6.3	146	1.9	3.0	93.6	94.1	94.1	0.86	0.91	0.91	1.15	8.30075	13	29	825	83

Three Phase Close-Coupled Pump Motors - JM & JP - ODP
Mechanical Data - High Efficiency



Frames 182JM/JP to 215JM/JP



Frames 254JM/JP to 405JM/JP

NEMA FRAMES	MOUNTING					A	B	D	G	J	K	O	P	T	AB	AA	BEARINGS		NEMA "C" FLANGE						
	2E	2F	2F1	H	BA												D.E.	O.D.E.	AJ	AK	BB	BD	BF Qty.	BF Tap Size	BF Bolt Depth
182 JM/JP	7.500	4.500	5.500	0.406	2.750	8.661	6.299	4.500	0.187	1.171	1.988	8.307	7.637		6.574	NPT0.75"	6207-ZZ	6205-ZZ	5.834	4.500	0.157	6.496		UNC3/8"x16	-
184 JM/JP																									
213/5 JM/JP	8.500	5.500	7.000		3.500	9.449	7.952	5.250		1.063	2.567	9.842	8.779	1.378	6.795		6209-ZZ	6206-ZZ							
254 JM/JP	10.000	8.250	-	0.531	4.250	12.130	10.100	6.220	0.787	2.520	2.560	12.204	11.812	2.165	10.079	NPT1.0.5"	6309-Z-C3	6209-Z-C3	7.250	8.500	0.250	8.858	4	UNC0.5"x13	0.551
256 JM/JP		10.000					11.732																		
284 JM/JP	11.000	9.500			4.750	13.780	11.574	7.000	1.102	3.150	2.953	13.858	13.700		10.866		6311-Z-C3	6211-Z-C3	11.000	12.500		14.000		UNC5/8"x11	
286 JM/JP		11.000					13.070																		
324 JM/JP	12.500	10.500		0.657	5.250	15.160		8.000	1.299	3.230	3.350	15.551	15.118	2.559	11.496	NPT2"	6312-Z-C3	6212-Z-C3				13.189			0.945
326 JM/JP		12.000					14.566																		
364/5 JM/JP	14.000	11.250		0.750	5.875	17.170	15.400	9.000	1.480	3.150	4.140	18.425	17.874	2.795	16.378	NPT3"	6314-C3						8		
404/5 JP	16.000	12.244		0.807	6.625	19.950	17.700	10.000	1.968	3.950	5.440	19.409		2.800								14.960			
		12.250																							
		13.740																							

NEMA FRAMES	SHAFT END – TYPE JM														C
	LENGTHS				DIAMETERS				KEYWAY			THREADED HOLE			
	AH	ER	EQ	ET	U	EM	EL	EP	S	R	ES	d1 (UNC)	T1	T2	JM
143 JM	4.258	4.258	0.630	2.880	0.874	1.000	1.156	1.179	0.187	0.767	1.575	3/8"x16-2B	0.748	1.102	14.304
145 JM															15.304
W182/4 JM							1.250	1.376							17.125
182 JM															15.996
184 JM															17.020
W213/5 JM								1.770							20.787
213 JM															18.678
215 JM															20.174
W254/6 JM	5.250	5.250		3.006	1.249	1.375	1.750	1.750	0.250	1.110	2.480	0.5"x13-2B	0.984	1.496	26.023
254 JM															24.370
256 JM															26.102
284 JM								2.163							27.165
286 JM															28.700
324 JM								2.360							28.149
326 JM															29.645
364 JM								2.756							33.031
365 JM															

NEMA FRAMES	SHAFT END – TYPE JP														C
	LENGTHS				DIAMETERS				KEYWAY			THREADED HOLE			
	AH	ER	EQ	ET	U	EM	EL	EP	S	R	ES	d1 (UNC)	T1	T2	JP
143 JP	7.319	7.319	1.563	5.941	0.874	1.000	1.156	1.179	0.187	0.768	1.575	3/8"x16-2B	0.748	1.102	17.365
145 JP															18.365
W182/4 JP							1.250	1.376							19.685
182 JP															19.057
184 JP															20.395
W213/5 JP	8.130	8.130	2.382	5.886	1.249	1.375	1.750	1.770	0.250	1.110	2.480	0.5"x13-2B	0.984	1.496	24.645
213 JP															22.550
215 JP															24.046
W254/6 JP															28.900
254 JP															26.964
256 JP															28.736
284 JP								2.163							30.079
286 JP															31.575
324 JP								2.360							32.525
326 JP															34.021
364 JP					1.624	1.750	2.125	2.756	0.375	1.413					35.916
365 JP															
404 JP															38.911
405 JP															

Three Phase P-Base Motors - TEFC
Purchasing Data

Standard Features

- Three-phase, 2, 4 & 6 pole, 60Hz
- Voltage: 230/460, 460 or 575 V
- HP type: from frames 143HP up to 445HP
- HPH type: frames 284/6HPH and 404/5HPH
- Squirrel cage rotor / Aluminum die cast
- Totally Enclosed Fan Cooled (IP55)
- Cast iron frame
- Drip cover (canopy)
- Class 'F' insulation
- 104ºF (40ºC) ambient temperature
- Temperature rise: Class 'B' (80ºC)
- Altitude: 3300 ft (1000 m)
- Continuous Duty (S1)
- Ball bearings
- V-ring slingers on both endshields
- Regreasable bearings system (frames 254HP and up)
- Service Factor (Standard Efficiency): 1.15
- Service factor (High Efficiency): 1.25 up to 100HP
- 1.15 above 100HP
- NPT threaded terminal box conduit hole
- 1045 carbon steel shaft
- Automatic drain plugs
- Stainless steel nameplate
- Usual mounting: V1 - footless
- Paint: Enamel alkyd resin base
- Color: RAL 7022 - (Dark Gray) - Standard Efficiency
- RAL 5007 - (Blue) - High Efficiency
- RAL 6002 - (Green) - NEMA Premium
- WEG paint plan: 201A

Optional Features

- Special voltages
- Second shaft end
- Cable glands
- Auxiliary terminal box
- Space heaters
- Stainless steel shaft
- Thermistors, Thermostats or RTD's (PT100)
- NEMA Premium available on request

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- 12:1 CT
- 1000:1 VT*

* 449T and 586/7T frame sizes not included. Other speed ranges available. Call for specific ratings

APPROVED BY ® LR 38324

APPROVED BY

CSA EEV 78282 E High Efficiency and NEMA Premium Efficiency Motors only

NEMA Premium™

Three Phase P-Base Motors - TEFC
Purchasing Data

Standard Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension* (in.)
HP	RPM				460V	575V			
1	1800	143HP	$382	PB000X04	1.51	1.21	78.0	48	13.421
	1200	145HP	464	PB000X06	1.81	1.45	74.5	37	14.397
1.5	3600	143HP	404	PB001X02	2.02	1.62	78.5	38	13.421
	1800	145HP	404	PB001X04	2.19	1.75	79.0	50	14.397
	1200	182HP	521	PB001X06	2.69	2.15	78.0	60	15.504
2	3600	145HP	411	PB002X02	2.70	2.16	81.0	38	14.397
	1800	145HP	405	PB002X04	2.93	2.34	82.5	56	14.397
	1200	184HP	552	PB002X06	3.53	2.82	78.5	79	16.504
3	3600	145HP	466	PB003X02	4.03	3.23	81.5	43	14.397
	1800	182HP	527	PB003X04	3.95	3.16	81.5	85	15.504
	1200	215HP	732	PB003X06	4.97	3.98	81.8	106	20.126
5	3600	182HP	647	PB005X02	6.17	4.94	84.5	88	15.504
	1800	184HP	652	PB005X04	6.50	5.20	85.0	103	16.504
	1200	215HP	1,042	PB005X06	7.35	5.88	84.0	137	20.126
7.5	3600	184HP	692	PB007X02	9.13	7.31	86.7	99	16.504
	1800	213HP	841	PB007X04	9.66	7.73	87.0	129	18.630
	1200	254HP	1,409	PB007X06	9.60	7.68	86.5	212	23.723
10	3600	213HP	938	PB010X02	12.2	9.76	87.6	141	18.630
	1800	215HP	963	PB010X04	12.7	10.2	89.0	150	20.126
	1200	256HP	1,844	PB010X06	12.8	10.24	87.4	243	25.455
15	3600	215HP	1,122	PB015X02	17.6	14.1	87.8	168	20.126
	1800	254HP	1,371	PB015X04	18.8	15.0	88.5	230	23.723
20	3600	254HP	1,534	PB020X02	24.1	19.2	89.0	255	23.723
	1800	256HP	1,560	PB020X04	25.2	20.1	90.2	278	25.455
25	3600	256HP	1,709	PB025X02	29.5	23.6	89.5	278	25.455
	1800	284HP or HPH*	1,908	PB025X04	30.2	24.1	90.5	391	26.350
30	3600	284HP or HPH*	1,976	PB030X02	35.1	28.0	89.5	355	26.350
	1800	286HP or HPH*	1,936	PB030X04	36.1	28.9	91.0	402	27.845
40	3600	286HP or HPH*	2,831	PB030X02	46.4	37.2	90.2	364	27.845
	1800	324HP	4,016	PB030X04	48.3	38.6	91.7	513	30.403
50	3600	324HP	4,039	PB050X02	57.4	45.9	92.2	558	30.403
	1800	326HP	4,558	PB050X04	58.3	46.7	92.4	573	31.897
60	3600	326HP	4,559	PB060X02	70.8	56.6	93.0	602	31.897
	1800	364/5HP	6,950	PB060X04	69.8	55.9	93.0	839	33.684
75	3600	364/5HP	P.O.A.	PB075X02	82.7	66.2	92.8	948	33.684
	1800	364/5HP	P.O.A.	PB075X04	84.2	67.3	93.0	890	33.684
100	3600	404/5HP or HPH*	P.O.A.	PB100X02	110	88.4	93.5	1,025	36.674
	1800	404/5HP or HPH*	P.O.A.	PB100X04	116	92.6	93.5	1,147	36.674

Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V
Mounting: Replace * with HP or HPH to designate mounting
* "C" Dimension refers to HP frames only. For HPH frames refer to Mechanical Data.

Three Phase P-Base Motors - TEFC
Purchasing Data

High Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension* (in.)
HP	RPM				460V	575V			
1	1800	143HP	$493	PB000X04P	1.49	1.19	82.5	48	13.421
	1200	145HP	599	PB000X06P	1.70	1.36	80.0	44	14.397
1.5	3600	143HP	532	PB001X02P	2.06	1.65	82.5	42	13.421
	1800	145HP	532	PB001X04P	2.05	1.64	84.0	54	14.397
	1200	182HP	686	PB001X06P	2.38	1.90	85.5	68	15.504
2	3600	145HP	556	PB002X02P	2.60	2.08	84.0	44	14.397
	1800	145HP	545	PB002X04P	2.70	2.16	84.0	56	14.397
	1200	184HP	742	PB002X06P	3.20	2.56	86.5	79	16.504
3	3600	145HP	622	PB003X02P	3.71	2.97	85.5	51	14.397
	1800	182HP	662	PB003X04P	3.90	3.12	87.5	91	15.504
	1200	215HP	919	PB003X06P	4.26	3.41	87.5	110	20.126
5	3600	182HP	786	PB005X02P	5.90	4.72	87.5	105	15.504
	1800	184HP	789	PB005X04P	6.48	5.18	87.5	102	16.504
	1200	215HP	1,260	PB005X06P	6.80	5.44	87.5	162	20.126
7.5	3600	184HP	941	PB007X02P	8.76	7.01	88.5	144	16.504
	1800	213HP	1,059	PB007X04P	9.53	7.62	89.5	140	18.630
	1200	254HP	1,774	PB007X06P	9.53	7.62	89.5	236	23.723
10	3600	213HP	1,241	PB010X02P	11.7	9.35	89.5	137	18.630
	1800	215HP	1,337	PB010X04P	12.8	10.2	90.2	165	20.126
	1200	256HP	2,310	PB010X06P	13.4	10.7	89.5	278	25.455
15	3600	215HP	1,508	PB015X02P	17.3	13.8	90.2	170	20.126
	1800	254HP	1,860	PB015X04P	17.9	14.3	91.0	275	23.723
20	3600	254HP	2,029	PB020X02P	23.3	18.6	90.2	280	23.723
	1800	256HP	2,030	PB020X04P	24.4	19.5	91.0	309	25.455
25	3600	256HP	2,470	PB025X02P	28.4	22.7	91.0	304	25.455
	1800	284HP or HPH	2,860	PB025X04P*	29.6	23.7	92.4	447	26.350
30	3600	284HP or HPH	2,967	PB030X02P*	33.8	27.0	91.0	359	26.350
	1800	286HP or HPH	3,046	PB030X04P*	34.4	27.5	92.4	456	27.845
40	3600	286HP or HPH	3,967	PB030X02P*	46.6	37.3	91.7	408	27.845
	1800	324HP	3,998	PB030X04P	47.6	38.1	93.0	558	30.403
50	3600	324HP	4,882	PB050X02P	56.5	45.2	92.4	549	30.403
	1800	326HP	5,059	PB050X04P	57.8	46.2	93.6	611	31.897
60	3600	326HP	5,780	PB060X02P	69.0	55.2	93.0	549	31.897
	1800	364/5HP	P.O.A.	PB060X04P	67.0	53.6	93.6	849	33.684
75	3600	364/5HP	P.O.A.	PB075X02P	82.5	66.0	93.0	915	33.684
	1800	364/5HP	P.O.A.	PB075X04P	82.4	65.9	94.1	903	33.684
100	3600	404/5HP or HPH	P.O.A.	PB100X02P*	113	90.4	93.6	1,023	36.674
	1800	404/5HP or HPH	P.O.A.	PB100X04P*	115	91.6	94.5	1,118	36.674

Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V
Mounting: Replace * with HP or HPH to designate mounting
* "C" Dimension refers to HP frames only. For HPH frames refer to Mechanical Data.

Three Phase P-Base Motors - TEFC
Purchasing Data

NEMA Premium Efficiency

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension* (in.)
HP	RPM				460V	575V			
1	1800	143HP	$ 616	PB000X04NP	1.43	1.14	85.5	51	13.421
	1200	145HP	749	PB000X06NP	1.73	1.38	82.5	53	14.397
1.5	3600	145HP	665	PB001X02NP	1.98	1.58	84.0	42	13.421
	1800	145HP	665	PB001X04NP	2.00	1.60	86.5	53	14.397
	1200	182HP	858	PB001X06NP	2.39	1.91	87.5	70	15.504
2	3600	145HP	695	PB002X02NP	2.65	2.12	85.5	49	14.397
	1800	145HP	681	PB002X04NP	2.63	2.10	86.5	55	14.397
	1200	184HP	928	PB002X06NP	3.23	2.58	88.5	88	16.504
3	3600	182HP	934	PB003X02NP	3.68	2.94	87.5	90	14.397
	1800	182HP	828	PB003X04NP	3.90	3.12	89.5	90	15.504
	1200	215HP	1,149	PB003X06NP	4.41	3.53	89.5	121	20.126
5	3600	184HP	983	PB005X02NP	5.83	4.66	89.5	105	15.504
	1800	184HP	986	PB005X04NP	6.40	5.12	89.5	99	16.504
	1200	215HP	1,575	PB005X06NP	6.83	5.46	89.5	162	20.126
7.5	3600	213HP	1,457	PB007X02NP	8.63	6.90	91.0	121	16.504
	1800	213HP	1,324	PB007X04NP	9.29	7.43	91.7	152	18.630
	1200	254HP	2,040	PB007X06NP	9.73	7.78	91.0	256	23.723
10	3600	215HP	1,551	PB010X02NP	11.5	9.23	91.7	160	18.630
	1800	215HP	1,671	PB010X04NP	12.6	10.1	91.7	159	20.126
	1200	256HP	2,657	PB010X06NP	13.3	10.6	91.0	290	25.455
15	3600	254HP	2,555	PB015X02NP	16.9	13.5	91.7	254	20.126
	1800	254HP	2,139	PB015X04NP	18.0	14.4	92.4	265	23.723
20	3600	256HP	2,985	PB020X02NP	22.9	18.3	92.4	287	23.723
	1800	256HP	2,335	PB020X04NP	24.4	19.5	93.0	298	25.455
25	3600	284HP or HPH	3,743	PB025X02NP	28.4	22.7	93.0	313	25.455
	1800	284HP or HPH	3,289	PB025X04NP*	29.5	23.6	93.6	441	26.350
30	3600	286HP or HPH	3,412	PB030X02NP*	33.4	26.7	93.0	388	26.350
	1800	286HP or HPH	3,503	PB030X04NP*	35.1	28.1	93.6	485	27.845
40	3600	324HP	4,970	PB030X02NP*	45.8	36.6	93.6	516	27.845
	1800	324HP	4,598	PB030X04NP	48.3	38.6	94.1	595	30.403
50	3600	326HP	5,896	PB050X02NP	55.5	44.4	94.1	562	30.403
	1800	326HP	5,818	PB050X04NP	60.6	48.5	94.5	617	31.897
60	3600	364/5HP	7,848	PB060X02NP	68.3	54.6	94.1	882	31.897
	1800	364/5HP	P.O.A.	PB060X04NP	68.4	54.7	95.0	926	33.684
75	3600	364/5HP	P.O.A.	PB075X02NP	80.8	64.6	95.0	915	33.684
	1800	364/5HP	P.O.A.	PB075X04NP	82.3	65.8	95.4	937	33.684
100	3600	404/5HP or HPH	P.O.A.	PB100X02NP*	110	88.1	95.0	1,206	36.674
	1800	404/5HP or HPH	P.O.A.	PB100X04NP*	112	89.7	95.4	1,147	36.674

Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V
Mounting: Replace * with HP or HPH to designate mounting
* "C" Dimension refers to HP frames only. For HPH frames refer to Mechanical Data.

Three Phase P-Base Motors - TEFC
Electrical Data

Standard Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1725	143HP	3.01	1.51	1.21	J	6.0	3.00	2.8	3.0	71.0	76.0	78.0	0.60	0.73	0.80	1.15	0.09302	6	13	48	51
1.5	1.1	3440	143HP	4.04	2.02	1.62	J	7.0	2.26	2.5	3.0	72.5	76.5	78.5	0.75	0.83	0.87	1.15	0.03726	7	15	38	68
		1710	145HP	4.37	2.19	1.75	J	6.6	4.54	2.6	2.8	74.0	77.5	79.0	0.60	0.73	0.80	1.15	0.09302	6	13	50	51
2	1.5	3450	145HP	5.41	2.70	2.16	K	7.5	3.00	2.7	3.2	75.5	79.0	81.0	0.73	0.82	0.86	1.15	0.03726	11	24	38	68
		1740	145HP	5.85	2.93	2.34	J	6.4	5.96	2.5	3.0	77.0	81.0	82.5	0.60	0.72	0.78	1.15	0.13289	7	15	56	51
3	2.2	3465	145HP	8.06	4.03	3.23	K	7.8	4.49	3.0	3.0	78.5	80.0	81.5	0.66	0.77	0.84	1.15	0.04865	5	11	43	68
		1750	182HP	7.90	3.95	3.16	K	7.8	8.88	2.2	3.0	75.5	78.5	81.5	0.60	0.72	0.82	1.15	0.28595	7	15	85	58
5	3.7	3470	182HP	12.3	6.17	4.94	J	7.3	7.47	2.2	2.7	82.0	84.0	84.5	0.80	0.87	0.89	1.15	0.17252	9	20	88	69
		1735	184HP	13.0	6.50	5.20	J	7.4	14.9	2.4	3.0	82.0	84.0	85.0	0.68	0.80	0.84	1.15	0.38134	10	22	103	58
7.5	5.5	3500	184HP	18.3	9.13	7.31	J	8.0	11.1	2.6	3.4	84.0	86.2	86.7	0.72	0.80	0.87	1.15	0.19981	8	18	99	69
		1760	213HP	19.3	9.66	7.73	J	7.7	22.1	2.1	3.0	83.0	86.0	87.0	0.61	0.73	0.82	1.15	0.82794	6	13	129	61
10	7.5	3510	213HP	24.4	12.2	9.76	J	7.8	14.8	2.2	2.8	84.0	86.5	87.6	0.77	0.85	0.88	1.15	0.53226	12	26	141	72
		1760	215HP	25.4	12.7	10.2	K	8.0	29.4	2.2	3.0	86.0	88.0	89.0	0.66	0.77	0.83	1.15	1.10392	5	11	150	61
15	11	3520	215HP	35.3	17.6	14.1	J	8.5	22.1	2.6	3.3	85.0	87.5	87.8	0.77	0.85	0.89	1.15	0.66539	5	11	168	72
		1755	254HP	37.6	18.8	15.0	G	6.0	44.3	2.0	2.3	85.0	86.9	88.5	0.69	0.79	0.83	1.15	1.54815	18	40	230	69
20	15	3540	254HP	48.1	24.1	19.2	J	7.8	29.3	2.3	3.0	86.4	88.6	89.0	0.75	0.84	0.88	1.15	1.11673	12	26	255	75
		1760	256HP	50.3	25.2	20.1	H	6.3	58.9	2.3	2.2	88.0	89.3	90.2	0.69	0.79	0.83	1.15	2.26266	13	29	278	69
25	18.5	3525	256HP	58.9	29.5	23.6	J	8.0	36.7	2.4	2.8	88.0	89.5	89.5	0.78	0.85	0.88	1.15	1.25650	12	26	278	75
		1765	284HP	60.4	30.2	24.1	H	7.0	73.4	2.5	2.6	88.5	90.0	90.5	0.71	0.81	0.85	1.15	3.83121	13	29	391	68
		1765	284HPH	60.4	30.2	24.1	H	7.0	73.4	2.5	2.6	88.5	90.0	90.5	0.71	0.81	0.85	1.15	3.83121	13	29	391	68
30	22	3540	284HP	70.1	35.1	28.0	H	7.5	43.9	2.6	3.2	87.0	88.5	89.5	0.79	0.85	0.88	1.15	2.28947	11	24	355	75
		3540	284HPH	70.1	35.1	28.0	H	7.5	43.9	2.6	3.2	87.0	88.5	89.5	0.79	0.85	0.88	1.15	2.28947	11	24	355	75
		1765	286HP	72.2	36.1	28.9	J	7.5	88.1	2.8	2.8	89.3	90.0	91.0	0.70	0.80	0.84	1.15	3.83121	12	26	402	68
		1765	286HPH	72.2	36.1	28.9	J	7.5	88.1	2.8	2.8	89.3	90.0	91.0	0.70	0.80	0.84	1.15	3.83121	12	26	402	68
40	30	3530	286HP	92.9	46.4	37.2	K	8.6	58.7	2.6	3.0	88.5	90.2	90.2	0.76	0.84	0.86	1.15	3.40858	7	15	364	75
		3530	286HPH	92.9	46.4	37.2	K	8.6	58.7	2.6	3.0	88.5	90.2	90.2	0.76	0.84	0.86	1.15	3.40858	7	15	364	75
		1770	324HP	96.6	48.3	38.6	H	6.6	117	2.3	2.5	89.5	90.5	91.7	0.72	0.82	0.85	1.15	6.54450	19	42	513	71
50	37	3555	324HP	115	57.4	45.9	H	7.5	72.9	3.0	2.9	90.0	91.5	92.2	0.81	0.86	0.88	1.15	4.89550	23	51	558	81
		1770	326HP	117	58.3	46.7	G	6.6	146	2.3	2.3	90.2	91.5	92.4	0.75	0.83	0.86	1.15	7.85344	16	35	573	71
60	45	3565	326HP	142	70.8	56.6	H	7.5	87.2	2.8	2.8	91.7	92.5	93.0	0.73	0.82	0.86	1.15	5.32122	19	42	602	81
		1775	364HP	140	69.8	55.9	H	7.2	175	2.3	2.7	91.0	92.2	93.0	0.75	0.84	0.87	1.15	16.6079	20	44	839	75
75	55	3560	364HP	165	82.7	66.2	H	8.0	109	2.5	2.7	90.0	92.0	92.8	0.85	0.89	0.90	1.15	10.6420	16	35	948	85
		1775	365HP	168	84.2	67.3	H	7.4	219	2.2	2.7	90.3	92.0	93.0	0.76	0.84	0.88	1.15	19.0991	15	33	890	75
100	75	3560	404HP	221	110	88.4	J	8.2	146	3.0	3.3	91.0	92.5	93.5	0.85	0.90	0.91	1.15	11.9189	13	29	1025	85
		3560	404HPH	221	110	88.4	J	8.2	146	3.0	3.3	91.0	92.5	93.5	0.85	0.90	0.91	1.15	11.9189	13	29	1025	85
		1780	405HP	231	116	92.6	K	8.8	291	3.2	3.2	92.0	93.0	93.5	0.74	0.83	0.87	1.15	27.4029	12	26	1122	75
		1780	405HPH	231	116	92.6	K	8.8	291	3.2	3.2	92.0	93.0	93.5	0.74	0.83	0.87	1.15	27.4029	12	26	1147	75

Three Phase P-Base Motors - TEFC
Electrical Data

High Efficiency

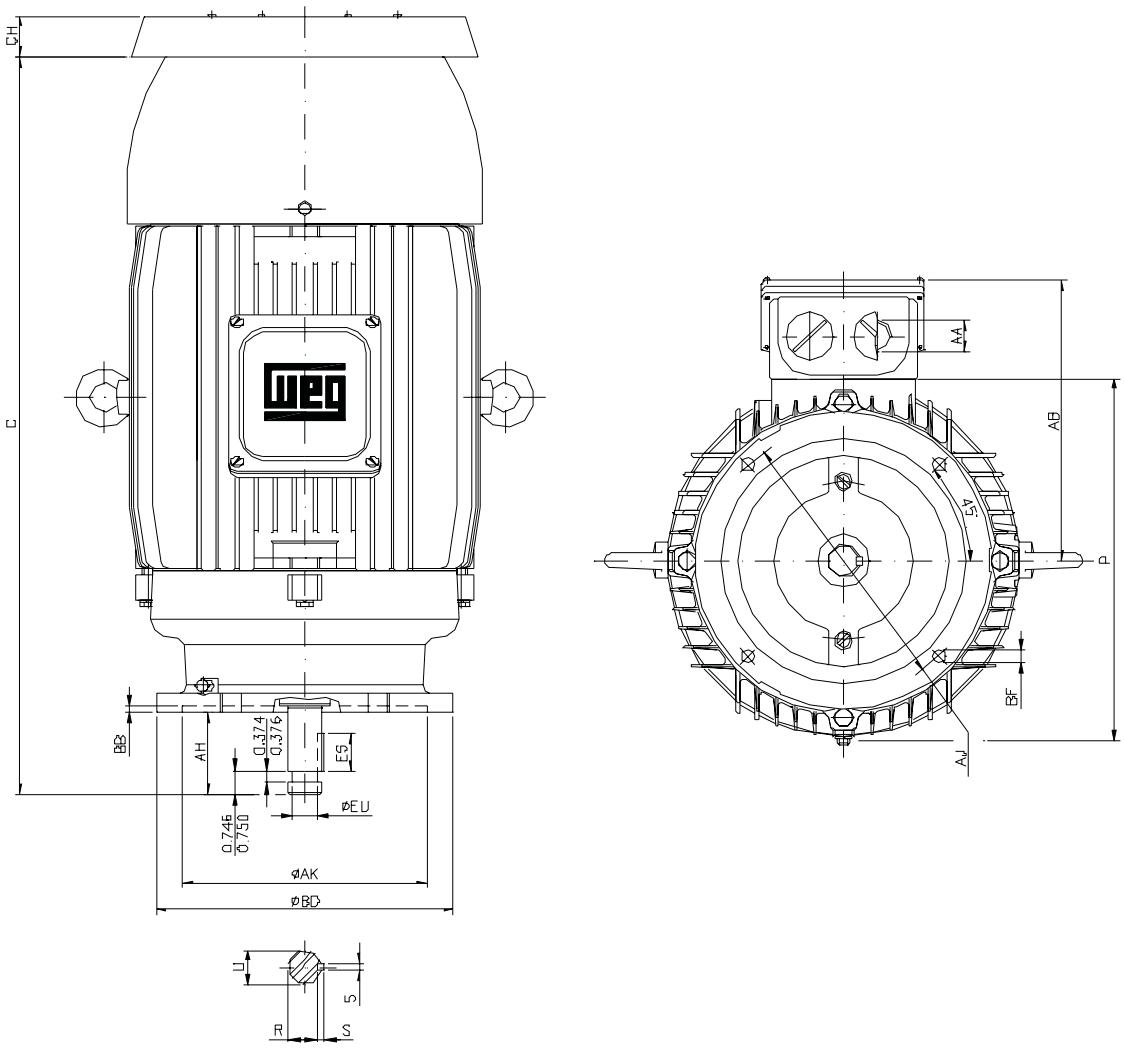
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1765	143HP	2.98	1.49	1.19	M	8.6	2.94	2.9	4.0	77.0	80.0	82.5	0.55	0.69	0.77	1.25	0.09302	16	35	48	51
		1155	145HP	3.40	1.70	1.36	L	6.8	4.49	2.3	3.0	75.5	80.0	80.0	0.48	0.60	0.69	1.25	0.13289	22	48	44	49
1.5	1.1	3500	143HP	4.13	2.06	1.65	M	9.2	2.22	3.0	4.0	75.5	81.5	82.5	0.64	0.74	0.81	1.25	0.04295	17	37	42	68
		1760	145HP	4.10	2.05	1.64	L	8.5	4.42	2.7	3.7	80.0	84.0	84.0	0.60	0.72	0.80	1.25	0.11960	13	29	54	51
		1165	182HP	4.75	2.38	1.90	M	8.0	6.67	3.2	4.0	81.5	84.0	85.5	0.47	0.58	0.68	1.25	0.48789	36	79	68	52
2	1.5	3480	145HP	5.20	2.60	2.08	L	9.4	2.98	2.8	4.0	80.0	82.5	84.0	0.70	0.81	0.86	1.25	0.04888	12	26	44	68
		1750	145HP	5.40	2.70	2.16	K	7.7	5.92	2.4	3.0	81.5	84.0	84.0	0.63	0.74	0.83	1.25	0.13289	11	24	56	51
		1165	184HP	6.40	3.20	2.56	L	7.5	8.89	3.0	3.0	82.5	85.5	86.5	0.48	0.60	0.68	1.25	0.62101	35	77	79	52
3	2.2	3450	145HP	7.43	3.71	2.97	K	8.6	4.51	2.3	2.4	81.0	84.5	85.5	0.70	0.83	0.87	1.15	0.05458	6	13	51	68
		1765	182HP	7.80	3.90	3.12	K	7.9	8.81	2.3	3.2	85.5	87.5	87.5	0.65	0.75	0.81	1.25	0.31774	31	68	91	56
		1170	215HP	8.53	4.26	3.41	J	7.0	13.3	2.2	2.5	86.5	87.5	87.5	0.53	0.65	0.74	1.25	1.01185	59	130	110	55
5	3.7	3480	182HP	11.8	5.90	4.72	J	7.7	7.44	2.3	3.3	84.0	86.5	87.5	0.80	0.86	0.90	1.25	0.19981	23	51	105	69
		1750	184HP	13.0	6.48	5.18	J	7.1	14.8	2.1	3.0	85.5	87.5	87.5	0.66	0.77	0.82	1.25	0.38134	21	46	102	56
		1160	215HP	13.6	6.80	5.44	H	6.1	22.3	1.8	2.1	86.5	87.5	87.5	0.65	0.75	0.78	1.25	1.47174	49	108	162	55
7.5	5.5	3460	184HP	17.5	8.76	7.01	H	7.0	11.2	2.2	2.3	85.5	87.5	88.5	0.81	0.87	0.89	1.15	0.23611	15	33	144	69
		1765	213HP	19.1	9.53	7.62	H	6.4	22.0	2.0	2.6	87.5	89.5	89.5	0.64	0.75	0.81	1.25	1.01185	21	46	140	58
		1170	254HP	19.1	9.53	7.62	H	6.8	33.2	2.3	3.1	88.5	89.5	89.5	0.62	0.74	0.81	1.25	2.55643	29	64	236	59
10	7.5	3500	213HP	23.4	11.7	9.35	H	6.9	14.8	2.2	2.8	88.5	89.5	89.5	0.81	0.88	0.90	1.25	0.57664	20	44	137	72
		1760	215HP	25.5	12.8	10.2	H	6.5	29.4	2.0	2.6	88.5	90.2	90.2	0.67	0.78	0.82	1.25	1.37990	17	37	165	58
		1175	256HP	26.8	13.4	10.7	J	6.9	44.1	2.3	2.9	88.5	89.5	89.5	0.58	0.72	0.79	1.25	2.89720	22	48	278	59
15	11	3500	215HP	34.5	17.3	13.8	F	6.1	22.2	2.0	2.2	89.0	90.2	90.2	0.80	0.87	0.89	1.15	0.66539	10	22	170	72
		1760	254HP	35.8	17.9	14.3	G	6.4	44.2	2.5	2.5	89.5	91.0	91.0	0.70	0.80	0.85	1.25	2.38178	27	59	275	69
20	15	3520	254HP	46.5	23.3	18.6	G	6.2	29.4	1.8	2.2	89.5	90.5	90.2	0.86	0.90	0.90	1.25	1.39627	21	46	280	75
		1755	256HP	48.8	24.4	19.5	G	5.9	59.0	2.4	2.4	89.5	91.0	91.0	0.72	0.81	0.85	1.25	2.85804	18	40	309	69
25	18.5	3530	256HP	56.8	28.4	22.7	G	6.2	36.7	2.0	2.2	90.2	91.0	91.0	0.83	0.88	0.90	1.15	1.53581	18	40	304	75
		1760	284HP	59.3	29.6	23.7	G	6.1	73.6	2.2	2.5	91.7	92.4	92.4	0.72	0.82	0.85	1.25	5.10836	51	112	447	68
		1760	284HPH	59.3	29.6	23.7	G	6.1	73.6	2.2	2.5	91.7	92.4	92.4	0.72	0.82	0.85	1.25	5.10836	51	112	447	68
30	22	3520	284HP	67.5	33.8	27.0	G	6.4	44.2	1.9	2.3	90.2	91.0	91.0	0.84	0.88	0.90	1.25	2.82838	19	42	359	75
		3520	284HPH	67.5	33.8	27.0	G	6.4	44.2	1.9	2.3	90.2	91.0	91.0	0.84	0.88	0.90	1.25	2.82838	19	42	359	75
		1755	286HP	68.8	34.4	27.5	G	6.3	88.6	2.4	2.6	92.4	93.0	92.4	0.75	0.83	0.87	1.25	5.32122	22	48	441	68
		1755	286HPH	68.8	34.4	27.5	G	6.3	88.6	2.4	2.6	92.4	93.0	92.4	0.75	0.83	0.87	1.25	5.32122	22	48	456	68
40	30	3530	286HP	93.3	46.6	37.3	G	6.5	58.7	2.0	2.8	91.0	91.7	91.7	0.80	0.86	0.88	1.25	2.82838	14	31	408	75
		3530	286HPH	93.3	46.6	37.3	G	6.5	58.7	2.0	2.8	91.0	91.7	91.7	0.80	0.86	0.88	1.25	2.82838	14	31	408	75
		1770	324HP	95.3	47.6	38.1	G	6.0	117	2.3	2.3	91.7	93.0	93.0	0.76	0.83	0.85	1.25	7.85344	28	62	558	71
50	37	3555	324HP	113	56.5	45.2	G	6.5	72.9	2.3	2.3	91.0	92.4	92.4	0.83	0.88	0.89	1.25	5.32122	33	73	549	81
		1770	326HP	116	57.8	46.2	G	6.1	146	2.3	2.3	92.4	93.6	93.6	0.77	0.83	0.86	1.25	9.16263	25	55	611	71
60	45	3530	326HP	138	69.0	55.2	G	6.2	88.1	2.0	2.4	91.0	92.4	93.0	0.83	0.87	0.88	1.15	5.32122	14	31	549	81
		1775	364HP	134	67.0	53.6	G	6.4	175	2.0	2.3	93.0	93.6	93.6	0.80	0.87	0.90	1.25	17.4382	23	51	849	75
75	55	3550	365HP	165	82.5	66.0	G	6.5	109	2.0	2.6	91.7	93.0	93.0	0.83	0.89	0.90	1.25	10.6420	46	101	915	85
		1775	365HP	165	82.4	65.9	G	6.5	219	2.2	2.4	93.6	94.1	94.1	0.82	0.87	0.89	1.25	19.9294	22	48	903	75
100	75	3550	405HP	226	113	90.4	G	6.4	146	2.0	2.4	91.7	93.6	93.6	0.84	0.88	0.89	1.25	11.9191	38	84	1023	85
		3550	405HPH	226	113	90.4	G	6.4	146	2.0	2.4	91.7	93.6	93.6	0.84	0.88	0.89	1.25	11.9191	38	84	1206	85
		1775	405HP	229	115	91.6	G	6.3	292	2.1	2.2	93.6	94.5	94.5	0.80	0.86	0.87	1.25	27.4029	18	40	1118	75
		1775	405HPH	229	115	91.6	G	6.3	292	2.1	2.2	93.6	94.5	94.5	0.80	0.86	0.87	1.25	27.4029	18	40	1118	75

Three Phase P-Base Motors - TEFC
Electrical Data

NEMA Premium Efficiency

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	1765	143HP	2.85	1.43	1.14	L	8.80	2.99	2.9	4.0	80.0	84.0	85.5	0.58	0.71	0.77	1.25	0.11960	20	44	51	51
		1165	145HP	3.45	1.73	1.38	L	6.80	4.54	2.3	3.0	77.0	82.0	82.5	0.45	0.57	0.66	1.25	0.15947	13	29	53	49
1.5	1.1	3495	145HP	3.95	1.98	1.58	L	9.20	2.22	3.0	4.0	81.5	84.0	84.0	0.70	0.80	0.83	1.25	0.04865	20	44	42	68
		1760	145HP	4.00	2.00	1.60	L	8.70	4.40	2.7	3.8	84.0	85.5	86.5	0.61	0.73	0.80	1.25	0.14618	15	33	53	51
		1165	182HP	4.78	2.39	1.91	M	8.00	6.65	3.2	4.0	84.0	86.5	87.5	0.45	0.56	0.66	1.25	0.48789	16	35	70	52
2	1.5	3490	145HP	5.30	2.65	2.12	L	9.40	3.03	3.5	4.0	84.0	85.5	85.5	0.68	0.77	0.83	1.25	0.06312	21	46	49	68
		1755	145HP	5.25	2.63	2.10	K	7.90	6.02	2.5	3.2	85.5	87.5	86.5	0.64	0.76	0.83	1.25	0.15947	12	26	55	51
		1165	184HP	6.45	3.23	2.58	L	7.50	9.07	3.0	3.0	86.5	88.5	88.5	0.46	0.58	0.66	1.25	0.62101	31	68	88	52
3	2.2	3510	182HP	7.35	3.68	2.94	K	8.80	4.42	2.5	4.0	82.5	85.5	87.5	0.72	0.82	0.86	1.25	0.19981	43	95	90	69
		1760	182HP	7.80	3.90	3.12	K	8.00	8.81	2.5	3.2	87.5	89.5	89.5	0.60	0.72	0.79	1.25	0.34954	33	73	90	58
		1170	215HP	8.83	4.41	3.53	K	7.00	13.3	2.0	2.8	86.5	88.5	89.5	0.50	0.63	0.70	1.25	119.576	58	128	121	55
5	3.7	3500	184HP	11.7	5.83	4.66	J	8.30	7.45	2.4	3.5	87.5	88.5	89.5	0.77	0.86	0.89	1.25	0.23611	29	64	105	69
		1755	184HP	12.8	6.40	5.12	J	7.80	14.9	2.1	3.0	88.5	90.2	89.5	0.63	0.75	0.81	1.25	0.44494	20	44	99	58
		1160	215HP	13.7	6.83	5.46	H	6.30	22.5	1.9	2.4	88.5	89.5	89.5	0.58	0.70	0.76	1.25	147.174	57	125	162	55
7.5	5.5	3530	213HP	17.3	8.63	6.90	J	8.00	11.0	2.6	3.4	88.5	90.2	91.0	0.72	0.82	0.88	1.25	0.57664	26	57	121	72
		1770	213HP	18.6	9.29	7.43	J	7.50	21.9	2.0	2.4	90.5	91.7	91.7	0.65	0.75	0.81	1.25	137.990	16	35	152	61
		1170	254HP	19.5	9.73	7.78	H	6.80	33.1	2.3	3.1	89.5	91.0	91.0	0.58	0.71	0.78	1.25	391.972	11	24	256	59
10	7.5	3520	215HP	23.1	11.5	9.23	H	7.40	15.0	2.3	2.9	91.0	91.7	91.7	0.80	0.88	0.89	1.25	0.75414	23	51	160	72
		1765	215HP	25.3	12.6	10.1	H	6.70	29.9	2.3	2.6	90.5	91.7	91.7	0.63	0.75	0.81	1.25	156.381	20	44	159	61
		1170	256HP	26.5	13.3	10.6	J	6.90	45.2	2.3	2.9	90.2	91.0	91.0	0.60	0.67	0.78	1.25	443.110	22	48	290	59
15	11	3535	254HP	33.8	16.9	13.5	G	6.50	21.9	2.0	2.7	91.0	91.7	91.7	0.79	0.86	0.89	1.25	125.650	31	68	254	75
		1765	254HP	36.0	18.0	14.4	H	6.60	43.9	2.5	2.5	91.5	92.4	92.4	0.67	0.77	0.83	1.25	261.979	33	73	265	66
20	15	3530	256HP	45.8	22.9	18.3	G	6.20	29.9	2.0	2.5	91.7	92.4	92.4	0.79	0.86	0.89	1.25	153.557	26	57	287	75
		1765	256HP	48.8	24.4	19.5	H	7.00	59.9	2.5	2.5	92.4	93.0	93.0	0.66	0.77	0.83	1.25	309.629	25	55	298	66
25	18.5	3555	284HP	56.8	28.4	22.7	K	9.00	36.7	2.2	2.8	91.7	92.4	93.0	0.78	0.85	0.88	1.25	269.359	58	128	313	75
		3555	284HPH	56.8	28.4	22.7	K	9.00	36.7	2.2	2.8	91.7	92.4	93.0	0.78	0.85	0.88	1.25	269.359	58	128	313	75
		1770	284HP	59.0	29.5	23.6	H	7.00	73.7	2.5	2.7	92.4	93.6	93.6	0.71	0.80	0.84	1.25	510.836	29	64	441	68
		1770	284HPH	59.0	29.5	23.6	H	7.00	73.7	2.5	2.7	92.4	93.6	93.6	0.71	0.80	0.84	1.25	510.836	29	64	441	68
30	22	3530	286HP	66.8	33.4	26.7	H	7.20	43.9	2.4	3.0	91.7	93.0	93.0	0.82	0.87	0.89	1.25	336.705	65	143	388	75
		3530	286HPH	66.8	33.4	26.7	H	7.20	43.9	2.4	3.0	91.7	93.0	93.0	0.82	0.87	0.89	1.25	336.705	65	143	388	75
		1765	286HP	70.3	35.1	28.1	H	7.00	87.8	2.5	2.7	93.0	93.6	93.6	0.70	0.81	0.84	1.25	585.324	24	53	485	68
		1765	286HPH	70.3	35.1	28.1	H	7.00	87.8	2.5	2.7	93.0	93.6	93.6	0.70	0.81	0.84	1.25	585.324	24	53	485	68
40	30	3555	324HP	91.5	45.8	36.6	G	6.60	59.5	2.7	2.7	92.4	93.6	93.6	0.80	0.86	0.88	1.25	489.550	43	95	516	79
		1775	324HP	96.5	48.3	38.6	H	6.70	119	2.3	2.3	93.0	94.1	94.1	0.68	0.79	0.83	1.25	916.239	33	73	595	71
50	37	3550	326HP	111	55.5	44.4	F	6.30	73.5	2.1	2.1	92.4	93.6	94.1	0.82	0.88	0.89	1.25	574.693	33	73	562	79
		1770	326HP	121	60.6	48.5	H	7.00	147	2.6	2.8	93.6	94.5	94.5	0.65	0.76	0.81	1.25	916.239	20	44	617	71
60	45	3560	364HP	137	68.3	54.6	G	6.40	89.1	2.0	2.5	92.4	93.6	94.1	0.79	0.86	0.88	1.25	106.420	60	132	882	83
		1780	364HP	137	68.4	54.7	J	8.10	178	2.5	2.7	94.1	95.0	95.0	0.75	0.84	0.87	1.25	224.206	21	46	926	75
75	55	3560	365HP	162	80.8	64.6	F	6.40	109	2.0	2.4	93.6	94.5	95.0	0.84	0.88	0.90	1.25	11.9189	18	40	915	83
		1775	365HP	165	82.3	65.8	H	7.30	218	2.5	2.7	94.1	95.0	95.4	0.77	0.85	0.88	1.25	23.2509	19	42	937	75
100	75	3550	405HP	220	110	88.1	F	6.30	149	2.0	2.6	93.6	95.0	95.0	0.85	0.89	0.90	1.25	13.1960	21	46	1206	84
		3550	405HPH	220	110	88.1	F	6.30	149	2.0	2.6	93.6	95.0	95.0	0.85	0.89	0.90	1.25	13.1960	21	46	1206	84
		1775	405HP	224	112	89.7	J	8.10	298	2.5	2.8	94.5	95.4	95.4	0.77	0.85	0.88	1.25	29.8941	16	35	1147	75
		1775	405HPH	224	112	89.7	J	8.10	298	2.5	2.8	94.5	95.4	95.4	0.77	0.85	0.88	1.25	29.8941	16	35	1147	75

Three Phase P-Base Motors - TEFC
Mechanical Data - Standard Efficiency & High Efficiency



NEMA FRAMES	AH	AK	AJ	BD	BB	BF	EU	ES	U	S	R	P	AB	C	CH	AA	BEARINGS	
																	D.E.	O.D.E.
143 HP	2.750	8.250	9.125	10.000	0.196	0.433	0.687	1.250	0.875	0.187	0.765	7.047	5.905	13.421	0.708	NPT0.75"	6307-ZZ	6204-ZZ
145 HP														14.397				
182 HP							0.875		1.125	0.250	0.984	8.740	7.086	15.504	1.220	NPT1"	6308-ZZ	6206-ZZ
184 HP														16.504				
213 HP												10.630	8.149	18.630			6309-C3	6207-ZZ
215 HP														20.126				
254 HP												12.283	10.079	23.723	1.850	NPT1.0.5"	6311-C3	6209-C3
256 HP														25.455				
284 HP												14.094	10.866	26.350	2.244		6312-C3	6211-C3
286 HP														27.845				
324 HP	4.500	13.500	14.750	16.500	0.250	0.687	1.250	3.150	1.625	0.375	1.415	15.591	11.496	30.403	2.634	NPT2"	6314-C3	6212-C3
326 HP														31.897				
364/5 HP												18.740	16.380	33.684	3.110	NPT3"	6316-C3	6314-C3
404/5 HP														36.674				
444/5 HP							1.750		2.125	0.500	1.844	23.622	19.213	40.012	3.504	2xNPT3"	*6316-C3	*6314-C3
																	6319-C3	6316-C3
284 HPH							1.250		1.625	0.375	1.415	14.094	10.866	28.100	2.244	NPT1.0.5"	6314-C3	6211-C3
286 HPH														29.595				
404/5 HPH							1.750		2.125	0.500	1.844	18.740	16.380	36.674	3.110	NPT3"	6316-C3	

In-Line Extra Thrust - Three Phase Type LP and LPH - TEFC
Purchasing Data

Standard Features

- Three-phase 2, 4, 6 and 8 poles - 60Hz
- Voltage: 230/460V or 575V
- Squirrel cage / Aluminum die cast
- Totally Enclosed Fan Cooled (IP55)
- Insulation Class “F”
- 104°F (40°C) ambient temperature
- Temperature rise: Class ‘B’ (80°C)
- NEMA Dimensions
- D.E. Ball Bearings with normal clearance
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- Usual mounting: V1 footless
- Cast iron frame
- Aluminum Canopy
- Flange and shaft type LP
- Three eyebolt (frame 254T and up)
- NPT threaded terminal box conduit hole
- Automatic drain plugs
- Service factor: 1.25 up to 100HP
  1.15 above 100HP
- Paint: Enamel alkyd resin base
- Color: Blue - RAL 5007
- WEG paint plan: 201A

Optional Features

- Special voltages
- Painting Plans
- Thermistors, Thermostats or RTD’s (PT100)
- Space heaters
- Auxiliary terminal box
- Class “H” insulation
- Special grease for high or low temperatures
- IP56 Degree of Protection

API 610 Compliant

NEMA MG1 Part 31

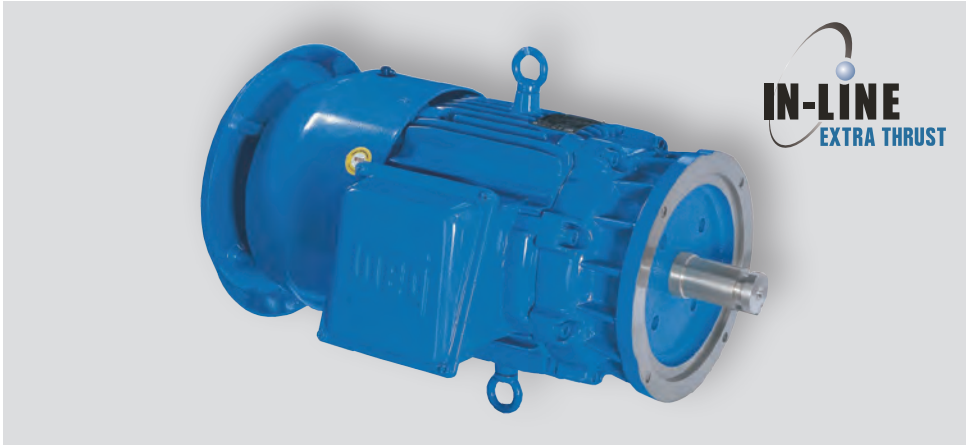
SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty
- Please call for specific ratings

APPROVED BY ® LR 38324

APPROVED BY CSA E EEV 78282



In-Line Extra Thrust - Three Phase Type LP and LPH - TEFC
Purchasing Data

High Efficiency

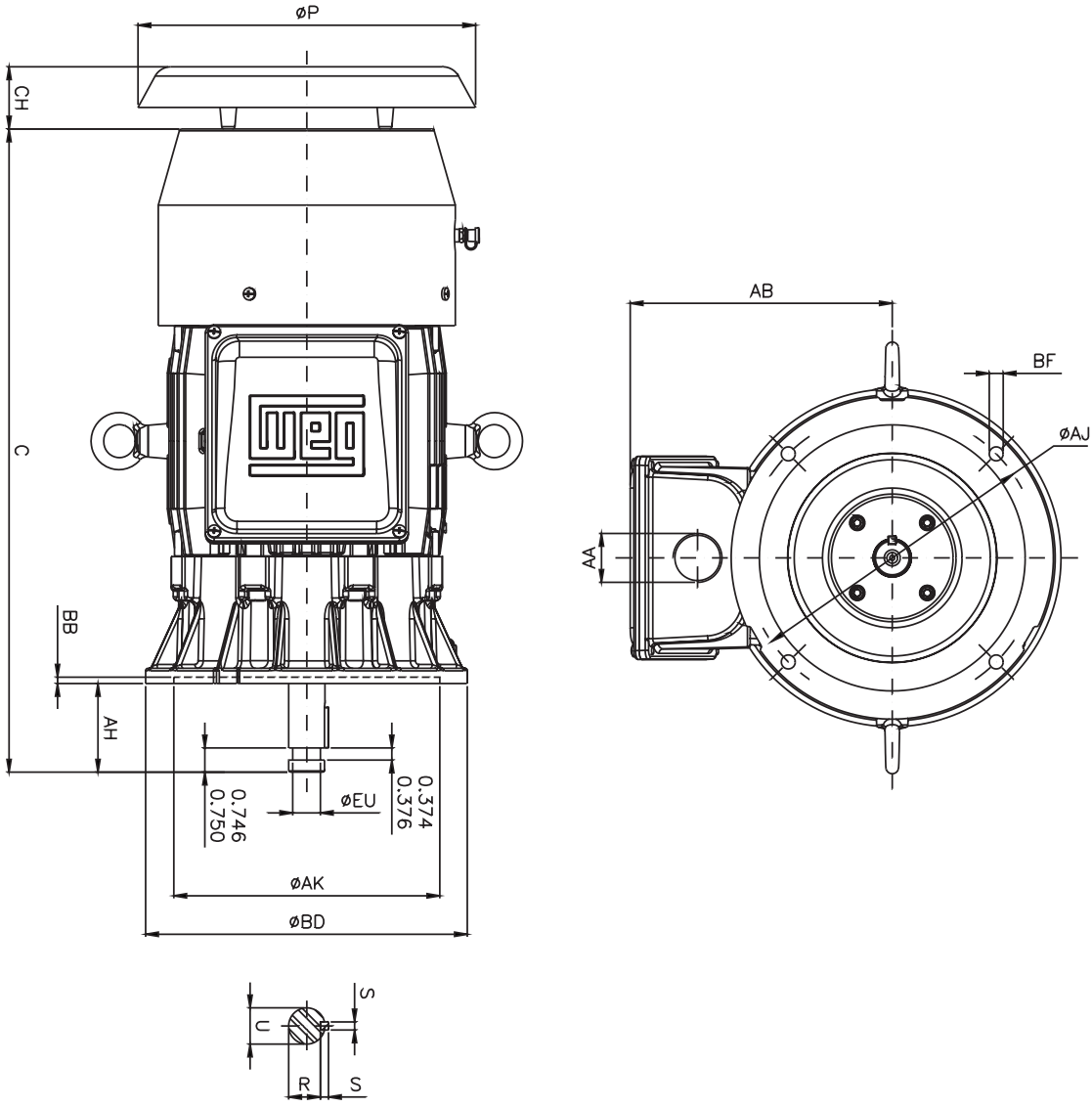
Rated Output		NEMA Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				460V	575V			
1	900	182LP	$1,664	LP000X08P	2.30	1.84	74.0	127	19.350
1.5	1200	182LP	1,619	LP001X06P	2.36	1.89	85.5	127	19.350
	900	184LP	1,786	LP001X08P	2.71	2.17	77.0	143	20.350
2	1200	184LP	1,742	LP002X06P	3.20	2.56	86.5	148	20.350
	900	213LP	2,081	LP002X08P	3.46	2.77	82.5	225	21.670
3	3600	182LP	1,615	LP003X02P	3.71	2.97	85.5	141	19.350
	1800	182LP	1,689	LP003X04P	3.90	3.12	87.5	127	19.350
	1200	213LP	2,130	LP003X06P	4.25	3.40	87.5	214	21.670
	900	215LP	2,257	LP003X08P	4.39	3.51	84.0	240	23.160
5	3600	184LP	1,790	LP005X02P	5.90	4.72	87.5	146	20.350
	1800	184LP	1,702	LP005X04P	6.46	5.17	87.5	146	20.350
	1200	215LP	2,172	LP005X06P	6.80	5.44	87.5	254	23.160
	900	254LP	2,924	LP005X08P	7.20	5.76	85.5	320	26.710
7.5	3600	213LP	2,157	LP007X02P	8.66	6.93	88.5	217	21.670
	1800	213LP	2,107	LP007X04P	9.53	7.62	89.5	214	21.670
	1200	254LP	2,744	LP007X06P	9.53	7.62	89.5	287	26.710
	900	256LP	3,057	LP007X08P	11.2	8.99	86.5	375	28.440
10	3600	215LP	2,250	LP010X02P	11.7	9.35	89.5	225	23.160
	1800	215LP	2,371	LP010X04P	12.8	10.2	90.2	244	23.160
	1200	256LP	2,905	LP010X06P	13.4	10.7	89.5	331	28.440
	900	284LP	3,293	LP010X08P	13.6	10.9	88.5	487	29.410
15	3600	254LP	2,719	LP015X02P	17.0	13.6	90.2	358	26.710
	1800	254LP	2,835	LP015X04P	17.9	14.3	91.0	335	26.710
	1200	284LP	3,519	LP015X06P	17.3	13.8	91.0	487	29.410
	900	286LP	4,038	LP015X08P	19.0	15.2	88.5	518	30.910
20	3600	256LP	3,485	LP020X02P	23.3	18.6	90.2	375	28.440
	1800	256LP	3,399	LP020X04P	24.4	19.5	91.0	394	28.440
	1200	286LP	4,351	LP020X06P	23.5	18.8	91.0	525	30.910
	900	324LP	4,779	LP020X08P	36.0	28.8	89.5	657	32.320
25	3600	284LP	3,935	LP025X02P	29.0	23.2	91.0	455	29.410
	1800	284LP	3,701	LP025X04P	29.6	23.7	92.4	487	29.410
	1200	324LP	4,877	LP025X06P	29.8	23.8	91.7	666	32.320
	900	326LP	5,698	LP025X08P	35.5	28.4	89.5	688	33.820
30	3600	286LP	4,043	LP030X02P	33.8	27.0	91.0	474	30.910
	1800	286LP	4,248	LP030X04P	34.4	27.5	92.4	525	30.910
	1200	326LP	5,744	LP030X06P	35.4	28.3	91.7	695	33.820
	900	364/5LP	7,950	LP030X08P	38.4	30.7	91.0	972	35.930
40	3600	324LP	5,193	LP040X02P	46.1	36.9	91.7	641	32.320
	1800	324LP	4,980	LP040X04P	47.6	38.1	93.0	666	32.320
	1200	364/5LP	7,944	LP040X06P	47.1	37.7	93.0	983	35.930
	900	364/5LP	8,166	LP040X08P	52.8	42.2	91.0	1,155	35.930
50	3600	326LP	5,890	LP050X02P	56.5	45.2	92.4	651	33.820
	1800	326LP	5,974	LP050X04P	57.8	46.2	93.6	699	33.820
	1200	364/5LP	8,223	LP050X06P	58.1	46.5	93.0	1,169	35.930
	900	404/5LP	10,600	LP050X08P	64.9	51.9	91.7	1,125	38.920
60	3600	364/5LP	7,870	LP060X02P	69.0	55.2	93.0	970	35.930
	1800	364/5LP	8,647	LP060X04P	67.0	53.6	93.6	981	35.930
	1200	404/5LP	11,094	LP060X06P	70.1	56.1	93.6	1,195	38.920
	900	404/5LP	11,582	LP060X08P	77.0	61.6	91.7	1,257	38.920
75	3600	364/5LP	8,903	LP075X02P	82.5	66.0	93.0	1,053	35.930
	1800	364/5LP	9,190	LP075X04P	82.4	65.9	94.1	1,109	35.930
	1200	404/5LP	11,531	LP075X06P	86.8	69.4	93.6	1,257	38.920
	900	444/5LP	14,089	LP075X08P	90.5	72.4	93.0	1,852	41.410
100	3600	404/5LP	10,496	LP100X02P	113	90.4	93.6	1,125	38.920
	1800	404/5LP	11,847	LP100X04P	115	91.6	94.5	1,258	38.920
	1200	444/5LP	14,284	LP100X06P	121	96.4	94.1	1,852	41.410
	900	444/5LP	15,736	LP100X08P	123	98.7	93.0	2,051	41.410
125	3600	444/5LP	15,084	LP125X02P	131	105	94.5	1,610	41.410
	1800	444/5LP	14,641	LP125X04P	138	110	94.5	1,703	41.410
	1200	444/5LP	15,572	LP125X06P	141	113	94.1	2,051	41.410
150	3600	444/5LP	15,726	LP150X02P	160	128	94.5	1,902	41.410
	1800	444/5LP	15,876	LP150X04P	168	134	95.0	1,665	41.410

Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

In-Line Extra Thrust - Three Phase Type LP and LPH - TEFC
Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)	Approx. Weight (lb)	Sound dB(A)
												% of full load								Hot		
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100					
1	0.75	875	182LP	4.60	2.30	1.84	M	6.0	5.92	3.0	3.5	68.0	72.0	74.0	0.35	0.45	0.55	1.25	0.39914	40	127	50
1.5	1.1	1165	182LP	4.72	2.36	1.89	L	7.5	6.67	2.9	3.6	81.5	84.0	85.5	0.47	0.58	0.68	1.15	0.39914	36	127	52
		860	184LP	5.42	2.71	2.17	J	5.5	9.04	2.5	2.6	74.0	75.5	77.0	0.47	0.58	0.66	1.25	0.44375	32	143	50
2	1.5	1165	184LP	6.40	3.20	2.56	L	7.5	8.89	3.0	3.0	84.0	86.5	86.5	0.48	0.60	0.68	1.15	0.53226	35	148	52
		870	213LP	6.92	3.46	2.77	L	6.6	11.9	2.4	2.9	78.5	81.5	82.5	0.47	0.58	0.66	1.25	1.1910	43	225	52
3	2.2	3500	182LP	7.42	3.71	2.97	K	8.2	4.44	2.5	4.0	80.0	84.0	85.5	0.74	0.83	0.87	1.15	0.15425	23	141	69
		1765	182LP	7.80	3.90	3.12	K	7.9	8.81	2.3	3.2	85.5	87.5	87.5	0.65	0.75	0.81	1.15	0.28595	31	127	56
		1170	213LP	8.50	4.25	3.40	J	7.0	13.3	2.3	2.5	86.5	87.5	87.5	0.53	0.65	0.74	1.15	1.0118	59	214	55
		860	215LP	8.78	4.39	3.51	J	6.2	18.1	2.0	2.1	82.5	84.0	84.0	0.57	0.69	0.75	1.25	1.7862	30	240	52
5	3.7	3480	184LP	11.8	5.90	4.72	J	7.7	7.44	2.3	3.3	84.0	86.5	87.5	0.80	0.86	0.90	1.15	0.19981	23	146	69
		1750	184LP	12.9	6.46	5.17	J	7.1	14.8	2.1	3.0	85.5	87.5	87.5	0.66	0.77	0.82	1.15	0.38134	21	146	56
		1160	215LP	13.6	6.80	5.44	H	6.1	22.3	1.8	2.1	86.5	87.5	87.5	0.65	0.75	0.78	1.15	1.4717	49	254	55
		875	254LP	14.4	7.20	5.76	H	5.3	29.6	2.0	2.8	82.1	85.0	85.5	0.47	0.60	0.68	1.25	2.8972	37	320	54
7.5	5.5	3515	213LP	17.3	8.66	6.93	H	7.1	11.1	2.2	3.5	85.5	87.5	88.5	0.80	0.87	0.90	1.15	0.48789	26	217	72
		1765	213LP	19.1	9.53	7.62	H	6.4	22	2.0	2.6	87.5	89.5	89.5	0.64	0.75	0.81	1.15	1.0118	21	214	58
		1170	254LP	19.1	9.53	7.62	H	6.8	33.2	2.3	3.1	88.5	89.5	89.5	0.62	0.74	0.81	1.15	2.5564	29	287	59
		875	256LP	22.4	11.2	8.99	G	5.2	44.4	1.9	2.7	83.4	85.9	86.5	0.51	0.63	0.71	1.25	3.4086	41	375	54
10	7.5	3500	215LP	23.4	11.7	9.35	H	6.9	14.8	2.2	2.8	88.5	89.5	89.5	0.81	0.88	0.90	1.15	0.57664	20	225	72
		1760	215LP	25.6	12.8	10.2	H	6.5	29.4	2.0	2.6	88.5	90.2	90.2	0.67	0.78	0.82	1.15	1.3799	17	244	58
		1175	256LP	26.8	13.4	10.7	J	6.9	44.1	2.3	2.9	88.5	89.5	89.5	0.58	0.72	0.79	1.15	2.8972	22	331	59
		885	284LP	27.2	13.6	10.9	H	6.0	58.5	2.5	2.4	86.5	88.5	88.5	0.60	0.72	0.78	1.25	7.1992	54	487	54
15	11	3520	254LP	34.0	17.0	13.6	G	6.3	22.1	2.0	2.7	88.5	90.2	90.2	0.83	0.89	0.90	1.15	1.2565	28	358	75
		1760	254LP	35.8	17.9	14.3	G	6.4	44.2	2.5	2.5	89.5	91.0	91.0	0.70	0.80	0.85	1.15	2.3818	27	335	69
		1180	284LP	34.6	17.3	13.8	G	6.7	65.9	2.3	2.5	89.5	90.2	91.0	0.79	0.85	0.88	1.15	7.1992	21	487	59
		880	286LP	38.0	19.0	15.2	G	6.1	88.3	2.4	2.3	86.5	88.5	88.5	0.68	0.78	0.82	1.25	8.1809	37	518	54
20	15	3520	256LP	46.6	23.3	18.6	G	6.2	29.4	2.0	2.5	89.5	90.2	90.2	0.86	0.90	0.90	1.15	1.5358	21	375	75
		1755	256LP	48.8	24.4	19.5	G	5.9	59	2.4	2.4	89.5	91.0	91.0	0.72	0.81	0.85	1.15	2.8580	18	394	69
		1175	286LP	47.0	23.5	18.8	G	6.3	88.2	2.3	2.5	90.2	91.0	91.0	0.80	0.86	0.88	1.15	8.1809	31	525	59
		880	324LP	72.0	36.0	28.8	G	5.3	118	2.2	2.2	87.5	89.5	89.5	0.56	0.68	0.75	1.25	9.7905	34	657	56
25	18.5	3525	284LP	58.0	29.0	23.2	G	6.2	36.7	2.0	2.5	90.2	91.0	91.0	0.84	0.87	0.88	1.15	2.2895	23	455	75
		1760	284LP	59.2	29.6	23.7	G	6.1	73.6	2.2	2.5	91.7	92.4	92.4	0.72	0.82	0.85	1.15	4.6826	25	487	68
		1175	324LP	59.6	29.8	23.8	G	5.9	110	2.2	2.4	89.5	91.7	91.7	0.72	0.81	0.85	1.15	10.216	33	666	62
		880	326LP	71.0	35.5	28.4	G	5.1	147	2.4	2.4	87.5	88.5	89.5	0.53	0.65	0.73	1.25	11.919	29	688	56
30	22	3520	286LP	67.6	33.8	27.0	G	6.4	44.2	1.9	2.3	90.2	91.0	91.0	0.84	0.88	0.90	1.15	2.8284	19	474	75
		1755	286LP	68.8	34.4	27.5	G	6.3	88.6	2.4	2.6	92.4	93.0	92.4	0.75	0.83	0.87	1.15	5.3212	22	525	68
		1175	326LP	70.8	35.4	28.3	G	6.1	132	2.3	2.5	90.2	91.7	91.7	0.70	0.80	0.85	1.15	11.919	27	695	62
		885	364/5LP	76.8	38.4	30.7	G	5.7	176	2.2	2.2	89.5	91.0	91.0	0.66	0.75	0.79	1.25	23.455	48	972	60
40	30	3550	324LP	92.2	46.1	36.9	G	6.4	58.4	2.3	2.4	91.0	91.7	91.7	0.84	0.88	0.89	1.15	4.8955	36	641	81
		1770	324LP	95.2	47.6	38.1	G	6.0	117	2.3	2.3	91.7	93.0	93.0	0.76	0.83	0.85	1.15	7.8534	28	666	71
		1175	364/5LP	94.2	47.1	37.7	G	6.3	176	2.3	2.3	92.4	93.0	93.0	0.76	0.83	0.86	1.15	23.455	35	983	65
		885	364/5LP	106	52.8	42.2	G	5.6	234	2.2	2.2	89.5	91.0	91.0	0.66	0.75	0.79	1.25	29.040	42	1155	60
50	37	3555	326LP	113	56.5	45.2	G	6.5	72.9	2.3	2.3	91.0	92.4	92.4	0.83	0.88	0.89	1.15	5.3212	33	651	81
		1770	326LP	116	57.8	46.2	G	6.1	146	2.3	2.3	92.4	93.6	93.6	0.77	0.83	0.86	1.15	9.1626	25	699	71
		1180	364/5LP	116	58.1	46.5	G	6.3	220	2.5	2.7	92.4	93.0	93.0	0.74	0.82	0.86	1.15	29.040	39	1169	65
		885	404/5LP	130	64.9	51.9	G	5.6	293	2.2	2.1	90.2	91.7	91.7	0.69	0.75	0.78	1.25	34.625	27	1125	60
60	45	3555	364/5LP	138	69.0	55.2	G	6.3	87.4	2.0	2.5	91.0	92.4	93.0	0.80	0.87	0.88	1.15	8.5134	61	970	85
		1775	364/5LP	134	67.0	53.6	G	6.4	175	2.0	2.3	93.0	93.6	93.6	0.80	0.87	0.90	1.15	17.438	23	981	75
		1180	404/5LP	140	70.1	56.1	G	6.3	263	2.5	2.7	93.0	93.6	93.6	0.74	0.83	0.86	1.15	34.625	32	1195	65
		885	404/5LP	154	77.0	61.6	G	5.8	351	1.7	2.1	91.0	91.7	91.7	0.70	0.76	0.80	1.25	36.859	13	1257	60
75	55	3550	364/5LP	165	82.5	66.0	G	6.5	109	2.0	2.6	92.4	93.0	93.0	0.83	0.89	0.90	1.15	10.642	18	1053	85
		1775	364/5LP	165	82.4	65.9	G	6.5	219	2.2	2.4	94.1	94.1	94.1	0.79	0.86	0.88	1.15	19.929	22	1109	75
		1175	404/5LP	174	86.8	69.4	G	6.3	331	2.5	2.6	93.0	93.6	93.6	0.72	0.81	0.85	1.15	36.858	23	1257	65
		890	444/5LP	181	90.5	72.4	G	6.1	437	1.7	2.1	91.7	92.4	93.0	0.66	0.76	0.80	1.25	73.625	28	1852	63
100	75	3550	404/5LP	226	113	90.4	G	6.4	146	2.0	2.4	91.7	93.6	93.6	0.84	0.88	0.89	1.15	11.919	38	1125	85
		1775	404/5LP	230	115	91.6	G	6.3	292	2.1	2.2	93.6	94.5	94.5	0.80	0.86	0.87	1.15	27.403	18	1258	75
		1185	444/5LP	242	121	96.4	G	6.0	437	2.2	2.6	93.0	94.1	94.1	0.70	0.80	0.83	1.15	73.625	29	1852	70
		890	444/5LP	246	123	98.7	G	6.1	582	1.7	2.0	92.4	93.0	93.0	0.71	0.79	0.82	1.25	87.260	29	2051	63
125	90	3560	444/5LP	262	131	105	G	6.6	182	2.0	2.5	92.4	94.1	94.5	0.84	0.90	0.91	1.15	27.923	40	1610	86
		1780	444/5LP	276	138	110	G	6.4	364	2.0	2.2	93.6	94.5	94.5	0.77	0.84	0.87	1.15	45.730	27	1703	76
		1185	444/5LP	282	141	113	G	6.3	547	2.1	2.3	93.6	94.1	94.1	0.74	0.80	0.85	1.15	87.260	22	2051	70
150	110	3575	444/5LP	320	160	128	G	6.7	217	2.0	2.5	93.0	94.1	94.5	0.83	0.88	0.91	1.15	33.508	38	1902	86
		1780	444/5LP	336	168	134	G	6.4	437	2.2	2.3	94.1	95.0	95.0	0.78	0.84	0.87	1.15	57.163	27	1665	76

In-Line Extra Thrust - Three Phase Type LP and LPH - TEFC
Mechanical Data



NEMA FRAMES	AH	AK	AJ	BD	BB	BF	EU	ES	U	S	R	P	AB	C	CH	AA	BEARINGS	
																	D.E.	O.D.E.
182 LP	2.750	8.250	9.125	10.000	0.196	0.440	0.875	1.280	1.125	0.250	0.984	10.472	8.228	19.350	1.929	NPT1"	6206	2x7306
184 LP														20.354				
213 LP							1.250		1.625	0.375	1.406	12.165	9.331	21.665			6309	
215 LP														23.161				
254 LP												13.071	10.000	26.705	2.323	NPT1.0.5"		2x7309
256 LP														28.437				
284 LP	4.500	13.500	14.750	16.500	0.250	0.687	1.750	3.150	2.125	0.500	1.845	14.961	10.787	29.409	2.716		6212	2x7310
286 LP														30.906				
324 LP												17.087	11.732	32.323	3.189	NPT2"		
326 LP														33.819				
364/5 LP												21.417	16.693	35.925	3.583	NPT3"	6314	2x7311
404/5 LP														38.917				*2x7311
																		2x7315
444/5 LP												26.850	19.843	41.909		2xNPT3"		*2x7311
																		2x7315

Three Phase Oil Well Pumping Motors - TEFC - Triple Rated
Purchasing Data

Standard Features

- Three-phase 6 pole - 60Hz
- Voltage: 460V
- Triple rated
- High starting and breakdown torque NEMA Design 'D' 5 - 8% slip)
- Squirrel cage / Aluminum die cast
- Totally Enclosed Fan Cooled (IP55)
- Insulation Class "F"
- Temperature rise: Class 'B' (80°C)
- 104°F (40°C) ambient temperature
- NEMA Dimensions
- Altitude: 3300 ft (1000 m)
- Continuous duty (S1)
- 1045 carbon steel shaft
- F2 Mount
- Cast iron frame
- NPT threaded terminal box conduit hole
- Plastic drain plugs
- Service factor: 1.15
- Regreasable bearings system
- V-ring slingers on both endshields
- Stainless steel nameplate
- Paint: Enamel alkyd resin base
- Color: RAL 9010 (white)
- WEG paint plan: 201A

Optional Features

- Special voltages
- Other mountings
- Specially designed shaft
- Space heaters
- Second shaft end
- Thermostats or RTD's (PT100)
- Auxiliary terminal box
- Stainless steel shaft
- Other speeds

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- Please call for specific ratings

APPROVED BY LR 38324

APPROVED BY CSA E EEV 78282

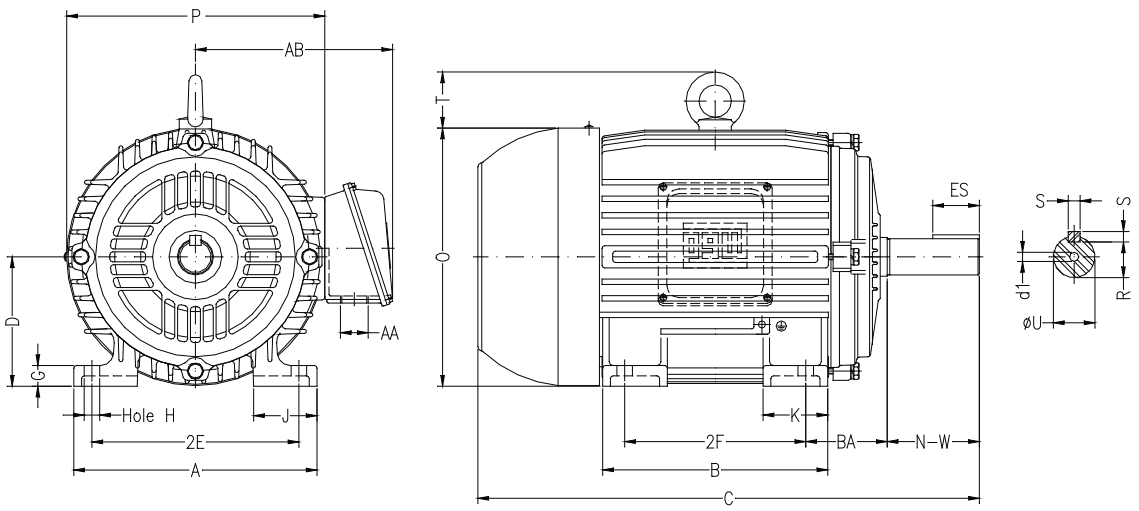
Three Phase Oil Well Pumping Motors - TEFC - Triple Rated
Purchasing Data

Rated Output		NEMA Frame	List Price	Part Number	Full Load Current	Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)	Shaft Diameter "U" Dimension (in.)
HP	RPM				460V				
10/7,5/5	1120/1120/1120	256T	$ 1,926	OT010406	12.7/9.51/6.40	84.0/82.5/82.5	286	24.945	1,625
15/10/7,5	1125/1125/1120	284T	2,520	OT015406	18.3/12.5/9.30	84.0/84.0/82.5	396	26.433	1,875
20/15/10	1120/1115/1125	286T	3,064	OT020406	25.2/18.6/12.6	84.0/82.5/84.0	429	27.929	1,875
25/20/15	1115/1115/1115	324T	3,998	OT025406	30.2/24.7/18.1	87.5/85.5/85.5	532	29.620	2,125
30/25/20	1120/1120/1120	326T	4,651	OT030406	35.5/30.2/24.9	88.5/85.5/84.0	602	31.116	2,125
40/30/25	1130/1130/1130	364/5T	6,077	OT040406	48.4/35.9/30.7	88.5/85.5/84.0	800	33.709	2,375
50/40/30	1130/1130/1130	404/5T	7,535	OT050406	59.0/49.3/36.8	86.5/84.0/85.5	1,065	38.077	2,875
60/50/40	1135/1120/1100	444/5T	11,944	OT060406	73.4/61.0/50.4	88.5/86.5/84.0	1,435	43.878	3,375
75/60/50	1135/1120/1100	444/5T	15,985	OT075406	87.6/71.7/62.1	88.5/87.5/84.0	1,554	43.878	3,375
100/75/60	1130/1125/1105	444/5T	18,691	OT100406	118/87.7/74.2	88.5/87.5/85.5	1,720	43.878	3,375

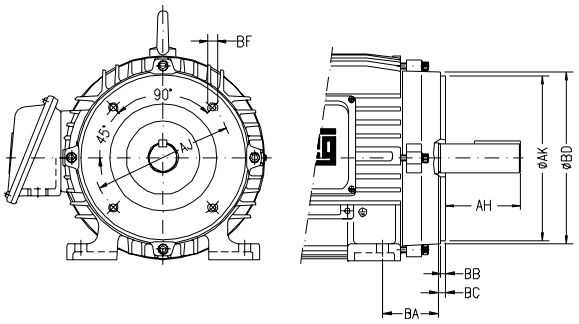
Three Phase Oil Well Pumping Motors - TEFC - Triple Rated
Electrical Data

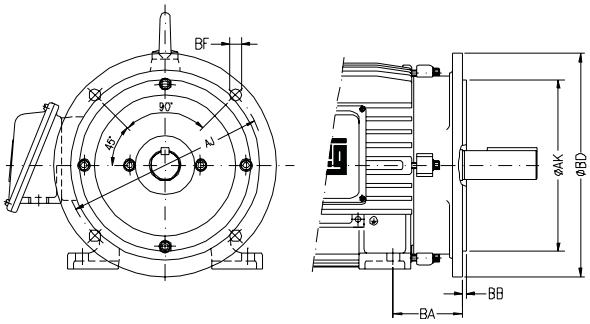
Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_r/T_n)	Locked Rotor Current (A)		Efficiency	Power Factor Cos	Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Approx. Weight (lb)
									% of full load				
HP	kW			460V			(kVA Code)	(I_r/I_n)	100	100			
10/7.5/5	7.5/5.5/3.7	1120/1120/1120	256T	12.7/9.51/6.40	46.0/34.9/23.4	3.0/2.1/1.7	H	6.4/5.3/4.8	84.0/82.5/82.5	0.88/0.88/0.88	1.15	3.9197	286
15/10/7.5	11/7.5/5.5	1125/1125/1120	284T	18.3/12.5/9.30	70.0/46.7/35.3	3.1/2.6/2.1	G	6.3/5.8/5.0	84.0/84.0/82.5	0.90/0.90/0.90	1.15	7.1990	396
20/15/10	15/11/7.5	1120/1115/1125	286T	25.2/18.6/12.6	94.0/71.0/46.7	3.1/2.4/2.4	H	6.7/---/5.3	84.0/82.5/84.0	0.89/0.90/0.89	1.15	7.8534	429
25/20/15	18.5/15/11	1115/1115/1115	324T	30.2/24.7/18.1	115/93.3/70.3	2.9/2.1/1.8	H	6.6/5.3/4.7	87.5/85.5/85.5	0.88/0.89/0.89	1.15	10.216	532
30/25/20	22/18.5/15	1120/1120/1120	326T	35.5/30.2/24.9	137/116/94.8	3.0/2.1/1.7	H	6.9/5.2/4.3	88.5/85.5/84.0	0.88/0.90/0.90	1.15	11.919	602
40/30/25	30/22/18.5	1130/1130/1130	364/5T	48.4/35.9/30.7	182/140/119	3.0/2.3/1.7	J	7.6/5.2/4.1	88.5/85.5/84.0	0.88/0.90/0.90	1.15	23.455	800
50/40/30	37/30/22	1130/1130/1130	404/5T	59.0/49.3/36.8	232/190/143	3.1/2.3/1.9	G	6.3/4.9/4.2	86.5/84.0/85.5	0.91/0.91/0.91	1.15	34.624	1,065
60/50/40	45/37/30	1135/1120/1100	444/5T	73.4/61.0/50.4	274/231/188	2.9/2.1/1.6	G	6.3/5.0/4.0	88.5/86.5/84.0	0.87/0.88/0.89	1.15	62.718	1,435
75/60/50	55/45/37	1135/1120/1100	444/5T	87.6/71.7/62.1	342/278/235	3.0/2.2/1.6	G	6.7/5.3/4.0	88.5/87.5/84.0	0.89/0.90/0.89	1.15	73.625	1,554
100/75/60	75/55/45	1130/1125/1105	444/5T	118/87.7/74.2	459/345/281	2.9/2.4/1.7	G	6.4/5.6/4.3	88.5/87.5/85.5	0.90/0.90/0.89	1.15	92.713	1,720

Three Phase Oil Well Pumping Motors - TEFC - Triple Rated
Mechanical Data



NEMA Frames	Mounting				A	B	C	D	G	J	K	O	P	T	Keyway			Shaft Extension		AB	AA	d1	Bearings	
	2E	2F	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.
256T	10.000	10.000	0.531	4.250	12.126	11.732	24.945	6.250	0.817	2.520	2.559	12.431	12.283	2.087	0.375	1.406	2.756	4.000	1.625	10.079	NPT1.0.5"	A4	6309-C3	6209-C3
284T	11.000	9.500		4.750	13.780	11.575	26.433	7.000	1.016	3.150	2.953	14.067	14.094		0.500	1.594	3.150	4.622	1.875	10.866			6311-C3	6211-C3
286T		11.000				13.071	27.929																	
324T	12.500	10.500	0.657	5.250	15.157		29.620	8.000	1.307	3.228	3.346	15.953	15.591	2.441		1.844	3.937	5.250	2.125	11.496	NPT2"		6312-C3	6212-C3
326T		12.000				14.567	31.116																	
364/5T	14.016	11.260	0.748	5.875	17.165	15.394	33.709	9.000	1.480	3.150	4.134	18.502	18.740	2.795	0.625	2.019	4.330	5.874	2.375	16.380	NPT3"	UNC0.75"	6314-C3	6314-C3
404/5T	15.984	12.244	0.807	6.625	19.921	17.677	38.077	10.000	1.811	3.937	5.433	19.496			0.750	2.449	5.512	7.250	2.875				NU316-C3	
444/5T	18.000	14.500		7.500	21.929	20.079	43.878	11.000	1.630		5.591	22.023	23.819	5.260	0.875	2.880	7.087	8.500	3.375	18.500			NU319-C3	6316-C3





"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
256TC	4.250	7.250	8.500	8.875	4	UNC0.5"x13	0.250	0.250	3.750
284TC	4.750	9.000	10.500	11.031					4.375
286TC									4.375
324TC	5.250	11.000	12.500	13.583		UNC5/8"x11			5.000
326TC									5.000
364/5TC	5.875			15.551	8				5.625
404/5TC	6.625								7.000
444/5TC	7.500	14.000	16.000	17.913					8.250

"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
256TD	4.250	12.500	11.000	14.000	4	0.828	0.203
284TD	4.750						
286TD							
324TD	5.250	16.000	14.000	18.000			
326TD							
364/5TD	5.875			17.716			
404/5TD	6.625	20.000	18.000	22.000	8		
444/5TD	7.500			21.653			

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Purchasing Data

Standard Features

- Three-phase 2, 4, 6, & 8 poles - 60Hz & 50Hz
- Voltage: 460//220-240/380-415V (frames 63 to 100L)
  460//380-415V (frames 112M to 355M/L)
- Squirrel cage rotor / Aluminum die cast
- V'Ring seal for frames 63 to 200L and WSeal® for frames 225S/M to 355M/L
- Ball bearings are supplied as standard
- 1040/45 heat treated and stress relieved carbon steel shaft (4140 for 404/5T upwards in 4, 6 and 8 pole motors)
- Class "F" (DT 80K) insulation for all frames
- Continuous flow insulation system with class "H" wire
- Temperature rise limited to Class "B" (80K)
- Design "N"
- Continuous duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000m)
- Metric threaded cable entries on the terminal box
- Stainless steel nameplate AISI 316 with laser etching
- Paint: Synthetic enamel alkyd resin base (240 hours minimum ASTM B117 salt spray test)
- Color: RAL 5009 - Blue
- Fitted with closed rubber drain plug
- Regreasable bearings, with grease fittings in DE and NDE bearings
- Gasketed conduit box
- Suitable for inverter applications

Optional Features

- Flanges
- Class 'H' insulation
- Taconite labyrinth seal
- Cable glands
- Space heaters
- Double shaft end
- Thermistors, Thermostats or RTD's (PT100)
- Drip cover (canopy) for shaft down applications
- Auxiliary terminal box
- Special painting plans for hostile evironments
- Roller bearings on drive end
- Special bearings
- Terminal blocks

SPIKE RESISTANT WISE WIRE

INVERTER RATED

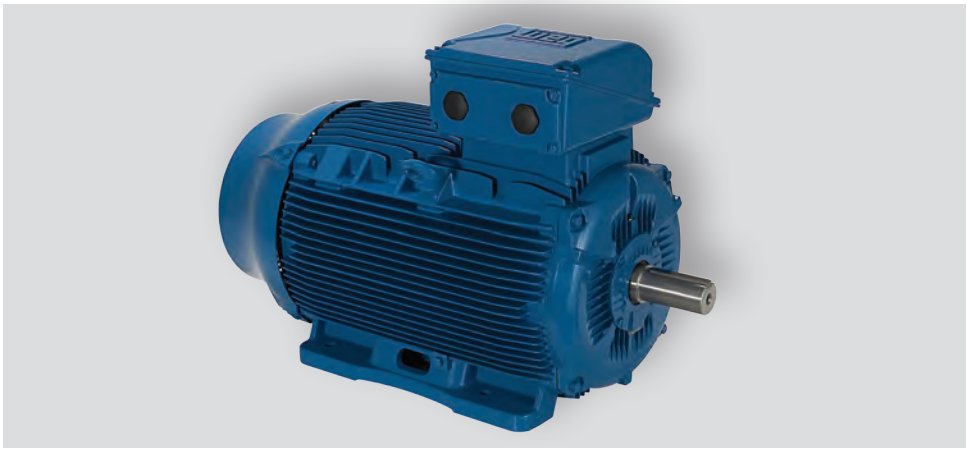
Inverter Duty
- Please call for specific ratings

APPROVED BY

APPROVED BY

LR 38324

EEV 78282



W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Purchasing Data

Cast Iron Frame

Rated Output			IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM				460V	575V			
0.75	1	3600	80	442	ME000X02W2280	1.43	1.14	81.5	29.8	276
		1800	90S	466	ME000X04W2290S	1.41	1.13	85.5	40.8	304
		1200	L90L	621	ME000X06W22L90L	1.68	1.34	82.5	55.1	360
		900	100L	977	ME000X08W22100L	2.11	1.69	75.5	67.3	376
1.1	1.5	3600	80	476	ME001X02W2280	2.03	1.62	84.0	33.1	276
		1800	90S	494	ME001X04W2290S	2.05	1.64	86.5	43.0	304
		1200	112M	981	ME001X06W22112M	2.29	1.83	87.5	85.8	329
		900	100L	1067	ME001X08W22100L	2.98	2.38	78.5	72.8	376
1.5	2	3600	90S	569	ME002X02W2290S	2.69	2.15	85.5	40.8	304
		1800	90L	623	ME002X04W2290L	2.79	2.23	86.5	50.7	329
		1200	112M	695	ME002X06W22112M	3.08	2.46	88.5	92.4	329
		900	112M	1,632	ME002X08W22112M	3.57	2.86	82.5	94.8	393
2.2	3	3600	90L	619	ME003X02W2290L	3.85	3.08	86.5	51.8	329
		1800	100L	650	ME003X04W22100L	4.05	3.24	87.5	69.5	376
		1200	132S	1,008	ME003X06W22132S	4.41	3.53	89.5	139	452
		900	132S	1,867	ME003X08W22132S	4.70	3.76	84.0	152	452
3	4	3600	100L	815	ME004X02W22100L	5.01	4.01	88.5	70.6	376
		1800	112M	837	ME004X04W22112M	5.33	4.26	89.5	94.6	329
		1200	132S	1,095	ME004X06W22132S	6.01	4.81	89.5	135	452
		900	132M	2,685	ME004X08W22132M	6.29	5.03	85.5	165	490
4	5.5	3600	112M	943	ME5.5X02W22112M	6.67	5.34	88.5	90.4	393
		1800	112M	931	ME5.5X04W22112M	7.10	5.68	89.5	97.0	393
		1200	132M	1,177	ME5.5X06W22132M	7.90	6.32	89.5	146	490
		900	160M	2,825	ME5.5X08W22160M	8.17	6.54	86.5	251	598
5.5	7.5	3600	132S	1,117	ME007X02W22132S	8.97	7.18	89.5	143	452
		1800	132S	1,144	ME007X04W22132S	9.07	7.26	91.7	152	452
		1200	132M/L	1,724	ME007X06W22132M/L	10.8	8.64	91.0	176	515
		900	160M	2,976	ME007X08W22160M	11.1	8.88	87.5	271	598
7.5	10	3600	132S	1,258	ME010X02W22132S	12.3	9.84	90.2	152	452
		1800	132M	1,269	ME010X04W22132M	12.2	9.76	91.7	172	490
		1200	160M	1,724	ME010X06W22160M	13.1	10.5	91.0	269	598
		900	160L	3,923	ME010X08W22160L	15.2	12.2	88.5	320	642
11	15	3600	160M	1,754	ME015X02W22160M	17.9	14.3	91.7	254	598
		1800	160M	1,611	ME015X04W22160M	18.2	14.6	92.4	271	598
		1200	160L	2,611	ME015X06W22160L	18.8	15.0	91.7	315	642
		900	180L	4,544	ME015X08W22180L	19.5	15.6	89.5	408	702
15	20	3600	160M	2,052	ME020X02W22160M	24.4	19.5	91.7	262	598
		1800	160L	2,070	ME020X04W22160L	25.0	20.0	93.0	320	642
		1200	180L	2,824	ME020X06W22180L	24.7	19.8	91.7	426	702
		900	200L	5,370	ME020X08W22200L	28.0	22.4	91.0	518	767
18.5	25	3600	160L	2,790	ME025X02W22160L	29.9	23.9	92.4	300	642
		1800	180M	2,846	ME025X04W22180M	30.6	24.5	93.6	397	664
		1200	200L	3,396	ME025X06W22200L	30.8	24.6	93.0	492	767
		900	225S/M	9,049	ME025X08W22225S/M	31.6	25.3	93.0	831	886
22	30	3600	180M	3,335	ME030X02W22180M	34.7	27.8	92.4	388	664
		1800	180L	3,023	ME030X04W22180L	36.0	28.8	93.6	437	702
		1200	200L	3,813	ME030X06W22200L	37.1	29.7	93.0	529	767
		900	225S/M	9,500	ME030X08W22225S/M	37.6	30.1	93.0	886	886
30	40	3600	200L	4,370	ME040X02W22200L	47.1	37.7	93.0	538	767
		1800	200L	4,227	ME040X04W22200L	49.4	39.5	94.1	536	767
		1200	225S/M	5,862	ME040X06W22225S/M	47.6	38.1	94.1	884	886
		900	250S/M	10,323	ME040X08W22250S/M	50.9	40.7	93.6	1080	965
37	50	3600	200L	4,945	ME050X02W22200L	57.7	46.2	93.6	584	767
		1800	225S/M	6,066	ME050X04W22225S/M	58.5	46.8	94.5	864	886
		1200	250S/M	8,954	ME050X06W22250S/M	58.8	47.0	94.1	1072	965
		900	280S/M	19,269	ME050X08W22280S/M	64.1	51.3	94.1	1484	1,071
45	60	3600	225S/M	6,798	ME060X02W22225S.M	66.7	53.4	94.1	917	886
		1800	225S/M	6,468	ME060X04W22225S/M	69.9	55.9	95.0	926	886
		1200	280S/M	11,140	ME060X06W22280S/M	74.7	59.8	94.5	1495	1,071
		900	280S/M	20,286	ME060X08W22280S/M	77.0	61.6	94.1	1634	1,071
55	75	3600	250S/M	9,144	ME075X02W22250S/M	80.3	64.2	94.5	1069	965
		1800	250S/M	8,637	ME075X04W22250S/M	85.1	68.1	95.4	1118	965
		1200	280S/M	12,964	ME075X06W22280S/M	90.2	72.2	94.5	1594	1,071
		900	315S/M	23,595	ME075X08W22315S/M	93.7	75.0	94.5	2064	1,274
75	100	3600	280S/M	13,241	ME100X02W22280S/M	111	88.8	94.5	1603	1,071
		1800	280S/M	12,076	ME100X04W22280S/M	116	92.8	95.4	1607	1,071
		1200	315S/M	13,646	ME100X06W22315S/M	122	97.6	95.0	2121	1,274
		900	315S/M	24,777	ME100X08W22315S/M	127	102	95.0	2313	1,274
90	125	3600	280S/M	14,183	ME125X02W22280S/M	132	106	95.0	1680	1,071
		1800	280S/M	12,990	ME125X04W22280S/M	139	111	95.4	1713	1,071
		1200	315S/M	16,974	ME125X06W22315S/M	146	117	95.4	2311	1,274
		900	315S/M	26,017	ME125X08W22315S/M	152	122	95.0	2534	1,274

Flange: Replace 'E' with 'C' for C or C Din flange
Replace 'E' with 'A' for A (B5) flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Purchasing Data

Cast Iron Frame

Rated Output			IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM				460V	575V			
110	150	3600	315S/M	18,384	ME150X02W22315S/M	163	130	95.0	2121	1,274
		1800	315S/M	16,354	ME150X04W22315S/M	170	136	95.8	2227	1,274
		1200	315S/M	17,868	ME150X06W22315S/M	178	142	95.8	2439	1,274
		900	315S/M	30,700	ME150X08W22315S/M	186	149	95.4	3007	1,274
132	175	3600	315S/M	20,885	ME175X02W22315S/M	193	154	95.4	2311	1,274
		1800	315S/M	17,385	ME175X04W22315S/M	203	162	96.2	2414	1,274
		1200	315S/M	30,710	ME175X06W22315S/M	214	171	95.8	2624	1,274
		900	315L	50,655	ME175X08W22315L	223	178	95.4	3325	1,383
150	200	3600	315S/M	22,990	ME200X02W22315S/M	219	175	95.4	2401	1,274
		1800	315S/M	18,144	ME200X04W22315S/M	228	182	96.2	2478	1,274
		1200	315S/M	28,995	ME200X06W22315S/M	240	192	95.8	3010	1,383
185	250	3600	315S/M	23,933	ME250X02W22315S/M	269	215	95.8	2639	1,274
		1800	315S/M	21,580	ME250X04W22315S/M	284	227	96.2	2695	1,274
		1200	355M/L	34,196	ME250X06W22355M/L	311	249	95.6	3674	1,482
		900	355M/L	58,724	ME250X08W22355M/L	311	249	95.8	4011	1,482
220	300	3600	315L	32,667	ME300X02W22315L	315	252	96.2	3021	1,383
		1800	355M/L	29,096	ME300X04W22355M/L	342	274	96.2	3427	1,482
		1200	355M/L	37,119	ME300X06W22355M/L	370	296	95.6	4088	1,482
260	350	1800	315L	34,675	ME350X04W22315L	384	307	96.2	3367	1,383
		1200	355M/L	43,539	ME350X06W22355M/L	436	349	95.9	4344	1,482
280	480	1200	355M/L	47,305	ME380X06W22355M/L	469	375	96.0	4344	1,482

Flange: Replace 'E' with 'C' for C or C Din flange
Replace 'E' with 'A' for A (B5) flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

Cast Iron Frames - 60 Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)			Locked Rotor Current (A)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load										
kW	HP			230V	460V	575V	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
0.75	1	3450	80	2.86	1.43	1.14	7.5	1.85	3.1	3.1	75.5	80.0	81.5	0.62	0.74	0.81	0.0180	25	55	29.8	59.0
		1760	90S	2.82	1.41	1.13	7.8	3.57	2.1	2.9	80.0	82.5	85.5	0.57	0.70	0.78	0.1163	21	46	40.8	49.0
		1155	L90L	3.36	1.68	1.34	5.0	5.51	2.2	2.5	77.0	81.5	82.5	0.46	0.59	0.68	0.0000	26	57	55.1	45.0
		860	100L	4.22	2.11	1.69	4.6	7.35	1.6	2.0	70.0	74.0	75.5	0.38	0.50	0.59	0.3014	30	66	67.3	50.0
1.1	1.5	3450	80	4.06	2.03	1.62	7.4	2.77	3.3	3.2	78.5	81.5	84.0	0.62	0.74	0.81	0.0356	23	51	33.1	59.0
		1760	90S	4.10	2.05	1.64	7.6	5.36	2.2	2.9	80.0	84.0	86.5	0.57	0.70	0.78	0.1305	15	33	43.0	49.0
		1165	112M	4.58	2.29	1.83	6.7	6.67	2.5	3.4	82.5	85.5	87.5	0.49	0.61	0.69	0	46	101	85.8	52.0
		860	100L	5.96	2.98	2.38	4.6	11.1	1.7	2.1	74.0	75.5	78.5	0.38	0.50	0.59	0.3393	30	66	72.8	50.0
1.5	2	3485	90S	5.38	2.69	2.15	7.6	3.62	2.9	2.9	80.0	82.5	85.5	0.64	0.75	0.82	0.0475	15	33	40.8	62.0
		1755	90L	5.58	2.79	2.23	7.4	7.17	2.3	3.0	82.5	85.5	86.5	0.56	0.69	0.78	0.1566	13	29	50.7	49.0
		1165	112M	6.15	3.08	2.46	6.8	8.92	2.3	3.1	82.5	86.5	88.5	0.49	0.61	0.69	0	45	99	92.4	52.0
		855	112M	7.14	3.57	2.86	5.0	14.8	2.2	2.4	77.0	80.0	82.5	0.44	0.57	0.64	0.5648	28	62	94.8	46.0
2.2	3	3480	90L	7.70	3.85	3.08	7.5	5.44	3.0	3.1	84.0	85.5	86.5	0.64	0.76	0.83	0.0617	12	26	51.8	62.0
		1745	100L	8.10	4.05	3.24	7.4	10.9	2.8	3.0	84.0	86.5	87.5	0.58	0.71	0.78	0.2136	18	40	69.5	53.0
		1175	132S	8.82	4.41	3.53	5.1	16.1	1.5	2.4	84.0	87.5	89.5	0.49	0.62	0.70	0.0000	30	66	139	53.0
		860	132S	9.40	4.70	3.76	6.2	22.0	1.9	2.1	78.5	82.5	84.0	0.49	0.62	0.70	1.64	27	59	152	48.0
3	4	3510	100L	10.0	5.01	4.01	8.5	7.15	3.0	3.0	82.5	86.5	88.5	0.68	0.79	0.85	0.1519	15	33	70.6	67.0
		1760	112M	10.7	5.33	4.26	7.6	11.8	2.4	3.6	86.5	88.5	89.5	0.59	0.72	0.79	0.4010	30	66	94.6	56.0
		1170	132S	12.0	6.01	4.81	6.0	21.5	1.7	2.2	85.5	88.5	89.5	0.49	0.62	0.70	1.07	28	62	135	53.0
		860	132M	12.6	6.29	5.03	6.4	29.4	2.0	2.2	80.0	82.5	85.5	0.49	0.62	0.70	1.99	21	46	165	48.0
4	5.5	3505	112M	13.3	6.67	5.34	7.7	9.86	2.6	3.1	85.5	87.5	88.5	0.67	0.79	0.85	0.1898	22	48	90.4	64.0
		1755	112M	14.2	7.10	5.68	7.0	19.7	2.0	2.7	87.5	89.5	89.5	0.60	0.72	0.79	0.4312	15	33	97.0	56.0
		1165	132M	15.8	7.90	6.32	6.5	29.8	1.9	2.1	85.5	88.5	89.5	0.50	0.63	0.71	1.34	30	66	146	52.0
		880	160M	16.3	8.17	6.54	5.0	39.6	1.8	2.1	84.0	86.5	86.5	0.49	0.62	0.71	2.39	34	75	251	51.0
5.5	7.5	3530	132S	17.9	8.97	7.18	8.3	13.3	2.3	2.8	85.5	87.5	89.5	0.70	0.81	0.86	0.5126	23	51	143	67.0
		1765	132S	18.1	9.07	7.26	8.5	26.6	2.1	3.0	88.5	91.0	91.7	0.65	0.77	0.83	1.25	15	33	152	56.0
		1170	132M/L	21.6	10.8	8.64	7.0	40.5	2.2	2.4	85.5	88.5	91.0	0.48	0.61	0.70	1.79	26	57	176	52.0
		880	160M	22.2	11.1	8.88	5.0	54.0	1.8	2.1	85.5	86.5	87.5	0.49	0.62	0.71	2.90	28	62	271	51.0
7.5	10	3535	132S	24.6	12.3	9.84	8.5	17.7	2.6	3.0	86.5	89.5	90.2	0.68	0.79	0.85	0.5980	17	37	152	67.0
		1770	132M	24.4	12.2	9.76	8.5	35.5	2.2	3.0	90.2	91.0	91.7	0.66	0.78	0.84	1.52	13	29	172	56.0
		1180	160M	26.2	13.1	10.5	6.5	53.4	2.0	2.6	87.5	89.5	91.0	0.59	0.72	0.79	2.90	20	44	269	56.0
		880	160L	30.4	15.2	12.2	5.3	72.0	1.9	2.2	86.5	87.5	88.5	0.49	0.62	0.70	3.75	22	48	320	51.0
11	15	3555	160M	35.8	17.9	14.3	8.0	26.4	2.4	3.1	88.5	91.0	91.7	0.69	0.80	0.84	0.9943	17	37	254	67.0
		1775	160M	36.4	18.2	14.6	7.0	53.1	2.2	2.7	89.5	91.7	92.4	0.63	0.75	0.82	2.38	17	37	271	61.0
		1180	160L	37.6	18.8	15.0	6.5	80.1	2.1	2.7	88.5	90.2	91.7	0.61	0.73	0.80	3.75	16	35	315	56.0
		880	180L	39.0	19.5	15.6	6.5	108	2.0	2.4	88.5	89.5	89.5	0.59	0.71	0.79	6.75	12	26	408	51.0
15	20	3550	160M	48.8	24.4	19.5	8.0	35.2	2.3	2.9	89.5	91.7	91.7	0.69	0.80	0.84	1.12	12	26	262	67.0
		1775	160L	50.0	25.0	20.0	7.3	70.7	2.4	2.8	91.0	91.7	93.0	0.62	0.74	0.81	2.88	10	22	320	61.0
		1180	180L	49.4	24.7	19.8	7.7	107	2.3	2.8	91.0	91.7	91.7	0.68	0.79	0.83	7.69	10	22	426	56.0
		885	200L	56.0	28.0	22.4	4.9	142	1.7	1.9	89.5	91.0	91.0	0.55	0.67	0.74	10.8	34	75	518	56.0
18.5	25	3550	160L	59.8	29.9	23.9	8.4	44.0	2.5	3.2	90.2	91.7	92.4	0.69	0.80	0.84	1.32	8	18	300	67.0
		1775	180M	61.2	30.6	24.5	7.3	88.4	2.4	2.7	91.0	92.4	93.6	0.62	0.75	0.81	4.75	20	44	397	61.0
		1180	200L	61.6	30.8	24.6	6.2	132	1.9	2.5	91.0	91.7	93.0	0.62	0.74	0.81	9.16	19	42	492	60.0
		885	225S/M	63.2	31.6	25.3	6.5	177	1.5	2.2	93.0	93.0	93.0	0.60	0.72	0.79	26.3	28	62	831	56.0
22	30	3555	180M	69.4	34.7	27.8	8.0	52.7	2.2	2.9	90.2	91.7	92.4	0.71	0.81	0.86	2.83	11	24	388	67.0
		1775	180L	72.0	36.0	28.8	7.3	106	2.5	2.9	91.0	92.4	93.6	0.65	0.76	0.82	5.39	18	40	437	61.0
		1180	200L	74.2	37.1	29.7	6.3	159	2.0	2.6	91.7	92.4	93.0	0.62	0.74	0.80	10.8	18	40	529	60.0
		885	225S/M	75.2	37.6	30.1	6.5	213	1.6	2.2	93.0	93.0	93.0	0.59	0.71	0.79	30.6	22	48	886	56.0
30	40	3565	200L	94.2	47.1	37.7	7.3	70.0	2.3	2.6	91.0	92.4	93.0	0.73	0.82	0.86	4.44	20	44	538	69.0
		1780	200L	98.8	49.4	39.5	7.3	140	2.2	2.7	91.7	93.0	94.1	0.63	0.75	0.81	8.23	16	35	536	63.0
		1185	225S/M	95.2	47.6	38.1	7.4	211	2.0	2.5	93.0	94.1	94.1	0.67	0.78	0.84	30.6	17	37	884	61.0
		890	250S/M	102	50.9	40.7	7.4	284	1.6	2.5	93.0	93.6	93.6	0.60	0.72	0.79	33.9	18	40	1080	56.0
37	50	3565	200L	115	57.7	46.2	7.3	87.5	2.4	2.6	91.7	93.0	93.6	0.72	0.82	0.86	5.03	17	37	584	69.0
		1780	225S/M	117	58.5	46.8	7.8	176	2.4	2.7	93.0	94.1	94.5	0.68	0.79	0.84	20.9	14	31	864	63.0
		1185	250S/M	118	58.8	47.0	7.4	264	1.9	2.4	93.6	94.1	94.1	0.69	0.79	0.84	33.8	17	37	1072	61.0
		890	280S/M	128	64.1	51.3	6.0	350	1.6	2.0	93.0	94.1	94.1	0.59	0.71	0.77	66.9	32	70	1484	59.0
45	60	3565	225S/M	133	66.7	53.4	8.0	105	2.1	2.9	93.0	94.1	94.1	0.80	0.87	0.90	10.5	12	26	917	74.0
		1780	225S/M	140	69.9	55.9	7.9	211	2.5	2.7	93.6	94.5	95.0	0.69	0.79	0.85	22.6	13	29	926	63.0
		1190	280S/M	149	74.7	59.8	6.8	314	1.9	2.4	93.0	94.5	94.5	0.62	0.74	0.80	66.5	32	70	1495	65.0
		890	280S/M	154	77.0	61.6	6.0	420	1.6	2.0	93.6	94.1	94.1	0.59	0.71	0.78	82.8	30	66	1634	59.0
55	75	3570	250S/M	161	80.3	64.2	7.9	131	2.3	2.6	93.6	94.5	94.5	0.81	0.88	0.91	11.6	14	31	1069	74.0
		1785	250S/M	170	85.1	68.1	7.9	263	2.5	3.0	93.6	94.5	95.4	0.67	0.79	0.85	26.3	14	31	1118	64.0
		1190	280S/M	180	90.2	72.2	6.7	394	1.9	2.4	93.6	94.5	94.5	0.64	0.75	0.81	77.1	28	62	1594	65.0
		890	315S/M	187	93.7	75.0	6.0	525	1.5	2.0	93.6	94.5	94.5	0.62	0.73	0.78	74.6	40	88	2064	62.0
75	100	3580	280S/M	222	111	88.8	7.6	174	2.0	2.6	92.4	94.1	94.5	0.80	0.87	0.90	28.6	32	70	1603	77.0
		1785	280S/M	232	116	92.8	7.6	350	2.0	2.5	93.0	94.5	95.4	0.72	0.81	0.85	53.5	26	57	1607	69.0
		1190	315S/M	244	122	97.6	6.7	523	1.9	2.3	94.1	95.0	95.0	0.64	0.75	0.81	79.2	32	70	2121	67.0
		890	315S/M	254	127	102	6.0	700	1.6	1.6	94.1	95.0	95.0	0.62	0.73	0.78	95.7	40	88	2313	62.0
90	125	3580	280S/M	264	132	106	7.4	218	2.0	2.5	93.0	94.5	95.0	0.82	0.88	0.90	31.8	30	66	1680	77.0
		1785	280S/M	278	139	111	7.4	438	2.0	2.5	93.6	95.0	95.4	0.71	0.81	0.85	60.6	25	55	1713	69.0
		1190	315S/M	292	146	117	6.7	654	1.9	2.2	94.5	95.4	95.4	0.64	0.75	0.81	94.8	34	75	2311	67.0
		890	315S/M	304	152	122	6.0	875	1.6	1.9	94.5	95.0	95.0	0.61	0.73	0.78	114	40	88	2534	62.0

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

Cast Iron Frames - 60 Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)			Locked Rotor Current (A)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load										
kW	HP			230V	460V	575V	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
110	150	3585	315S/M	326	163	130	7.6	261	1.9	2.7	92.4	94.1	95.0	0.78	0.86	0.89	29.2	30	66	2121	77.0
		1790	315S/M	340	170	136	7.5	522	2.3	2.4	93.6	95.0	95.8	0.71	0.81	0.85	58.7	30	66	2227	71.0
		1190	315S/M	356	178	142	6.8	785	2.1	2.3	95.0	95.8	95.8	0.64	0.75	0.81	105	32	70	2439	67.0
		1190	315S/M	428	214	171	7.2	676	2.2	2.4	95.0	95.8	95.8	0.63	0.75	0.81	299	26	57	2624	67.0
132	175	3580	315S/M	386	193	154	7.5	305	1.9	2.5	93.6	94.5	95.4	0.82	0.88	0.90	35.2	30	66	2311	77.0
		1790	315S/M	406	203	162	7.6	608	2.2	2.3	94.1	95.4	96.2	0.72	0.81	0.85	69.7	26	57	2414	71.0
		1190	315S/M	428	214	171	7.2	916	2.2	2.4	95.0	95.8	95.8	0.63	0.75	0.81	121	26	57	2624	67.0
		895	315L	446	223	178	6.0	1225	1.7	2.0	95.0	95.4	95.4	0.60	0.72	0.78	313	34	75	3325	68.0
150	200	3580	315S/M	438	219	175	7.9	348	2.0	2.6	93.6	95.4	95.4	0.79	0.87	0.90	0.0000	36	79	2401	77.0
		1790	315S/M	456	228	182	7.0	695	2.2	2.2	94.5	95.8	96.2	0.72	0.82	0.86	105	37	81	2478	71.0
		1190	315S/M	428	214	171	7.2	676	2.2	2.4	95.0	95.8	95.8	0.63	0.75	0.81	299	26	57	2624	67.0
185	250	3580	315S/M	538	269	215	7.8	435	2.0	2.5	94.5	95.4	95.8	0.82	0.88	0.90	44.0	22	48	2639	77.0
		1790	315S/M	568	284	227	7.6	872	2.2	2.2	95.0	95.8	96.2	0.72	0.81	0.85	82.2	18	40	2695	71.0
		1195	355M/L	622	311	249	6.6	1308	1.9	2.2	94.3	95.2	95.6	0.60	0.72	0.78	264	34	75	3674	73.0
		895	355M/L	622	311	249	6.3	1739	1.1	2.1	95.0	95.8	95.8	0.61	0.73	0.78	440	56	123	4011	70.0
220	300	3580	315L	630	315	252	7.7	522	2.1	2.3	95.4	95.8	96.2	0.84	0.89	0.91	123	24	53	3021	78.0
		3585	355M/L	630	315	252	8.5	521	2.0	2.8	94.5	95.8	96.2	0.84	0.90	0.91	109	65	143	3495	80.0
		1790	315L	676	338	270	7.8	1043	2.3	2.3	95.4	95.8	96.2	0.72	0.81	0.85	163	16	35	3153	73.0
		1790	355M/L	684	342	274	7.4	1043	2.2	2.2	95.0	96.2	96.2	0.70	0.80	0.84	178	20	44	3427	74.0
		1195	355M/L	740	370	296	6.5	1562	1.9	2.1	94.8	95.6	95.6	0.60	0.72	0.78	318	36	79	4088	73.0
260	350	3585	355M/L	746	373	298	7.8	608	1.5	2.3	94.5	95.8	96.2	0.86	0.90	0.91	120	65	143	3671	80.0
		1790	315L	768	384	307	8.0	1217	2.4	2.3	95.4	96.2	96.2	0.71	0.81	0.85	199	16	35	3367	73.0
		1790	355M/L	798	399	319	7.3	1217	2.1	2.2	95.0	96.2	96.2	0.72	0.81	0.85	204	16	35	3574	74.0
		1195	355M/L	872	436	349	6.5	1822	2.0	2.2	95.1	95.5	95.9	0.61	0.73	0.78	356	38	84	4344	73.0
280	380	3585	355M/L	794	397	318	7.9	662	2.1	2.5	94.5	95.8	96.2	0.88	0.92	0.92	132	12	26	3861	80.0
		1790	355M/L	860	430	344	7.3	1321	2.1	2.1	95.4	96.2	96.2	0.72	0.81	0.85	229	20	44	3737	74.0
		1195	355M/L	938	469	375	6.5	1979	1.8	2.2	95.1	95.7	96.0	0.61	0.73	0.78	356	38	84	4344	73.0
315	430	3585	355M/L	894	447	358	7.8	748	1.9	2.3	95.4	96.2	96.2	0.88	0.92	0.92	142	23	51	4053	80.0
		1790	355M/L	976	488	390	7.3	1495	2.1	2.1	95.4	96.2	96.5	0.68	0.79	0.84	254	22	48	3907	74.0
355	480	1790	355M/L	1086	543	434	7.2	1669	2.2	2.2	95.8	96.2	96.5	0.74	0.83	0.85	275	15	33	4141	74.0

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

Cast Iron Frames - at 380V (50 Hz)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)	Locked Rotor Current (A)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
kW	HP			380V	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
0,12	0,16	2795	63	0.356	5,4	0,300	2,9	2,9	59.0	63.5	64.8	0.58	0.71	0.79	0,0033	30	66	13,7	52,0
		1355	63	0.374	4,4	0,610	1,8	2,0	58.6	62.6	62.5	0.56	0.69	0.78	0,0104	30	66	11,5	44,0
		890	63	0.487	3,1	0,930	0,0	0,0	48.7	54.7	55.1	0.47	0.58	0.68	0,0157	30	66	17,0	43,0
		635	71	0.638	2,4	1,31	1,8	2,0	46.6	51.7	52.9	0.38	0.46	0.54	0,0223	30	66	25,4	41,0
0,18	0,25	2775	63	0.500	5,2	0,470	2,8	2,9	62.6	66.6	66.7	0.59	0.73	0.82	0,0038	22	48	14,8	52,0
		1355	63	0.549	4,7	0,960	2,0	2,1	63.5	64.4	63.9	0.57	0.70	0.78	0,0145	30	66	15,9	44,0
		885	71	0.694	3,2	1,46	0,0	0,0	57.7	62.8	61.6	0.43	0.55	0.64	0,0221	30	66	25,4	43,0
		670	80	0.679	3,3	1,93	2,0	2,2	52.8	58.0	58.4	0.48	0.59	0.69	0,0681	30	66	29,8	42,0
0,25	0,33	2780	63	0.682	5,5	0,610	2,9	2,9	64.6	68.7	68.8	0.59	0.73	0.81	0,0047	17	37	15,9	52,0
		1355	71	0.718	4,8	1,26	2,1	2,3	67.0	69.1	68.7	0.56	0.69	0.77	0,0157	30	66	17,6	43,0
		865	71	0.933	3,2	1,98	2,0	2,0	62.4	65.2	63.6	0.42	0.55	0.64	0,0223	30	66	25,4	43,0
		670	80	0.909	3,3	2,55	0,0	0,0	54.9	58.9	59.7	0.48	0.60	0.70	0,0802	30	66	32,0	42,0
0,37	0,5	2765	71	0.878	6,2	0,940	2,6	2,7	73.6	74.3	73.6	0.71	0.82	0.87	0,0095	15	33	16,5	56,0
		1355	71	1.04	4,8	1,91	2,3	2,3	70.0	72.2	71.3	0.55	0.68	0.76	0,0195	30	66	20,9	43,0
		915	80	1.04	4,5	2,83	1,9	2,1	67.6	69.9	68.6	0.55	0.69	0.79	0,0600	25	55	27,6	43,0
		680	90S	1.29	3,7	3,81	1,8	2,1	62.9	66.9	65.8	0.44	0.56	0.66	0,1305	30	66	41,9	43,0
0,55	0,75	2740	71	1.27	5,9	1,42	2,7	2,7	75.6	75.7	75.0	0.73	0.84	0.88	0,0112	18	40	18,7	56,0
		1410	80	1.28	6,6	2,76	2,5	2,8	78.0	79.1	78.9	0.65	0.77	0.83	0,0605	20	44	27,6	44,0
		915	80	1.48	4,8	4,25	2,0	1,9	69.9	73.0	72.2	0.54	0.69	0.78	0,0802	19	42	32,0	43,0
		675	90L	1.82	3,6	5,76	0,0	0,0	64.8	67.0	65.7	0.48	0.61	0.70	0,1566	29	64	50,7	43,0
0,75	1	2805	80	1.64	7,5	1,85	3,1	3,1	80.9	82.2	81.6	0.68	0.80	0.85	0,0180	25	55	29,8	59,0
		1450	90S	1.63	7,8	3,57	2,1	2,9	83.2	84.1	84.0	0.64	0.76	0.83	0,1163	21	46	40,8	49,0
		940	L90L	1.90	5,0	5,51	2,2	2,5	78.9	80.5	79.8	0.52	0.67	0.75	0,0000	26	57	55,1	45,0
		705	100L	2.30	4,6	7,35	1,6	2,0	73.9	76.1	75.1	0.44	0.57	0.66	0,3014	30	66	67,3	50,0
1,1	1,5	2810	80	2.37	7,4	2,77	3,3	3,2	82.0	83.7	83.1	0.69	0.80	0.85	0,0356	23	51	33,1	59,0
		1450	90S	2.39	7,6	5,36	2,2	2,9	84.0	84.7	84.3	0.64	0.76	0.83	0,1305	15	33	43,0	49,0
		940	100L	2.75	4,9	8,27	1,7	2,1	81.2	80.9	81.0	0.55	0.68	0.75	0,2610	32	70	62,8	44,0
		700	100L	3.34	4,6	11,1	1,7	2,1	74.9	76.8	75.8	0.45	0.58	0.66	0,3393	30	66	72,8	50,0
1,5	2	2860	90S	3.18	7,6	3,62	2,9	2,9	83.7	85.0	84.4	0.69	0.80	0.85	0,0475	15	33	40,8	62,0
		1445	90L	3.21	7,4	7,17	2,3	3,0	85.0	86.2	85.6	0.63	0.76	0.83	0,1566	13	29	50,7	49,0
		945	100L	3.73	5,5	11,0	2,0	2,4	82.3	82.6	82.5	0.53	0.66	0.74	0,3393	31	68	70,6	44,0
		700	112M	4.02	5,0	14,8	2,2	2,4	79.9	80.6	79.8	0.49	0.63	0.71	0,5648	28	62	94,8	46,0
2,2	3	2855	90L	4.52	7,5	5,44	3,0	3,1	86.5	86.4	85.9	0.70	0.81	0.86	0,0617	12	26	51,8	62,0
		1430	100L	4.66	7,4	10,9	2,8	3,0	87.2	87.1	86.7	0.65	0.77	0.83	0,2136	18	40	69,5	53,0
		965	132S	5.19	5,1	16,1	1,5	2,4	86.5	87.5	87.1	0.55	0.67	0.74	0,0000	30	66	139	53,0
		705	132S	5.37	6,2	22,0	1,9	2,1	82.9	82.6	81.9	0.57	0.68	0.76	1,64	27	59	152	48,0
3	4	2900	100L	5.95	8,5	7,15	3,0	3,0	86.0	87.4	87.1	0.75	0.84	0.88	0,1519	15	33	70,6	67,0
		1430	L100L	6.26	7,8	14,5	3,1	3,3	87.7	88.0	87.7	0.65	0.77	0.83	0,2848	13	29	82,7	53,0
		965	132S	6.82	6,0	21,5	1,7	2,2	87.5	88.0	88.0	0.56	0.69	0.76	1,07	28	62	135	53,0
		705	132M	7.33	6,4	29,4	2,0	2,2	83.4	83.7	82.9	0.56	0.68	0.75	1,99	21	46	165	48,0
4	5,5	2890	112M	7.75	7,7	9,86	2,6	3,1	88.6	89.2	89.1	0.73	0.83	0.88	0,1898	22	48	90,4	64,0
		1445	112M	8.00	7,0	19,7	2,0	2,7	89.3	89.0	88.6	0.67	0.78	0.83	0,4312	15	33	97,0	56,0
		955	132M	9.21	6,5	29,8	1,9	2,1	86.6	86.9	86.8	0.57	0.70	0.76	1,34	30	66	146	52,0
		720	160M	9.54	5,0	39,6	1,8	2,1	85.6	86.8	86.1	0.56	0.68	0.74	2,39	34	75	251	51,0
5,5	7,5	2920	132S	10.5	8,3	13,3	2,3	2,8	88.7	89.7	89.7	0.76	0.85	0.89	0,5126	23	51	143	67,0
		1460	132S	10.6	8,5	26,6	2,1	3,0	90.4	90.7	90.3	0.71	0.82	0.87	1,25	15	33	152	56,0
		960	132M/L	12.7	7,0	40,5	2,2	2,4	87.4	88.3	88.0	0.55	0.68	0.75	1,79	26	57	176	52,0
		720	160M	12.6	5,0	54,0	1,8	2,1	86.7	87.3	87.2	0.56	0.68	0.76	2,90	28	62	271	51,0
7,5	10	2925	132S	14.3	8,5	17,7	2,6	3,0	89.6	90.6	90.6	0.74	0.84	0.88	0,5980	17	37	152	67,0
		1460	132M	14.4	8,5	35,5	2,2	3,0	91.4	91.5	91.2	0.73	0.83	0.87	1,52	13	29	172	56,0
		970	160M	15.2	6,5	53,4	2,0	2,6	89.8	90.3	90.4	0.67	0.77	0.83	2,90	20	44	269	56,0
		720	160L	16.9	5,3	72,0	1,9	2,2	87.8	88.5	88.6	0.56	0.69	0.76	3,75	22	48	320	51,0
9,2	12,5	2920	132M	17.1	8,5	22,2	2,5	2,9	90.7	91.0	90.8	0.79	0.87	0.90	0,7261	16	35	172	67,0
		1470	160M	18.0	7,2	44,1	2,2	2,7	90.4	91.5	91.6	0.70	0.80	0.85	1,91	16	35	240	61,0
		970	160L	18.6	6,5	66,8	2,0	2,6	90.4	90.6	90.6	0.68	0.78	0.83	3,41	18	40	302	56,0
		720	180M	18.7	6,0	89,9	1,7	2,3	89.2	89.1	88.9	0.67	0.78	0.84	6,11	15	33	381	51,0
11	15	2945	160M	20.8	8,0	26,4	2,4	3,1	91.3	92.3	92.5	0.75	0.84	0.87	0,9943	17	37	254	67,0
		1465	160M	21.1	7,0	53,1	2,2	2,7	91.3	91.7	91.7	0.69	0.79	0.85	2,38	17	37	271	61,0
		970	160L	22.2	6,5	80,1	2,1	2,7	90.5	90.8	90.8	0.66	0.77	0.83	3,75	16	35	315	56,0
		720	180L	24.2	6,5	108	2,0	2,4	90.0	90.0	89.8	0.59	0.71	0.77	6,75	12	26	408	51,0
15	20	2945	160M	28.0	8,0	35,2	2,3	2,9	91.8	92.5	92.6	0.75	0.84	0.88	1,12	12	26	262	67,0
		1465	160L	29.2	7,3	70,7	2,4	2,8	92.2	92.5	93.0	0.69	0.79	0.84	2,88	10	22	320	61,0
		970	180L	29.3	7,7	107	2,3	2,8	91.5	91.5	91.5	0.68	0.80	0.85	7,69	10	22	426	56,0
		730	200L	33.0	4,9	142	1,7	1,9	90.5	91.0	91.0	0.60	0.71	0.76	10,8	34	75	518	56,0
18,5	25	2945	160L	34.3	8,4	44,0	2,5	3,2	92.4	92.9	93.0	0.74	0.83	0.88	1,32	8	18	300	67,0
		1465	180M	35.9	7,3	88,4	2,4	2,7	92.5	92.9	93.1	0.68	0.79	0.84	4,75	20	44	397	61,0
		980	200L	36.3	6,2	132	1,9	2,5	92.2	92.4	92.2	0.69	0.79	0.84	9,16	19	42	492	60,0
		730	225S/M	36.7	6,5	177	1,5	2,2	93.1	92.8	92.2	0.67	0.78	0.83	26,3	28	62	831	56,0
22	30	2950	180M	40.7	8,0	52,7	2,2	2,9	92.7	93.2	93.4	0.77	0.84	0.88	2,83	11	24	388	67,0
		1465	180L	42.1	7,3	106	2,5	2,9	92.8	93.1	93.4	0.70	0.80	0.85	5,39	18	40	437	61,0
		980	200L	42.9	6,3	159	2,0	2,6	92.5	92.7	92.7	0.69	0.79	0.84	10,8	18	40	529	60,0
		730	225S/M	43.5	6,5	213	1,6	2,2	93.1	92.9	92.5	0.67	0.78	0.83	30,6	22	48	886	56,0

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

Cast Iron Frames - at 380V (50 Hz)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)	Locked Rotor Current (A)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
									% of full load										
kW	HP			380V	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
30	40	2960	200L	55.1	7,3	70,0	2,3	2,6	93.1	94.0	94.0	0.77	0.85	0.88	4,44	20	44	538	69,0
		1480	200L	57.7	7,3	140	2,2	2,7	93.3	93.8	94.1	0.69	0.79	0.84	8,23	16	35	536	63,0
		980	225S/M	56.6	7,4	211	2,0	2,5	93.8	93.8	93.6	0.73	0.82	0.86	30,6	17	37	884	61,0
		730	250S/M	57.8	7,4	284	1,6	2,5	93.4	93.1	92.7	0.70	0.80	0.85	33,9	18	40	1080	56,0
37	50	2960	200L	67.7	7,3	87,5	2,4	2,6	93.5	94.0	94.4	0.78	0.85	0.88	5,03	17	37	584	69,0
		1475	225S/M	68.5	7,8	176	2,4	2,7	94.1	94.5	94.3	0.76	0.83	0.87	20,9	14	31	864	63,0
		980	250S/M	69.7	7,4	264	1,9	2,4	93.8	94.0	93.8	0.74	0.82	0.86	33,8	17	37	1072	61,0
		740	280S/M	73.9	6,0	350	1,6	2,0	93.9	94.1	93.9	0.67	0.76	0.81	66,9	32	70	1484	59,0
45	60	2965	225S/M	80.1	8,0	105	2,1	2,9	94.6	94.9	94.8	0.79	0.86	0.90	10,5	12	26	917	74,0
		1475	225S/M	83.9	7,9	211	2,5	2,7	94.3	94.7	94.7	0.77	0.82	0.86	22,6	13	29	926	63,0
		990	280S/M	85.9	6,8	314	1,9	2,4	94.2	94.7	94.7	0.69	0.78	0.84	66,5	32	70	1495	65,0
		740	280S/M	90.8	6,0	420	1,6	2,0	94.1	94.4	94.1	0.67	0.76	0.80	82,8	30	66	1634	59,0
55	75	2960	250S/M	97.6	7,9	131	2,3	2,6	94.9	95.0	95.1	0.83	0.88	0.90	11,6	14	31	1069	74,0
		1475	250S/M	100	7,9	263	2,5	3,0	94.7	94.9	95.1	0.75	0.83	0.88	26,3	14	31	1118	64,0
		985	280S/M	106	6,7	394	1,9	2,4	94.6	94.9	95.0	0.70	0.79	0.83	77,1	28	62	1594	65,0
		740	315S/M	109	6,0	525	1,5	2,0	94.5	94.7	94.5	0.69	0.77	0.81	74,6	40	88	2064	62,0
75	100	2975	280S/M	131	7,6	174	2,0	2,6	94.6	95.2	95.4	0.84	0.89	0.91	28,6	32	70	1603	77,0
		1480	280S/M	136	7,6	350	2,0	2,5	94.8	95.2	95.4	0.78	0.85	0.88	53,5	26	57	1607	69,0
		990	315S/M	142	6,7	523	1,9	2,3	95.2	95.6	95.6	0.71	0.80	0.84	79,2	32	70	2121	67,0
		740	315S/M	148	6,0	700	1,6	1,6	94.7	95.0	94.8	0.69	0.77	0.81	95,7	40	88	2313	62,0
90	125	2975	280S/M	159	7,4	218	2,0	2,5	94.9	95.5	95.6	0.86	0.90	0.90	31,8	30	66	1680	77,0
		1480	280S/M	164	7,4	438	2,0	2,5	95.1	95.4	95.6	0.77	0.84	0.87	60,6	25	55	1713	69,0
		990	315S/M	170	6,7	654	1,9	2,2	95.4	95.8	95.9	0.71	0.80	0.84	94,8	34	75	2311	67,0
		740	315S/M	178	6,0	875	1,6	1,9	95.1	95.1	95.0	0.69	0.77	0.81	114	40	88	2534	62,0
110	150	2975	315S/M	193	7,6	261	1,9	2,7	94.8	95.7	96.0	0.83	0.89	0.90	29,2	30	66	2121	77,0
		1490	315S/M	200	7,5	522	2,3	2,4	95.5	95.9	96.2	0.77	0.85	0.87	58,7	30	66	2227	71,0
		990	315S/M	207	6,8	785	2,1	2,3	95.6	96.0	96.0	0.71	0.80	0.84	105	32	70	2439	67,0
		740	315L	217	6,0	1050	1,6	2,0	95.2	95.3	95.1	0.68	0.77	0.81	298	35	77	3014	68,0
		740	355M/L	217	6,4	1050	1,3	2,0	94.0	95.2	95.1	0.65	0.76	0.81	298	41	90	3272	70,0
132	175	2975	315S/M	232	7,5	305	1,9	2,5	95.3	95.8	96.1	0.85	0.90	0.90	35,2	30	66	2311	77,0
		1490	315S/M	239	7,6	608	2,2	2,3	95.6	96.0	96.3	0.78	0.85	0.87	69,7	26	57	2414	71,0
		990	315S/M	248	7,2	916	2,2	2,4	95.8	96.1	96.1	0.71	0.80	0.84	121	26	57	2624	67,0
		740	315L	260	6,0	1225	1,7	2,0	95.5	95.6	95.4	0.68	0.77	0.81	313	34	75	3325	68,0
		740	355M/L	260	6,5	1225	1,4	2,0	94.5	95.4	95.3	0.66	0.75	0.81	343	47	103	3499	70,0
150	200	2980	315S/M	260	7,9	348	2,0	2,6	95.5	96.1	96.2	0.83	0.89	0.91	0,0000	36	79	2401	77,0
		1490	315S/M	273	7,0	695	2,2	2,2	95.8	96.1	96.1	0.77	0.85	0.87	105	37	81	2478	71,0
		990	315L	282	7,1	1047	2,2	2,5	95.8	96.1	96.1	0.70	0.80	0.84	264	25	55	3010	68,0
160	220	2975	315S/M	274	7,9	383	2,1	2,5	95.7	96.1	96.4	0.85	0.90	0.92	41,2	24	53	2489	77,0
		1490	315S/M	287	7,6	765	2,3	2,3	95.8	96.2	96.3	0.78	0.85	0.88	76,9	22	48	2540	71,0
		990	315L	301	7,4	1151	2,3	2,4	95.9	96.2	96.2	0.71	0.80	0.84	264	24	53	3193	68,0
		995	355M/L	310	6,2	1146	1,8	2,4	94.6	95.2	95.6	0.67	0.77	0.82	242	60	132	3515	73,0
		745	355M/L	309	6,4	1530	1,1	2,1	95.6	95.8	95.9	0.68	0.78	0.82	410	56	123	3852	70,0
185	250	2975	315S/M	324	7,8	435	2,0	2,5	95.4	96.1	96.3	0.85	0.90	0.90	44,0	22	48	2639	77,0
		1485	315S/M	332	7,6	872	2,2	2,2	95.9	96.3	96.3	0.77	0.85	0.88	82,2	18	40	2695	71,0
		990	355M/L	363	6,6	1308	1,9	2,2	95.4	95.8	95.8	0.68	0.77	0.81	264	34	75	3674	73,0
		745	355M/L	357	6,3	1739	1,1	2,1	95.8	96.0	95.9	0.68	0.78	0.82	440	56	123	4011	70,0
200	270	2975	315L	346	8,2	470	2,3	2,5	96.0	96.4	96.5	0.85	0.90	0.91	51,4	17	37	2878	78,0
		2980	355M/L	345	7,2	469	1,6	2,4	93.9	95.2	95.8	0.90	0.92	0.92	102	70	154	3389	80,0
		1485	315L	358	7,6	942	2,2	2,2	96.2	96.5	96.5	0.77	0.85	0.88	93,4	20	44	2937	73,0
		1490	355M/L	366	7,6	939	2,3	2,2	96.1	96.5	96.6	0.75	0.83	0.86	166	22	48	3296	74,0
		995	355M/L	386	6,5	1406	1,8	2,1	95.6	96.1	96.1	0.68	0.78	0.82	286	40	88	3834	73,0
		745	355M/L	386	6,2	1878	1,1	2,1	95.8	96.1	96.0	0.69	0.79	0.82	449	56	123	4170	70,0
220	300	2975	315L	381	7,7	522	2,1	2,3	93.1	96.4	96.5	0.86	0.90	0.91	123	24	53	3021	78,0
		2985	355M/L	377	8,5	521	2,0	2,8	95.5	96.2	96.4	0.87	0.91	0.92	109	65	143	3495	80,0
		1490	315L	398	7,8	1043	2,3	2,3	96.2	96.6	96.6	0.77	0.85	0.87	163	16	35	3153	73,0
		1490	355M/L	402	7,4	1043	2,2	2,2	96.2	96.6	96.7	0.75	0.82	0.86	178	20	44	3427	74,0
		995	355M/L	424	6,5	1562	1,9	2,1	95.7	96.1	96.2	0.68	0.78	0.82	318	36	79	4088	73,0
250	340	2975	315L	432	7,8	592	2,2	2,4	96.4	96.5	96.6	0.88	0.91	0.91	108	17	37	3162	78,0
		2980	355M/L	424	7,8	591	1,5	2,3	95.5	96.3	96.4	0.89	0.92	0.93	120	65	143	3671	80,0
		1490	315L	451	8,0	1182	2,4	2,3	96.4	96.6	96.8	0.77	0.84	0.87	199	16	35	3367	73,0
		1490	355M/L	456	7,3	1182	2,1	2,2	96.3	96.6	96.8	0.76	0.84	0.86	204	16	35	3574	74,0
		995	355M/L	482	6,5	1770	2,0	2,2	95.7	96.1	96.2	0.68	0.78	0.82	356	38	84	4344	73,0
260	350	2980	355M/L	441	7,8	608	1,5	2,3	95.5	96.3	96.4	0.89	0.92	0.93	120	65	143	3671	80,0
		1490	315L	469	8,0	1217	2,4	2,3	96.4	96.6	96.8	0.77	0.84	0.87	199	16	35	3367	73,0
		1490	355M/L	475	7,3	1217	2,1	2,2	96.3	96.6	96.8	0.76	0.84	0.86	204	16	35	3574	74,0
		995	355M/L	501	6,5	1822	2,0	2,2	95.7	96.1	96.2	0.68	0.78	0.82	356	38	84	4344	73,0
280	380	2975	355M/L	490	7,9	662	2,1	2,5	95.2	95.5	95.8	0.87	0.90	0.91	132	12	26	3861	80,0
		1490	355M/L	505	7,3	1321	2,1	2,1	96.4	96.7	96.8	0.77	0.85	0.87	229	20	44	3737	74,0
		995	355M/L	538	6,5	1979	1,8	2,2	95.4	96.2	96.4	0.68	0.78	0.82	356	38	84	4344	73,0
315	430	2980	355M/L	543	7,8	748	1,9	2,3	94.2	95.5	95.8	0.89	0.92	0.92	142	23	51	4053	80,0
		1490	355M/L	568	7,3	1495	2,1	2,1	96.5	96.7	96.8	0.77	0.85	0.87	254	22	48	3907	74,0
355	480	1490	355M/L	640	7,2	1669	2,2	2,2	96.6	96.8	96.8	0.77	0.85	0.87	275	15	33	4141	74,0

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

Cast Iron Frames - at 400V (50 Hz)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)	Locked Rotor Current (A)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
									% of full load										
kW	HP			415V	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
0,12	0,16	2820	63	0,351	5,4	0,300	2,9	2,9	58,0	63,0	65,0	0,54	0,67	0,76	0,0033	30	66	13,7	52,0
		1370	63	0,367	4,4	0,610	1,8	2,0	57,0	62,0	63,0	0,52	0,65	0,75	0,0104	30	66	11,5	44,0
		905	63	0,492	3,1	0,930	0,0	0,0	46,0	53,0	55,0	0,44	0,55	0,64	0,0157	30	66	17,0	43,0
		650	71	0,660	2,4	1,31	1,8	2,0	44,0	50,0	52,5	0,35	0,43	0,50	0,0223	30	66	25,4	41,0
0,18	0,25	2800	63	0,504	5,2	0,470	2,8	2,9	61,0	66,0	67,0	0,55	0,68	0,77	0,0038	22	48	14,8	52,0
		1370	63	0,537	4,7	0,960	2,0	2,1	62,0	64,0	64,5	0,53	0,66	0,75	0,0145	30	66	15,9	44,0
		900	71	0,698	3,2	1,46	0,0	0,0	56,0	62,0	62,0	0,40	0,51	0,60	0,0221	30	66	25,4	43,0
		680	80	0,683	3,3	1,93	2,0	2,2	51,0	57,0	58,5	0,45	0,55	0,65	0,0681	30	66	29,8	42,0
0,25	0,33	2805	63	0,679	5,5	0,610	2,9	2,9	63,0	68,0	69,0	0,54	0,68	0,77	0,0047	17	37	15,9	52,0
		1370	71	0,702	4,8	1,26	2,1	2,3	66,0	69,0	69,5	0,52	0,65	0,74	0,0157	30	66	17,6	43,0
		880	71	0,940	3,2	1,98	2,0	2,0	60,0	64,0	64,0	0,39	0,51	0,60	0,0223	30	66	25,4	43,0
		680	80	0,911	3,3	2,55	0,0	0,0	53,0	58,0	60,0	0,45	0,56	0,66	0,0802	30	66	32,0	42,0
0,37	0,5	2790	71	0,843	6,2	0,940	2,6	2,7	73,0	74,5	74,5	0,66	0,79	0,85	0,0095	15	33	16,5	56,0
		1370	71	1,02	4,8	1,91	2,3	2,3	69,0	72,0	72,0	0,51	0,64	0,73	0,0195	30	66	20,9	43,0
		925	80	1,02	4,5	2,83	1,9	2,1	66,0	69,5	69,5	0,51	0,65	0,75	0,0600	25	55	27,6	43,0
		690	90S	1,31	3,7	3,81	1,8	2,1	61,0	66,0	66,0	0,41	0,53	0,62	0,1305	30	66	41,9	43,0
0,55	0,75	2770	71	1,21	5,9	1,42	2,7	2,7	75,0	76,0	76,0	0,68	0,81	0,86	0,0112	18	40	18,7	56,0
		1420	80	1,25	6,6	2,76	2,5	2,8	77,0	79,0	79,5	0,61	0,74	0,80	0,0605	20	44	27,6	44,0
		925	80	1,45	4,8	4,25	2,0	1,9	68,0	72,5	73,0	0,50	0,64	0,75	0,0802	19	42	32,0	43,0
		685	90L	1,78	3,6	5,76	0,0	0,0	63,0	66,5	66,5	0,44	0,57	0,67	0,1566	29	64	50,7	43,0
0,75	1	2825	80	1,61	7,5	1,85	3,1	3,1	80,0	82,0	82,0	0,63	0,76	0,82	0,0180	25	55	29,8	59,0
		1455	90S	1,60	7,8	3,57	2,1	2,9	82,5	84,0	84,5	0,60	0,73	0,80	0,1163	21	46	40,8	49,0
		945	L90L	1,87	5,0	5,51	2,2	2,5	78,0	80,5	80,5	0,49	0,63	0,72	0,0000	26	57	55,1	45,0
		710	100L	2,31	4,6	7,35	1,6	2,0	72,5	75,5	75,5	0,41	0,53	0,62	0,3014	30	66	67,3	50,0
1,1	1,5	2830	80	2,32	7,4	2,77	3,3	3,2	81,0	83,5	83,5	0,63	0,76	0,82	0,0356	23	51	33,1	59,0
		1455	90S	2,34	7,6	5,36	2,2	2,9	83,0	84,5	84,8	0,59	0,72	0,80	0,1305	15	33	43,0	49,0
		945	100L	2,69	4,9	8,27	1,7	2,1	80,5	81,0	81,0	0,51	0,65	0,73	0,2610	32	70	62,8	44,0
		705	100L	3,37	4,6	11,1	1,7	2,1	73,0	76,0	76,0	0,41	0,53	0,62	0,3393	30	66	72,8	50,0
1,5	2	2875	90S	3,07	7,6	3,62	2,9	2,9	83,0	85,0	85,0	0,64	0,76	0,83	0,0475	15	33	40,8	62,0
		1450	90L	3,15	7,4	7,17	2,3	3,0	84,0	86,0	86,0	0,58	0,72	0,80	0,1566	13	29	50,7	49,0
		950	100L	3,70	5,5	11,0	2,0	2,4	81,5	82,5	82,5	0,49	0,62	0,71	0,3393	31	68	70,6	44,0
		705	112M	3,96	5,0	14,8	2,2	2,4	79,0	80,5	80,5	0,45	0,59	0,68	0,5648	28	62	94,8	46,0
2,2	3	2870	90L	4,43	7,5	5,44	3,0	3,1	86,0	86,5	86,3	0,65	0,77	0,83	0,0617	12	26	51,8	62,0
		1435	100L	4,56	7,4	10,9	2,8	3,0	86,5	87,0	87,0	0,60	0,73	0,80	0,2136	18	40	69,5	53,0
		970	132S	5,04	5,1	16,1	1,5	2,4	86,0	87,5	87,5	0,52	0,64	0,72	0,0000	30	66	139	53,0
		710	132S	5,34	6,2	22,0	1,9	2,1	82,0	82,6	82,6	0,51	0,65	0,72	1,64	27	59	152	48,0
3	4	2910	100L	5,77	8,5	7,15	3,0	3,0	85,5	87,3	87,3	0,69	0,81	0,86	0,1519	15	33	70,6	67,0
		1440	L100L	6,15	7,8	14,5	3,1	3,3	87,0	88,0	88,0	0,60	0,73	0,80	0,2848	13	29	82,7	53,0
		970	132S	6,74	6,0	21,5	1,7	2,2	86,5	88,0	88,0	0,52	0,65	0,73	1,07	28	62	135	53,0
		710	132M	7,20	6,4	29,4	2,0	2,2	82,5	83,5	83,5	0,51	0,64	0,72	1,99	21	46	165	48,0
4	5,5	2900	112M	7,50	7,7	9,86	2,6	3,1	88,1	89,1	89,5	0,69	0,80	0,86	0,1898	22	48	90,4	64,0
		1450	112M	8,00	7,0	19,7	2,0	2,7	88,7	89,1	89,1	0,62	0,74	0,81	0,4312	15	33	97,0	56,0
		960	132M	8,99	6,5	29,8	1,9	2,1	86,0	86,8	86,8	0,53	0,66	0,74	1,34	30	66	146	52,0
		725	160M	9,26	5,0	39,6	1,8	2,1	85,0	86,8	86,6	0,52	0,65	0,72	2,39	34	75	251	51,0
5,5	7,5	2930	132S	10,1	8,3	13,3	2,3	2,8	88,3	89,7	90,0	0,72	0,82	0,87	0,5126	23	51	143	67,0
		1465	132S	10,3	8,5	26,6	2,1	3,0	90,0	90,7	90,7	0,67	0,79	0,85	1,25	15	33	152	56,0
		965	132M/L	12,5	7,0	40,5	2,2	2,4	86,5	88,0	88,0	0,50	0,64	0,72	1,79	26	57	176	52,0
		725	160M	12,4	5,0	54,0	1,8	2,1	86,0	87,3	87,7	0,52	0,65	0,73	2,90	28	62	271	51,0
7,5	10	2935	132S	13,9	8,5	17,7	2,6	3,0	89,1	90,5	90,8	0,69	0,80	0,86	0,5980	17	37	152	67,0
		1465	132M	13,9	8,5	35,5	2,2	3,0	91,0	91,5	91,5	0,69	0,80	0,85	1,52	13	29	172	56,0
		975	160M	14,7	6,5	53,4	2,0	2,6	89,3	90,3	90,7	0,63	0,74	0,81	2,90	20	44	269	56,0
		725	160L	16,7	5,3	72,0	1,9	2,2	87,0	88,3	88,9	0,52	0,65	0,73	3,75	22	48	320	51,0
9,2	12,5	2930	132M	16,6	8,5	22,2	2,5	2,9	90,4	91,1	91,1	0,75	0,84	0,88	0,7261	16	35	172	67,0
		1475	160M	17,4	7,2	44,1	2,2	2,7	90,0	91,4	91,8	0,66	0,77	0,83	1,91	16	35	240	61,0
		975	160L	18,0	6,5	66,8	2,0	2,6	90,0	90,6	91,0	0,64	0,75	0,81	3,41	18	40	302	56,0
		725	180M	18,1	6,0	89,9	1,7	2,3	89,0	89,3	89,6	0,63	0,75	0,82	6,11	15	33	381	51,0
11	15	2950	160M	20,1	8,0	26,4	2,4	3,1	91,0	92,3	92,7	0,71	0,81	0,85	0,9943	17	37	254	67,0
		1470	160M	20,7	7,0	53,1	2,2	2,7	91,0	91,8	92,2	0,65	0,76	0,83	2,38	17	37	271	61,0
		975	160L	21,5	6,5	80,1	2,1	2,7	90,0	90,8	91,2	0,62	0,74	0,81	3,75	16	35	315	56,0
		725	180L	23,1	6,5	108	2,0	2,4	89,5	90,0	90,3	0,55	0,68	0,76	6,75	12	26	408	51,0
15	20	2950	160M	27,1	8,0	35,2	2,3	2,9	91,5	92,5	92,9	0,71	0,81	0,86	1,12	12	26	262	67,0
		1470	160L	28,4	7,3	70,7	2,4	2,8	91,8	92,5	93,0	0,65	0,76	0,82	2,88	10	22	320	61,0
		975	180L	28,0	7,7	107	2,3	2,8	91,3	91,7	92,0	0,65	0,78	0,84	7,69	10	22	426	56,0
		730	200L	32,0	4,9	142	1,7	1,9	90,0	91,0	91,4	0,56	0,68	0,74	10,8	34	75	518	56,0
18,5	25	2950	160L	33,3	8,4	44,0	2,5	3,2	92,0	92,9	93,2	0,70	0,80	0,86	1,32	8	18	300	67,0
		1470	180M	34,9	7,3	88,4	2,4	2,7	92,2	92,9	93,3	0,64	0,76	0,82	4,75	20	44	397	61,0
		980	200L	35,2	6,2	132	1,9	2,5	91,7	92,3	92,5	0,65	0,76	0,82	9,16	19	42	492	60,0
		735	225S/M	35,6	6,5	177	1,5	2,2	93,0	93,0	92,7	0,63	0,75	0,81	26,3	28	62	831	56,0
22	30	2955	180M	39,0	8,0	52,7	2,2	2,9	92,5	93,3	93,7	0,73	0,82	0,87	2,83	11	24	388	67,0
		1470	180L	40,9	7,3	106	2,5	2,9	92,4	93,0	93,6	0,66	0,77	0,83	5,39	18	40	437	61,0
		980	200L	41,7	6,3	159	2,0	2,6	92,0	92,6	92,9	0,65	0,76	0,82	10,8	18	40	529	60,0
		735	225S/M	42,2	6,5	213	1,6	2,2	93,0	93,1	93,0	0,63	0,75	0,81	30,6	22	48	886	56,0

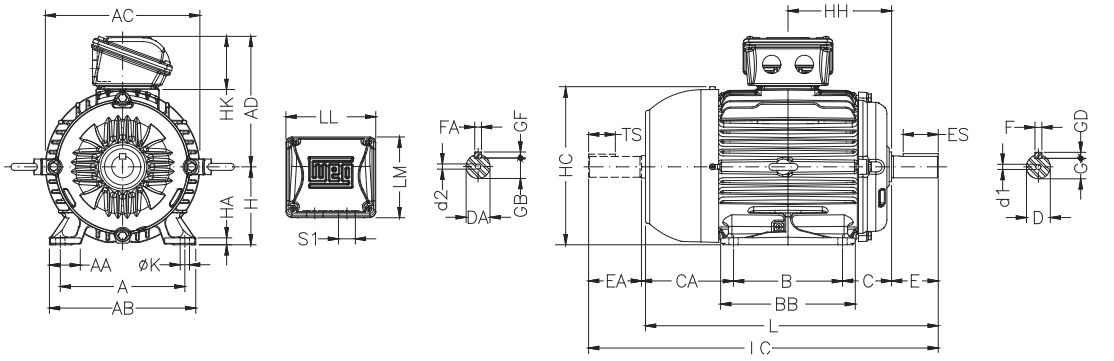
W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

Cast Iron Frames - at 400V (50 Hz)

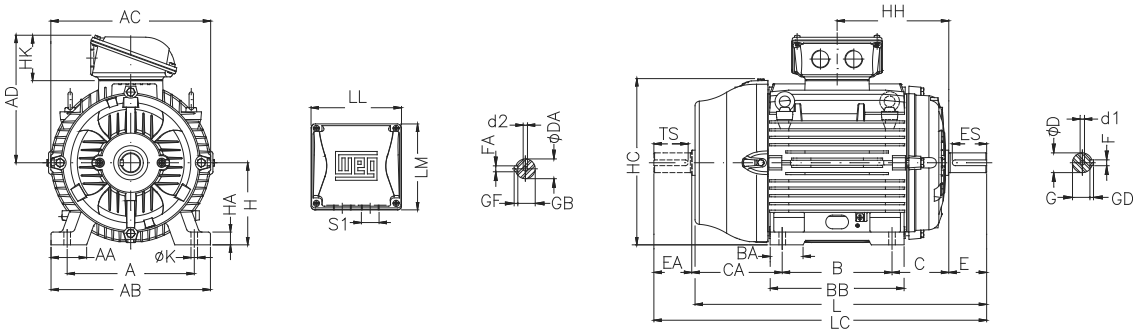
Rated Output		Full Load Speed	IEC Frame	Full Load Current I_n(A)	Locked Rotor Current (A)	Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
									% of full load										
kW	HP	(RPM)		415V	(I_l/I_n)				50	75	100	50	75	100		Hot	Cold		
30	40	2965	200L	53,5	7,3	70,0	2,3	2,6	92,8	94,0	94,1	0,73	0,82	0,86	4,44	20	44	538	69,0
		1480	200L	56,1	7,3	140	2,2	2,7	92,8	93,6	94,2	0,64	0,75	0,82	8,23	16	35	536	63,0
		985	225S/M	54,2	7,4	211	2,0	2,5	93,7	94,0	94,0	0,70	0,80	0,85	30,6	17	37	884	61,0
		735	250S/M	56,0	7,4	284	1,6	2,5	93,3	93,3	93,2	0,66	0,77	0,83	33,9	18	40	1080	56,0
37	50	2965	200L	65,6	7,3	87,5	2,4	2,6	93,3	94,0	94,6	0,73	0,82	0,86	5,03	17	37	584	69,0
		1480	225S/M	65,6	7,8	176	2,4	2,7	94,0	94,6	94,6	0,72	0,81	0,86	20,9	14	31	864	63,0
		985	250S/M	66,6	7,4	264	1,9	2,4	94,0	94,4	94,4	0,72	0,81	0,85	33,8	17	37	1072	61,0
		740	280S/M	71,8	6,0	350	1,6	2,0	93,7	94,2	94,2	0,63	0,73	0,79	66,9	32	70	1484	59,0
45	60	2970	225S/M	76,7	8,0	105	2,1	2,9	94,6	95,1	95,1	0,77	0,85	0,89	10,5	12	26	917	74,0
		1480	225S/M	79,4	7,9	211	2,5	2,7	94,2	94,8	94,8	0,70	0,80	0,85	22,6	13	29	926	63,0
		990	280S/M	83,4	6,8	314	1,9	2,4	94,1	94,8	95,0	0,65	0,76	0,82	66,5	32	70	1495	65,0
		740	280S/M	87,0	6,0	420	1,6	2,0	94,0	94,5	94,5	0,63	0,73	0,79	82,8	30	66	1634	59,0
55	75	2965	250S/M	93,5	7,9	131	2,3	2,6	94,9	95,3	95,4	0,81	0,87	0,89	11,6	14	31	1069	74,0
		1480	250S/M	96,9	7,9	263	2,5	3,0	94,6	95,0	95,3	0,71	0,81	0,86	26,3	14	31	1118	64,0
		990	280S/M	102	6,7	394	1,9	2,4	94,5	95,0	95,3	0,67	0,77	0,82	77,1	28	62	1594	65,0
		740	315S/M	105	6,0	525	1,5	2,0	94,3	94,8	94,8	0,65	0,75	0,80	74,6	40	88	2064	62,0
75	100	2980	280S/M	126	7,6	174	2,0	2,6	94,5	95,3	95,6	0,82	0,88	0,90	28,6	32	70	1603	77,0
		1485	280S/M	130	7,6	350	2,0	2,5	94,7	95,2	95,6	0,75	0,83	0,87	53,5	26	57	1607	69,0
		990	315S/M	136	6,7	523	1,9	2,3	95,0	95,6	95,8	0,67	0,78	0,83	79,2	32	70	2121	67,0
		740	315S/M	142	6,0	700	1,6	1,6	94,6	95,1	95,1	0,65	0,75	0,80	95,7	40	88	2313	62,0
90	125	2980	280S/M	151	7,4	218	2,0	2,5	94,8	95,6	95,8	0,84	0,89	0,90	31,8	30	66	1680	77,0
		1485	280S/M	158	7,4	438	2,0	2,5	95,0	95,5	95,8	0,74	0,82	0,86	60,6	25	55	1713	69,0
		990	315S/M	163	6,7	654	1,9	2,2	95,3	95,8	96,1	0,67	0,78	0,83	94,8	34	75	2311	67,0
		740	315S/M	170	6,0	875	1,6	1,9	94,9	95,2	95,3	0,65	0,75	0,80	114	40	88	2534	62,0
110	150	2980	315S/M	186	7,6	261	1,9	2,7	94,7	95,7	96,1	0,80	0,87	0,89	29,2	30	66	2121	77,0
		1490	315S/M	192	7,5	522	2,3	2,4	95,4	95,9	96,3	0,74	0,83	0,86	58,7	30	66	2227	71,0
		990	315S/M	199	6,8	785	2,1	2,3	95,5	96,0	96,2	0,67	0,78	0,83	105	32	70	2439	67,0
		740	315L	211	6,0	1050	1,6	2,0	95,0	95,4	95,4	0,64	0,74	0,79	298	35	77	3014	68,0
		745	355M/L	211	6,4	1050	1,3	2,0	95,1	95,4	95,4	0,62	0,74	0,79	298	41	90	3272	70,0
132	175	2980	315S/M	220	7,5	305	1,9	2,5	95,2	95,9	96,3	0,83	0,89	0,90	35,2	30	66	2311	77,0
		1490	315S/M	230	7,6	608	2,2	2,3	95,5	96,0	96,4	0,75	0,83	0,86	69,7	26	57	2414	71,0
		990	315S/M	241	7,2	916	2,2	2,4	95,6	96,1	96,3	0,67	0,77	0,82	121	26	57	2624	67,0
		740	315L	252	6,0	1225	1,7	2,0	95,3	95,7	95,7	0,64	0,74	0,79	313	34	75	3325	68,0
		745	355M/L	252	6,5	1225	1,4	2,0	95,3	95,7	95,7	0,64	0,74	0,79	343	47	103	3499	70,0
150	200	2980	315S/M	250	7,9	348	2,0	2,6	95,4	96,1	96,4	0,81	0,88	0,90	0,0000	36	79	2401	77,0
		1490	315S/M	261	7,0	695	2,2	2,2	95,6	96,2	96,3	0,74	0,83	0,86	105	37	81	2478	71,0
		990	315L	271	7,1	1047	2,2	2,5	95,7	96,1	96,3	0,67	0,78	0,83	264	25	55	3010	68,0
160	220	2980	315S/M	263	7,9	383	2,1	2,5	95,6	96,2	96,6	0,83	0,89	0,91	41,2	24	53	2489	77,0
		1490	315S/M	275	7,6	765	2,3	2,3	95,7	96,2	96,5	0,75	0,83	0,87	76,9	22	48	2540	71,0
		990	315L	289	7,4	1151	2,3	2,4	95,7	96,2	96,4	0,67	0,78	0,83	264	24	53	3193	68,0
		990	355M/L	305	6,2	1146	1,8	2,4	94,9	95,6	95,8	0,63	0,74	0,79	242	60	132	3515	73,0
		745	355M/L	301	6,4	1530	1,1	2,1	95,4	95,8	96,0	0,64	0,75	0,80	410	56	123	3852	70,0
185	250	2980	315S/M	307	7,8	435	2,0	2,5	95,7	96,4	96,6	0,83	0,89	0,90	44,0	22	48	2639	77,0
		1490	315S/M	318	7,6	872	2,2	2,2	95,8	96,3	96,5	0,74	0,83	0,87	82,2	18	40	2695	71,0
		990	355M/L	353	6,6	1308	1,9	2,2	94,9	95,6	95,8	0,64	0,74	0,79	264	34	75	3674	73,0
		745	355M/L	348	6,3	1739	1,1	2,1	95,5	95,9	96,0	0,64	0,75	0,80	440	56	123	4011	70,0
200	270	2980	315L	332	8,2	470	2,3	2,5	96,0	96,5	96,7	0,83	0,89	0,90	51,4	17	37	2878	78,0
		2985	355M/L	332	7,2	469	1,6	2,4	95,7	96,5	96,7	0,84	0,89	0,90	102	70	154	3389	80,0
		1490	315L	343	7,6	942	2,2	2,2	96,1	96,5	96,7	0,74	0,83	0,87	93,4	20	44	2937	73,0
		1490	355M/L	351	7,6	939	2,3	2,2	95,9	96,5	96,7	0,72	0,81	0,85	166	22	48	3296	74,0
		995	355M/L	375	6,5	1406	1,8	2,1	95,4	96,0	96,2	0,64	0,75	0,80	286	40	88	3834	73,0
		745	355M/L	375	6,2	1878	1,1	2,1	95,6	96,1	96,1	0,65	0,76	0,80	449	56	123	4170	70,0
220	300	2980	315L	361	7,7	522	2,1	2,3	96,1	96,5	96,7	0,84	0,89	0,91	123	24	53	3021	78,0
		2985	355M/L	365	8,5	521	2,0	2,8	95,8	96,5	96,7	0,85	0,88	0,90	109	65	143	3495	80,0
		1490	315L	382	7,8	1043	2,3	2,3	96,1	96,6	96,7	0,74	0,83	0,86	163	16	35	3153	73,0
		1490	355M/L	386	7,4	1043	2,2	2,2	96,0	96,6	96,8	0,72	0,80	0,85	178	20	44	3427	74,0
		995	355M/L	412	6,5	1562	1,9	2,1	95,5	96,1	96,3	0,64	0,75	0,80	318	36	79	4088	73,0
250	340	2980	315L	410	7,8	592	2,2	2,4	96,4	96,6	96,8	0,86	0,90	0,91	108	17	37	3162	78,0
		2985	355M/L	410	7,8	591	1,5	2,3	96,0	96,7	96,8	0,86	0,90	0,91	120	65	143	3671	80,0
		1490	315L	433	8,0	1182	2,4	2,3	96,2	96,6	96,9	0,73	0,82	0,86	199	16	35	3367	73,0
		1490	355M/L	438	7,3	1182	2,1	2,2	96,2	96,6	96,9	0,73	0,82	0,85	204	16	35	3574	74,0
		995	355M/L	468	6,5	1770	2,0	2,2	95,5	96,1	96,3	0,64	0,75	0,80	356	38	84	4344	73,0
260	350	2985	355M/L	426	7,8	608	1,5	2,3	96,0	96,7	96,8	0,86	0,90	0,91	120	65	143	3671	80,0
		1490	315L	450	8,0	1217	2,4	2,3	96,2	96,6	96,9	0,73	0,82	0,86	199	16	35	3367	73,0
		1490	355M/L	456	7,3	1217	2,1	2,2	96,2	96,6	96,9	0,73	0,82	0,85	204	16	35	3574	74,0
		995	355M/L	487	6,5	1822	2,0	2,2	95,5	96,1	96,3	0,64	0,75	0,80	356	38	84	4344	73,0
280	380	2980	355M/L	459	7,9	662	2,1	2,5	96,2	96,7	96,8	0,88	0,90	0,91	132	12	26	3861	80,0
		1490	355M/L	485	7,3	1321	2,1	2,1	96,3	96,7	96,9	0,74	0,83	0,86	229	20	44	3737	74,0
		995	355M/L	525	6,5	1979	1,8	2,2	95,1	95,1	96,3	0,64	0,75	0,80	356	38	84	4344	73,0
315	430	2980	355M/L	516	7,8	748	1,9	2,3	96,4	96,8	96,9	0,87	0,90	0,91	142	23	51	4053	80,0
		1490	355M/L	546	7,3	1495	2,1	2,1	96,4	96,7	96,9	0,74	0,83	0,86	254	22	48	3907	74,0
355	480	1490	355M/L	615	7,2	1669	2,2	2,2	96,5	96,8	96,9	0,74	0,83	0,86	275	15	33	4141	74,0

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

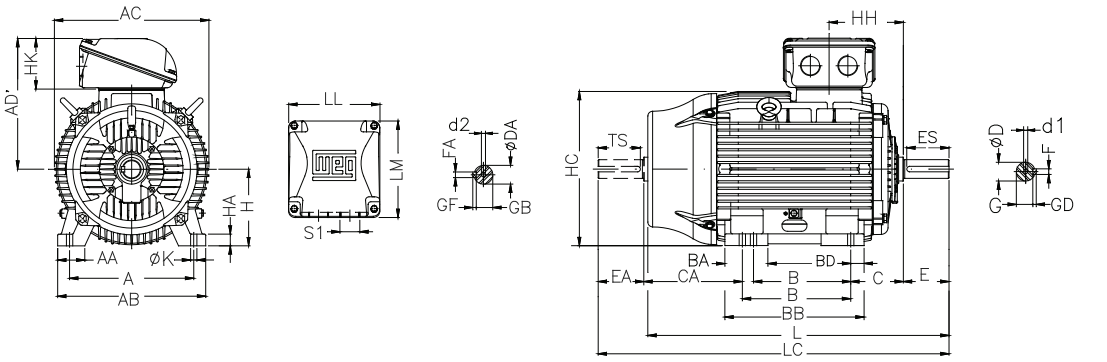
Frames 63 to 112



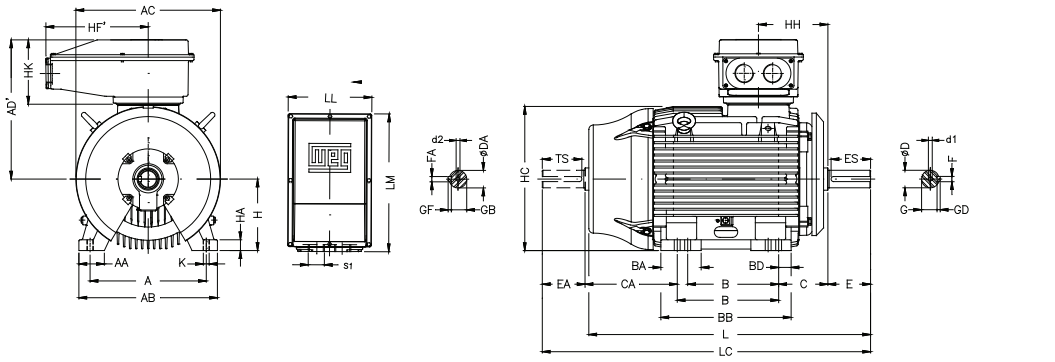
Frames 132 to 200



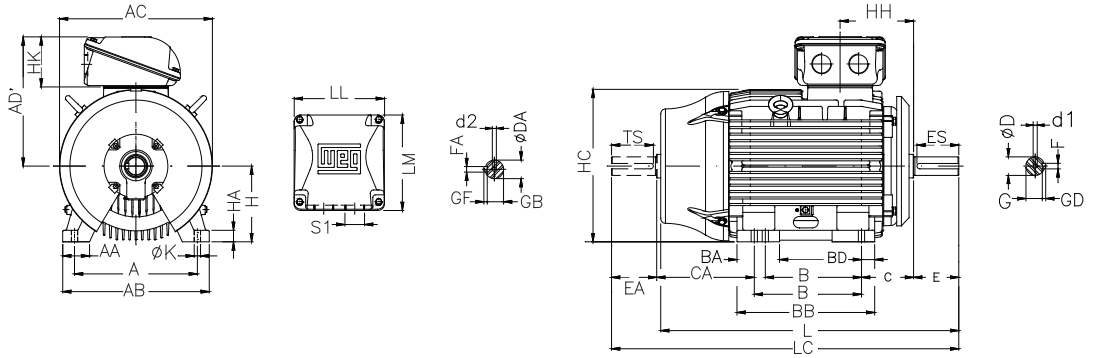
Frames 225 to 355M/L



Frames 355M/L (only motors fitted with air deflector on DE)



Frame 355A/B



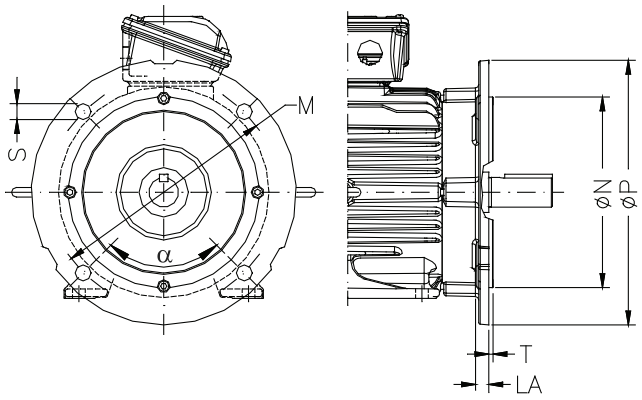
W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

Frame	A	AA	AB	AC	AD(**)	AD'	B	BA	BB	BD	C	CA	Shaft											
													D	DA	E	EA	ES	F	FA	G	GB	GD	GF	TS
63	100	25.5	116	125	122	122	80	-	95	-	40	78	11j6	9j6	23	20	14	4	3	8.5	7.2	4	3	12
71	112	28.5	132	141	130	130	90		113.5		45	88	14j6	11j6	30	23	18	5	4	11	8.5	5	4	14
80	125	30.5	149	159	139	139	100		125.5		50	93	19j6	14j6	40	30	28	6	5	15.5	11	6	5	18
L80																								
90S	140	36.5	164	179	157	157			131		56	104	24j6	16j6	50	40	36	8	5	20	13	7	5	28
L90S																								
90L							125		156															
L90L																								
100L	160	40	188	199	167	167	140		173		63	118	28j6	22j6	60	50	45		6	24	18.5		6	36
L100L																								
112M	190	40.5	220	222	192	192	140		177		70	128		24j6					8		20		7	
L112M																								
132S	216	51	248	271	218	218		55	187		89	150	38k6	28j6	80	60	63	10	8	33	24	8	7	45
132M							178		225															
132M/L																								
160M	254	64	308	329	264	264	210	63	254		108	174	42k6	42k6	110	110	80	12	12	37	37	8	8	80
160L							254		298															
180M	279	78	350	360	279	279	241	70	294		121	200	48k6	48k6				14	14	42.5	42.5	9	9	
180L							279		332															
200M	318	82	385	402	317	317	267	82	332		133	222	55m6					16		49		10		
200L							305		370															
225S/M	356	80	436	455	408	384	286/311	124	412	41	149	319/294	55m6*	55m6*	110*	110*	100*	16*	16*	49*	49*	10*	10*	100*
													60m6	60m6	140	140	125	18	18	53	53	11	11	125
250S/M	406	100	506	486		402	311/349	146	467	59	168	354/316	60m6*	60m6*	140*	140*	125*	18*	18*	53*	53*	11*	11*	125*
													65m6	60m6	140	140	125	18	18	58	53	11	11	125
280S/M	457		557	599	442	472	368/419	151	517	49	190	385/334	65m6*	60m6*	140*	140*	125*	18*	18*	58*	53*	11*	11*	125*
													75m6	65m6	140	140	125	20	18	67.5	58	12	11	125
315S/M	508	120	630	657	525	530	406/457	184	621	70	216	494/443	65m6*	60m6*	140*	140*	125*	18*	18*	58*	53*	11*	11*	125*
													80m6	65m6	170	140	160	22	18	71	58	14	14	125
315L					589	575	508	219	752	81		497	65m6*	60m6*	140*	140*	125*	18*	18*	58*	53*	11*	11*	125*
													80m6	65m6	170	140	160	22	18	71	58	14	14	125
355M/L	610	140	750	736	609	625	560/630	230	760	65	254	483/413	75m6*	60m6*	140*	140*	125*	20*	18*	67.5*	53*	12*	11*	125*
													100m6	80m6	210	170	200	28	22	90	71	16	14	160
355A/B					701	755	710/800	325	955	70		528/438	75m6*	60m6*	140*	140*	125*	20*	18*	67.5*	53*	12*	11*	125*
													100m6	80m6	210	170	200	28	22	90	71	16	14	160

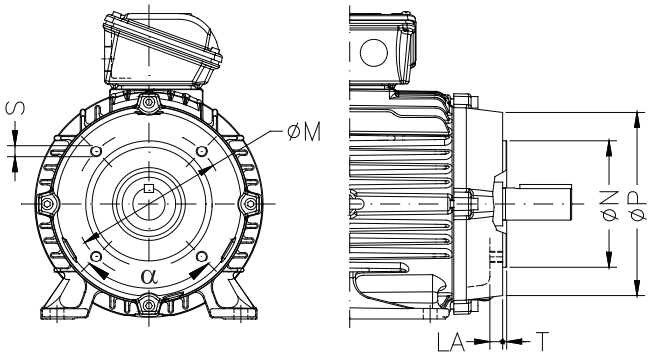
Frame	H	HA	HB(**)	HC	HD(**)	HF(**)	HG(**)	HH	HK	K	L	LC	LL	LM	S1	d1	d2	Bearings	
																		D.E.	N.D.E.
63	63	7	25.5	129	-	68.5	-	80	59	7	216	241	108	98	2xM20x1.5	M4	M3	6201-ZZ	
71	71		33	145		76		90			248	276				M5	M4	6202-ZZ	
80	80	8	43.5	163		87		100			276	313				M6		6204-ZZ	6203-ZZ
L80											325	362							
90S	90	9	45	182		90		106	67	10	304	350	115	104	2xM25x1.5	M8	M6	6205-ZZ	6204-ZZ
L90S											335	381							
90L								118.5			329	375							
L90L											360	406							
100L	100	10	61.5	205	244	106.4		133		12	376	431				M10	M8	6206-ZZ	6205-ZZ
L100L											420	475							
112M	112		54.5	235	280	112		140	79		393	448	140	133	2xM32x1.5			6207-ZZ	6206-ZZ
L112M											423	478							
132S	132	20	75	266	319	132		159			452	519				M12	M10	6308-ZZ	6207-ZZ
132M								178			490	557							
132M/L								191			515	582							
160M	160	22	79	327	374	168		213	100	14.5	598	712	198	188	2xM40x1.5	M16	M16	6309-C3	6209-Z-C3
160L								235			642	756							
180M	180	28	92	363	413	180		241.5			664	782						6311-C3	6211-Z-C3
180L								260.5			702	820							
200M	200	30	119	405	464	218		266.5	118	18.5	729	842	228	217	2xM50x1.5	M20	M20	6312C3	6212Z-C3
200L								285.5			767	880							
225S/M	225	34	255	453	550	403	523	212	143		856*	974*	261	292				6314-C3	
250S/M	250	43	290	493	583	449	566	214		24	886	1034							
280S/M	280	42	383	580	696	550	667	266	145		965	1113	314	312					
											1071	1223						6316-C3	
315S/M	315	48	386	664	768	615	744	264	177	28	1244*	1392*	372	382	2xM63x1.5			6314-C3	
											1274	1426						6319-C3	6316-C3
315L			336		774	575	760	284	215		1353*	1501*	404	438				6314-C3	
											1383	1535						6319-C3	6316-C3
355M/L	355	50	426	723	863	665	847	340			1412*	1577*						6316-C3	6314-C3
											1482	1677				M24		6322-C3	6319-C3
355A/B			154		885				318**		1607*	1772*	443	730		M20*		6316-C3	6314-C3
									355		1677	1872				M24		6322-C3	6319-C3

W22 IEC Tru-Metric NEMA Premium Efficiency Motors
Electrical Data

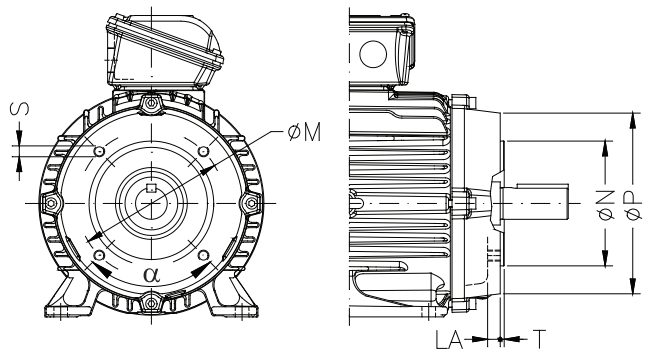
Flange "FF" Dimensions									
Frame	Flange	LA	M	N	P	S	T	α	Nº of holes
63	FF-115	9	115	95	140	10	3	45°	4
71	FF-130		130	110	160		3,5		
80	FF-165	10	165	130	200	12			
90									
100	FF-215	11	215	180	250	15	4		
112									
132	FF-265	12	265	230	300				
160	FF-300	18	300	250	350	19	5		
180									
200	FF-350		350	300	400				
225	FF-400	18	400	350	450	19	5	22°30'	8
250	FF-500		500	450	550				
280									
315	FF-600	22	600	550	660	24	6		
355	FF-740		740	680	800				



"C–DIN" Flange Dimensions									
Frame	Flange	LA	M	N	P	S	T	α	N° of holes
63	C-90	9.5	75	60	90	M5	2.5	45°	4
71	C-105	8	85	70	105	M6			
80	C-120	10.5	100	80	120		3		
90	C-140	12	115	95	140	M8			
100	C-160	13.5	130	110	160		3.5		
112									
132	C-200	15.5	165	130	200	M10			



NEMA "C" Flange Dimensions									
Frame	Flange	LA	M	N	P	S	T	α	Nº of holes
63	FC-95	8.5	95.2	76.2	143	UNC 1/4"x20	4	45°	4
71		10							
80									
90	FC-149	15	149.2	114.3	165	UNC 3/8"x16			
100		12							
112	FC-184	13.5	184.2	215.9	225	UNC 1/2"x13	6.3		
132		9							
160		19.5							
180	FC-228	13.5	228.6	266.7	280				
200									
225	FC-279	18.5	279.4	317.5	395	UNC 5/8"x11	6.3	22°30'	8
250	FC-355		355.6	406.4	455				
280									
315	FC-368		368.3	419.1					
355		33.5							



Three Phase Metric Motors
Purchasing Data

Standard Features

- Three-phase 2, 4, 6, & 8 poles - 60Hz & 50Hz
- Class 'F' insulation
- Temperature rise: Class 'B' (80°C)
- 104°F (40°C) ambient temperature
- Totally enclosed fan cooled (IP55)
- Service Factor: 1.15 (60Hz)
  1.0 (50Hz) (Tru-Metric line only)
- Design: N
- Continuous duty (S1)
- Mounting: B3L (F2 mount)
- Ball bearings
- Regreasable bearings system (from frame 160M and up)
- 1045 carbon steel shaft
- Automatic drain plugs
- NPT threaded terminal box conduit hole
- Colour: RAL 7022 (Dark Grey)
- WEG paint plan: 201A

Line Specific Standard Features

Standard Efficiency Line

- Voltage: 230/460V, 460V or 575V - 50 Hz or 60 Hz
- V'ring seals

Tru-Metric Line

- Voltage: 230/460V or 575V - 60Hz
  380-415V - 50 Hz
- Squirrel cage rotor / Aluminum die cast
- V'ring seals
- Aluminum frames with removable feet available (frame 63 up to frame 132M)
- Cast iron frames available (frame 63 up to frame 355M/L)
- Regreasable bearings system (from frame 160M and up)

Metric High Efficiency Line

- Voltage: 230/460V, 460V or 575V - 50 Hz or 60 Hz
- Squirrel cage rotor / Aluminum die cast
- Aluminum frames with removable feet available
  - Multi-mount (frame 63 up to frame 132M)
- Cast iron frames available (frame 63 up to frame 355M/L)
- V'ring seals

Optional Features

- Flanges
- Class 'H' insulation
- Taconite labyrinth seal
- Cable glands
- Space heaters
- Double shaft end
- Thermistors, Thermostats or RTD's (PT100)
- Drip cover (canopy) for shaft down applications
- Auxiliary terminal box
- Special painting plans for hostile evironments
- Roller bearings
- Special bearings
- Terminal blocks available
- Terminal Box with NPT threaded cable entries

NEMA Premium™ NEMA Premium Options are available. Please call for more information.

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE — INVERTER RATED

Inverter Duty
- Please call for specific ratings

APPROVED BY

APPROVED BY LR 38324 LR 50962

CSA E EEV 78282

Three Phase Metric Motors
Purchasing Data

Cast Iron Frame

Rated Output			IEC Frame	Product Line	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM					460V	575V			
0.18	0.25	3600	63	Standard Efficiency	$ 190	ME.25X0263	0.49	0.39	61.9	14	216
		1800	63	Standard Efficiency	230	ME.25X0463	0.54	0.43	64.0	17	216
		1200	71	Standard Efficiency	268	ME.25X0671	0.65	0.52	56.4	22	248
0.25	0.33	3600	63	Standard Efficiency	238	ME.33X0263	0.64	0.51	62.9	15	216
		1800	63	Standard Efficiency	236	ME.33X0463	0.74	0.59	67.0	18	216
		1800	71	Standard Efficiency	238	ME.33X0471	0.68	0.54	63.0	20	248
		1200	80	Standard Efficiency	282	ME.33X0680	0.88	0.70	58.1	24	276
0.37	0.5	3600	63	Standard Efficiency	259	ME.50X0263	0.82	0.66	68.4	17	216
		3600	71	Standard Efficiency	264	ME.50X0271	0.81	0.65	68.0	22	248
		1800	71	Standard Efficiency	275	ME.50X0471	0.99	0.79	68.0	22	248
		1200	80	Standard Efficiency	337	ME.50X0680	1.20	0.96	62.3	31	276
0.55	0.75	3600	71	Standard Efficiency	266	ME.75X0271	1.14	0.91	71.0	22	248
		1800	71	Standard Efficiency	280	ME.75X0471	1.39	1.11	71.0	25	248
		1800	80	Standard Efficiency	298	ME.75X0480	1.25	1.00	77.0	20	276
		1200	80	Standard Efficiency	352	ME.75X0680	1.67	1.34	74.5	42	276
0.75	1	3600	71	Standard Efficiency	280	ME000X0271	1.52	1.22	74.5	24	248
		3600	80	Standard Efficiency	292	ME000X0280	1.50	1.20	73.2	31	276
		1800	80	Standard Efficiency	302	ME000X0480	1.47	1.18	78.0	34	276
		1200	90S	Tru-Metric	395	ME000X0690S	1.71	1.37	80.0	53	304
1.1	1.5	3600	80	Standard Efficiency	298	ME001X0280	2.09	1.67	75.7	31	276
		1800	80	Standard Efficiency	310	ME001X0480	2.29	1.83	72.7	35	276
		1800	90S	Tru-Metric	380	ME001X0490S	2.16	1.73	84.0	31	304
		1200	112M	Tru-Metric	465	ME001X0612M	2.41	1.93	85.5	68	393
1.5	2	3600	90S	Tru-Metric	438	ME002X0290S	2.70	2.16	84.0	32	304
		3600	80	Standard Efficiency	375	ME002X0280	2.63	2.10	80.5	33	276
		1800	90S	Metric High Efficiency	466	ME002X0490S	2.95	2.36	84.0	44	304
		1800	90L	Tru-Metric	479	ME002X0490L	2.99	2.39	84.0	40	329
		1200	112M	Tru-Metric	512	ME002X0612M	3.20	2.56	86.5	79	393
2.2	3	3600	90S	Metric High Efficiency	472	ME003X0290S	3.82	3.05	85.1	44	304
		3600	90L	Tru-Metric	476	ME003X0290L	4.14	3.31	85.5	33	329
		1800	90L	Metric High Efficiency	497	ME003X0490L	3.96	3.17	85.0	51	329
		1800	100L	Tru-Metric	500	ME003X0410L	4.44	3.55	87.5	71	376
		1200	112M	Tru-Metric	652	ME003X0612M	4.69	3.75	86.5	99	393
		1200	132S	Tru-Metric	775	ME003X0613S	4.21	3.37	87.5	110	452
3	4	3600	100L	Tru-Metric	627	ME004X0210L	5.21	4.17	84.0	55	376
		1800	100L	Tru-Metric	649	ME004X0410L	5.89	4.71	87.5	71	376
		1200	132M	Tru-Metric	842	ME004X0613M	6.83	5.46	87.5	146	490
3.7	5	3600	112M	Tru-Metric	706	ME005X0212M	6.83	5.46	87.5	71	393
		3600	100L	Metric High Efficiency	644	ME005X0210L	6.27	5.02	87.5	75	376
		1800	112M	Metric High Efficiency	721	ME005X0412M	6.74	5.39	88.2	90	393
		1800	100L	Metric High Efficiency	666	ME005X0410L	6.46	5.17	88.0	73	376
		1200	132S	Metric High Efficiency	815	ME005X0613S	7.08	5.66	87.7	112	452
		1200	132M	Metric High Efficiency	867	ME005X0613M	7.08	5.66	87.7	139	490
4	5.5	3600	112M	Tru-Metric	725	ME5.5X0212M	6.83	5.46	87.5	71	393
		1800	112M	Tru-Metric	716	ME5.5X0412M	7.19	5.75	89.5	90	393
		1200	132M	Tru-Metric	905	ME5.5X0613M	8.44	6.75	87.5	174	490
		900	160M	Tru-Metric	P.O.A.	ME5.5X0816M	9.63	7.70	85.5	243	598
5.5	7.5	3600	112M	Metric High Efficiency	800	ME007X0212M	9.04	7.23	88.7	95	393
		3600	132S	Tru-Metric	859	ME007X0213S	8.97	7.18	88.5	110	452
		1800	112M	Metric High Efficiency	803	ME007X0412M	9.37	7.50	90.0	101	393
		1800	132S	Tru-Metric	880	ME007X0413S	9.29	7.43	89.5	110	452
		1200	132M	Tru-Metric	1,326	ME007X0613M	11.3	9.04	87.5	154	490
		900	160M	Tru-Metric	P.O.A.	ME007X0816M	13.5	10.80	85.5	257	598
7.5	10	3600	132S	Tru-Metric	968	ME010X0213S	12.4	9.92	89.5	110	452
		1800	132M	Tru-Metric	976	ME010X0413M	12.7	10.2	89.5	148	490
		1200	160M	Tru-Metric	1,499	ME010X0616M	14.2	11.4	89.5	276	598
		900	160L	Tru-Metric	P.O.A.	ME010X0816L	15.2	12.2	88.5	301	642
9.2	12.5	3600	132M	Metric High Efficiency	1,256	ME012X0213M	14.5	11.6	90.2	172	490
		1800	160M	Metric High Efficiency	1,712	ME012X0416M	16.1	12.9	91.0	287	598
		1800	132M	Metric High Efficiency	1,497	ME012X0413M	15.3	12.2	91.0	165	490
		1200	160L	Metric High Efficiency	1,885	ME012X0616L	15.7	12.6	89.5	276	642
11	15	3600	132M/L	Metric High Efficiency	1,312	ME015X0213M	16.7	13.4	91.0	163	490
		3600	160M	Tru-Metric	1,525	ME015X0216M	18.9	15.1	90.2	243	598
		1800	132M	Tru-Metric	1,500	ME015X0413M	20.0	16.0	91.7	276	490
		1800	160M	Metric High Efficiency	1,537	ME015X0416M	17.5	14.0	91.0	159	598
		1200	160L	Tru-Metric	2,270	ME015X0616L	21.6	17.3	90.2	300	642
		900	180L	Tru-Metric	P.O.A.	ME015X0818L	20.3	16.2	89.5	404	702
15	20	3600	160M	Tru-Metric	1,784	ME020X0216M	25.1	20.1	90.2	243	598
		1800	160M	Metric High Efficiency	1,892	ME020X0416M	24.0	19.2	93.0	260	598
		1800	160L	Tru-Metric	1,800	ME020X0416L	26.9	21.5	91.0	287	642
		1200	160L	Metric High Efficiency	2,128	ME020X0616L	26.5	21.2	91.0	306	642
		1200	180L	Tru-Metric	2,456	ME020X0618L	23.5	18.8	92.0	459	767
		900	180L	Tru-Metric	P.O.A.	ME020X0818L	30.9	24.7	89.5	496	767

Flange: Replace 'E' with 'C' for C or C Din flange
Replace 'E' with 'A' for A (B5) flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase Metric Motors
Purchasing Data

Cast Iron Frame - continued

Rated Output			IEC Frame	Product Line	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM					460V	575V			
		3600	160L	Tru-Metric	$ 2,426	ME025X0216L	30.0	24.0	91.0	287	642
		1800	160L	Metric High Efficiency	2,475	ME025X0416L	29.2	23.4	92.6	267	642
18.5	25	1800	180M	Tru-Metric	2,475	ME025X0418M	31.8	25.4	92.4	386	664
		1200	200L	Tru-Metric	2,953	ME025X0620L	31.7	25.4	91.7	494	767
		900	225S/M	Tru-Metric	P.O.A.	ME025X0822S	30.9	24.7	91.7	750	817 / 847
		3600	180M	Tru-Metric	2,900	ME030X0218M	35.7	28.6	91.0	397	664
		1800	180L	Tru-Metric	2,629	ME030X0418L	36.9	29.5	92.4	430	702
22	30	1200	200L	Tru-Metric	3,316	ME030X0620L	37.4	29.9	92.4	562	767
		900	225S/M	Tru-Metric	P.O.A.	ME030X0822S	37.4	29.9	92.4	805	817 / 847
		3600	200L	Tru-Metric	3,800	ME040X0220L	48.5	38.8	91.7	540	767
		1800	200L	Tru-Metric	3,676	ME040X0420L	51.2	41.0	93.0	529	767
30	40	1200	225S/M	Tru-Metric	5,097	ME040X0622S	50.6	40.5	93.0	807	817 / 847
		900	225S/M	Tru-Metric	P.O.A.	ME040X0822S	49.7	39.8	93.2	794	817 / 847
		3600	200L	Tru-Metric	4,300	ME050X0220L	59.1	47.3	92.4	573	767
		1800	200L	Metric High Efficiency	4,350	ME050X0420L	58.8	47.0	93.0	604	767
37	50	1800	225S/M	Tru-Metric	5,275	ME050X0422S	58.1	46.5	93.0	893	817 / 847
		1200	225S/M	Tru-Metric	6,870	ME050X0622S	59.8	47.8	93.5	816	817 / 847
		900	280S/M	Tru-Metric	P.O.A.	ME050X0828S	64.4	51.5	92.4	1,389	1036
		3600	225S/M	Tru-Metric	5,911	ME060X0222S	67.5	54.0	93.0	849	817 / 847
		1800	225S/M	Tru-Metric	5,624	ME060X0422S	67.8	54.2	93.6	882	817 / 847
45	60	1200	280S/M	Tru-Metric	9,687	ME060X0628S	73.2	58.6	94.1	1,345	1036
		900	280S/M	Tru-Metric	P.O.A.	ME060X0828S	80.0	64.0	94.1	1,389	1036
		3600	250S/M	Tru-Metric	7,951	ME075X0225S	81.6	65.3	93.0	1,080	923
		1800	225S/M	Metric High Efficiency	7,065	ME075X0422S	83.2	66.6	94.1	851	923
55	75	1800	250S/M	Tru-Metric	7,510	ME075X0425S	83.4	66.7	94.1	992	923
		1200	280S/M	Tru-Metric	11,273	ME075X0628S	89.1	71.3	94.5	1,444	1036
		900	315S/M	Tru-Metric	P.O.A.	ME075X0831S	93.7	75.0	94.5	1,710	1126 / 1156
		3600	280S/M	Tru-Metric	11,514	ME100X0228S	116	92.8	93.6	1,687	1036
		1800	250S/M	Metric High Efficiency	8,969	ME100X0425S	116	92.8	94.5	975	923
75	100	1800	280S/M	Tru-Metric	10,501	ME100X0428S	114	91.2	94.5	1,455	1036
		1200	315S/M	Tru-Metric	11,866	ME100X0631S	117	93.6	95.0	1,599	1126 / 1156
		900	315S/M	Tru-Metric	P.O.A.	ME100X0831S	133	106	93.0	2,007	1126 / 1156
		3600	280S/M	Tru-Metric	12,333	ME125X0228S	136	109	94.5	1,632	1036
90	125	1800	280S/M	Tru-Metric	11,296	ME125X0428S	137	110	94.5	1,753	1036
		1200	315S/M	Tru-Metric	14,760	ME125X0631S	140	112	95.0	1,786	1126 / 1156
		900	315S/M	Tru-Metric	P.O.A.	ME125X0831S	149	119	94.5	2,225	1126 / 1156
		3600	315S/M	Tru-Metric	15,986	ME150X0231S	166	133	94.5	1,830	1126 / 1156
		1800	280S/M	Metric High Efficiency	12,654	ME150X0428S	169	135	94.5	1,577	1036
110	150	1800	315S/M	Tru-Metric	14,221	ME150X0431S	169	135	94.5	1,621	1126 / 1156
		1200	315S/M	Tru-Metric	15,537	ME150X0631S	182	146	95.0	2,161	1126 / 1156
		900	355M/L	Tru-Metric	P.O.A.	ME150X0835M	191	153	94.1	3,065	1396 / 1466
		3600	315S/M	Tru-Metric	18,161	ME175X0231S	197	158	94.5	1,985	1126 / 1156
		1800	315S/M	Tru-Metric	15,117	ME175X0431S	205	164	95.0	2,194	1126 / 1156
132	175	1200	355M/L	Tru-Metric	26,704	ME175X0635M	221	177	95.0	3,014	1396 / 1466
		900	355M/L	Tru-Metric	P.O.A.	ME175X0835M	191	153	94.1	3,065	1396 / 1466
		3600	315S/M	Tru-Metric	19,991	ME200X0231S	220	176	95.0	2,183	1126 / 1156
		1800	315S/M	Tru-Metric	15,777	ME200X0431S	233	186	95.0	2,205	1126 / 1156
150	200	1200	355M/L	Tru-Metric	27,067	ME200X0635M	248	198	95.0	3,308	1396 / 1466
		900	355M/L	Tru-Metric	P.O.A.	ME200X0835M	257	206	94.1	3,506	1396 / 1466
		3600	315S/M	Tru-Metric	20,811	ME250X0231S	277	222	95.4	2,183	1126 / 1156
		1800	315S/M	Tru-Metric	18,765	ME250X0431S	294	235	95.0	2,216	1126 / 1156
185	250	1200	355M/L	Tru-Metric	29,736	ME250X0635M	306	245	95.0	3,528	1396 / 1466
		900	355M/L	Tru-Metric	P.O.A.	ME250X0835M	315	252	94.5	4,145	1396 / 1466
		3600	355S/M	Tru-Metric	29,680	ME300X0235S	318	254	95.4	3,638	1366 / 1436
		1800	355M/L	Tru-Metric	25,301	ME300X0435S	333	266	95.4	3,572	1366 / 1436
220	300	1200	355M/L	Tru-Metric	32,277	ME300X0635M	368	294	95.0	3,958	1396 / 1466
		900	355M/L	Tru-Metric	P.O.A.	ME300X0835M	370	296	94.5	4,256	1396 / 1466
		3600	355S/M	Tru-Metric	33,990	ME350X0235S	372	298	95.4	3,749	1366 / 1436
260	350	1800	355S/M	Tru-Metric	34,167	ME350X0435S	393	314	95.4	3,043	1366 / 1436
		1200	355M/L	Tru-Metric	37,860	ME400X0635M	429	343	95.0	4,013	1396 / 1466
300	400	1800	355S/M	Tru-Metric	37,448	ME400X0435S	449	359	95.4	3,903	1366 / 1436
		1200	355M/L	Tru-Metric	41,135	ME400X0635M	483	386	95.0	4,079	1396 / 1466
330	450	1800	355M/L	Tru-Metric	39,185	ME450X0435M	493	394	95.4	4,112	1396 / 1466
		1200	355M/L	Tru-Metric	44,205	ME450X0635M	545	436	95.0	4,190	1396 / 1466

Flange: Replace 'E' with 'C' for C or C Din flange
Replace 'E' with 'A' for A (B5) flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Three Phase Metric Motors
Purchasing Data

Aluminum Frame

Rated Output			IEC Frame	Product Line	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM					460V	575V			
0.18	0.25	3600	63	Tru-Metric	$258	ME.25X0263A	0.48	0.38	61.9	11	216
		1800	63	Tru-Metric	258	ME.25X0463A	0.51	0.41	64.0	13	216
		1200	71	Tru-Metric	315	ME.25X0671A	0.77	0.62	61.0	16	248
0.25	0.33	3600	63	Tru-Metric	267	ME.33X0263A	0.62	0.50	62.9	13	216
		1800	71	Tru-Metric	261	ME.33X0471A	0.68	0.54	67.0	16	248
		1200	80	Tru-Metric	337	ME.33X0680A	1.00	0.80	64.0	18	276
0.37	0.5	3600	71	Tru-Metric	296	ME.50X0271A	0.83	0.66	68.0	15	248
		1800	71	Tru-Metric	268	ME.50X0471A	1.06	0.85	68.0	16	248
		1200	80	Tru-Metric	349	ME.50X0680A	1.07	0.86	64.0	21	276
0.55	0.75	3600	71	Tru-Metric	306	ME.75X0271A	1.14	0.91	71.0	18	248
		1800	80	Tru-Metric	308	ME.75X0480A	1.25	1.00	70.0	23	276
		1200	80	Tru-Metric	375	ME.75X0680A	1.63	1.30	66.0	26	276
0.75	1	3600	80	Tru-Metric	339	ME000X0280A	1.42	1.14	77.0	23	276
		1800	80	Tru-Metric	319	ME000X0480A	1.51	1.21	79.5	26	276
		1200	90S	Tru-Metric	395	ME000X0690SA	1.71	1.37	80.0	34	304
1.1	1.5	3600	80	Tru-Metric	342	ME001X0280A	2.07	1.66	78.5	25	276
		1800	80	Tru-Metric	310	ME001X0480A	2.16	1.73	79.5	34	276
		1800	90S	Tru-Metric	380	ME001X0490SA	2.75	2.20	84.0	43	304
		1200	112M	Tru-Metric	465	ME001X0612MA	2.70	2.16	84.0	35	393
1.5	2	3600	90S	Tru-Metric	438	ME002X0290SA	2.99	2.39	84.0	43	304
		1800	90L	Tru-Metric	479	ME002X0490LA	3.73	2.98	84.0	69	329
		1200	112M	Tru-Metric	512	ME002X0612MA	4.14	3.31	85.5	36	393
2.2	3	3600	90L	Tru-Metric	476	ME003X0290LA	4.44	3.55	85.5	74	329
		1800	100L	Tru-Metric	500	ME003X0410LA	4.69	3.75	87.5	108	376
		1200	132S	Tru-Metric	775	ME003X0613SA	5.21	4.17	84.0	58	452
3	4	3600	100L	Tru-Metric	627	ME004X0210LA	5.89	4.71	84.0	74	376
		1800	100L	Tru-Metric	649	ME004X0410LA	6.83	5.46	87.5	155	376
		1200	132M	Tru-Metric	842	ME004X0613SA	6.83	5.46	87.5	80	490
3.7	5	3600	112M	Tru-Metric	706	ME005X0212MA	7.19	5.75	87.5	99	393
		1800	100L	Tru-Metric	666	ME005X0412MA	8.44	6.75	89.5	143	376
5.5	7.5	3600	132S	Tru-Metric	859	ME007X0213SA	9.29	7.43	88.5	101	452
		1800	132S	Tru-Metric	880	ME007X0413SA	11.3	9.04	89.5	167	452
7.5	10	3600	132S	Tru-Metric	968	ME010X0213SA	12.4	9.92	89.5	123	452
		1800	132M	Tru-Metric	976	ME010X0413MA	12.7	10.2	89.5	161	490

Flange: Replace 'E' with 'C' for C or C Din flange
Replace 'E' with 'A' for A (B5) flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

WEG Alternative Flanges

B5 'D' Flanges S

Frame	List Price	Reduced B5	List Price	Increased B5	List Price
63	$ 68	56	N/A	71	$ 105
71	68	56/63	$ 105	80/90	105
80	75	56/71	116	100/112	116
90	83	71	143	100/112	143
100	128	80/90	143	132	143
112	143	80/90	150	132	150
132	188	100/112	167	160	167
160	375	100/112/132	348	N/A	N/A
180	450	100/112/132	459	N/A	N/A
200	750	160	539	N/A	N/A
225	1050	200	1170	N/A	N/A

Note: Reduction 'D' (B5) flanges require shaft modifications at an additional cost. Please contact a sales office for a quotation. Call 1 877 PAMENSKY

B14 'C' Flanges S

Frame	List Price	Reduced B14	List Price	Increased B14	List Price
63	$ 68	N/A	N/A	70	$ 57
71	68	63	$ 57	90	57
80	75	N/A	N/A	90/100/112	57
90	83	80	120	132	120
100	128	N/A	N/A	132	120
112	128	N/A	N/A	N/A	N/A
132	188	N/A	N/A	N/A	N/A
160	375	N/A	N/A	N/A	N/A
180	N/A	N/A	N/A	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A
225	N/A	N/A	N/A	N/A	N/A

Three Phase Metric Motors
Electrical Data

Tru-Metric - Cast Iron Frames - at 380V (50 Hz)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_r/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
										% of full load											
HP	kW			380V	(kVA Code)	(I_r/I_n)				50	75	100	50	75	100			Hot	Cold		
5.5	4	720	160M	10.0	H	5.6	39.6	2.0	2.6	84.5	86.0	86.5	0.48	0.61	0.70	1.00	2.89720	24	53	243	51
7.5	5.5	960	160M	11.5	G	5.7	40.5	1.8	2.1	86.0	87.5	86.5	0.66	0.78	0.84	1.00	2.55643	20	44	236	56
		720	160M	13.7	H	5.6	54.0	2.0	2.6	84.2	86.6	87.0	0.46	0.60	0.70	1.00	3.40858	20	44	257	51
10	7.5	965	160M	15.5	H	6.6	53.7	2.0	2.6	86.9	89.0	89.9	0.66	0.77	0.82	1.00	3.40858	16	35	262	56
		720	160L	17.8	G	5.2	72.0	1.8	2.4	85.5	88.2	89.0	0.50	0.64	0.72	1.00	4.43110	15	33	301	51
15	11	2945	160M	21.3	J	8.5	26.4	2.5	3.0	90.3	91.9	92.2	0.76	0.81	0.85	1.00	1.25650	12	26	258	70
		1450	160M	21.6	G	6.0	53.6	1.8	2.1	90.9	91.5	91.0	0.72	0.81	0.85	1.00	2.38178	19	42	276	67
		970	160L	22.8	H	7.0	80.1	2.0	2.3	89.9	90.5	90.3	0.64	0.76	0.81	1.00	4.17529	12	26	311	56
		720	180L	23.8	J	7.0	108	2.0	2.2	86.7	88.5	89.0	0.63	0.75	0.79	1.00	7.19897	10	22	404	51
20	15	2930	160M	28.7	J	8.2	35.4	2.2	2.6	90.9	91.7	92.4	0.76	0.83	0.86	1.00	1.25650	11	24	258	70
		1460	160L	29.6	G	6.1	71.0	1.8	2.1	90.0	91.9	91.8	0.71	0.80	0.84	1.00	2.73892	11	24	289	67
		960	180L	27.6	H	7.3	108	2.4	2.5	91.0	91.8	91.6	0.80	0.88	0.90	1.00	8.18068	12	26	420	56
		720	200L	34.9	G	5.0	144	1.8	2.0	89.0	90.8	90.8	0.55	0.67	0.72	1.00	8.93909	33	73	496	53
25	18.5	2940	160L	34.7	K	8.8	44.1	2.0	2.5	92.0	92.8	93.0	0.76	0.84	0.87	1.00	1.53557	11	24	307	70
		1465	180M	35.9	J	8.0	88.4	2.7	2.7	91.8	93.0	93.3	0.70	0.80	0.84	1.00	4.68264	12	26	391	64
		970	200L	35.6	G	6.5	134	2.2	2.3	90.6	92.6	92.9	0.72	0.80	0.85	1.00	8.93909	25	55	497	58
		730	225S/M	36.0	J	7.8	177	2.0	2.3	90.3	91.0	91.8	0.73	0.81	0.85	1.00	20.1045	16	35	750	56
30	22	2945	180M	40.1	J	8.6	52.8	2.5	2.4	92.9	93.7	93.7	0.78	0.86	0.89	1.00	2.82838	9	20	392	70
		1470	180L	41.1	J	8.6	106	2.5	2.6	92.2	93.4	93.5	0.75	0.84	0.87	1.00	5.53407	11	24	435	64
		970	200L	42.8	H	7.0	160	2.2	2.4	91.0	92.5	92.9	0.70	0.78	0.84	1.00	10.6420	20	44	550	58
		735	225S/M	43.7	K	8.5	211	2.0	2.6	91.5	92.0	92.2	0.67	0.78	0.83	1.00	23.4552	15	33	805	56
40	30	2950	200L	54.0	H	7.4	70.3	2.5	2.1	92.7	93.6	93.8	0.86	0.89	0.90	1.00	4.89550	13	29	555	74
		1475	200L	57.1	H	7.0	141	2.2	2.3	93.5	94.1	93.9	0.71	0.81	0.85	1.00	7.85344	18	40	549	69
		980	225S/M	57.7	J	8.0	211	2.3	2.8	91.5	93.2	93.0	0.70	0.80	0.85	1.00	23.4552	18	40	808	61
		730	250S/M	58.5	K	8.5	284	2.0	2.8	92.5	93.0	92.8	0.68	0.78	0.84	1.00	29.0401	16	35	970	56
50	37	2955	200L	68.6	J	8.3	87.7	2.5	2.5	93.3	94.0	94.2	0.72	0.82	0.87	1.00	5.32122	18	40	570	74
		1475	225S/M	68.0	H	7.2	176	2.0	2.4	92.9	94.0	94.0	0.79	0.86	0.88	1.00	16.6079	14	31	815	70
		970	250S/M	71.2	H	7.0	267	2.2	2.2	91.5	94.0	94.0	0.77	0.83	0.84	1.00	31.2738	20	44	978	61
		740	280S/M	74.9	J	7.6	350	1.6	2.0	92.5	93.5	93.8	0.69	0.77	0.80	1.00	62.7179	23	51	1389	59
60	45	2955	225S/M	79.5	J	8.5	105	2.2	2.7	93.9	94.5	94.5	0.84	0.89	0.91	1.00	10.6420	16	35	879	82
		1475	225S/M	80.6	H	7.4	211	2.1	2.5	94.0	94.3	94.2	0.82	0.88	0.90	1.00	19.9294	12	26	873	70
		980	280S/M	86.5	H	7.2	317	2.2	2.5	92.0	93.3	94.1	0.71	0.80	0.84	1.00	54.5372	25	55	1345	66
		735	280S/M	92.1	H	7.0	423	1.8	1.8	92.8	93.6	94.0	0.63	0.74	0.79	1.00	62.7179	26	57	1389	59
75	55	2960	250S/M	95.9	J	8.9	131	2.2	2.9	94.2	94.7	94.7	0.86	0.90	0.92	1.00	13.1960	15	33	1011	82
		1475	250S/M	98.3	H	7.6	263	2.1	2.5	94.2	94.6	94.5	0.79	0.87	0.90	1.00	27.4029	20	44	1065	70
		980	280S/M	108	H	7.0	397	2.2	2.3	92.5	93.9	94.2	0.68	0.77	0.82	1.00	62.7179	45	99	1444	66
		735	315S/M	107	G	6.5	529	1.8	1.9	93.8	94.3	94.4	0.71	0.80	0.83	1.00	81.8061	27	59	1710	62
100	75	2970	280S/M	136	H	7.7	174	1.6	2.7	93.0	94.4	95.0	0.83	0.87	0.88	1.00	30.1568	51	112	1579	83
		1480	280S/M	136	H	7.2	350	2.2	2.4	93.5	94.8	95.0	0.81	0.87	0.88	1.00	51.4464	21	46	1551	70
		980	315S/M	142	H	6.8	529	2.0	2.2	93.0	94.0	94.5	0.77	0.83	0.85	1.00	81.8061	24	53	1599	69
		740	315S/M	148	K	9.0	700	2.2	2.3	93.0	94.0	94.8	0.66	0.77	0.81	1.00	114.528	19	42	2007	62
125	90	2970	280S/M	159	H	8.2	218	1.6	2.4	94.3	95.5	95.8	0.84	0.88	0.90	1.00	33.5077	33	73	1632	83
		1485	280S/M	161	H	7.8	436	2.2	2.3	94.4	95.1	95.2	0.81	0.87	0.89	1.00	66.6898	22	48	1753	70
		980	315S/M	172	G	6.5	661	2.0	2.0	92.9	94.3	94.8	0.74	0.81	0.84	1.00	95.4404	48	106	1854	69
		740	315S/M	175	G	6.5	875	2.0	2.0	93.6	94.1	94.1	0.70	0.79	0.83	1.00	125.436	28	62	2225	62
150	110	2970	315S/M	194	H	8.0	262	1.6	2.4	94.4	95.5	95.8	0.84	0.88	0.90	1.00	35.7414	38	84	1830	83
		1480	280S/M	197	H	7.6	525	2.2	2.3	94.6	95.1	95.4	0.82	0.87	0.89	1.00	76.2170	29	64	1852	70
		980	315S/M	207	G	6.8	793	2.1	2.2	93.6	94.8	95.1	0.73	0.73	0.85	1.00	125.436	27	59	2161	69
		745	355M/L	220	H	6.6	1043	1.2	2.0	94.5	94.9	95.0	0.65	0.75	0.80	1.00	298.059	41	90	3065	70
175	132	2970	315S/M	235	J	8.3	305	1.7	2.3	94.3	95.5	96.0	0.80	0.87	0.89	1.00	41.3260	32	70	1985	83
		1480	315S/M	236	H	7.8	613	2.2	2.3	94.9	95.3	95.6	0.83	0.88	0.89	1.00	89.5549	34	75	2219	72
		990	355M/L	262	G	5.8	916	1.6	1.9	93.5	94.5	94.6	0.71	0.79	0.81	1.00	226.177	60	132	3014	73
		745	355M/L	264	H	6.5	1217	1.2	2.0	94.5	95.0	95.1	0.66	0.75	0.80	1.00	312.962	41	90	3186	70
200	150	2970	315S/M	264	H	7.5	349	1.8	2.3	95.0	95.8	96.1	0.85	0.89	0.90	1.00	50.2616	22	48	2183	83
		1480	315S/M	270	J	8.0	700	2.2	2.5	94.2	95.5	95.9	0.80	0.86	0.88	1.00	89.5549	18	40	2216	72
		990	355M/L	290	G	6.5	1047	1.8	2.0	94.2	95.5	95.7	0.70	0.79	0.82	1.00	237.486	58	128	3308	73
		745	355M/L	298	H	6.8	1391	1.3	2.0	94.5	95.2	95.5	0.67	0.76	0.80	1.00	387.477	41	90	3506	70
250	185	2970	315S/M	325	G	7.2	436	1.8	2.3	95.0	95.9	96.2	0.86	0.89	0.90	1.00	50.2616	37	81	2183	83
		1485	315S/M	341	H	7.3	872	2.3	2.7	94.9	95.7	95.8	0.73	0.82	0.86	1.00	89.5549	19	42	2189	72
		990	355M/L	358	H	6.7	1308	2.0	2.1	94.2	95.5	95.7	0.71	0.78	0.82	1.00	277.067	60	132	3528	73
		745	355M/L	368	H	7.0	1739	1.4	2.0	94.8	95.2	95.6	0.67	0.76	0.80	1.00	461.991	41	90	4145	70
300	220	2985	355M/L	377	H	8.5	521	2.0	2.8	95.0	96.0	96.4	0.86	0.90	0.92	1.00	122.71	63	139	3638	81
		1490	355M/L	390	H	8.0	1043	2.1	2.3	95.2	96.0	96.3	0.83	0.88	0.89	1.00	185.793	33	73	3572	79
		990	355M/L	431	H	6.9	1570	2.0	2.1	94.5	95.5	95.7	0.70	0.78	0.81	1.00	327.957	60	132	3958	73
		740	355M/L*	432	H	7.4	2100	1.5	2.0	95.0	95.5	95.6	0.68	0.78	0.81	1.00	484.346	31	68	4256	70
350	260	2980	355M/L	446	H	8.2	608	1.9	2.5	95.4	96.1	96.2	0.89	0.91	0.92	1.00	136.34	63	139	3749	81
		1490	355M/L	472	F	6.3	1217	1.9	2.2	94.0	94.8	95.2	0.83	0.86	0.88	1.00	199.064	10	22	3623	79
		990	355M/L	503	G	6.5	1832	1.9	2.0	94.8	95.5	95.7	0.72	0.80	0.82	1.00	339.266	60	132	4013	73
400	300	1485	355M/L	544	F	6.0	1396	1.9	2.0	94.2	94.8	95.2	0.84	0.86	0.88	1.00	243.301	30	66	4024	79
		990	355M/L*	580	F	5.7	2093	1.7	1.7	95.0	95.5	95.8	0.77	0.81	0.82	1.00	350.575	50	110	4079	73
450	330	990	355M/L*	645	F	5.8	2355	1.7	1.7	95.1	95.7	96.0	0.73	0.80	0.81	1.00	367.538	50	110	4190	73

Three Phase Metric Motors
Electrical Data

Tru-Metric - Cast Iron Frames - at 415V (50 Hz)

Rated Output		Full Load Speed	IEC Frame	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque	Locked Rotor Torque	Break Down Torque	Efficiency			Power Factor Cos			Service Factor	Moment of Inertia	Allowable Locked Rotor Time (s)		Approx. Weight	Sound
										% of full load											
HP	kW	(RPM)		415V	(kVA Code)	(I_l/I_n)	T_n(lb.ft)	(T_l/T_n)	(T_b/T_n)	50	75	100	50	75	100	SF	WK^2(lb.ft^2)	Hot	Cold	(lb)	dB(A)
5.5	4	730	160M	10.2	J	5.6	39.0	2.4	3.1	84.4	86.0	86.6	0.41	0.54	0.63	1.00	2.89720	24	53	243	51
7.5	5.5	965	160M	10.8	G	5.7	40.3	2.2	2.6	85.5	87.5	87.5	0.62	0.74	0.81	1.00	2.55643	20	44	236	56
		730	160M	14.7	J	5.6	53.2	2.5	3.0	84.1	86.4	87.0	0.38	0.50	0.60	1.00	3.40858	20	44	257	51
10	7.5	970	160M	14.5	H	6.6	53.4	2.5	3.1	87.0	89.5	90.0	0.58	0.71	0.80	1.00	3.40858	16	35	262	56
		730	160L	18.3	H	5.2	71.0	2.2	2.8	85.4	88.1	89.0	0.41	0.54	0.64	1.00	4.43110	15	33	301	51
15	11	2955	160M	20.0	K	8.5	26.3	3.0	3.6	90.2	92.0	92.2	0.70	0.79	0.83	1.00	1.25650	12	26	258	70
		1470	160M	20.7	G	6.0	52.9	2.2	2.6	90.0	91.6	91.3	0.65	0.75	0.81	1.00	2.38178	19	42	276	67
		975	160L	22.3	J	7.0	79.7	2.4	2.7	89.3	90.0	90.3	0.54	0.68	0.76	1.00	4.17529	12	26	311	56
		730	180L	22.3	J	7.0	106	2.4	2.6	86.3	88.5	89.0	0.60	0.70	0.77	1.00	7.19897	10	22	404	51
20	15	2935	160M	26.9	J	8.2	35.3	2.7	3.2	90.7	91.6	92.4	0.71	0.81	0.84	1.00	1.25650	11	24	258	70
		1470	160L	27.7	G	6.1	70.5	2.2	2.7	90.0	91.9	91.8	0.60	0.74	0.82	1.00	2.73892	11	24	289	67
		970	180L	25.9	H	7.3	107	2.6	2.7	91.0	91.8	91.6	0.77	0.85	0.88	1.00	8.18068	12	26	420	56
		730	200L	33.1	G	5.0	142	2.1	2.4	89.0	90.8	91.3	0.51	0.63	0.69	1.00	8.93909	33	73	496	53
25	18.5	2950	160L	33.3	K	8.8	43.9	2.6	3.0	91.6	92.7	93.0	0.70	0.81	0.83	1.00	1.53557	11	24	307	70
		1475	180M	34.5	J	8.0	87.8	3.1	3.1	91.3	92.9	93.3	0.60	0.73	0.80	1.00	4.68264	12	26	391	64
		980	200L	33.7	G	6.5	132	2.4	2.7	90.5	92.8	93.0	0.65	0.75	0.82	1.00	8.93909	25	55	497	58
		740	225S/M	33.8	J	7.8	175	2.2	2.7	90.0	91.0	91.8	0.67	0.77	0.83	1.00	20.1045	16	35	750	56
30	22	2955	180M	38.6	J	8.6	52.6	3.0	3.0	92.0	93.2	93.4	0.74	0.82	0.85	1.00	2.82838	9	20	392	70
		1475	180L	38.5	J	8.6	105	3.0	3.2	92.0	93.4	93.6	0.67	0.78	0.85	1.00	5.53407	11	24	435	64
		980	200L	41.2	H	7.0	159	2.5	2.8	91.0	92.5	92.9	0.60	0.72	0.80	1.00	10.6420	20	44	550	58
		735	225S/M	41.4	K	8.5	211	2.4	3.1	90.8	92.0	92.4	0.60	0.73	0.80	1.00	23.4552	15	33	805	56
40	30	2960	200L	50.4	H	7.4	70.0	2.9	2.7	92.8	93.7	94.1	0.82	0.87	0.88	1.00	4.89550	13	29	555	74
		1480	200L	54.9	H	7.0	140	2.6	2.9	92.5	93.9	93.8	0.63	0.75	0.81	1.00	7.85344	18	40	549	69
		985	225S/M	56.1	K	8.0	210	2.8	3.4	91.0	93.2	93.0	0.61	0.74	0.80	1.00	23.4552	18	40	808	61
		735	250S/M	55.5	K	8.5	282	2.4	3.2	91.5	93.0	92.8	0.62	0.75	0.81	1.00	29.0401	16	35	970	56
50	37	2965	200L	63.5	J	8.3	87.4	2.9	2.9	93.0	94.0	94.3	0.70	0.80	0.86	1.00	5.32122	18	40	570	74
		1480	225S/M	63.7	H	7.2	175	2.4	2.9	92.5	93.9	93.9	0.70	0.82	0.86	1.00	16.6079	14	31	815	70
		985	250S/M	68.5	H	7.0	263	2.5	2.6	91.6	93.9	93.9	0.72	0.79	0.80	1.00	31.2738	20	44	978	61
		745	280S/M	71.3	J	7.6	348	2.0	2.4	91.7	93.0	93.8	0.60	0.72	0.77	1.00	62.7179	23	51	1389	59
60	45	2965	225S/M	74.4	J	8.5	105	2.7	3.2	93.3	94.4	94.6	0.80	0.87	0.89	1.00	10.6420	16	35	879	82
		1480	225S/M	75.4	H	7.4	210	2.5	3.1	93.8	94.2	94.4	0.77	0.85	0.88	1.00	19.9294	12	26	873	70
		985	280S/M	81.2	H	7.2	316	2.6	2.9	91.0	93.2	94.0	0.65	0.76	0.82	1.00	54.5372	25	55	1345	66
		740	280S/M	91.1	J	7.0	420	2.0	2.2	92.5	93.7	94.1	0.53	0.65	0.73	1.00	62.7179	26	57	1389	59
75	55	2970	250S/M	89.5	J	8.9	131	2.7	3.6	94.1	95.0	95.0	0.83	0.88	0.90	1.00	13.1960	15	33	1011	82
		1480	250S/M	91.8	H	7.6	263	2.5	3.1	94.0	94.7	94.7	0.74	0.84	0.88	1.00	27.4029	20	44	1065	70
		985	280S/M	102	H	7.0	394	2.5	2.7	92.0	93.5	94.2	0.60	0.74	0.80	1.00	62.7179	45	99	1444	66
		740	315S/M	100	G	6.5	525	2.1	2.1	93.5	94.5	94.6	0.65	0.75	0.81	1.00	81.8061	27	59	1710	62
100	75	2975	280S/M	126	H	7.7	174	2.0	3.0	93.0	94.4	95.0	0.78	0.85	0.87	1.00	30.1568	51	112	1579	83
		1485	280S/M	126	H	7.2	349	2.6	2.8	93.8	95.0	95.2	0.77	0.84	0.87	1.00	51.4464	21	46	1551	70
		985	315S/M	133	H	6.8	526	2.3	2.6	92.5	94.0	94.4	0.72	0.79	0.83	1.00	81.8061	24	53	1599	69
		745	315S/M	145	L	9.0	695	2.8	3.0	92.0	93.5	94.9	0.60	0.70	0.76	1.00	114.528	19	42	2007	62
125	90	2975	280S/M	149	H	8.2	218	2.0	3.0	94.3	95.5	95.8	0.81	0.86	0.88	1.00	33.5077	33	73	1632	83
		1485	280S/M	151	H	7.8	436	2.6	2.9	94.1	95.0	95.3	0.77	0.84	0.87	1.00	66.6898	22	48	1753	70
		985	315S/M	161	G	6.5	657	2.3	2.3	92.5	94.1	94.8	0.69	0.78	0.82	1.00	95.4404	48	106	1854	69
		740	315S/M	166	G	6.5	875	2.2	2.4	93.6	94.1	94.5	0.64	0.75	0.80	1.00	125.436	28	62	2225	62
150	110	2975	315S/M	182	H	8.0	261	2.0	2.9	94.4	95.4	95.8	0.80	0.86	0.88	1.00	35.7414	38	84	1830	83
		1485	280S/M	182	H	7.6	523	2.6	2.9	94.0	95.1	95.6	0.78	0.85	0.88	1.00	76.2170	29	64	1852	70
		985	315S/M	194	H	6.8	789	2.5	2.6	93.3	94.8	95.2	0.66	0.77	0.83	1.00	125.436	27	59	2161	69
		745	355M/L	215	H	6.6	1043	1.5	2.4	93.5	94.8	95.0	0.56	0.69	0.75	1.00	298.059	41	90	3065	70
175	132	2975	315S/M	217	J	8.3	305	2.1	2.9	94.3	95.5	96.0	0.78	0.85	0.88	1.00	41.3260	32	70	1985	83
		1485	315S/M	218	H	7.8	611	2.6	2.9	94.7	95.3	95.7	0.78	0.86	0.88	1.00	89.5549	34	75	2219	72
		990	355M/L	251	G	5.8	916	2.0	2.2	92.7	94.5	94.9	0.63	0.73	0.77	1.00	226.177	60	132	3014	73
		745	355M/L	257	H	6.5	1217	1.5	2.4	93.5	94.8	95.1	0.56	0.68	0.75	1.00	312.962	41	90	3186	70
200	150	2975	315S/M	244	H	7.5	348	2.1	2.9	95.0	95.8	96.2	0.82	0.88	0.89	1.00	50.2616	22	48	2183	83
		1485	315S/M	253	J	8.0	698	2.6	2.9	94.2	95.8	95.9	0.75	0.82	0.86	1.00	89.5549	18	40	2216	72
		995	355M/L	276	H	6.5	1041	2.2	2.4	94.0	95.3	95.7	0.64	0.74	0.79	1.00	237.486	58	128	3308	73
		745	355M/L	288	H	6.8	1391	1.6	2.5	94.0	95.0	95.4	0.58	0.70	0.76	1.00	387.477	41	90	3506	70
250	185	2975	315S/M	301	G	7.2	435	2.2	2.8	95.0	96.0	96.2	0.82	0.89	0.89	1.00	50.2616	37	81	2183	83
		1485	315S/M	319	H	7.3	872	2.7	3.2	95.0	95.8	95.9	0.70	0.80	0.84	1.00	89.5549	19	42	2189	72
		995	355M/L	345	H	6.7	1302	2.4	2.5	94.0	95.3	95.7	0.61	0.72	0.78	1.00	277.067	60	132	3528	73
		745	355M/L	355	J	7.0	1739	1.8	2.6	94.1	95.0	95.5	0.58	0.70	0.76	1.00	461.991	41	90	4145	70
300	220	2990	355M/L	353	J	8.5	520	2.3	3.4	94.5	96.1	96.4	0.82	0.88	0.90	1.00	122.71	63	139	3638	81
		1490	355M/L	366	H	8.0	1043	2.5	2.9	95.0	96.0	96.2	0.77	0.84	0.87	1.00	185.793	33	73	3572	79
		995	355M/L	415	H	6.9	1562	2.4	2.5	94.1	95.4	95.7	0.60	0.71	0.77	1.00	327.957	60	132	3958	73
		745	355M/L*	410	J	7.4	2086	1.9	2.5	94.5	95.4	95.6	0.61	0.72	0.78	1.00	484.346	31	68	4256	70
350	260	2985	355M/L	413	H	8.2	607	2.2	3.1	95.1	96.1	96.2	0.87	0.90	0.91	1.00	136.34	63	139	3749	81
		1490	355M/L	441	H	7.5	1217	2.2	2.6	94.0	95.0	95.4	0.80	0.84	0.86	1.00	199.064	10	22	3623	79
		995	355M/L	485	H	6.5	1822	2.3	2.4	94.2	95.4	95.7	0.62	0.73	0.78	1.00	339.266	60	132	4013	73
400	300	1490	355M/L	497	H	7.1	1391	2.3	2.4	94.3	95.0	95.4	0.83	0.86	0.88	1.00	243.301	30	66	4024	79
		990	355M/L*	545	F	5.7	2093	2.0	2.0	94.4	95.4	95.8	0.70	0.78	0.80	1.00	350.575	50	110	4079	73
450	330	990	355M/L*	621	G	5.8	2355	2.0	2.1	94.4	95.4	96.0	0.62	0.73	0.77	1.00	367.538	50	110	4190	73

Three Phase Metric Motors
Electrical Data

Tru-Metric - Cast Iron Frames - 60Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
5.5	4	880	160M	19.3	9.63	7.70	J	5.4	32.4	2.5	2.9	82.5	85.5	85.5	0.40	0.52	0.61	1.15	2.89720	24	53	243	54
7.5	5.5	1170	160M	19.0	9.52	7.62	H	6.8	33.2	2.3	2.9	88.5	89.5	89.5	0.62	0.74	0.81	1.15	2.55643	20	44	236	59
		880	160M	27.0	13.5	10.8	J	5.5	44.2	2.8	3.0	82.5	85.5	85.5	0.38	0.50	0.60	1.15	3.40858	20	44	257	54
10	7.5	1175	160M	28.4	14.2	11.4	J	7.0	44.1	3.0	3.5	87.5	89.5	89.5	0.51	0.65	0.74	1.15	3.40858	16	35	262	59
		880	160L	30.4	15.2	12.2	H	5.4	58.9	2.0	2.2	85.5	87.5	88.5	0.50	0.62	0.70	1.15	4.43110	15	33	301	54
		3560	160M	37.8	18.9	15.1	M	10.2	21.8	3.4	4.8	84.0	90.2	90.2	0.63	0.75	0.81	1.15	1.25650	12	26	258	75
15	11	1765	160M	40.0	20.0	16.0	J	7.0	44.0	3.2	3.2	87.5	90.2	91.0	0.56	0.69	0.76	1.15	2.38178	19	42	276	69
		1175	160L	43.2	21.6	17.3	K	7.5	66.1	3.4	3.8	87.5	89.5	90.2	0.48	0.62	0.71	1.15	4.17529	12	26	311	59
		885	180L	40.6	20.3	16.2	L	9.0	87.8	2.6	3.0	87.5	88.5	89.5	0.57	0.69	0.76	1.15	7.19897	10	22	404	54
		3550	160M	50.2	25.1	20.1	K	8.9	29.2	2.9	4.0	88.5	90.2	90.2	0.66	0.77	0.83	1.15	1.25650	11	24	258	75
20	15	1765	160L	53.8	26.9	21.5	J	6.7	58.7	3.0	3.0	88.5	90.2	91.0	0.58	0.70	0.77	1.15	2.73892	11	24	289	69
		1175	180L	47.0	23.5	18.8	K	9.0	88.2	2.8	3.8	91.7	92.4	92.0	0.71	0.82	0.87	1.15	8.18068	12	26	420	59
		880	200L	61.8	30.9	24.7	G	5.0	118	2.1	2.1	87.5	86.5	89.5	0.48	0.61	0.68	1.15	8.93909	33	73	496	56
		3555	160L	60.0	30.0	24.0	L	9.9	36.4	3.1	4.1	89.5	91.0	91.0	0.71	0.81	0.85	1.15	1.53557	11	24	307	75
25	18.5	1770	180M	63.6	31.8	25.4	K	8.5	73.2	3.4	3.2	90.2	91.7	92.4	0.60	0.73	0.79	1.15	4.68264	12	26	391	68
		1180	200L	63.4	31.7	25.4	H	6.6	110	2.4	2.4	91.0	92.4	91.7	0.63	0.76	0.80	1.15	8.93909	25	55	497	62
		885	225S/M	61.8	30.9	24.7	J	7.8	146	2.0	2.9	91.0	91.7	91.7	0.64	0.76	0.82	1.15	20.1045	16	35	750	60
		3555	180M	71.4	35.7	28.6	L	9.5	43.7	2.8	3.7	89.5	91.0	91.0	0.74	0.82	0.85	1.15	2.82838	9	20	392	75
30	22	1770	180L	73.8	36.9	29.5	K	8.7	87.8	3.5	3.2	91.0	92.4	92.4	0.65	0.76	0.81	1.15	5.53407	11	24	435	68
		1180	200L	74.8	37.4	29.9	H	7.0	132	2.5	2.4	91.0	92.4	92.4	0.63	0.76	0.80	1.15	10.6420	20	44	550	62
		885	225S/M	74.8	37.4	29.9	K	8.5	176	2.1	3.2	91.0	92.4	92.4	0.60	0.73	0.80	1.15	23.4552	15	33	805	60
		3575	200L	97.0	48.5	38.8	K	8.4	58.0	3.2	3.5	90.2	91.7	92.4	0.72	0.80	0.84	1.15	4.89550	13	29	555	81
40	30	1780	200L	102	51.2	41.0	J	7.8	116	2.8	2.8	91.7	93.0	93.0	0.65	0.75	0.79	1.15	7.85344	18	40	549	71
		1185	225S/M	101	50.6	40.5	K	8.0	175	3.1	3.5	90.2	91.7	93.0	0.60	0.73	0.80	1.15	23.4552	18	40	808	65
		885	250S/M	101	50.6	40.5	K	8.5	234	2.2	3.2	92.4	93.0	93.0	0.63	0.75	0.80	1.15	29.0401	16	35	970	60
		3570	200L	118	59.1	47.3	K	8.5	72.6	3.8	3.4	91.2	92.4	92.4	0.73	0.81	0.85	1.15	5.32122	18	40	570	81
50	37	1780	225S/M	116	58.1	46.5	H	7.4	146	2.6	3.0	91.7	93.0	93.0	0.72	0.82	0.86	1.15	16.6079	14	31	815	75
		1185	250S/M	122	60.9	48.7	J	8.0	219	3.2	3.4	91.0	92.4	93.0	0.68	0.78	0.82	1.15	31.2738	20	44	978	65
		895	280S/M	129	64.4	51.5	K	8.0	289	2.0	2.5	91.7	92.4	92.4	0.63	0.73	0.78	1.15	62.7179	23	51	1389	63
		3565	225S/M	135	67.5	54.0	J	8.5	87.2	2.9	3.6	91.0	92.4	93.0	0.81	0.88	0.90	1.15	10.6420	16	35	879	85
60	45	1780	225S/M	136	67.8	54.2	H	7.4	175	3.0	3.2	92.4	93.0	93.6	0.77	0.85	0.89	1.15	19.9294	12	26	873	75
		1190	280S/M	146	73.2	58.6	H	7.2	261	2.2	2.6	93.0	93.6	94.1	0.67	0.77	0.82	1.15	54.5372	25	55	1345	70
		890	280S/M	160	80.0	64.0	L	8.5	349	2.3	2.8	93.0	93.6	94.1	0.58	0.69	0.75	1.15	62.7179	26	57	1389	63
		3565	250S/M	163	81.6	65.3	J	8.9	109	2.8	3.6	90.2	92.4	93.0	0.84	0.89	0.91	1.15	13.1960	15	33	1011	85
75	55	1780	250S/M	167	83.4	66.7	J	8.2	218	3.1	3.5	93.0	94.1	94.1	0.75	0.84	0.88	1.15	27.4029	20	44	1065	75
		1190	280S/M	178	89.1	71.3	H	7.0	327	2.2	2.6	93.6	94.1	94.5	0.66	0.77	0.82	1.15	62.7179	45	99	1444	70
		890	315S/M	187	93.7	75.0	J	7.8	437	2.0	2.5	93.6	94.1	94.5	0.63	0.74	0.78	1.15	81.8061	27	59	1710	66
		3575	280S/M	232	116	92.8	J	8.6	145	2.3	3.4	90.2	93.0	93.6	0.78	0.84	0.87	1.15	30.1568	51	112	1579	86
100	75	1785	280S/M	228	114	91.2	J	8.0	290	2.7	2.8	93.0	94.1	94.5	0.75	0.83	0.87	1.15	51.4464	21	46	1551	76
		1190	315S/M	234	117	93.6	G	6.4	435	2.1	2.2	94.1	94.5	95.0	0.74	0.82	0.85	1.15	81.8061	24	53	1599	73
		895	315S/M	266	133	106	M	9.5	579	2.8	3.0	92.5	93.0	93.0	0.62	0.72	0.76	1.15	114.528	19	42	2007	66
		3575	280S/M	272	136	109	J	8.8	181	2.5	3.5	91.0	93.6	94.5	0.79	0.85	0.88	1.15	33.5077	33	73	1632	86
125	90	1785	280S/M	274	137	110	J	8.6	363	2.6	2.8	93.6	94.1	94.5	0.75	0.83	0.87	1.15	66.6898	22	48	1753	76
		1190	315S/M	280	140	112	G	7.0	544	2.4	2.4	94.1	94.5	95.0	0.73	0.81	0.85	1.15	95.4404	48	106	1854	73
		890	315S/M	298	149	119	J	7.5	728	2.2	2.5	93.6	94.1	94.5	0.65	0.75	0.80	1.15	125.436	28	62	2225	66
		3575	315S/M	332	166	133	J	8.8	217	2.5	3.4	92.4	94.1	94.5	0.80	0.86	0.88	1.15	35.7414	38	84	1830	88
150	110	1785	280S/M	334	167	134	J	8.6	435	2.6	2.7	91.1	94.5	95.0	0.78	0.84	0.87	1.15	76.2170	29	64	1852	76
		1185	315S/M	364	182	146	J	7.6	656	3.1	3.0	93.0	94.5	95.0	0.62	0.74	0.80	1.15	125.436	30	66	2161	73
		895	355M/L	382	191	153	H	6.8	868	1.4	2.4	92.5	93.6	94.1	0.59	0.71	0.77	1.15	298.059	41	90	3065	75
		3575	315S/M	392	196	157	J	8.8	254	2.5	3.3	93.0	94.1	95.0	0.83	0.88	0.89	1.15	41.3260	32	70	1985	88
175	132	1785	315S/M	410	205	164	J	8.3	508	2.6	2.8	94.1	94.5	95.0	0.72	0.81	0.85	1.15	89.5549	34	75	2219	77
		1190	355M/L	442	221	177	H	6.4	762	2.0	2.3	93.0	94.1	95.0	0.65	0.74	0.79	1.15	226.177	60	132	3014	77
		895	355M/L	458	229	183	H	6.7	1013	1.4	2.4	92.6	93.6	94.1	0.59	0.71	0.77	1.15	312.962	41	90	3186	75
		3575	315S/M	440	220	176	J	8.6	290	2.5	3.1	93.6	94.5	95.0	0.83	0.89	0.90	1.15	50.2616	22	48	2183	88
200	150	1785	315S/M	466	233	186	J	8.4	580	2.8	2.9	94.1	94.5	95.0	0.73	0.81	0.85	1.15	89.5549	18	40	2216	77
		1195	355M/L	496	248	198	H	6.7	867	2.3	2.4	93.5	94.5	95.0	0.66	0.76	0.80	1.15	237.486	58	128	3308	77
		895	355M/L	514	257	206	J	7.0	1158	1.5	2.5	93.0	94.1	94.1	0.60	0.72	0.78	1.15	387.477	41	90	3506	75
		3575	315S/M	554	277	222	K	9.4	362	2.9	3.9	93.6	94.5	95.4	0.77	0.85	0.88	1.15	50.2616	37	81	2183	88
250	185	1785	315S/M	588	294	235	K	8.6	726	2.7	3.0	93.6	94.5	95.0	0.69	0.78	0.83	1.15	89.5549	19	42	2189	77
		1195	355M/L	612	306	245	H	7.0	1084	2.5	2.7	93.5	94.5	95.0	0.65	0.75	0.80	1.15	277.067	60	132	3528	77
		895	355M/L	630	315	252	J	7.3	1447	1.6	2.6	93.0	94.1	94.5	0.60	0.71	0.78	1.15	461.991	41	90	4145	75
		3585	355M/L	636	318	254	J	9.2	434	2.4	3.5	93.8	95.0	95.4	0.83	0.89	0.91	1.15	122.709	63	139	3638	85
300	220	1790	355M/L	666	333	266	H	8.0	868	2.3	2.6	94.3	95.0	95.4	0.79	0.85	0.87	1.15	185.793	35	77	3572	83
		1195	355M/L	736	368	294	H	7.2	1301	2.5	2.6	94.1	95.0	95.0	0.64	0.74	0.79	1.15	327.957	60	132	3958	77
		895	355M/L*	740	370	296	J	7.6	1737	1.8	2.5	93.8	94.5	94.5	0.62	0.73	0.79	1.00	484.346	31	68	4256	75
		3585	355M/L	744	372	298	J	8.6	506	2.3	3.2	94.4	95.4	95.4	0.87	0.91	0.92	1.15	136.343	63	139	3749	85
350	260	1790	355M/L	786	393	314	H	7.9	1013	2.4	2.6	94.0	95.0	95.4	0.80	0.85	0.87	1.15	199.064	10	22	3623	83
		1195	355M/L	858	429	343	H	6.7	1517	2.4	2.4	94.2	95.0	95.0	0.66	0.76	0.80	1.15	339.266	60	132	4013	77
400	300	1790	355M/L	898	449	359	H	7.5	1158	2.3	2.4	94.2	95.0	95.4	0.83	0.86	0.88	1.15	243.301	30	66	4024	83
		1190	355M/L*	966	483	386	G	6.0	1741	2.0	2.0	94.5	95.0	95.0	0.72	0.80	0.82	1.00	350.575	50	110	4079	77
450	330	1190	355M/L*	1090	545	436	G	6.2	1959	2.1	2.1	94.5	95.0	95.0	0.67	0.76	0.80	1.00	367.538	50	110	4190	77

* ΔT 105K.

Three Phase Metric Motors
Electrical Data

Tru-Metric - Aluminum Frames - 380V (50Hz)

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_i/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW			380V	(kVA Code)	(I_i/I_n)				50	75	100	50	75	100			Hot	Cold		
0.25	0.18	2700	63	0.50	G	4.4	0.48	2.2	2.3	62.0	66.0	68.0	0.58	0.70	0.80	1.15	0.00285	20	44	8	52
		1390	63	0.55	H	4.6	0.93	2.0	2.1	63.0	66.0	68.0	0.50	0.63	0.73	1.15	0.01329	19	42	14	44
		880	71	0.79	J	3.5	1.47	2.1	2.2	53.0	59.0	61.0	0.37	0.47	0.57	1.15	0.01875	15	33	19	43
		690	80	0.78	L	4.5	1.88	1.7	1.8	44.0	53.3	55.5	0.45	0.55	0.63	1.15	0.05743	8	18	25	42
0.33	0.25	2700	63	0.68	G	4.6	0.63	2.5	2.6	65.0	68.0	70.0	0.56	0.70	0.80	1.15	0.00380	22	48	13	52
		1385	71	0.75	J	5.0	1.23	2.6	2.6	68.0	70.0	72.0	0.47	0.61	0.70	1.15	0.01875	32	70	20	43
		880	71	1.04	J	3.5	1.94	2.0	2.0	57.0	62.0	63.0	0.37	0.48	0.58	1.15	0.02278	11	24	21	43
		690	80	0.95	J	4.1	2.48	1.7	1.7	52.0	61.0	63.8	0.43	0.55	0.63	1.15	0.06977	10	22	27	42
0.5	0.37	2760	71	0.93	H	5.5	0.94	2.3	2.5	70.0	72.0	73.0	0.63	0.75	0.83	1.15	0.00783	23	51	17	56
		1370	71	1.13	J	5.0	1.89	2.6	2.6	68.0	71.0	73.0	0.45	0.58	0.68	1.15	0.01875	36	79	20	43
		920	80	1.16	J	5.2	2.82	1.6	2.0	64.0	68.5	70.0	0.48	0.63	0.69	1.15	0.05743	16	35	25	43
		680	90S	1.45	K	4.5	3.81	2.2	2.2	55.0	64.9	67.0	0.44	0.52	0.58	1.15	0.10631	12	26	33	43
0.75	0.55	2750	71	1.31	H	5.7	1.41	2.4	2.4	73.0	74.0	75.0	0.67	0.79	0.85	1.15	0.01068	16	35	19	56
		1410	80	1.36	H	5.7	2.76	2.2	2.5	71.0	76.0	77.0	0.62	0.74	0.80	1.15	0.05743	10	22	26	44
		910	80	1.56	J	5.3	4.27	2.0	2.1	65.0	68.5	70.5	0.53	0.67	0.76	1.15	0.07380	9	20	29	43
		680	90L	1.82	K	5.2	5.71	2.2	2.1	65.0	73.5	74.0	0.45	0.53	0.62	1.15	0.14618	11	24	42	43
1	0.75	2750	80	1.68	H	6.0	1.88	2.4	2.4	75.0	78.0	78.0	0.75	0.84	0.87	1.15	0.01875	18	40	27	59
		1400	80	1.65	G	5.5	3.70	2.2	2.3	79.5	80.5	80.5	0.69	0.80	0.86	1.15	0.09017	8	18	35	44
		930	90S	1.99	H	5.3	5.57	2.0	2.0	77.0	78.5	76.4	0.54	0.67	0.75	1.15	0.13289	22	48	44	45
		690	100L	2.43	J	4.6	7.51	1.7	2.0	71.5	74.0	75.5	0.44	0.54	0.62	1.15	0.26601	16	35	52	50
1.5	1.1	2800	80	2.41	J	7.2	2.78	2.9	2.9	79.0	80.0	81.5	0.69	0.79	0.85	1.15	0.02278	10	22	29	59
		1450	90S	2.59	K	7.5	5.36	2.3	2.4	81.5	83.8	83.8	0.56	0.70	0.77	1.15	0.11960	10	22	37	49
		910	90L	3.33	K	5.5	8.54	2.2	2.2	70.0	72.5	74.8	0.50	0.60	0.67	1.15	0.15947	8	18	44	45
		690	100L	3.34	G	4.2	11.3	1.4	2.0	71.0	74.5	76.9	0.43	0.56	0.65	1.15	0.34575	18	40	61	50
2	1.5	2845	90S	3.09	J	7.3	3.64	2.3	2.5	83.0	84.3	84.7	0.71	0.83	0.87	1.15	0.04865	10	22	35	62
		1450	90L	3.26	L	8.6	7.15	2.6	3.0	83.5	85.5	85.2	0.60	0.74	0.82	1.15	0.15947	9	20	44	49
		945	100L	4.22	J	5.5	11.0	2.2	2.5	77.0	79.0	79.5	0.47	0.59	0.68	1.15	0.34575	25	55	61	44
		700	112M	4.09	J	5.7	14.8	2.1	2.6	79.8	81.0	82.0	0.47	0.58	0.68	1.15	0.57664	17	37	77	46
3	2.2	2850	90L	4.50	J	8.0	5.45	2.5	2.7	85.2	86.3	86.4	0.70	0.81	0.86	1.15	0.05743	6	13	38	62
		1440	100L	5.02	M	9.4	10.8	3.9	4.0	85.5	86.5	86.5	0.56	0.69	0.77	1.15	0.29069	10	22	73	53
		955	112M	5.58	K	7.0	16.3	2.7	2.7	84.0	85.5	85.5	0.49	0.62	0.70	1.15	0.62101	16	35	88	48
		700	132S	5.56	K	7.0	22.2	2.2	2.5	82.5	84.0	84.6	0.51	0.63	0.71	1.15	1.78616	20	44	135	48
4	3	2880	100L	5.89	J	8.2	7.20	2.3	2.7	86.5	88.0	88.0	0.76	0.85	0.88	1.15	0.15947	8	18	61	67
		1430	100L	6.60	K	7.6	14.5	3.6	3.6	85.7	86.5	87.4	0.59	0.72	0.79	1.15	0.29069	10	22	74	53
		970	132S	7.36	K	7.1	21.4	2.2	2.7	84.0	86.0	86.0	0.52	0.64	0.72	1.15	1.37990	20	44	135	52
		700	132M	7.14	H	6.0	29.6	2.1	2.2	84.3	86.0	86.3	0.54	0.66	0.74	1.15	2.02441	19	42	145	48
5.5	4	2885	112M	7.73	J	8.2	9.88	2.2	2.8	86.7	88.0	88.3	0.77	0.85	0.89	1.15	0.19981	10	22	85	64
		1445	112M	8.40	J	7.1	19.7	1.8	2.3	87.5	88.5	88.3	0.66	0.77	0.82	1.15	0.44494	12	26	94	56
		965	132M	9.29	J	6.6	29.5	2.2	2.4	84.2	86.8	87.2	0.60	0.70	0.75	1.15	1.37990	20	44	136	52
7.5	5.5	2930	132S	10.6	J	8.0	13.3	2.2	2.7	89.0	90.3	90.2	0.75	0.83	0.87	1.15	0.57664	15	33	186	67
		1460	132S	10.9	K	8.5	26.6	2.1	2.8	88.2	89.5	90.0	0.68	0.80	0.85	1.15	1.28783	9	20	133	56
		940	132M	12.4	J	6.8	41.3	2.0	2.3	83.6	86.6	87.6	0.60	0.71	0.77	1.15	1.56381	11	24	146	52
10	7.5	2915	132S	14.3	J	8.0	17.8	2.1	2.7	88.9	90.5	90.6	0.74	0.83	0.88	1.15	0.57664	8	18	185	67
		1455	132M	14.3	J	8.2	35.6	2.0	2.6	88.0	89.8	90.3	0.75	0.84	0.88	1.15	1.56381	8	18	149	56

Three Phase Metric Motors
Electrical Data

Tru-Metric - Aluminum Frames - 415V (50Hz)

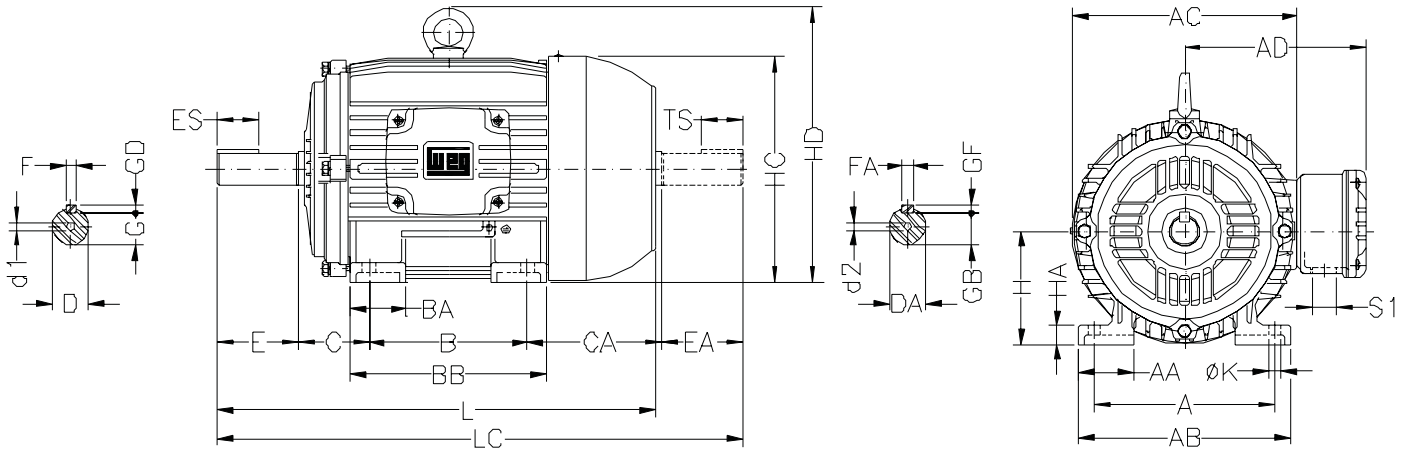
Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
										% of full load											
HP	kW			415V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
0.25	0.18	2760	63	0.53	H	4.4	0.47	2.8	2.8	58.0	64.0	67.0	0.48	0.60	0.70	1.15	0.00285	20	44	8	52
		1410	63	0.57	J	4.6	0.92	2.6	2.7	60.0	66.0	68.0	0.42	0.54	0.65	1.15	0.01329	19	42	14	44
		900	71	0.88	K	3.5	1.44	2.6	2.6	47.0	54.0	58.0	0.32	0.41	0.49	1.15	0.01875	15	33	19	43
		710	80	0.78	M	4.5	1.82	1.9	2.0	43.9	53.0	56.3	0.40	0.50	0.57	1.15	0.05743	8	18	25	42
0.33	0.25	2760	63	0.68	H	4.6	0.62	2.8	3.0	63.0	67.0	71.0	0.47	0.61	0.72	1.15	0.00380	22	48	13	52
		1410	71	0.76	K	5.0	1.21	3.1	3.1	67.0	71.0	72.0	0.41	0.54	0.64	1.15	0.01875	32	70	20	43
		900	71	1.12	K	3.5	1.90	2.6	2.6	51.0	58.0	61.0	0.33	0.42	0.51	1.15	0.02278	11	24	21	43
		710	80	0.92	K	4.1	2.41	1.9	1.9	56.5	62.5	64.2	0.40	0.52	0.59	1.15	0.06977	10	22	27	42
0.5	0.37	2800	71	0.92	J	5.5	0.93	2.8	3.0	69.0	72.0	73.0	0.54	0.67	0.77	1.15	0.00783	23	51	17	56
		1410	71	1.21	K	5.0	1.84	3.2	3.2	64.0	70.0	71.0	0.38	0.50	0.60	1.15	0.01875	36	79	20	43
		930	80	1.19	K	5.2	2.79	1.8	2.2	61.0	67.0	70.0	0.40	0.58	0.62	1.15	0.05743	16	35	25	43
		690	90S	1.42	L	4.5	3.75	2.4	2.5	52.0	64.0	67.0	0.35	0.47	0.54	1.15	0.10631	12	26	33	43
0.75	0.55	2820	71	1.26	H	5.7	1.38	2.9	2.9	72.0	74.0	76.0	0.58	0.71	0.80	1.15	0.01068	16	35	19	56
		1455	80	1.30	J	5.7	2.67	2.8	2.9	72.0	76.5	78.3	0.53	0.67	0.75	1.15	0.05743	10	22	26	44
		930	80	1.63	K	5.3	4.18	2.2	2.3	60.0	68.9	71.0	0.44	0.60	0.66	1.15	0.07380	9	20	29	43
		700	90L	1.79	K	5.2	5.55	2.4	2.4	65.0	73.0	73.5	0.37	0.50	0.58	1.15	0.14618	11	24	42	43
1	0.75	2800	80	1.57	H	6.0	1.85	2.8	2.9	77.0	79.0	79.0	0.67	0.79	0.84	1.15	0.01875	18	40	27	59
		1430	80	1.54	G	5.5	3.62	2.6	2.8	78.5	81.3	81.5	0.62	0.75	0.83	1.15	0.09017	8	18	35	44
		940	90S	1.92	J	5.3	5.51	2.6	2.4	77.1	78.9	77.8	0.48	0.61	0.70	1.15	0.13289	22	48	44	45
		710	100L	2.29	J	4.6	7.30	1.9	2.2	70.0	74.0	76.0	0.38	0.51	0.60	1.15	0.26601	16	35	52	50
1.5	1.1	2825	80	2.35	K	7.2	2.75	3.4	3.4	78.0	80.0	81.5	0.58	0.71	0.80	1.15	0.02278	10	22	29	59
		1460	90S	2.65	L	7.5	5.32	2.7	3.0	75.0	83.0	83.8	0.47	0.62	0.69	1.15	0.11960	10	22	37	49
		930	90L	3.30	K	5.5	8.36	2.4	2.4	69.5	72.5	74.9	0.45	0.55	0.62	1.15	0.15947	8	18	44	45
		710	100L	3.26	H	4.2	11.0	1.6	2.2	70.0	74.0	77.0	0.39	0.51	0.61	1.15	0.34575	18	40	61	50
2	1.5	2865	90S	2.95	J	7.3	3.62	2.8	3.1	83.0	84.9	85.3	0.63	0.76	0.83	1.15	0.04865	10	22	35	62
		1460	90L	3.32	M	8.6	7.10	3.0	3.6	83.0	84.6	85.0	0.50	0.64	0.74	1.15	0.15947	9	20	44	49
		955	100L	4.24	K	5.5	10.9	2.8	3.2	74.0	78.5	79.3	0.40	0.52	0.62	1.15	0.34575	25	55	61	44
		715	112M	4.05	K	5.7	14.5	2.4	3.0	79.3	80.8	81.8	0.43	0.55	0.63	1.15	0.57664	17	37	77	46
3	2.2	2860	90L	4.31	K	8.0	5.4	3.1	3.3	84.8	86.0	86.6	0.58	0.73	0.82	1.15	0.05743	6	13	38	62
		1445	100L	4.98	N	9.4	10.80	4.9	5.0	83.8	86.0	86.5	0.48	0.62	0.71	1.15	0.29069	10	22	73	53
		965	112M	5.51	L	7.0	16.1	3.5	3.5	82.5	85.5	85.5	0.42	0.55	0.65	1.15	0.62101	16	35	88	48
		715	132S	5.26	K	7.0	21.7	2.6	2.9	81.6	83.9	84.4	0.48	0.59	0.69	1.15	1.78616	20	44	135	48
4	3	2900	100L	5.50	K	8.2	7.15	2.9	3.3	86.3	88.0	88.3	0.65	0.80	0.86	1.15	0.15947	8	18	61	67
		1440	100L	6.54	M	8.6	14.4	4.5	4.6	83.9	85.5	87.4	0.50	0.64	0.73	1.15	0.29069	10	22	74	53
		975	132S	7.16	M	8.4	21.3	2.8	3.1	83.0	86.0	87.0	0.45	0.58	0.67	1.15	1.37990	20	44	135	52
		715	132M	6.72	J	6.0	29.0	2.5	2.6	84.0	85.5	86.2	0.50	0.63	0.72	1.15	2.02441	19	42	145	48
5.5	4	2910	112M	7.31	J	8.2	9.79	2.6	3.4	86.7	88.3	88.5	0.65	0.82	0.86	1.15	0.19981	10	22	85	64
		1455	112M	8.06	J	7.1	19.6	2.4	2.9	87.5	88.5	88.5	0.58	0.71	0.78	1.15	0.44494	12	26	94	56
		970	132M	9.13	J	6.6	29.4	2.4	2.6	83.5	86.4	87.1	0.50	0.63	0.70	1.15	1.37990	20	44	136	52
7.5	5.5	2950	132S	10.1	J	8.0	13.2	2.7	3.3	88.0	89.8	90.0	0.70	0.78	0.84	1.15	0.57664	15	33	186	67
		1470	132S	10.5	K	8.5	26.4	2.5	3.4	87.5	89.4	89.9	0.55	0.72	0.81	1.15	1.28783	9	20	133	56
		950	132M	11.6	J	6.8	40.9	2.2	2.5	83.0	86.5	87.6	0.55	0.68	0.75	1.15	1.56381	11	24	146	52
10	7.5	2920	132S	13.3	J	8.0	17.7	2.6	3.2	88.5	90.7	90.9	0.70	0.80	0.86	1.15	0.57664	8	18	185	67
		1465	132M	13.8	K	8.2	35.4	2.4	3.1	88.0	89.9	90.3	0.62	0.78	0.84	1.15	1.56381	8	18	149	56

Three Phase Metric Motors
Electrical Data

Tru-Metric - Aluminum Frames - 60Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		3310	63	0.95	0.48	0.38	J	5.0	0.39	3.0	3.1	58.0	65.0	68.0	0.48	0.60	0.70	1.15	0.00285	20	44	8	56
0.25	0.18	1710	63	1.02	0.51	0.41	J	4.6	0.76	2.8	2.9	63.0	67.0	69.0	0.42	0.54	0.64	1.15	0.01329	19	42	14	48
		1100	71	1.54	0.77	0.62	K	3.5	1.18	2.8	2.8	49.0	57.0	61.0	0.31	0.40	0.48	1.15	0.01875	15	33	19	47
		860	80	1.60	0.80	0.64	K	3.3	1.51	2.0	2.4	34.6	43.3	50.5	0.40	0.48	0.56	1.15	0.05743	8	18	25	46
		3350	63	1.25	0.62	0.50	K	5.4	0.51	3.3	3.4	62.0	67.0	70.0	0.50	0.62	0.72	1.15	0.00380	22	48	13	56
0.33	0.25	1710	71	1.36	0.68	0.55	K	5.0	1.00	3.1	3.4	66.0	71.0	73.0	0.42	0.54	0.63	1.15	0.01875	32	70	20	47
		1100	71	2.00	1.00	0.80	K	3.5	1.55	2.8	2.8	53.0	62.0	64.0	0.31	0.41	0.49	1.15	0.02278	11	24	21	47
		845	80	1.73	0.87	0.69	J	3.4	2.02	1.7	2.0	47.2	54.3	57.5	0.43	0.54	0.63	1.15	0.06977	10	22	27	46
		3420	71	1.65	0.83	0.66	J	5.5	0.76	3.1	3.3	67.0	72.0	73.0	0.56	0.68	0.77	1.15	0.00783	23	51	17	60
0.5	0.37	1710	71	2.12	1.06	0.85	K	5.0	1.51	3.4	3.6	65.0	71.0	73.0	0.38	0.51	0.60	1.15	0.01875	36	79	20	47
		1135	80	2.14	1.07	0.86	K	5.0	2.28	2.9	3.0	57.0	63.0	64.0	0.48	0.60	0.68	1.15	0.05743	16	35	25	47
		840	90S	2.70	1.35	1.08	L	4.4	3.08	2.3	2.5	56.5	62.0	61.5	0.36	0.46	0.56	1.15	0.10631	12	26	33	47
		3420	71	2.28	1.14	0.91	H	5.7	1.14	3.2	3.2	72.0	75.0	76.0	0.60	0.72	0.80	1.15	0.01068	16	35	19	60
0.75	0.55	1740	80	2.50	1.25	1.00	L	7.5	2.23	3.2	3.6	72.0	76.5	77.0	0.50	0.63	0.72	1.15	0.05743	10	22	26	48
		1135	80	3.26	1.63	1.30	L	5.2	3.42	3.3	3.2	56.5	63.0	66.0	0.44	0.55	0.64	1.15	0.07380	9	20	29	47
		845	90L	4.24	2.12	1.70	L	4.0	4.60	2.7	2.9	56.4	62.2	62.5	0.33	0.43	0.52	1.15	0.14618	11	24	42	47
		3400	80	2.84	1.42	1.14	H	6.0	1.52	2.9	3.1	76.0	79.0	79.0	0.69	0.79	0.84	1.15	0.01875	18	40	27	62
1	0.75	1730	80	2.82	1.41	1.13	K	7.4	2.99	3.1	3.2	80.0	82.5	82.5	0.61	0.74	0.81	1.15	0.09017	8	18	35	48
		1145	90S	3.42	1.71	1.37	J	5.4	4.52	2.6	2.7	77.8	80.0	80.0	0.47	0.60	0.69	1.15	0.13289	22	48	44	49
		865	100L	4.62	2.31	1.85	K	4.6	5.99	1.6	2.4	70.0	72.0	74.0	0.37	0.46	0.55	1.15	0.26601	16	35	52	54
		3410	80	4.14	2.07	1.66	J	7.2	2.28	3.7	3.7	79.0	80.5	82.5	0.61	0.73	0.81	1.15	0.02278	10	22	29	62
1.5	1.1	1745	90S	4.32	2.16	1.73	K	7.6	4.45	2.9	3.5	80.0	82.5	84.0	0.55	0.67	0.76	1.15	0.11960	10	22	37	51
		1145	90L	5.50	2.75	2.20	K	5.6	6.79	3.2	3.0	74.5	78.0	78.5	0.42	0.55	0.64	1.15	0.15947	8	18	44	49
		860	100L	6.52	3.26	2.61	J	4.2	9.04	1.7	2.4	72.0	75.5	77.0	0.37	0.47	0.55	1.15	0.34575	18	40	61	54
		3480	90S	5.40	2.70	2.16	L	9.1	2.98	3.8	3.7	81.5	83.7	84.0	0.65	0.76	0.83	1.15	0.04865	10	22	35	68
2	1.5	1755	90L	5.98	2.99	2.39	M	8.8	5.90	3.5	4.0	81.5	84.0	84.0	0.53	0.65	0.75	1.15	0.15947	9	20	44	51
		1160	100L	7.46	3.73	2.98	L	6.1	8.93	2.7	3.3	77.0	80.0	81.5	0.41	0.52	0.62	1.15	0.34575	25	55	61	48
		870	112M	8.16	4.08	3.26	L	5.7	11.9	3.5	3.8	77.0	80.0	82.5	0.35	0.47	0.56	1.15	0.57664	17	37	77	50
		3490	90L	8.28	4.14	3.31	M	9.9	4.5	4.2	4.4	82.7	84.5	85.5	0.57	0.70	0.78	1.15	0.05743	6	13	38	68
3	2.2	1745	100L	8.88	4.44	3.55	M	9.0	8.9	4.9	5.4	84.0	86.5	87.5	0.49	0.63	0.71	1.15	0.29069	10	22	73	54
		1165	112M	9.38	4.69	3.75	L	8.0	13.3	3.4	3.5	84.0	86.5	86.5	0.45	0.58	0.68	1.15	0.62101	16	35	88	52
		875	132S	9.40	4.70	3.76	L	7.4	17.8	2.5	2.7	82.5	84.0	84.0	0.50	0.62	0.70	1.15	1.78616	20	44	135	52
		3505	100L	10.4	5.21	4.17	L	9.0	5.91	3.5	4.0	80.0	82.5	84.0	0.71	0.81	0.86	1.15	0.15947	8	18	61	71
4	3	1740	100L	11.8	5.89	4.71	N	9.7	11.9	4.6	4.9	84.0	86.5	87.5	0.51	0.65	0.73	1.15	0.29069	10	22	74	54
		1175	132S	13.7	6.83	5.46	M	8.1	17.6	2.7	3.4	84.0	86.5	87.5	0.42	0.54	0.63	1.15	1.37990	20	44	135	55
		870	132M	12.8	6.40	5.12	L	7.1	23.8	2.4	2.6	82.5	84.0	84.0	0.49	0.61	0.70	1.15	2.02441	19	42	145	52
		3495	112M	13.7	6.83	5.46	L	9.5	8.15	3.0	4.2	84.0	86.5	87.5	0.69	0.79	0.84	1.15	0.19981	10	22	85	69
5.5	4	1755	112M	14.4	7.19	5.75	J	7.6	16.2	2.3	3.1	88.5	89.5	89.5	0.59	0.71	0.78	1.15	0.44494	12	26	94	56
		1170	132M	16.9	8.44	6.75	L	7.7	24.4	2.4	3.2	85.5	87.5	87.5	0.48	0.60	0.68	1.15	1.37990	20	44	136	55
		3535	132S	17.9	8.97	7.18	K	9.2	11.0	3.0	3.8	84.0	87.5	88.5	0.72	0.82	0.87	1.15	0.57664	15	33	186	72
7.5	5.5	1770	132S	18.6	9.29	7.43	L	10.0	22.0	2.6	3.5	87.5	89.5	89.5	0.64	0.76	0.83	1.15	1.28783	9	20	133	58
		1170	132M	22.6	11.3	9.04	K	7.2	33.2	2.1	2.8	85.5	87.5	87.5	0.50	0.63	0.70	1.15	1.56381	11	24	146	55
		3535	132S	24.8	12.4	9.92	L	9.4	14.7	3.0	3.9	85.5	88.5	89.5	0.69	0.80	0.85	1.15	0.57664	8	18	185	72
10	7.5	1765	132M	25.4	12.7	10.2	L	9.5	29.4	2.6	3.5	88.5	89.5	89.5	0.63	0.75	0.83	1.15	1.56381	8	18	149	58

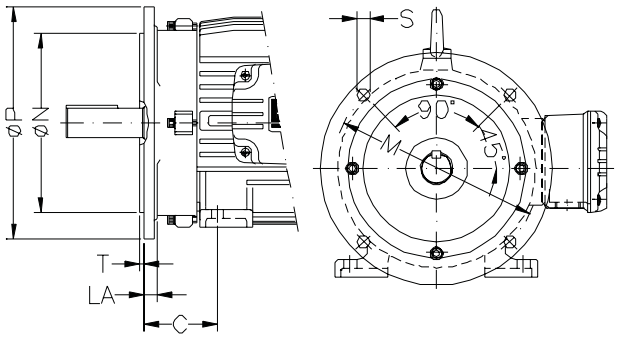
Three Phase Metric Motors
Mechanical Data - Tru-Metric Line - Cast Iron Frames



IEC Frame	NEMA Frame	A	AA	AB	AC	AD	B	BA	BB	C	CA	SHAFT DIMENSIONS D	E	ES	F	G	GD	DA	EA	TS	FA	GB	GF	H	HA	HC	HD	K	L	LC	S1	d1	d2	BEARINGS D.E.	O.D.E.
63	–	100 3.937	21 0.827	116 4.567	125 4.921	119 4.685	80 3.150	22 0.866	95 3.740	40 1.575	78 3.071	11j6 0.433	23 0.906	14 0.551	4 0.157	8.5 0.335	4 0.157	9j6 0.354	20 0.787	12 0.472	3 0.118	7.2 0.283	3 0.118	63 2.480	8 0.315	124 4.882		7 0.276	216 8.504	241 9.488	NPT0.5*	EM4	EM3	6201-ZZ	
71	–	112 4.409	30 1.181	132 5.197	141 5.551	127 5.000	90 3.543	38 1.496	113.5 4.469	45 1.772	88 3.465	14j6 0.551	30 1.181	18 0.709	5 0.197	11 0.433	5 0.197	11j6 0.433	23 0.906	14 0.551	4 0.157	8.5 0.335	4 0.157	71 2.795	12 0.472	139 5.472			248 9.764	276 10.866		DM5	EM4	6203-ZZ	6202-ZZ
80	–	125 4.921	35 1.378	149 5.866	159 6.260	136 5.354	100 3.937	40 1.575	125.5 4.941	50 1.969	93 3.661	19j6 0.748	40 1.575	28 1.102	6 0.236	15.5 0.610	6 0.236	14j6 0.551	30 1.181	18 0.709	5 0.197	11 0.433	5 0.197	80 3.150	13 0.512	157 6.181			276 10.866	313 12.323		DM6	DM4	6204-ZZ	6203-ZZ
90S	143T	140 5.512	38 1.496	164 6.457	179 7.047	155 6.102	125 4.921	42 1.654	131 5.157 156 6.142	56 2.205	104 4.094	24j6 0.944	50 1.969	36 1.417	8 0.315	20 0.787	7 0.276	16j6 0.630	40 1.575	28 1.102				90 3.543	15 0.591	177 6.969		10 0.394	304 11.969 329 12.953	350 13.780 375 14.764	NPT0.75*	DM8	DM6	6205-ZZ	6204-ZZ
90L	145T																																		
100L	–	160 6.299	49 1.929	188 7.402	199 7.835	165 6.496	140 5.512	50 1.969	173 6.811 177 6.969	63 2.480 70 2.756	118 4.646 128 5.039	28j6 1.102	60 2.362	45 1.772		24 0.945		22j6 0.866 24j6 0.944	50 1.969	36 1.417	6 0.236 8 0.315	18.5 0.728 20 0.787	6 0.236 7 0.276	100 3.937 112 4.409	16 0.630 18.5 0.728	198 7.795 235 9.252	280 11.024	12 0.472	376 14.803 393 15.472	431 16.969 448 17.638	NPT1*	DM10	DM8	6206-ZZ 6307-ZZ	6205-ZZ 6206-ZZ
112M	184T	190 7.480	48 1.890	220 8.661	222 8.740	184 7.244																													
132S	213T	216 8.504	51 2.008	248 9.764	270 10.630	212 8.346	178 7.008	55 2.165	187 7.362 225 8.858	89 3.504	150 5.906	38k6 1.496	80 3.150	63 2.480	10 0.394	33 1.299	8 0.315	28j6 1.102	60 2.362	45 1.772				132 5.197	20 0.787	274 10.787	319 12.559		452 17.795 490 19.291	519 20.433 557 21.929	NPT1*	DM12	DM10	6308-ZZ	6207-ZZ
132M	215T																																		
160M	254T	254 10.000	64 2.520	308 12.126	312 12.283	255 10.039	210 8.268 254 10.000	65 2.559	254 10.000 298 11.732	108 4.252	174 6.850	42k6 1.653	110 4.331	80 3.150	12 0.472	37 1.457		42k6 1.653	110 4.331	80 3.150	12 0.472	37 1.457	8 0.315	160 6.299	22 0.866	317 12.480	370 14.567	14.5 0.571	598 23.543 642 25.276	712 28.031 756 29.764	NPT1 0.5*	DM16		6309-C3	6209-Z-C3
160L	256T																																		
180M	284T	279 10.984	80 3.150	350 13.780	358 14.094	275 10.827	241 9.488 279 10.984	75 2.953	294 11.575 332 13.071	121 4.764	200 7.874	48k6 1.889			14 0.551	42.5 1.673	9 0.354	48k6 1.889			14 0.551	42.5 1.673	9 0.354	180 7.087	28 1.102	360 14.173	413 16.260		664 26.142 702 27.638	782 30.787 820 32.283				6311-C3	6211-Z-C3
180L	286T																																		
200M	324T	318 12.520	82 3.228	385 15.157	396 15.591	300 11.811	267 10.512 305 12.008	85 3.346	370 14.567	133 5.236	222 8.740	55m6 2.165			16 0.630	49 1.929	10 0.394	55m6* 2.165		100 3.937	16 0.630	49 1.929	10 0.394	200 7.874	30 1.181	402 15.827	464 18.268	18.5 0.728	729 28.701 767 30.197	842 33.150 880 34.646	NPT2*			6312-C3	6212-Z-C3
200L	326T																																		
225S/M	364/5TS	356 14.016	80 3.150	436 17.165	476 18.740	373 14.685	286 11.260 311 12.244	105 4.134	391 15.394	149 5.866	280 11.024 255 10.039	55m6* 2.165	140 5.512	100 3.937				55m6* 2.165	140 5.512	125 4.921				225 8.858	34 1.339	466 18.346	537 21.142		817 32.165	935 36.811	NPT3*	M20		6314-C3	
364/5T							286 11.260 311 12.244				280 11.024 255 10.039	60m6 2.362				53 2.087		60m6 2.362				53 2.087	11 0.433						847 33.346	995 39.173					
250S/M	404/5TS	406 15.984	100 3.937	506 19.921			312 12.283 349 13.740	138 5.433	449 17.677	168 6.614	312 12.283 274 10.787	60m6* 2.362			18 0.709		11 0.433	60m6* 2.362			18 0.709			250 9.843	42 1.654	491 19.331	562 22.126	24 0.945	923 36.339	1071 42.165					
404/5T							311 12.244 349 13.740				312 12.283 274 10.787	65m6 2.559				58 2.283		60m6 2.362																	
280S/M	444/5TS	457 17.992		557 21.929	600 23.622	468 18.425	368 14.488 419 16.496	142 5.591	510 20.079	190 7.480	350 13.780 299 11.772	65m6* 2.559						60m6* 2.362						280 11.024		578 22.756	668 26.299		1036 40.787	1188 46.772					
444/5T							368 14.488 419 16.496				350 13.780 299 11.772	75m6 2.952			20 0.787	67.5 2.657	12 0.472	65m6 2.559				58 2.283										6316-C3	
315S/M	504/5TS	508 20.000	120 4.724	628 24.724		497 19.567	406 15.984 457 17.992	152 5.984	558 21.969	216 8.504	376 14.803 325 12.795	65m6* 2.559			18 0.709	58 2.283	11 0.433	60m6* 2.362				53 2.087		315 12.400	52 2.047	613 24.134	703 27.677	28 1.102	1126 44.331 1156 45.512	1274 50.157 1308 51.496	2xNPT3*			6314-C3	
504/5T							406 15.984 457 17.992				376 14.803 325 12.795	80m6 3.149	170 6.693	160 6.299	22 0.866	71 2.795	14 0.551	65m6 2.559				58 2.283						1126 44.331 1156 45.512	1274 50.157 1308 51.496				6319-C3	6316-C3
355M/L	586/7TS	610 24.016	140 5.512	750 29.528	816 32.126	685 26.969	560 22.047 630 24.803	200 7.874	760 29.921	254 10.000	458 18.031	65m6* 2.559 75m6** 2.952	140 5.512	125 4.921	18 0.709 20** 0.790	58 2.283 67.5** 2.660	11 0.433 12** 0.470	60m6 2.362				53 2.087	11 0.433	355 13.976	50 1.969	725 28.543	834 32.835	28 1.102	1396 54.961	1561 61.457				6316-C3* 6314-C3**	
586/7T							560 22.047 630 24.803				388 15.276	100m6 3.937	210 8.268	200 7.874	28 1.102	90 3.543	16 0.630	80m6 3.149	170 6.693	160 6.299	22 0.866	71 2.795	14 0.551					1466 57.717	1661 65.394		M24	M20	NU-322-C3	6319-C3

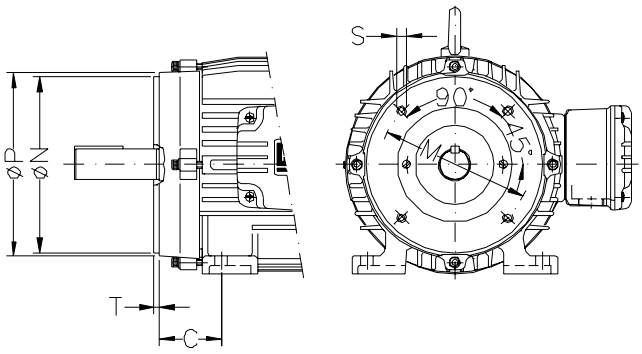
Three Phase Metric Motors
Mechanical Data - Tru-Metric Line - Cast Iron Frames

"FF" FLANGE DIMENSIONS										
IEC Frame	Flange	C	LA	M	N	P	T	S	a	n° of Holes
63	FF–115	40 1.57	9 0.35	115 4.53	95 3.74	140 5.51	3 0.12	10 0.39	45°	4
71	FF–130	45 1.77		130 5.12	110 4.33	160 6.30	3.5 0.14			
80	FF–165	50 1.97	10 0.39	165 6.50	130 5.12	200 7.87		12 0.47		
90S/L		56 2.20								
100L	FF–215	63 2.48	11 0.43	215 8.46	180 7.09	250 9.84	4 0.16	15 0.59		
112M		70 2.76								
132S/M	FF–265	89 3.50	12 0.47	265 10.43	230 9.06	300 11.81				
160M/L	FF–300	108 4.25	18 0.71	300 11.81	250 9.84	350 13.78	5 0.20	19 0.75		
180M/L		121 4.76								
200M/L	FF–350	133 5.24		350 13.78	300 11.81	400 15.75				
225S/M	FF–400	149 5.87		400 15.75	350 13.78	450 17.72			22°30'	8
250S/M	FF–500	168 6.61		500 19.69	450 17.72	550 21.65				
280S/M		190 7.48								
315S/M 315B	FF–600	216 8.50	22 0.87	600 23.62	550 21.65	660 25.98	6 0.24	24 0.94		
355M/L	FF–740	254 10.00		740 29.13	680 26.77	800 31.50				



"FF" Flange

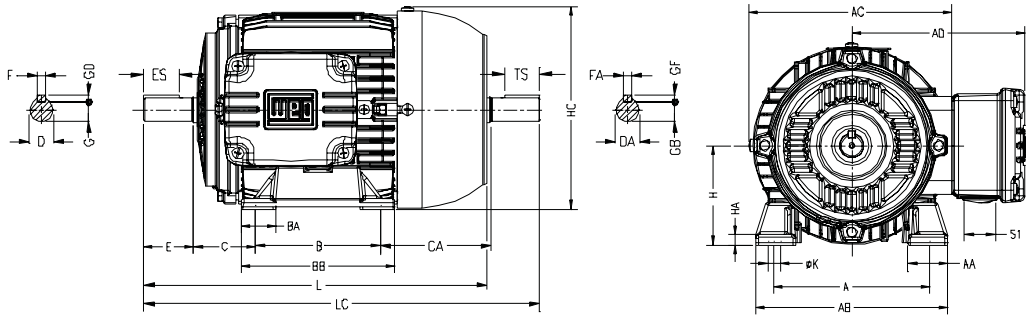
"C" FLANGE DIMENSIONS								
IEC Frame	Flange	C	M	N	P	S	T	n° of Holes
63	FC–95	40 1.575	95.2 3.748	76.2 3.000	143 5.630	UNC 0.25"20	4 0.157	4
71		45 1.772						
80		50 1.969						
90S 90L	FC–149	56 2.205	149.2 5.874	114.3 4.500	165 6.496	UNC 3/8"16		
100L		63 2.480						
112M	FC–184	70 2.756	184.2 7.252	215.9 8.500	225 8.858	UNC 0.5"13	6.3 0.248	
132S 132M		89 3.504						
160M 160L		108 4.252						
180M 180L	FC–228	121 4.764	228.6 9.000	266.7 10.500	280 11.024			
200M 200L		133 5.236						
225S/M	FC–279	149 5.866	279.4 11.000	317.5 12.500	395 15.551	UNC 5/8"11		8
250S/M	FC–355	168 6.614	355.6 14.000	406.4 16.000	455 17.913			
280S/M		190 7.480						
315S/M	FC–368	216 8.504	368.3 14.500	419.1 16.500				
355M/L		254 10.000						



"C" and "C" DIN Flange

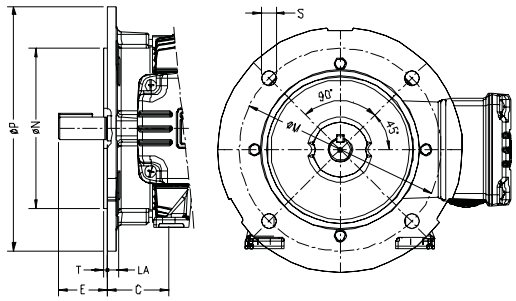
"C" DIN FLANGE DIMENSIONS								
IEC Frame	Flange	C	M	N	P	S	T	n° of Holes
63	C–90	40 1.575	75 2.953	60 2.362	90 3.543	M5	2.5 0.098	4
71	C–105	45 1.772	85 3.346	70 2.756	105 4.134	M6		
80	C–120	50 1.969	100 3.937	80 3.150	120 4.724		3 0.118	
90S 90L	C–140	56 2.205	115 4.528	95 3.740	140 5.512	M8		
100L	C–160	63 2.480	130 5.118	110 4.331	160 6.299		3.5 0.138	
112M		70 2.756						
132S 132M	C–200	89 3.504	165 6.496	130 5.118	200 7.874	M10		

Three Phase Metric Motors
Mechanical Data - Tru-Metric Line - Aluminum Frames



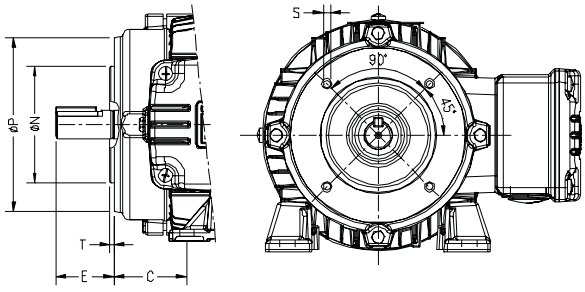
IEC FRAME	A	AA	AB	AC	AD	B	BA	BB	C	CA	SHAFT DIMENSIONS												H	HA	HC	HD	K	L	LC	S1	d1	d2	BEARINGS	
											D	E	ES	F	G	GD	DA	EA	TS	FA	GB	GF											D.E.	O.D.E.
63	100 3.937	19 0.748	116 4.567	125 4.921	119 4.685	80 3.150	23 0.906	95 3.740	40 1.575	78 3.071	11j6 0.433	23 0.906	14 0.551	4 0.157	8.5 0.335	4 0.157	9j6 0.354	20 0.787	12 0.472	3 0.118	7.2 0.283	3 0.118	63 2.480	6 0.236	125 4.921	176 6.929	7 0.276	216 8.504	241 9.488	NPT0.5"	EM4	EM3	6201-ZZ	
71	112 4.409	28 1.102	134 5.276	140 5.512	127 5.000	90 3.543	24.5 0.965	108 4.252	45 1.772	88 3.465	14j6 0.551	30 1.181	18 0.709	5 0.197	11 0.433	5 0.197	11j6 0.433	23 0.906	14 0.551	4 0.157	8.5 0.335	4 0.157	71 2.795		139 5.472	192 7.559		248 9.764	276 10.866	NPT0.75"	DM5	EM4	6203-ZZ	6202-ZZ
80	125 4.921	32 1.260	155 6.102	159 6.260	136 5.354	100 3.937	28 1.102	124 4.882	50 1.969	93 3.661	19j6 0.748	40 1.575	28 1.102	6 0.236	15.5 0.610	6 0.236	14j6 0.551	30 1.181	18 0.709	5 0.197	11 0.433	5 0.197	80 3.150	8 0.315	157 6.181	210 8.268	10 0.394	276 10.866	313 12.323		DM6	DM4	6204-ZZ	6203-ZZ
90S/L	140 5.512	35 1.378	170 6.693	179 7.047	155 6.102	125 4.921	24 0.945	146 5.748	56 2.205	129 5.079 104 4.094	24j6 0.944	50 1.969	36 1.417	8 0.315	20 0.787	7 0.276	16 0.630	40 1.575	28 1.102		13 0.512		90 3.543	9 0.354	177 6.969	240 9.449		330 12.992	375 14.764		DM8	DM6	6205-ZZ	6204-ZZ
100L	160 6.299	40 1.575	196 7.717	200 7.874	165 6.496	140 5.512	30 1.181	170 6.693	63 2.480	118 4.646	28j6 1.102	60 2.362	45 1.772		24 0.945		22j6 0.866	50 1.969	36 1.417	6 0.236	18.5 0.728	6 0.236	100 3.937	12 0.472	198 7.795	260 10.236	12 0.472	376 14.803	431 16.969		DM10	DM8	6206-ZZ	6205-ZZ
112M	190 7.480	46 1.811	220 8.661	223 8.780	184 7.244		50 1.969		70 2.756	128 5.039	24j6 0.944									8 0.315	20 0.787	7 0.276	112 4.409		235 9.252	292 11.496		393 15.472	448 17.638	NPT1"			6307-ZZ	6206-ZZ
132S	216 8.504	44 1.732	248 9.764	270 10.630	212 8.346	178 7.008	40 1.575 32 1.260	210 8.268	89 3.504	150 5.906	38K6 1.496	80 3.150	63 2.480	10 0.394	33 1.299	8 0.315	28j6 1.102	60 2.362	45 1.772		24 0.945		132 5.197		274 10.787	339 13.346		490 19.291	557 21.929		DM12	DM10	6308-ZZ	6207-ZZ
132M																																		

"FF" FLANGE DIMENSIONS										
IEC Frame	Flange	C	LA	M	N	P	T	S	a	n° of Holes
63	FF–115	40 1.575	9 0.354	115 4.528	95 3.740	140 5.512	3 0.118	10 0.394	45°	4
71	FF–130	45 1.772		130 5.118	110 4.331	160 6.299	3.5 0.138	12 0.472		
80	FF–165	50 1.969	10 0.394	165 6.496	130 5.118	200 7.874				
90S/L		56 2.205								
100L	FF–215	63 2.480	11 0.433	215 8.465	180 7.087	250 9.843	4 0.157	15 0.591		
112M		70 2.756								
132S 132M	FF–265	89 3.504	12 0.472	265 10.433	230 9.055	300 11.811				



"FF" Flange

"C" FLANGE DIMENSIONS								
IEC Frame	Flange	C	M	N	P	S	T	n° of Holes
63	FC–95	40 1.575	95.2 3.748	76.2 3.000	143 5.630	UNC 0.25"20	4 0.157	4
71		45 1.772						
80		50 1.969						
90S/L	FC–149	56 2.205	149.2 5.874	114.3 4.500	165 6.496	UNC 3/8"16		
100L		63 2.480						
112M	FC–184	70 2.756	184.5 7.264	215.9 8.500	225 8.858	UNC 0.5"13	6.3 0.248	
132S 132M		89 3.504						



"C" and "C" DIN Flange

"C" DIN FLANGE DIMENSIONS								
IEC Frame	Flange	C	M	N	P	S	T	n° of Holes
63	C–90	40 1.575	75 2.953	60 2.362	90 3.543	M5	2.5 0.098	4
71	C–105	45 1.772	85 3.346	70 2.756	105 4.134	M6		
80	C–120	50 1.969	100 3.937	80 3.150	120 4.724		3 0.118	
90S/L	C–140	56 2.205	115 4.528	95 3.740	140 5.512	M8		
100L	C–160	63 2.480	130 5.118	110 4.331	160 6.299		3.5 0.138	
112M		70 2.756						
132S 132M	C–200	89 3.504	165 6.496	130 5.118	200 7.874	M10		

EEx d - Explosion Proof Metric Motors - Three Phase
Purchasing Data

Standard Features

- Three-phase 2, 4, 6 & 8 poles - 50 Hz
- Voltage: 220-240V / 380-415V - 50Hz
  380-415V / 660-690V - 50Hz
- Standard Efficiency
- Class 'F' insulation
- Temperature rise: Class 'B' (80°C)
- Temperature Class T4 (with Inverter Application T3)
- 104°F (40°C) ambient temperature
- Totally enclosed fan cooled (IP55)
- Service Factor: 1.0
- Design: N
- Continuous duty (S1)
- Terminal Block (6 Pins) for EEx d motors
- Thermistors (1 per Phase)
- Dip and Baked Impregnation (Frames 90 up to 200)
- Resin Continuous Flow Impregnation (Frame 225S/M up to 315S/M)
- Mounting: B3
- Squirrel Cage Rotor (Aluminum Die Cast)
- Ball bearings
- Lip Seal on Both Endshields
- Grease Nipple System in Frame 225S/M and above
- Shaft Material: AISI 1045 steel
- Terminal Box with metric threaded cable entries
- Standard Colour: RAL 5010 (Blue)
- WEG Paint Plan: 201 A

Optional Features

- Flanges
- Class 'H' insulation
- Taconite labyrinth seal
- Cable glands
- Space heaters
- Thermostats or RTD's (PT100)
- Auxiliary terminal box
- Drip cover (canopy) for shaft down applications
- Special painting plans for hostile evironments
- Roller bearings on drive end
- Terminal blocks available
- Special bearings
- Efficiency Levels: IE1 and IE3 available

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- Please call for specific ratings

CE CESI Ex

EEx d - Explosion Proof Metric Motors - Three Phase
Purchasing Data

IE2 - Standard Efficiency

Rated Output			IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency (415V)	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM				380V	415V			
0.75	1	3000	90S	$ 860	ME000X02EEXD	1.70	1.62	78.4	32	316
		1500	90S	870	ME000X04EEXD	1.90	1.82	74.4	32	316
		1000	90L	813	ME000X06EEXD	2.02	1.97	72.4	33	341
		750	100L	1,024	ME000X08EEXD	2.45	2.47	70.5	41	384
1.1	1.5	3000	90S	894	ME001X02EEXD	2.36	2.24	80.2	32	316
		1500	90S	905	ME001X04EEXD	2.60	2.51	76.2	32	316
		1000	90L	1,078	ME001X06EEXD	3.02	3.08	73.0	35	341
		750	100L	1,380	ME001X08EEXD	3.41	3.42	72.2	45	384
1.5	2	3000	90S	930	ME002X02EEXD	3.15	2.98	82.5	32	316
		1500	90L	1,010	ME002X04EEXD	3.45	3.31	78.8	35	341
		1000	100L	1,192	ME002X06EEXD	3.89	3.79	77.6	43	384
		750	112M	1,692	ME002X08EEXD	4.28	4.14	76.3	61	394
2.2	3	3000	90L	1,042	ME003X02EEXD	4.61	4.37	84.3	34	341
		1500	100L	1,210	ME003X04EEXD	4.81	4.55	83.0	45	384
		1000	112M	1,384	ME003X06EEXD	5.52	5.28	80.5	57	394
		750	132S	1,910	ME003X08EEXD	5.64	5.50	79.5	82	451
3	4	3000	100L	1,302	ME004X02EEXD	6.02	5.60	85.6	46	384
		1500	100L	1,450	ME004X04EEXD	6.46	6.15	82.7	47	384
		1000	132S	2,188	ME004X06EEXD	7.04	6.83	82.6	77	451
		750	132M	2,324	ME004X08EEXD	7.51	7.23	82.5	95	489
4	5.5	3000	112M	1,640	ME005X02EEXD	7.83	7.25	88.2	60	394
		1500	112M	1,676	ME005X04EEXD	8.41	8.06	84.2	62	394
		1000	132M	2,448	ME005X06EEXD	9.01	8.64	85.9	91	489
		750	160M	3,188	ME005X08EEXD	9.83	9.80	86.0	145	598
5.5	7.5	3000	132S	2,092	ME007X02EEXD	10.6	10.2	88.2	85	451
		1500	132S	2,052	ME007X04EEXD	11.0	10.6	87.8	84	451
		1000	132M	2,580	ME007X06EEXD	12.7	12.5	86.0	100	489
		750	160M	3,428	ME007X08EEXD	13.6	13.6	85.0	157	598
7.5	10	3000	132S	2,414	ME010X02EEXD	14.5	13.8	88.1	85	451
		1500	132M	2,500	ME010X04EEXD	14.6	14.2	88.6	95	489
		1000	160M	3,404	ME010X06EEXD	15.7	15.0	88.0	145	598
		750	160L	3,640	ME010X08EEXD	18.1	17.4	85.5	166	652
11	15	3000	160M	2,816	ME015X02EEXD	20.8	19.5	90.4	145	598
		1500	160M	2,818	ME015X04EEXD	22.0	20.8	89.8	143	598
		1000	160L	3,584	ME015X06EEXD	22.6	21.7	88.3	170	652
		750	180L	3,784	ME015X08EEXD	22.4	20.8	88.5	208	702
15	20	3000	160M	3,342	ME020X02EEXD	28.1	26.3	91.2	152	598
		1500	160L	3,128	ME020X04EEXD	29.4	27.8	90.6	163	652
		1000	180L	4,368	ME020X06EEXD	28.0	25.6	90.5	218	702
		750	200L	5,516	ME020X08EEXD	33.3	32.6	88.9	270	767
18.5	25	3000	160L	4,014	ME025X02EEXD	34.5	32.5	92.0	169	652
		1500	180M	4,112	ME025X04EEXD	36.1	34.1	92.1	212	664
		1000	200L	5,686	ME025X06EEXD	36.0	33.9	90.5	270	767
		750	225S/M	7,090	ME025X08EEXD	36.4	34.0	90.2	393	817 / 847
22	30	3000	180M	4,818	ME030X02EEXD	40.4	38.2	92.1	219	664
		1500	180L	4,554	ME030X04EEXD	42.6	40.8	92.5	230	702
		1000	200L	6,438	ME030X06EEXD	43.1	40.9	91.3	280	767
		750	225S/M	8,894	ME030X08EEXD	42.9	40.0	91.2	419	817 / 847
30	40	3000	200L	5,988	ME040X02EEXD	55.3	51.8	92.7	239	767
		1500	200L	5,918	ME040X04EEXD	57.2	53.3	93.2	290	767
		1000	225S/M	8,782	ME040X06EEXD	56.5	52.6	92.2	423	817 / 847
		750	250S/M	9,640	ME040X08EEXD	58.7	54.8	91.8	487	923
37	50	3000	200L	7,338	ME050X02EEXD	67.9	64.4	93.0	305	767
		1500	225S/M	7,532	ME050X04EEXD	68.3	63.7	92.9	405	817 / 847
		1000	250S/M	10,298	ME050X06EEXD	69.1	64.6	92.6	491	923
		750	280S/M	13,950	ME050X08EEXD	74.4	70.5	92.4	700	1036
45	60	3000	225S/M	11,710	ME060X02EEXD	80.4	74.9	93.9	460	817 / 847
		1500	225S/M	8,718	ME060X04EEXD	82.2	77.0	93.5	434	817 / 847
		1000	280S/M	14,622	ME060X06EEXD	86.9	82.4	92.7	736	1036
		750	280S/M	17,162	ME060X08EEXD	90.6	87.0	92.3	765	1036
55	75	3000	250S/M	14,666	ME075X02EEXD	97.1	89.5	94.0	514	923
		1500	250S/M	12,918	ME075X04EEXD	98.3	91.9	93.6	509	923
		1000	280S/M	18,544	ME075X06EEXD	103	97.3	93.6	775	1036
		750	315S/M	20,228	ME075X08EEXD	108	103	93.0	845	1125 / 1158

EEx d - Explosion Proof Metric Motors - Three Phase
Purchasing Data

IE2 - Standard Efficiency

Rated Output			IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency (415V)	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM				380V	415V			
75	100	3000	280S/M	$ 20,530	ME100X02EEXD	134	126	94.2	783	1036
		1500	280S/M	16,280	ME100X04EEXD	137	128	94.0	778	1036
		1000	315S/M	21,130	ME100X06EEXD	142	132	93.8	963	1125 / 1158
		750	315S/M	23,308	ME100X08EEXD	147	138	93.4	1,062	1125 / 1158
90	125	3000	280S/M	24,478	ME125X02EEXD	161	149	94.5	845	1036
		1500	280S/M	22,538	ME125X04EEXD	163	151	94.2	869	1036
		1000	315S/M	27,234	ME125X06EEXD	170	159	93.9	993	1125 / 1158
		750	315S/M	32,904	ME125X08EEXD	173	164	94.2	1,220	1125 / 1158
110	150	3000	315S/M	29,026	ME150X02EEXD	196	183	94.8	973	1125 / 1158
		1500	315S/M	25,688	ME150X04EEXD	202	186	94.5	1,036	1125 / 1158
		1000	315S/M	33,026	ME150X06EEXD	208	195	94.6	1,169	1125 / 1158
		750	355M/L	57,044	ME150X08EEXD	216	208	94.5	1,750	1399 / 1469
132	175	3000	315S/M	36,694	ME175X02EEXD	232	214	95.2	1,034	1125 / 1158
		1500	315S/M	31,180	ME175X04EEXD	241	223	94.7	1,121	1125 / 1158
		1000	355M/L	55,890	ME175X06EEXD	259	252	94.7	1,685	1399 / 1469
		750	355M/L	62,452	ME175X08EEXD	261	252	94.8	1,800	1399 / 1469
160	220	3000	315S/M	45,680	ME220X02EEXD	280	262	95.4	1,165	1125 / 1158
		1500	315S/M	34,022	ME220X04EEXD	290	271	95.5	1,190	1125 / 1158
		1000	355M/L	61,194	ME220X06EEXD	304	292	95.4	1,730	1399 / 1469
		750	355M/L	69,946	ME220X08EEXD	317	298	94.7	1,710	1399 / 1469
200	270	3000	355M/L	68,526	ME270X02EEXD	347	321	95.4	1,830	1399 / 1469
		1500	355M/L	54,910	ME270X04EEXD	363	339	95.3	1,808	1399 / 1469
		1000	355M/L	74,746	ME270X06EEXD	386	372	94.8	1,910	1399 / 1469
		750	355M/L	91,452	ME270X08EEXD	394	380	95.2	1,900	1399 / 1469
250	340	3000	355M/L	75,592	ME340X02EEXD	425	393	96.1	1,972	1399 / 1469
		1500	355M/L	64,414	ME340X04EEXD	446	418	95.7	1,922	1399 / 1469
		1000	355M/L	90,480	ME340X06EEXD	479	448	95.8	2,185	1399 / 1469
280	380	1000	355M/L	105,186	ME380X06EEXD	551	517	95.3	2,185	1399 / 1469
315	430	1500	355M/L	73,670	ME430X04EEXD	560	524	96.2	2,199	1399 / 1469

EEx d - Explosion Proof Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
1	0.75	2890	90S	415	1.62	K	7.0	2.43	3.0	3.5	71.5	76.0	78.4	0.66	0.77	0.82	1.00	0.00175	25	55	32	64
		2880	90S	400	1.65	K	7.0	2.44	2.8	3.3	72.0	76.1	78.2	0.69	0.79	0.84	1.00	0.00175	25	55	32	64
		2870	90S	380	1.70	J	7.0	2.45	2.6	3.0	72.5	76.0	77.8	0.73	0.81	0.86	1.00	0.00175	25	55	32	64
		1440	90S	415	1.82	K	6.5	4.88	2.9	3.0	70.0	74.4	74.4	0.54	0.68	0.77	1.00	0.00384	14	31	32	49
		1430	90S	400	1.84	K	6.5	4.91	2.7	2.8	71.0	74.4	74.4	0.58	0.71	0.79	1.00	0.00384	14	31	32	49
		1415	90S	380	1.90	K	6.5	4.96	2.5	2.6	72.0	74.6	74.0	0.62	0.74	0.81	1.00	0.00384	14	31	32	49
		930	90L	415	1.97	H	4.8	7.55	2.3	2.3	68.5	72.4	72.4	0.50	0.64	0.73	1.00	0.00494	16	35	33	45
		920	90L	400	1.97	H	4.8	7.63	2.1	2.1	70.0	72.6	72.4	0.54	0.67	0.76	1.00	0.00494	16	35	33	45
		910	90L	380	2.02	H	4.8	7.72	1.9	1.9	71.5	72.8	71.5	0.58	0.71	0.79	1.00	0.00494	16	35	33	45
		710	100L	415	2.47	J	4.2	9.89	2.2	2.3	63.0	69.0	70.5	0.38	0.50	0.60	1.00	0.00936	30	66	41	50
		705	100L	400	2.42	H	4.2	9.96	2.0	2.1	65.0	70.0	71.0	0.42	0.54	0.63	1.00	0.00936	30	66	41	50
		695	100L	380	2.45	H	4.2	10.1	1.7	1.9	67.0	71.0	70.5	0.46	0.58	0.66	1.00	0.00936	30	66	41	50
1.5	1.1	2880	90S	415	2.24	J	7.2	3.66	3.1	3.1	75.5	78.9	80.2	0.68	0.79	0.85	1.00	0.00175	15	33	32	64
		2870	90S	400	2.28	J	7.2	3.67	2.9	2.9	76.0	79.0	80.0	0.71	0.81	0.87	1.00	0.00175	15	33	32	64
		2850	90S	380	2.36	J	7.2	3.70	2.6	2.6	76.5	78.8	79.5	0.75	0.84	0.89	1.00	0.00175	15	33	32	64
		1410	90S	415	2.51	H	5.5	7.47	2.6	2.7	70.5	76.2	76.2	0.56	0.71	0.80	1.00	0.00392	9	20	32	49
		1400	90S	400	2.54	H	5.5	7.53	2.4	2.5	72.5	76.2	76.2	0.61	0.75	0.82	1.00	0.00392	9	20	32	49
		1390	90S	380	2.60	G	5.5	7.58	2.2	2.3	73.5	76.4	75.5	0.67	0.80	0.85	1.00	0.00392	9	20	32	49
		925	90L	415	3.08	H	4.5	11.4	2.6	2.6	65.0	70.5	73.0	0.45	0.58	0.68	1.00	0.00560	12	26	35	45
		915	90L	400	3.02	G	4.5	11.5	2.3	2.3	68.0	71.0	72.9	0.48	0.62	0.72	1.00	0.00560	12	26	35	45
		905	90L	380	3.02	G	4.5	11.6	2.0	2.0	71.0	72.0	72.9	0.52	0.66	0.76	1.00	0.00560	12	26	35	45
		710	100L	415	3.42	H	4.1	14.8	1.9	2.3	64.0	70.5	72.2	0.40	0.52	0.62	1.00	0.01266	23	51	45	50
		700	100L	400	3.38	H	4.1	15.1	1.7	2.1	66.0	71.5	72.2	0.43	0.56	0.65	1.00	0.01266	23	51	45	50
		690	100L	380	3.41	G	4.1	15.3	1.5	1.9	68.0	72.0	72.0	0.47	0.60	0.68	1.00	0.01266	23	51	45	50
2	1.5	2850	90S	415	2.98	H	6.5	4.93	2.6	3.1	79.1	82.2	82.5	0.68	0.79	0.85	1.00	0.00181	12	26	32	64
		2840	90S	400	3.03	H	6.5	4.95	2.4	2.8	79.6	82.0	82.2	0.72	0.81	0.87	1.00	0.00181	12	26	32	64
		2830	90S	380	3.15	H	6.5	4.96	2.2	2.5	80.0	81.5	81.2	0.75	0.84	0.89	1.00	0.00181	12	26	32	64
		1420	90L	415	3.31	J	6.4	9.89	2.9	2.7	73.5	78.5	78.8	0.58	0.72	0.80	1.00	0.00560	9	20	35	49
		1410	90L	400	3.36	J	6.4	9.96	2.7	2.5	75.0	78.6	78.6	0.63	0.75	0.82	1.00	0.00560	9	20	35	49
		1390	90L	380	3.45	J	6.4	10.1	2.5	2.3	76.5	78.7	77.8	0.67	0.79	0.85	1.00	0.00560	9	20	35	49
		950	100L	415	3.79	H	4.8	14.8	2.4	2.7	73.0	77.3	77.6	0.50	0.63	0.71	1.00	0.01097	18	40	43	44
		940	100L	400	3.78	G	4.8	14.9	2.2	2.5	74.0	77.3	77.5	0.53	0.66	0.74	1.00	0.01097	18	40	43	44
		930	100L	380	3.89	G	4.8	15.1	2.0	2.2	75.0	77.5	77.0	0.58	0.70	0.76	1.00	0.01097	18	40	43	44
		705	112M	415	4.14	H	4.6	19.9	2.6	2.6	73.0	75.0	76.3	0.43	0.57	0.66	1.00	0.02243	19	42	61	46
		700	112M	400	4.17	H	4.6	20.1	2.4	2.4	74.0	75.5	76.3	0.46	0.60	0.68	1.00	0.02243	19	42	61	46
		695	112M	380	4.28	H	4.6	20.2	2.2	2.2	75.0	76.0	76.0	0.50	0.63	0.70	1.00	0.02243	19	42	61	46
3	2.2	2850	90L	415	4.37	H	6.6	7.39	3.0	3.2	81.5	83.6	84.3	0.64	0.76	0.83	1.00	0.00233	9	20	34	64
		2840	90L	400	4.48	H	6.6	7.42	2.8	3.0	82.2	83.7	83.4	0.69	0.80	0.85	1.00	0.00233	9	20	34	64
		2820	90L	380	4.61	H	6.6	7.47	2.6	2.8	82.8	83.6	83.3	0.75	0.84	0.87	1.00	0.00233	9	20	34	64
		1430	100L	415	4.55	J	6.7	14.7	2.9	3.1	80.5	82.3	83.0	0.61	0.75	0.81	1.00	0.00822	14	31	45	53
		1420	100L	400	4.61	J	6.7	14.8	2.7	2.9	81.0	82.3	83.0	0.65	0.78	0.83	1.00	0.00822	14	31	45	53
		1410	100L	380	4.81	H	6.7	14.9	2.5	2.7	81.5	82.0	81.7	0.69	0.81	0.85	1.00	0.00822	14	31	45	53
		950	112M	415	5.28	H	5.0	22.2	2.4	2.5	76.0	80.3	80.5	0.50	0.63	0.72	1.00	0.01651	14	31	57	48
		940	112M	400	5.36	G	5.0	22.4	2.2	2.3	77.5	80.5	80.1	0.53	0.66	0.74	1.00	0.01651	14	31	57	48
		930	112M	380	5.52	G	5.0	22.7	2.0	2.1	79.0	80.8	79.7	0.58	0.70	0.76	1.00	0.01651	14	31	57	48
		715	132S	415	5.50	H	5.3	29.5	2.3	2.5	78.0	79.0	79.5	0.48	0.61	0.70	1.00	0.05520	19	42	82	48
		710	132S	400	5.55	H	5.3	29.7	2.1	2.3	78.5	79.3	79.4	0.51	0.64	0.72	1.00	0.05520	19	42	82	48
		700	132S	380	5.64	H	5.3	30.1	1.9	2.0	79.0	79.5	79.0	0.56	0.68	0.75	1.00	0.05520	19	42	82	48
4	3	2890	100L	415	5.60	J	7.2	9.72	2.8	3.0	82.8	85.6	85.6	0.74	0.84	0.87	1.00	0.00593	9	20	46	67
		2880	100L	400	5.75	J	7.2	9.76	2.6	2.8	83.2	85.7	85.6	0.77	0.85	0.88	1.00	0.00593	9	20	46	67
		2870	100L	380	6.02	J	7.2	9.79	2.4	2.6	83.5	85.6	85.1	0.80	0.86	0.89	1.00	0.00593	9	20	46	67
		1415	100L	415	6.15	J	6.7	19.9	2.7	2.8	80.5	82.5	82.7	0.65	0.75	0.82	1.00	0.00918	8	18	47	53
		1405	100L	400	6.24	J	6.7	20.0	2.5	2.6	81.5	82.6	82.6	0.68	0.78	0.84	1.00	0.00918	8	18	47	53
		1390	100L	380	6.46	J	6.7	20.2	2.3	2.4	82.0	82.3	82.0	0.70	0.80	0.86	1.00	0.00918	8	18	47	53
		965	132S	415	6.83	H	5.3	29.1	2.2	2.4	79.0	82.5	82.6	0.53	0.66	0.74	1.00	0.03397	20	44	77	52
		960	132S	400	6.82	G	5.3	29.3	2.0	2.2	80.0	82.7	82.5	0.58	0.70	0.77	1.00	0.03397	20	44	77	52
		955	132S	380	7.04	G	5.3	29.4	1.8	2.0	81.0	83.0	82.0	0.61	0.72	0.79	1.00	0.03397	20	44	77	52
		715	132M	415	7.23	J	5.9	39.3	2.7	2.8	78.0	81.5	82.5	0.50	0.62	0.70	1.00	0.07527	16	35	95	48
		710	132M	400	7.29	J	5.9	39.6	2.5	2.6	79.0	82.0	82.5	0.52	0.64	0.72	1.00	0.07527	16	35	95	48
		700	132M	380	7.51	J	5.9	40.1	2.2	2.3	80.0	82.5	82.0	0.54	0.66	0.74	1.00	0.07527	16	35	95	48

EEx d - Explosion Proof Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		2900	112M	415	7.25	J	7.6	13.3	2.9	3.3	84.5	87.4	88.2	0.72	0.82	0.87	1.00	0.00809	15	33	60	64
		2890	112M	400	7.50	J	7.6	13.4	2.7	3.1	85.0	87.5	87.5	0.76	0.84	0.88	1.00	0.00809	15	33	60	64
		2880	112M	380	7.83	J	7.6	13.4	2.5	2.9	85.5	87.5	87.2	0.80	0.86	0.89	1.00	0.00809	15	33	60	64
		1440	112M	415	8.06	J	6.9	26.8	2.8	3.0	82.0	84.2	84.2	0.62	0.74	0.82	1.00	0.01607	10	22	62	56
		1430	112M	400	8.16	H	6.9	27.0	2.6	2.8	83.0	84.3	84.2	0.67	0.78	0.84	1.00	0.01607	10	22	62	56
5.5	4	1420	112M	380	8.41	H	6.9	27.2	2.3	2.6	84.0	84.5	84.0	0.72	0.81	0.86	1.00	0.01607	10	22	62	56
		965	132M	415	8.64	H	6.0	40.0	2.3	2.5	82.6	85.3	85.9	0.56	0.67	0.75	1.00	0.04907	18	40	91	52
		960	132M	400	8.74	H	6.0	40.2	2.1	2.3	83.6	85.5	85.8	0.59	0.70	0.77	1.00	0.04907	18	40	91	52
		955	132M	380	9.01	H	6.0	40.5	1.9	2.1	84.5	85.7	85.4	0.61	0.72	0.79	1.00	0.04907	18	40	91	52
		730	160M	415	9.80	H	5.2	52.9	2.4	2.9	80.0	83.7	86.0	0.44	0.57	0.66	1.00	0.11905	33	73	145	51
		730	160M	400	9.73	H	5.2	52.9	2.2	2.7	81.3	84.3	86.0	0.47	0.60	0.69	1.00	0.11905	33	73	145	51
		725	160M	380	9.83	G	5.2	53.3	2.0	2.5	82.6	84.8	85.9	0.51	0.64	0.72	1.00	0.11905	33	73	145	51
		2940	132S	415	10.2	J	8.0	17.9	2.9	3.4	83.5	86.8	88.2	0.69	0.80	0.85	1.00	0.01979	18	40	85	68
		2935	132S	400	10.3	J	8.0	18.0	2.7	3.2	84.0	87.1	88.3	0.73	0.82	0.87	1.00	0.01979	18	40	85	68
		2930	132S	380	10.6	J	8.0	18.0	2.5	2.9	84.5	87.5	88.2	0.77	0.85	0.89	1.00	0.01979	18	40	85	68
		1470	132S	415	10.6	K	8.0	35.8	2.6	3.2	84.0	86.8	87.8	0.60	0.74	0.82	1.00	0.04264	10	22	84	60
		1465	132S	400	10.7	J	8.0	36.0	2.4	3.0	85.2	87.5	88.0	0.65	0.78	0.84	1.00	0.04264	10	22	84	60
7.5	5.5	1460	132S	380	11.0	J	8.0	36.1	2.2	2.7	86.5	88.1	88.0	0.72	0.82	0.86	1.00	0.04264	10	22	84	60
		965	132M	415	12.5	J	6.4	54.6	2.5	2.6	83.0	85.5	86.0	0.50	0.62	0.71	1.00	0.06039	14	31	100	52
		960	132M	400	12.5	J	6.4	54.9	2.3	2.4	84.0	85.8	85.8	0.54	0.66	0.74	1.00	0.06039	14	31	100	52
		955	132M	380	12.7	J	6.4	55.2	2.1	2.2	85.0	86.1	85.6	0.58	0.70	0.77	1.00	0.06039	14	31	100	52
		730	160M	415	13.6	H	5.2	72.2	2.5	2.9	80.5	83.5	85.0	0.42	0.55	0.66	1.00	0.14006	23	51	157	51
		730	160M	400	13.5	H	5.2	72.2	2.3	2.7	81.5	84.1	85.2	0.46	0.59	0.69	1.00	0.14006	23	51	157	51
		725	160M	380	13.6	G	5.2	72.7	2.1	2.5	82.5	84.7	85.2	0.50	0.63	0.72	1.00	0.14006	23	51	157	51
		2925	132S	415	13.8	J	7.3	24.0	2.6	3.1	85.5	87.4	88.1	0.71	0.81	0.86	1.00	0.02056	10	22	85	68
		2920	132S	400	14.0	H	7.3	24.1	2.4	2.9	86.0	87.5	88.0	0.76	0.84	0.88	1.00	0.02056	10	22	85	68
		2910	132S	380	14.5	H	7.3	24.1	2.2	2.6	86.5	87.5	87.5	0.80	0.87	0.90	1.00	0.02056	10	22	85	68
		1470	132M	415	14.2	K	8.0	47.8	2.7	3.0	85.6	88.0	88.6	0.65	0.77	0.83	1.00	0.05298	8	18	95	60
		1465	132M	380	14.6	J	8.0	48.0	2.3	2.6	87.0	88.6	88.4	0.75	0.84	0.88	1.00	0.05298	8	18	95	60
10	7.5	1465	132M	400	14.2	J	8.0	48.0	2.5	2.8	86.4	88.4	88.6	0.70	0.80	0.86	1.00	0.05298	8	18	95	60
		970	160M	400	15.2	H	6.1	72.4	2.3	2.6	87.0	88.2	88.0	0.62	0.74	0.81	1.00	0.11905	17	37	145	56
		970	160M	415	15.0	H	6.1	72.4	2.5	2.8	86.5	88.0	88.0	0.58	0.71	0.79	1.00	0.11905	17	37	145	56
		965	160M	380	15.7	H	6.1	72.8	2.0	2.4	87.5	88.4	87.5	0.66	0.78	0.83	1.00	0.11905	17	37	145	56
		730	160L	415	17.4	G	4.9	96.2	2.2	2.7	82.5	85.5	85.5	0.48	0.60	0.70	1.00	0.16107	15	33	166	51
		725	160L	400	17.6	G	4.9	96.9	2.0	2.5	83.5	85.7	85.5	0.51	0.63	0.72	1.00	0.16107	15	33	166	51
		720	160L	380	18.1	G	4.9	97.6	1.8	2.3	84.5	86.0	85.3	0.54	0.66	0.74	1.00	0.16107	15	33	166	51
		2950	160M	415	19.5	J	8.3	35.7	2.8	3.3	87.3	90.0	90.4	0.74	0.83	0.87	1.00	0.04521	12	26	145	70
		2945	160M	400	20.0	J	8.3	35.8	2.6	3.1	87.8	90.1	90.3	0.77	0.85	0.88	1.00	0.04521	12	26	145	70
		2940	160M	380	20.8	J	8.3	35.8	2.4	2.8	88.3	90.1	90.2	0.80	0.86	0.89	1.00	0.04521	12	26	145	70
		1460	160M	415	20.8	G	6.0	72.2	2.5	2.7	86.8	89.0	89.8	0.65	0.76	0.82	1.00	0.07791	16	35	143	67
		1455	160M	400	21.0	G	6.0	72.4	2.3	2.5	87.6	89.4	89.9	0.70	0.79	0.84	1.00	0.07791	16	35	143	67
15	11	1450	160M	380	22.0	G	6.0	72.7	2.1	2.3	88.3	89.6	89.2	0.74	0.82	0.85	1.00	0.07791	16	35	143	67
		975	160L	415	21.7	H	6.6	108	2.6	3.1	86.5	88.0	88.3	0.58	0.72	0.80	1.00	0.17158	13	29	170	56
		970	160L	380	22.6	H	6.6	109	2.2	2.6	88.0	88.5	88.0	0.67	0.78	0.84	1.00	0.17158	13	29	170	56
		970	160L	400	21.9	H	6.6	109	2.4	2.9	87.2	88.3	88.3	0.62	0.75	0.82	1.00	0.17158	13	29	170	56
		730	180L	415	20.8	H	6.8	144	2.5	2.7	86.5	88.6	88.5	0.65	0.77	0.83	1.00	0.27154	11	24	208	51
		725	180L	400	21.4	H	6.8	145	2.3	2.5	87.0	88.5	88.3	0.68	0.79	0.84	1.00	0.27154	11	24	208	51
		720	180L	380	22.4	H	6.8	146	2.0	2.2	87.5	88.3	87.8	0.71	0.81	0.85	1.00	0.27154	11	24	208	51
		2950	160M	415	26.3	J	7.8	47.6	2.7	3.4	89.1	91.0	91.2	0.72	0.81	0.87	1.00	0.05087	10	22	152	70
		2945	160M	400	27.0	J	7.8	47.7	2.5	3.2	89.6	91.1	91.2	0.76	0.84	0.88	1.00	0.05087	10	22	152	70
		2935	160M	380	28.1	J	7.8	47.9	2.2	2.9	90.1	91.2	91.0	0.81	0.87	0.89	1.00	0.05087	10	22	152	70
		1460	160L	415	27.8	G	6.0	96.2	2.5	2.6	88.4	90.3	90.6	0.67	0.78	0.83	1.00	0.10201	13	29	163	67
		1455	160L	400	28.4	G	6.0	96.6	2.3	2.4	89.0	90.4	90.6	0.69	0.79	0.84	1.00	0.10201	13	29	163	67
20	15	1450	160L	380	29.4	G	6.0	96.9	2.1	2.2	89.5	90.5	90.1	0.73	0.82	0.86	1.00	0.10201	13	29	163	67
		970	180L	415	25.6	H	7.5	145	2.7	2.8	89.0	90.5	90.5	0.78	0.87	0.90	1.00	0.29869	9	20	218	56
		965	180L	400	26.5	H	7.5	146	2.5	2.6	89.1	90.1	89.8	0.80	0.88	0.91	1.00	0.29869	9	20	218	56
		960	180L	380	28.0	H	7.5	146	2.3	2.4	89.0	90.0	89.5	0.82	0.89	0.91	1.00	0.29869	9	20	218	56
		730	200L	400	32.4	F	4.6	192	2.0	2.1	86.5	88.6	89.0	0.56	0.68	0.75	1.00	0.36923	23	51	270	53
		730	200L	415	32.6	F	4.6	192	2.2	2.3	85.5	88.3	88.9	0.50	0.64	0.72	1.00	0.36923	23	51	270	53
		725	200L	380	33.3	F	4.6	194	1.8	1.9	87.5	88.9	88.9	0.61	0.72	0.77	1.00	0.36923	23	51	270	53

EEx d - Explosion Proof Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		2950	160L	415	32.5	J	8.2	59.5	2.8	3.5	90.1	91.8	92.0	0.73	0.83	0.86	1.00	0.06217	10	22	169	70
		2945	160L	400	33.1	J	8.2	59.6	2.6	3.3	90.4	91.9	91.7	0.75	0.84	0.88	1.00	0.06217	10	22	169	70
		2940	160L	380	34.5	J	8.2	59.7	2.3	3.0	90.7	92.0	91.5	0.78	0.86	0.89	1.00	0.06217	10	22	169	70
		1470	180M	400	34.5	H	7.0	119	2.7	2.8	89.8	91.5	92.1	0.68	0.79	0.84	1.00	0.17403	18	40	212	64
		1470	180M	415	34.1	H	7.0	119	2.9	3.0	89.3	91.3	92.1	0.65	0.76	0.82	1.00	0.17403	18	40	212	64
25	18.5	1465	180M	380	36.1	H	7.0	120	2.5	2.6	90.3	91.7	91.7	0.72	0.81	0.85	1.00	0.17403	18	40	212	64
		980	200L	415	33.9	G	6.0	179	2.3	2.5	89.3	90.5	90.5	0.72	0.80	0.84	1.00	0.36856	15	33	270	58
		975	200L	400	34.4	G	6.0	180	2.1	2.3	89.7	90.7	90.2	0.74	0.82	0.86	1.00	0.36856	15	33	270	58
		970	200L	380	36.0	G	6.0	181	1.9	2.1	90.0	90.5	89.8	0.76	0.84	0.87	1.00	0.36856	15	33	270	58
		735	225S/M	415	34.0	H	6.9	239	2.3	3.0	88.2	90.3	90.2	0.68	0.78	0.84	1.00	0.83279	17	37	393	60
		730	225S/M	380	36.4	H	6.9	241	1.9	2.5	88.8	90.0	89.8	0.75	0.83	0.86	1.00	0.83279	17	37	393	60
		730	225S/M	400	34.9	H	6.9	241	2.1	2.8	88.5	90.1	90.0	0.72	0.80	0.85	1.00	0.83279	17	37	393	60
		2955	180M	415	38.2	J	8.2	71.3	3.0	3.3	90.0	91.9	92.1	0.75	0.84	0.87	1.00	0.10944	13	29	219	70
		2950	180M	400	38.7	J	8.2	71.4	2.8	3.1	90.5	92.0	92.1	0.78	0.86	0.89	1.00	0.10944	13	29	219	70
		2945	180M	380	40.4	J	8.2	71.6	2.6	2.8	91.0	92.1	92.0	0.82	0.88	0.90	1.00	0.10944	13	29	219	70
		1475	180L	415	40.8	J	7.5	143	3.0	3.0	90.5	92.0	92.5	0.63	0.75	0.81	1.00	0.20883	14	31	230	64
		1470	180L	400	41.4	J	7.5	143	2.8	2.8	91.0	92.2	92.4	0.67	0.78	0.83	1.00	0.20883	14	31	230	64
30	22	1465	180L	380	42.6	H	7.5	144	2.5	2.5	91.5	92.4	92.3	0.72	0.81	0.85	1.00	0.20883	14	31	230	64
		980	200L	415	40.9	G	6.0	215	2.5	2.6	88.4	90.7	91.3	0.66	0.76	0.82	1.00	0.40366	14	31	280	58
		975	200L	400	41.4	G	6.0	216	2.3	2.4	89.0	90.9	91.3	0.70	0.79	0.84	1.00	0.40366	14	31	280	58
		970	200L	380	43.1	G	6.0	217	2.1	2.2	89.6	91.0	91.2	0.74	0.82	0.85	1.00	0.40366	14	31	280	58
		735	225S/M	415	40.0	J	7.5	287	2.4	2.9	88.6	91.0	91.2	0.71	0.80	0.84	1.00	0.97159	19	42	419	60
		730	225S/M	380	42.9	H	7.5	289	2.0	2.4	89.4	90.9	90.5	0.76	0.84	0.86	1.00	0.97159	19	42	419	60
		730	225S/M	400	41.1	J	7.5	289	2.2	2.7	89.0	91.0	91.0	0.73	0.82	0.85	1.00	0.97159	19	42	419	60
		2970	200L	415	51.8	H	7.5	94.6	3.0	3.0	89.5	91.8	92.7	0.73	0.83	0.87	1.00	0.19581	19	42	239	74
		2965	200L	400	53.1	H	7.5	94.8	2.8	2.8	90.0	92.0	92.7	0.77	0.85	0.88	1.00	0.19581	19	42	239	74
		2960	200L	380	55.3	H	7.5	94.9	2.6	2.6	90.5	92.1	92.6	0.80	0.87	0.89	1.00	0.19581	19	42	239	74
		1480	200L	415	53.3	G	6.5	190	2.4	2.7	91.5	93.0	93.2	0.72	0.80	0.84	1.00	0.32017	17	37	290	69
		1475	200L	400	54.8	G	6.5	190	2.2	2.5	91.8	93.0	93.0	0.75	0.82	0.85	1.00	0.32017	17	37	290	69
40	30	1470	200L	380	57.2	G	6.5	191	2.0	2.2	92.2	93.0	92.6	0.78	0.84	0.86	1.00	0.32017	17	37	290	69
		985	225S/M	400	54.2	H	7.2	285	2.6	2.7	90.5	91.8	91.8	0.77	0.84	0.87	1.00	0.92533	20	44	423	61
		985	225S/M	415	52.6	H	7.2	285	2.8	2.9	90.0	91.8	92.2	0.73	0.81	0.86	1.00	0.92533	20	44	423	61
		980	225S/M	380	56.5	H	7.2	287	2.4	2.5	91.0	91.8	91.6	0.80	0.86	0.88	1.00	0.92533	20	44	423	61
		735	250S/M	415	54.8	J	7.9	382	2.5	3.1	89.0	91.1	91.8	0.66	0.77	0.83	1.00	1.22377	17	37	487	60
		730	250S/M	400	56.3	J	7.9	385	2.3	2.9	89.5	91.2	91.6	0.70	0.79	0.84	1.00	1.22377	17	37	487	60
		730	250S/M	380	58.7	J	7.9	385	2.0	2.6	90.0	91.3	91.3	0.73	0.81	0.85	1.00	1.22377	17	37	487	60
		2965	200L	400	65.3	H	7.6	118	2.9	2.9	91.3	92.8	93.0	0.75	0.84	0.88	1.00	0.21144	19	42	305	74
		2965	200L	415	64.4	H	7.6	118	3.1	3.1	90.8	92.6	93.0	0.70	0.81	0.86	1.00	0.21144	19	42	305	74
		2960	200L	380	67.9	H	7.6	119	2.6	2.7	91.7	93.0	93.0	0.80	0.87	0.89	1.00	0.21144	19	42	305	74
		1480	225S/M	400	65.4	H	7.2	237	2.3	2.7	91.2	92.2	92.8	0.76	0.85	0.88	1.00	0.61073	20	44	405	70
		1480	225S/M	415	63.7	H	7.2	237	2.5	2.9	90.8	92.1	92.9	0.72	0.83	0.87	1.00	0.61073	20	44	405	70
50	37	1475	225S/M	380	68.3	H	7.2	238	2.1	2.4	91.6	92.4	92.5	0.79	0.86	0.89	1.00	0.61073	20	44	405	70
		985	250S/M	415	64.6	H	7.5	357	2.9	2.8	89.5	92.4	92.6	0.73	0.82	0.86	1.00	1.22377	18	40	491	61
		980	250S/M	380	69.1	H	7.5	358	2.5	2.4	90.5	92.5	92.4	0.80	0.86	0.88	1.00	1.22377	18	40	491	61
		980	250S/M	400	66.4	H	7.5	358	2.7	2.6	90.2	92.4	92.5	0.77	0.85	0.87	1.00	1.22377	18	40	491	61
		740	280S/M	400	71.4	H	6.5	475	1.9	2.3	90.5	92.2	92.3	0.67	0.77	0.81	1.00	2.25651	29	64	700	62
		740	280S/M	415	70.5	H	6.5	475	2.1	2.5	90.0	92.2	92.4	0.64	0.75	0.79	1.00	2.25651	29	64	700	62
		735	280S/M	380	74.4	H	6.5	478	1.7	2.1	91.0	92.2	92.1	0.70	0.79	0.82	1.00	2.25651	29	64	700	62
		2970	225S/M	415	74.9	H	7.9	142	2.8	3.7	91.5	93.3	93.9	0.83	0.87	0.89	1.00	0.42763	24	53	460	82
		2965	225S/M	400	77.1	H	7.9	142	2.6	3.5	91.6	93.3	93.6	0.84	0.88	0.90	1.00	0.42763	24	53	460	82
		2960	225S/M	380	80.4	H	7.9	142	2.4	3.2	91.9	93.4	93.5	0.85	0.89	0.91	1.00	0.42763	24	53	460	82
		1480	225S/M	415	77.0	H	7.0	285	2.5	2.9	91.0	92.9	93.5	0.72	0.83	0.87	1.00	0.74644	16	35	434	70
		1475	225S/M	400	78.9	H	7.0	286	2.3	2.7	91.0	92.9	93.5	0.76	0.85	0.88	1.00	0.74644	16	35	434	70
60	45	1475	225S/M	380	82.2	H	7.0	286	2.1	2.5	91.3	92.8	93.5	0.80	0.87	0.89	1.00	0.74644	16	35	434	70
		990	280S/M	415	82.4	H	6.8	426	2.6	2.8	90.0	92.3	92.7	0.64	0.76	0.82	1.00	2.24616	24	53	736	66
		985	280S/M	380	86.9	H	6.8	428	2.2	2.4	91.0	92.3	92.6	0.72	0.81	0.85	1.00	2.24616	24	53	736	66
		985	280S/M	400	84.5	H	6.8	428	2.4	2.6	90.5	92.3	92.6	0.68	0.78	0.83	1.00	2.24616	24	53	736	66
		740	280S/M	415	87.0	H	6.5	570	2.2	2.6	90.0	92.0	92.3	0.60	0.72	0.78	1.00	2.59499	26	57	765	62
		740	280S/M	400	88.0	H	6.5	570	2.0	2.4	90.5	92.1	92.3	0.65	0.75	0.80	1.00	2.59499	26	57	765	62
		735	280S/M	380	90.6	H	6.5	573	1.8	2.2	91.0	92.2	92.0	0.70	0.77	0.82	1.00	2.59499	26	57	765	62

EEx d - Explosion Proof Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

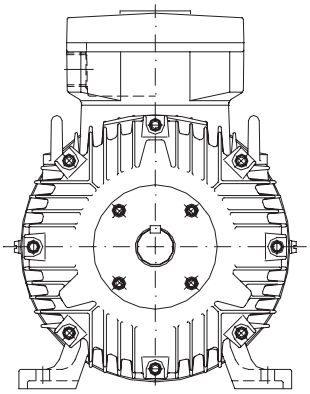
Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load								Hot	Cold		
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100						
75	55	2970	250S/M	415	89.5	J	8.5	177	3.0	3.2	91.6	93.5	94.0	0.82	0.88	0.91	1.00	0.47895	15	33	514	82
		2965	250S/M	400	93.0	J	8.5	178	2.8	3.0	91.8	93.5	93.8	0.84	0.89	0.91	1.00	0.47895	15	33	514	82
		2965	250S/M	380	97.1	J	8.5	178	2.6	2.7	91.8	93.2	93.5	0.86	0.91	0.92	1.00	0.47895	15	33	514	82
		1480	250S/M	415	91.9	G	7.0	356	2.5	2.8	92.5	93.4	93.6	0.77	0.85	0.89	1.00	0.94707	16	35	509	70
		1475	250S/M	400	95.2	G	7.0	357	2.3	2.6	93.0	93.5	93.7	0.78	0.86	0.89	1.00	0.94707	16	35	509	70
		1475	250S/M	380	98.3	G	7.0	357	2.1	2.4	92.8	93.5	93.4	0.83	0.88	0.91	1.00	0.94707	16	35	509	70
		990	280S/M	415	97.3	G	6.5	532	2.5	2.7	91.2	93.2	93.6	0.68	0.80	0.84	1.00	2.58309	23	51	775	66
		985	280S/M	400	100	G	6.5	535	2.3	2.5	91.6	93.2	93.5	0.71	0.82	0.85	1.00	2.58309	23	51	775	66
		985	280S/M	380	103	G	6.5	535	2.1	2.3	92.0	93.2	93.4	0.74	0.84	0.87	1.00	2.58309	23	51	775	66
		740	315S/M	400	104	G	6.5	712	1.9	2.2	91.2	93.1	93.0	0.69	0.78	0.82	1.00	3.04629	27	59	845	62
		740	315S/M	415	103	H	6.5	712	2.1	2.4	90.7	93.0	93.0	0.65	0.76	0.80	1.00	3.04629	27	59	845	62
		735	315S/M	380	108	G	6.5	717	1.7	2.0	91.6	93.2	92.8	0.72	0.80	0.83	1.00	3.04629	27	59	845	62
100	75	2980	280S/M	415	126	H	7.5	236	2.6	3.0	91.0	93.6	94.2	0.78	0.85	0.88	1.00	1.11089	44	97	783	83
		2975	280S/M	400	129	H	7.5	236	2.4	2.8	91.4	93.6	94.2	0.81	0.87	0.89	1.00	1.11089	44	97	783	83
		2970	280S/M	380	134	H	7.5	237	2.2	2.6	91.9	93.6	94.3	0.84	0.88	0.90	1.00	1.11089	44	97	783	83
		1485	280S/M	400	131	G	6.7	473	2.1	2.4	92.0	93.6	94.0	0.79	0.85	0.88	1.00	1.84681	31	68	778	76
		1485	280S/M	415	128	G	6.7	473	2.3	2.6	91.5	93.6	94.0	0.76	0.84	0.87	1.00	1.84681	31	68	778	76
		1480	280S/M	380	137	G	6.7	475	1.9	2.2	92.1	93.4	93.6	0.82	0.87	0.89	1.00	1.84681	31	68	778	76
		990	315S/M	415	132	H	6.7	709	2.5	2.7	91.2	93.5	93.8	0.69	0.80	0.84	1.00	3.36925	20	44	963	69
		985	315S/M	400	136	H	6.7	713	2.3	2.5	91.6	93.5	93.7	0.71	0.81	0.85	1.00	3.36925	20	44	963	69
		985	315S/M	380	142	G	6.7	713	2.1	2.3	92.0	93.5	93.5	0.74	0.82	0.86	1.00	3.36925	20	44	963	69
		740	315S/M	415	138	H	6.6	949	2.1	2.4	91.6	93.4	93.4	0.64	0.78	0.81	1.00	4.28737	20	44	1062	62
		740	315S/M	400	141	H	6.6	949	1.9	2.2	92.0	93.4	93.5	0.67	0.79	0.82	1.00	4.28737	20	44	1062	62
		735	315S/M	380	147	H	6.6	956	1.7	2.0	92.4	93.3	93.3	0.70	0.80	0.83	1.00	4.28737	20	44	1062	62
125	90	2975	280S/M	400	153	H	8.1	295	2.3	2.8	92.0	94.1	94.5	0.79	0.87	0.90	1.00	1.18247	35	77	845	83
		2975	280S/M	415	149	H	8.1	295	2.5	3.0	91.5	94.1	94.5	0.77	0.86	0.89	1.00	1.18247	35	77	845	83
		2970	280S/M	380	161	H	8.1	296	2.1	2.6	92.3	93.9	94.5	0.82	0.88	0.90	1.00	1.18247	35	77	845	83
		1485	280S/M	415	151	G	7.1	591	2.6	2.7	92.0	93.9	94.2	0.78	0.85	0.88	1.00	2.34332	31	68	869	76
		1485	280S/M	400	157	G	7.1	591	2.4	2.5	92.3	93.9	94.2	0.80	0.86	0.88	1.00	2.34332	31	68	869	76
		1480	280S/M	380	163	G	7.1	593	2.2	2.3	92.6	94.1	94.2	0.82	0.87	0.89	1.00	2.34332	31	68	869	76
		990	315S/M	415	159	G	6.3	887	2.3	2.5	92.2	93.9	93.9	0.69	0.79	0.84	1.00	3.56503	18	40	993	69
		985	315S/M	400	163	G	6.3	891	2.1	2.3	92.5	94.0	93.9	0.71	0.81	0.85	1.00	3.56503	18	40	993	69
		985	315S/M	380	170	G	6.3	891	1.9	2.1	92.8	93.9	93.6	0.74	0.83	0.86	1.00	3.56503	18	40	993	69
		740	315S/M	400	166	G	6.8	1186	2.1	2.4	92.5	93.8	94.2	0.70	0.78	0.83	1.00	5.52845	23	51	1220	62
		740	315S/M	415	164	H	6.8	1186	2.3	2.6	92.1	93.7	94.2	0.67	0.75	0.81	1.00	5.52845	23	51	1220	62
		735	315S/M	380	173	G	6.8	1195	1.9	2.1	92.9	93.9	94.0	0.73	0.81	0.84	1.00	5.52845	23	51	1220	62
150	110	2975	315S/M	400	188	H	7.6	354	2.3	2.8	93.0	94.4	94.9	0.79	0.85	0.89	1.00	1.31385	40	88	973	84
		2975	315S/M	415	183	H	7.6	354	2.4	3.0	92.2	94.4	94.8	0.75	0.83	0.88	1.00	1.31385	40	88	973	84
		2970	315S/M	380	196	H	7.6	355	2.1	2.6	93.1	94.4	94.9	0.81	0.87	0.90	1.00	1.31385	40	88	973	84
		1485	315S/M	415	186	H	7.1	709	2.5	2.8	92.8	94.4	94.5	0.76	0.83	0.87	1.00	2.70645	27	59	1036	77
		1485	315S/M	400	191	G	7.1	709	2.3	2.6	92.8	94.4	94.4	0.78	0.85	0.88	1.00	2.70645	27	59	1036	77
		1480	315S/M	380	202	G	7.1	712	2.1	2.4	92.8	93.6	94.2	0.80	0.86	0.88	1.00	2.70645	27	59	1036	77
		985	315S/M	400	200	G	6.4	1070	2.3	2.4	93.4	94.4	94.5	0.71	0.80	0.84	1.00	5.14247	18	40	1169	69
		985	315S/M	380	208	G	6.4	1070	2.1	2.2	93.6	94.3	94.3	0.74	0.82	0.85	1.00	5.14247	18	40	1169	69
		985	315S/M	415	195	G	6.4	1070	2.5	2.6	93.2	94.5	94.6	0.69	0.79	0.83	1.00	5.14247	18	40	1169	69
		745	355M/L	415	208	H	6.4	1414	1.7	2.4	92.0	94.1	94.5	0.60	0.71	0.78	1.00	12.2070	41	90	1750	70
		740	355M/L	380	216	G	6.4	1424	1.3	2.0	93.0	94.2	94.5	0.66	0.77	0.82	1.00	12.2070	41	90	1750	70
		740	355M/L	400	210	G	6.4	1424	1.5	2.2	92.5	94.1	94.5	0.63	0.74	0.80	1.00	12.2070	41	90	1750	70
175	132	2970	315S/M	415	214	H	7.5	414	2.5	3.0	93.0	94.8	95.2	0.80	0.87	0.90	1.00	1.53283	31	68	1034	84
		2970	315S/M	400	223	H	7.5	414	2.3	2.8	93.2	94.8	95.0	0.82	0.88	0.90	1.00	1.53283	31	68	1034	84
		2965	315S/M	380	232	H	7.5	415	2.1	2.6	93.5	94.7	94.8	0.84	0.89	0.91	1.00	1.53283	31	68	1034	84
		1485	315S/M	400	229	H	7.5	828	2.3	2.6	93.0	94.0	94.6	0.78	0.85	0.88	1.00	3.24774	13	29	1121	77
		1485	315S/M	415	223	H	7.5	828	2.5	2.8	92.2	94.7	94.7	0.76	0.84	0.87	1.00	3.24774	13	29	1121	77
		1480	315S/M	380	241	H	7.5	831	2.1	2.4	93.0	93.5	94.3	0.81	0.86	0.89	1.00	3.24774	13	29	1121	77
		995	355M/L	415	252	H	6.1	1235	2.2	2.5	92.0	94.7	94.7	0.60	0.70	0.77	1.00	7.88770	90	198	1685	73
		990	355M/L	380	259	G	6.1	1242	1.8	2.1	93.0	94.7	94.5	0.70	0.80	0.82	1.00	7.88770	90	198	1685	73
		990	355M/L	400	251	G	6.1	1242	2.0	2.3	92.5	94.7	94.7	0.65	0.75	0.80	1.00	7.88770	90	198	1685	73
		745	355M/L	415	252	H	6.5	1650	1.8	2.4	92.5	94.4	94.8	0.60	0.71	0.77	1.00	12.8173	47	103	1800	70
		740	355M/L	380	261	H	6.5	1661	1.4	2.0	93.5	94.6	94.8	0.66	0.75	0.81	1.00	12.8173	47	103	1800	70
		740	355M/L	400	254	H	6.5	1661	1.6	2.2	93.0	94.5	94.8	0.63	0.73	0.79	1.00	12.8173	47	103	1800	70

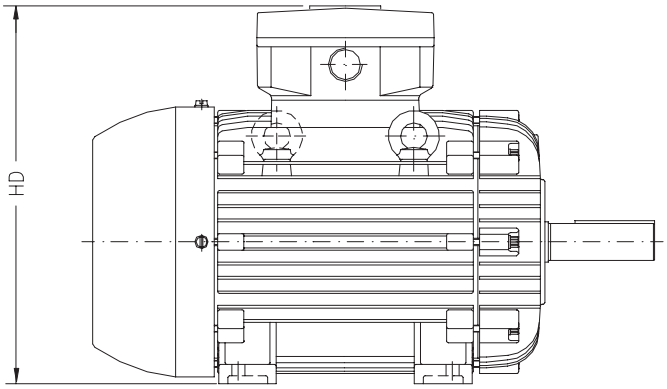
EEx d - Explosion Proof Metric Motors - Three Phase
Electrical Data

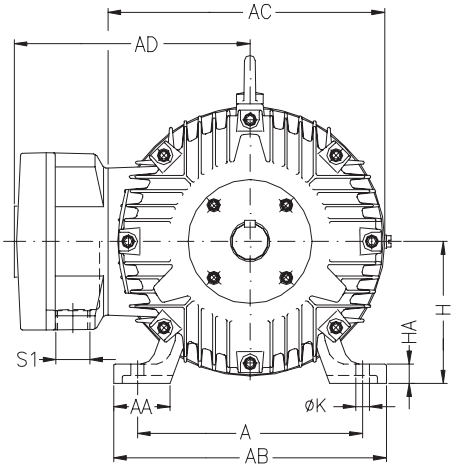
IE2 - Standard Efficiency - 50Hz

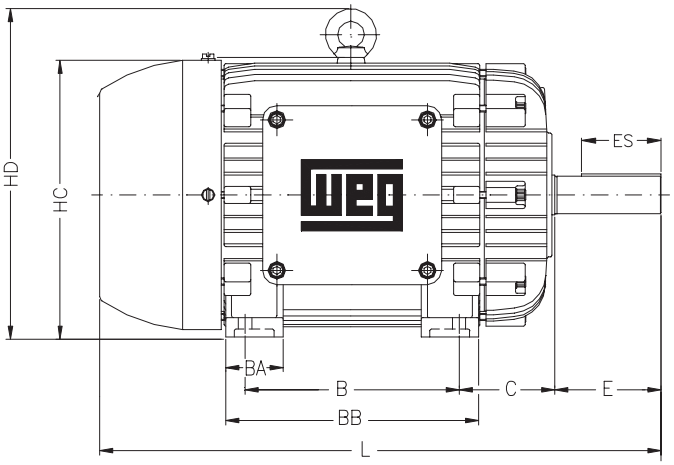
Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency % of full load			Power Factor Cos % of full load			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		2975	315S/M	415	262	G	7.3	519	2.4	2.7	94.0	95.0	95.4	0.83	0.88	0.89	1.00	1.97078	25	55	1165	84
		2970	315S/M	400	269	G	7.3	520	2.2	2.5	94.1	95.0	95.4	0.85	0.89	0.90	1.00	1.97078	25	55	1165	84
		2970	315S/M	380	280	G	7.3	520	2.0	2.3	94.2	95.0	95.3	0.86	0.90	0.91	1.00	1.97078	25	55	1165	84
		1485	315S/M	415	271	G	7.0	1041	2.6	2.8	94.2	95.1	95.5	0.73	0.82	0.86	1.00	3.63437	22	48	1190	77
		1480	315S/M	380	290	G	7.0	1044	2.2	2.5	93.0	95.0	95.4	0.78	0.85	0.88	1.00	3.63437	22	48	1190	77
220	160	1480	315S/M	400	278	G	7.0	1044	2.4	2.7	93.3	95.1	95.5	0.75	0.83	0.87	1.00	3.63437	22	48	1190	77
		990	355M/L	415	292	G	6.2	1561	2.1	2.3	92.5	94.9	95.4	0.63	0.74	0.80	1.00	9.93742	72	158	1730	73
		990	355M/L	400	295	G	6.2	1561	1.9	2.1	93.0	95.0	95.3	0.67	0.77	0.82	1.00	9.93742	72	158	1730	73
		990	355M/L	380	304	G	6.2	1561	1.7	1.9	93.5	95.2	95.2	0.73	0.80	0.84	1.00	9.93742	72	158	1730	73
		745	355M/L	415	298	H	6.6	2074	1.8	2.4	92.8	94.7	94.7	0.60	0.72	0.79	1.00	15.8690	42	92	1710	70
		740	355M/L	380	317	G	6.6	2088	1.4	2.0	93.8	94.8	94.8	0.68	0.77	0.81	1.00	15.8690	42	92	1710	70
		740	355M/L	400	305	H	6.6	2088	1.6	2.2	93.3	94.7	94.7	0.64	0.75	0.80	1.00	15.8690	42	92	1710	70
		2985	355M/L	415	321	G	7.2	635	2.0	2.8	93.3	94.9	95.4	0.88	0.90	0.91	1.00	4.55638	70	154	1830	81
		2985	355M/L	400	329	G	7.2	635	1.8	2.6	93.5	95.0	95.4	0.89	0.91	0.92	1.00	4.55638	70	154	1830	81
		2980	355M/L	380	347	G	7.2	636	1.6	2.4	93.7	95.0	95.3	0.90	0.92	0.92	1.00	4.55638	70	154	1830	81
		1490	355M/L	415	339	G	6.6	1273	2.4	2.3	94.5	95.1	95.3	0.76	0.84	0.86	1.00	6.34151	44	97	1808	79
		1490	355M/L	400	348	G	6.6	1273	2.3	2.2	94.8	95.2	95.4	0.78	0.85	0.87	1.00	6.34151	44	97	1808	79
		1485	355M/L	380	363	G	6.6	1277	2.0	2.0	94.8	95.0	95.2	0.80	0.86	0.88	1.00	6.34151	44	97	1808	79
270	200	990	355M/L	415	372	G	6.3	1916	2.3	2.5	93.0	94.3	94.8	0.66	0.75	0.79	1.00	12.0174	85	187	1910	73
		990	355M/L	380	386	G	6.3	1916	1.9	2.1	94.0	94.7	94.8	0.74	0.81	0.83	1.00	12.0174	85	187	1910	73
		990	355M/L	400	376	G	6.3	1916	2.1	2.3	93.5	94.5	94.8	0.70	0.78	0.81	1.00	12.0174	85	187	1910	73
		745	355M/L	415	380	H	6.8	2546	1.8	2.3	92.8	94.4	95.2	0.56	0.69	0.77	1.00	18.9208	37	81	1900	70
		740	355M/L	400	384	H	6.8	2563	1.6	2.1	93.3	94.6	95.2	0.60	0.72	0.79	1.00	18.9208	37	81	1900	70
		740	355M/L	380	394	H	6.8	2563	1.4	1.9	93.8	94.8	95.1	0.65	0.75	0.81	1.00	18.9208	37	81	1900	70
		2985	355M/L	400	409	H	7.8	800	2.2	2.5	94.4	95.8	96.0	0.88	0.91	0.92	1.00	5.38663	65	143	1972	81
		2985	355M/L	415	393	H	7.8	800	2.4	2.7	94.3	95.8	96.1	0.87	0.91	0.92	1.00	5.38663	65	143	1972	81
		2980	355M/L	380	425	H	7.8	801	2.0	2.3	94.5	95.8	96.0	0.90	0.92	0.93	1.00	5.38663	65	143	1972	81
		1490	355M/L	400	428	G	6.9	1603	2.2	2.5	94.3	95.2	95.8	0.80	0.86	0.88	1.00	8.12016	36	79	1922	79
340	250	1490	355M/L	415	418	G	6.9	1603	2.4	2.7	94.1	95.0	95.7	0.77	0.85	0.87	1.00	8.12016	36	79	1922	79
		1485	355M/L	380	446	G	6.9	1608	2.0	2.3	94.5	95.2	95.7	0.82	0.87	0.89	1.00	8.12016	36	79	1922	79
		995	355M/L	380	479	G	6.1	2400	2.0	2.0	94.3	95.2	95.5	0.74	0.81	0.83	1.00	14.3284	64	141	2185	73
		995	355M/L	400	460	G	6.1	2400	2.2	2.2	94.0	95.1	95.6	0.70	0.79	0.82	1.00	14.3284	64	141	2185	73
		995	355M/L	415	448	G	6.1	2400	2.4	2.4	93.7	95.0	95.8	0.67	0.77	0.81	1.00	14.3284	64	141	2185	73
		990	355M/L	415	517	G	6.0	2696	2.3	2.4	93.9	95.1	95.3	0.64	0.74	0.79	1.00	14.3284	54	119	2185	73
380	280	990	355M/L	400	530	G	6.0	2696	2.1	2.2	94.3	95.2	95.4	0.68	0.77	0.80	1.00	14.3284	54	119	2185	73
		985	355M/L	380	551	G	6.0	2710	1.9	2.0	94.7	95.3	95.4	0.73	0.80	0.81	1.00	14.3284	54	119	2185	73
		1490	355M/L	400	537	G	6.7	2027	2.2	2.4	94.8	95.9	96.2	0.79	0.86	0.88	1.00	9.92464	42	92	2199	79
430	315	1490	355M/L	415	524	G	6.7	2027	2.3	2.5	94.5	95.8	96.2	0.76	0.84	0.87	1.00	9.92464	42	92	2199	79
		1485	355M/L	380	560	G	6.7	2034	2.0	2.2	95.0	95.8	96.1	0.83	0.87	0.89	1.00	9.92464	42	92	2199	79

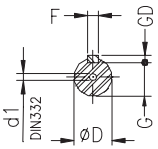
EEx d - Explosion Proof Metric Motors - Three Phase
Mechanical Data











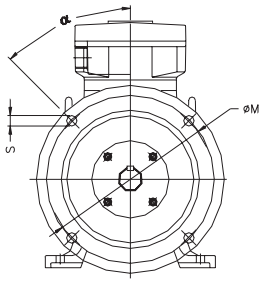
IEC Frame	NEMA Frame	A	AA	AB	AC	AD	B	BA	BB	C	SHAFT DIMENSIONS						H	HA	HC	HD	HD'	K	L	S1	d1	BEARINGS	
											D	E	ES	F	G	GD										D.E.	O.D.E.
90S	143T	140	38	164	179	214	100	42	131	56	24j6	50	36	8	20	7	90	12	177	X	304	10	316	M25 x 1.5	DM8	6205-ZZ	6204-ZZ
90L	145T						125		156														341				
100L	–	160	44	188	199	224	140	50	173	63	28j6	60	45		24		100	15	200		324	12	384		DM10	6206-ZZ	6205-ZZ
112M	184T	190	48	220	223	243			183	70							112	17	237	222	355		394	M32 x 1.5		6307-ZZ	6206-ZZ
132S	213T	216	51	248	270	271	178	55	188	89	38k6	80	63	10	33	8	132	19.5	282	330	403		451		DM12	6308-ZZ	6207-ZZ
132M	215T								226														489				
160M	254T	254	64	308	312	322	210	65	254	108	42k6	110	80	12	37		160	22	315	370	482	14.5	598	2 x M40 x 1.5	DM16	6309-C3	6209-Z-C3
160L	256T						254		298														652				
180M	284T	279	80	350	358	342	241	75	294	121	48k6			14	42.5	9	180	28	367	422	522		664			6311-C3	6211-Z-C3
180L	286T						279		332														702				
200M	324T	318	82	385	399	370	267	85	332	133	55m6			16	49	10	200	30	403	477	570	18.5	729	2 x M50 x 1.5	M20	6312-C3	6212-Z-C3
200L	326T						305		370														767				
225S/M	364/5TS	356	80	436	472	413	286	105	391	149	55m6*		100				225	34	475	550	638		817			6314-C3	NU-322-C3
	364/5T						311				60m6	140	125	18	53	11							847				
250S/M	404/5TS	406	100	506							60m6*						250	42	500	575	663	24	923	2 x M63 x 1.5			
	404/5T						349				65m6*				58												
280S/M	444/5TS	457		557	610	551	368	142	510	190	65m6*						280		600	693	831		1036			6316-C3	
	444/5T						419				75m6			20	67.5	12											
315S/M	504/5TS	508	120	628		573	406	152	558	216	65m6*			18	58	11	315	52	640	728	888	28	1126			6314-C3	
	504/5T						457				80m6	170	160	22	71	14							1156			6319-C3	6316-C3
355M/L	586/7TS	610	140	750	780	672	560	200	760	254	75m6*	140	125	20	67.5	12	355	50	755	864	1027		1399			6314-C3	
	586/7T						630				100m6	210	200	18	90	16							1469		M24	6322-C3	6319-C3

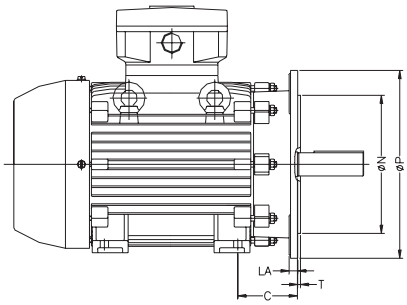
All Dimensions are in millimeters

* Shaft dimensions for 2 pole motors, only for direct coupling

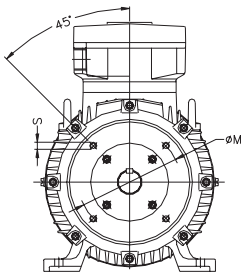
EEx d - Explosion Proof Metric Motors - Three Phase
Mechanical Data

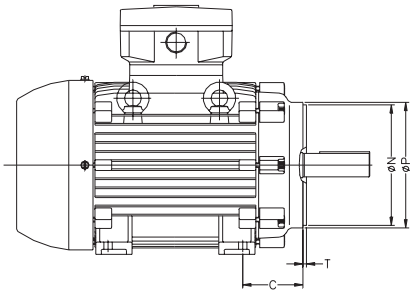
"FF" FLANGE DIMENSIONS										
IEC Frame	Flange	C	LA	M	N	P	T	S	a	n° of Holes
90S/L	FF–165	56	10	165	130	200	3.5	12	45°	4
100L	FF–215	63	11	215	180	250	4	15		
112M		70								
132S/M	FF–265	89	12	265	230	300				
160M/L	FF–300	108	13	300	250	350	5	19		
180M/L		121	14							
200M/L	FF–350	133	18	350	300	400				
225S/M	FF–400	149		400	350	450			22°30'	8
250S/M	FF–500	168		500	450	550				
280S/M		190								
315S/M	FF–600	216	22	600	550	660	6	24		
355M/L	FF–740	254		740	680	800				





"C" DIN FLANGE DIMENSIONS								
IEC Frame	Flange	C	M	N	P	S	T	n° of Holes
90S/L	C–140	56	115	95	140	M8	3	4
100L	C–160	63	130	110	160		3.5	
112M		70						
132S/M	C–200	89	165	130	200	M10		





EEx nA - Non-Sparking Metric Motors - Three Phase
Purchasing Data

Standard Features

- Three-phase 2, 4, 6 & 8 poles - 50 Hz & 60 Hz
- Voltage: 220-240V / 380-415V - 50Hz
  380-415V / 660-690V - 50Hz
  440-460V - 60Hz
- Standard Efficiency
- Class 'F' insulation
- Temperature rise: Class 'B' (80°C)
- Temperature Classification:
  Zone 2: T3
  Zone 22: Maximum motor guaranteed external temperature T125°C - Temperature limitation because of the presence of dust clouds (for material with ignition temperature above 125°C) and presence of dust layers (up to 5mm)
  Note: On VFD application, motor temperature class is T=160°C
- 104°F (40°C) ambient temperature
- Totally enclosed fan cooled (IP55)
- Service Factor: 1.0
- Design: N
- Continuous duty (S1)
- Thermistors (1 per Phase)
- Dip and Baked Impregnation (Frames 63 up to 200)
- Resin Continuous Flow Impregnation (Frame 225S/M up to 315S/M)
- Mounting: B3
- Squirrel Cage Rotor (Aluminum Die Cast)
- Ball bearings
- Aluminum Fan
- Plastic Threaded Plug
- V'ring Seals
- Regreasable bearing system (frame 160M and above)
- Shaft Material: AISI 1045 steel
- Terminal Box with metric threaded cable entries
- Standard Colour: RAL 5010 (Blue)
- WEG Paint Plan: 201 A

Optional Features

- Flanges
- Class 'H' insulation
- Taconite labyrinth seal
- Cable glands
- Space heaters
- Thermostats or RTD's (PT100)
- Auxiliary terminal box
- Drip cover (canopy) for shaft down applications
- Special painting plans for hostile evironments
- Roller bearings on drive end
- Terminal blocks available
- Special bearings
- Efficiency Levels: IE1 and IE3 available

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- Please call for specific ratings

CE CESI Ex

EEx nA - Non-Sparking Metric Motors - Three Phase
Purchasing Data

IE2 - Standard Efficiency

Rated Output			IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency (415V)	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM				380V	415V			
0.12	0.16	3000	63	$ 201	ME.16X02EEXN	0.38	0.41	62.0	6	216
		1500	63	201	ME.16X04EEXN	0.44	0.46	59.0	7	216
		1000	63	251	ME.16X06EEXN	0.48	0.51	55.5	8	216
		750	71	281	ME.16X08EEXN	0.61	0.70	50.0	12	248
0.18	0.25	3000	63	207	ME.25X02EEXN	0.49	0.49	66.0	7	216
		1500	63	207	ME.25X04EEXN	0.58	0.60	62.5	9	216
		1000	71	266	ME.25X06EEXN	0.73	0.75	57.5	11	248
		750	80	290	ME.25X08EEXN	0.77	0.80	54.5	14	276
0.25	0.33	3000	63	212	ME.33X02EEXN	0.67	0.68	69.5	8	216
		1500	71	236	ME.33X04EEXN	0.73	0.70	72.5	12	248
		1000	71	270	ME.33X06EEXN	0.95	1.03	65.3	12	248
		750	80	314	ME.33X08EEXN	0.97	1.01	56.5	15	276
0.37	0.5	3000	71	232	ME.50X02EEXN	0.88	0.85	73.5	10	248
		1500	71	243	ME.50X04EEXN	1.05	1.05	73.6	12	248
		1000	80	283	ME.50X06EEXN	1.18	1.26	66.0	15	276
		750	90S	367	ME.50X08EEXN	1.35	1.43	62.0	18	304
0.55	0.75	3000	71	236	ME.75X02EEXN	1.28	1.20	75.2	12	248
		1500	80	278	ME.75X04EEXN	1.38	1.37	75.0	16	276
		1000	80	292	ME.75X06EEXN	1.60	1.70	68.0	17	276
		750	90L	405	ME.75X08EEXN	1.85	1.94	65.5	22	329
0.75	1	3000	80	284	ME000X02EEXN	1.63	1.50	78.5	14	276
		1500	80	289	ME000X04EEXN	1.76	1.69	76.0	16	276
		1000	90S	369	ME000X06EEXN	2.02	1.97	71.5	21	304
		750	100L	490	ME000X08EEXN	2.45	2.47	70.5	28	376
1.1	1.5	3000	80	306	ME001X02EEXN	2.39	2.28	79.3	15	276
		1500	90S	329	ME001X04EEXN	2.56	2.58	80.5	22	304
		1000	90L	391	ME001X06EEXN	2.86	2.83	74.8	24	329
		750	100L	517	ME001X08EEXN	3.41	3.42	72.0	31	376
1.5	2	3000	90S	349	ME002X02EEXN	3.21	3.06	81.6	20	304
		1500	90L	383	ME002X04EEXN	3.31	3.15	81.0	24	329
		1000	100L	487	ME002X06EEXN	3.89	3.79	77.0	29	376
		750	112M	709	ME002X08EEXN	4.19	4.05	77.7	43	393
2.2	3	3000	90L	399	ME003X02EEXN	4.61	4.37	83.3	22	329
		1500	100L	481	ME003X04EEXN	4.81	4.55	81.7	30	376
		1000	112M	610	ME003X06EEXN	5.52	5.28	79.7	37	393
		750	132S	1,003	ME003X08EEXN	5.43	5.22	82.1	70	452
3	4	3000	100L	522	ME004X02EEXN	6.02	5.60	85.1	31	376
		1500	100L	579	ME004X04EEXN	6.22	5.85	84.2	33	376
		1000	132S	870	ME004X06EEXN	7.04	6.83	82.0	55	452
		750	132M	1,220	ME004X08EEXN	7.42	7.14	83.0	75	490
4	5.5	3000	112M	619	ME5.5X02EEXN	7.83	7.25	87.2	43	393
		1500	112M	731	ME5.5X04EEXN	7.88	7.64	86.7	47	393
		1000	132M	986	ME5.5X06EEXN	9.01	8.64	85.4	65	490
		750	160M	1,585	ME5.5X08EEXN	9.83	9.80	85.9	105	598
5.5	7.5	3000	132S	850	ME007X02EEXN	10.6	10.2	88.2	61	452
		1500	132S	949	ME007X04EEXN	10.9	10.4	88.3	62	452
		1000	132M	1,196	ME007X06EEXN	12.7	12.5	85.6	74	490
		750	160M	1,914	ME007X08EEXN	13.6	13.6	85.2	114	598
7.5	10	3000	132S	965	ME010X02EEXN	14.3	13.4	88.8	67	452
		1500	132M	1,123	ME010X04EEXN	14.6	14.2	88.4	65	490
		1000	160M	1,665	ME010X06EEXN	15.7	15.0	87.5	108	598
		750	160L	1,953	ME010X08EEXN	18.1	17.4	85.3	127	642
11	15	3000	160M	1,659	ME015X02EEXN	20.8	19.5	90.2	110	598
		1500	160M	1,754	ME015X04EEXN	22.0	20.8	89.2	108	598
		1000	160L	2,189	ME015X06EEXN	22.6	21.7	88.0	134	642
		750	180L	3,000	ME015X08EEXN	22.4	20.8	87.8	168	702
15	20	3000	160M	1,791	ME020X02EEXN	28.1	26.3	91.0	117	598
		1500	160L	1,908	ME020X04EEXN	29.4	27.8	90.1	127	642
		1000	180L	2,783	ME020X06EEXN	28.0	25.6	89.5	176	702
		750	200L	3,668	ME020X08EEXN	33.3	32.6	88.9	225	767
18.5	25	3000	160L	2,085	ME025X02EEXN	34.5	32.5	91.5	132	642
		1500	180M	2,864	ME025X04EEXN	36.1	34.1	91.7	183	664
		1000	200L	3,874	ME025X06EEXN	36.0	33.9	89.8	226	767
		750	225S/M	6,101	ME025X08EEXN	36.4	34.0	89.8	341	847
22	30	3000	180M	2,708	ME030X02EEXN	40.4	38.2	92.0	188	664
		1500	180L	3,127	ME030X04EEXN	42.6	40.8	92.3	190	702
		1000	200L	4,120	ME030X06EEXN	43.1	40.9	91.2	239	767
		750	225S/M	7,488	ME030X08EEXN	42.9	40.0	90.5	365	847

EEx nA - Non-Sparking Metric Motors - Three Phase
Purchasing Data

IE2 - Standard Efficiency

Rated Output			IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency (415V)	Shipping Weight (lbs.)	Overall Length "L" Dimension (mm.)
kW	HP	RPM				380V	415V			
30	40	3000	200L	$ 3,960	ME040X02EEXN	55.9	52.4	92.6	245	767
		1500	200L	4,066	ME040X04EEXN	57.2	53.3	92.6	248	767
		1000	225S/M	6,216	ME040X06EEXN	56.5	52.6	91.6	366	847
		750	250S/M	8,005	ME040X08EEXN	58.7	54.8	91.3	440	923
37	50	3000	200L	4,209	ME050X02EEXN	67.9	64.4	93.0	262	767
		1500	225S/M	5,418	ME050X04EEXN	68.3	63.7	92.5	353	847
		1000	250S/M	6,932	ME050X06EEXN	69.1	64.6	92.4	434	923
		750	280S/M	11,313	ME050X08EEXN	74.4	70.5	92.1	590	1036
45	60	3000	225S/M	6,633	ME060X02EEXN	80.4	74.9	93.5	407	847
		1500	225S/M	6,162	ME060X04EEXN	82.2	77.0	93.5	382	847
		1000	280S/M	10,580	ME060X06EEXN	86.9	82.4	92.6	606	1036
		750	280S/M	12,170	ME060X08EEXN	90.6	87.0	92.0	643	1036
55	75	3000	250S/M	7,847	ME075X02EEXN	97.1	89.5	93.5	490	923
		1500	250S/M	7,563	ME075X04EEXN	98.3	91.9	93.4	451	923
		1000	280S/M	10,693	ME075X06EEXN	103	97.3	93.4	657	1036
		750	315S/M	12,834	ME075X08EEXN	108	103	92.8	745	1156
75	100	3000	280S/M	10,766	ME100X02EEXN	134	126	94.3	655	1036
		1500	280S/M	10,825	ME100X04EEXN	137	127	94.2	735	1036
		1000	315S/M	11,928	ME100X06EEXN	142	132	93.5	775	1156
		750	315S/M	14,610	ME100X08EEXN	147	138	93.3	876	1156
90	125	3000	280S/M	11,441	ME125X02EEXN	161	149	94.5	717	1036
		1500	280S/M	11,227	ME125X04EEXN	163	151	94.2	737	1036
		1000	315S/M	13,985	ME125X06EEXN	170	159	93.6	818	1156
		750	315S/M	16,974	ME125X08EEXN	173	164	94.0	970	1156
110	150	3000	315S/M	13,775	ME150X02EEXN	196	183	94.9	809	1156
		1500	315S/M	14,262	ME150X04EEXN	202	186	94.2	866	1156
		1000	315S/M	17,750	ME150X06EEXN	208	195	94.3	990	1156
		750	355M/L	31,172	ME150X08EEXN	216	208	94.5	1,390	1466
132	175	3000	315S/M	15,750	ME175X02EEXN	232	214	94.8	937	1156
		1500	315S/M	16,697	ME175X04EEXN	237	222	95.1	1,010	1156
		1000	355M/L	30,564	ME175X06EEXN	259	252	94.5	1,385	1466
		750	355M/L	34,760	ME175X08EEXN	261	253	94.8	1,445	1466
		750	315B	31,374	ME175X08EEXN315B	263	252	94.3	1,399	1502
160	220	3000	315S/M	21,180	ME220X02EEXN	280	262	95.3	1,010	1156
		1500	315S/M	18,966	ME220X04EEXN	290	271	95.4	1,010	1156
		1000	315B	31,667	ME220X06EEXN315B	306	292	94.7	1,350	1502
		1000	355M/L	34,622	ME220X06EEXN	304	293	95.2	1,485	1466
		750	355M/L	38,022	ME220X08EEXN	317	313	94.8	1,620	1466
		750	315B	32,916	ME220X08EEXN315B	325	298	94.6	1,534	1502
200	270	3000	315B	31,620	ME270X02EEXN315B	377	321	93.6	1,415	1502
		3000	355M/L	35,009	ME270X02EEXN	347	354	95.3	1,490	1466
		1500	315B	33,190	ME270X04EEXN315B	390	339	95.0	1,240	1502
		1500	355M/L	33,720	ME270X04EEXN	363	366	95.2	1,525	1466
		1000	355M/L	38,943	ME270X06EEXN	386	372	94.8	1,700	1466
		1000	315B	35,228	ME270X06EEXN315B	377	353	94.9	1,419	1502
		750	355M/L	38,022	ME270X08EEXN	394	380	95.1	1,830	1466
250	340	3000	315B	38,913	ME340X02EEXN315B	463	393	94.3	1,490	1502
		3000	355M/L	43,251	ME340X02EEXN	425	433	96.0	1,750	1466
		1500	315B	33,238	ME340X04EEXN315B	469	418	95.2	1,330	1502
		1500	355M/L	35,496	ME340X04EEXN	446	452	95.7	1,615	1466
		1000	355M/L	44,337	ME340X06EEXN	479	448	95.5	1,830	1466

EEx nA - Non-Sparking Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

Rated Output		Full Load Speed	IEC Frame	Voltage	Full Load Current	Locked Rotor Current (A)		Full Load Torque	Locked Rotor Torque	Break Down Torque	Efficiency			Power Factor Cos			Service Factor	Moment of Inertia	Allowable Locked Rotor Time (s)		Approx. Weight	Sound
											% of full load											
HP	kW	(RPM)			I_n(A)	(kVA Code)	(I_i/I_n)	T_n(lb.ft)	(T_i/T_n)	(T_b/T_n)	50	75	100	50	75	100	SF	WK^2(lb.ft^2)	Hot	Cold	(lb)	dB(A)
		2820	63	415	0.41	K	4.8	0.40	3.2	3.3	46.0	55.0	59.5	0.49	0.59	0.68	1	0.00010	27	59	6	52
		2810	63	400	0.40	K	4.8	0.40	3.0	3.1	49.0	57.0	60.5	0.52	0.62	0.72	1	0.00010	27	59	6	52
		2780	63	380	0.38	J	4.8	0.40	2.7	2.8	51.0	58.0	62.0	0.56	0.67	0.77	1	0.00010	27	59	6	52
		1425	63	415	0.46	K	4.2	0.79	2.6	2.7	42.0	52.0	58.0	0.43	0.52	0.63	1	0.00044	20	44	7	44
		1415	63	400	0.44	K	4.2	0.79	2.4	2.5	45.0	54.0	58.5	0.46	0.56	0.67	1	0.00044	20	44	7	44
0.16	0.12	1405	63	380	0.44	J	4.2	0.80	2.2	2.3	47.0	55.0	59.0	0.49	0.60	0.70	1	0.00044	20	44	7	44
		915	63	415	0.51	J	3.5	1.23	2.4	2.3	39.0	48.0	53.0	0.43	0.52	0.62	1	0.00066	41	90	8	43
		910	63	400	0.49	J	3.5	1.23	2.2	2.1	42.0	50.0	54.5	0.46	0.55	0.65	1	0.00066	41	90	8	43
		900	63	380	0.48	H	3.5	1.25	2.0	1.9	45.0	52.0	55.5	0.49	0.58	0.68	1	0.00066	41	90	8	43
		695	71	415	0.70	J	2.5	1.62	2.1	2.3	32.0	40.5	45.0	0.37	0.47	0.53	1	0.00077	44	97	12	41
		685	71	400	0.66	H	2.5	1.64	1.9	2.1	36.0	44.2	47.2	0.40	0.49	0.56	1	0.00077	44	97	12	41
		675	71	380	0.61	G	2.5	1.66	1.7	1.9	40.0	48.0	50.0	0.44	0.52	0.60	1	0.00077	44	97	12	41
		2755	63	415	0.49	H	4.5	0.64	3.0	2.9	58.0	64.5	66.0	0.55	0.67	0.77	1	0.00014	30	66	7	52
		2730	63	400	0.48	G	4.5	0.64	2.8	2.7	60.0	66.0	66.5	0.60	0.72	0.81	1	0.00014	30	66	7	52
		2700	63	380	0.49	G	4.5	0.65	2.5	2.4	62.0	66.5	66.0	0.65	0.76	0.84	1	0.00014	30	66	7	52
		1410	63	415	0.60	H	4.0	1.25	2.4	2.7	51.0	57.5	61.0	0.48	0.59	0.69	1	0.00055	23	51	9	44
		1400	63	400	0.58	H	4.0	1.25	2.2	2.5	53.8	59.5	62.0	0.52	0.63	0.72	1	0.00055	23	51	9	44
		1385	63	380	0.58	G	4.0	1.27	2.0	2.3	55.8	60.5	62.5	0.55	0.67	0.76	1	0.00055	23	51	9	44
0.25	0.18	910	71	415	0.75	J	3.3	1.93	2.2	2.4	43.0	52.0	56.5	0.44	0.52	0.59	1	0.00077	50	110	11	43
		905	71	400	0.74	H	3.3	1.94	2.0	2.2	46.0	54.0	57.0	0.46	0.55	0.62	1	0.00077	50	110	11	43
		895	71	380	0.73	H	3.3	1.96	1.8	2.0	49.0	55.5	57.5	0.49	0.59	0.65	1	0.00077	50	110	11	43
		710	80	415	0.80	J	3.1	2.47	2.1	2.3	37.0	46.0	53.0	0.41	0.50	0.59	1	0.00236	16	35	14	42
		700	80	400	0.77	H	3.1	2.51	1.9	2.1	40.0	49.0	54.2	0.43	0.53	0.62	1	0.00236	16	35	14	42
		690	80	380	0.77	H	3.1	2.54	1.7	1.9	43.0	52.0	54.5	0.45	0.56	0.65	1	0.00236	16	35	14	42
		2790	63	415	0.68	H	4.5	0.83	3.1	3.1	59.5	65.0	68.5	0.54	0.66	0.75	1	0.00016	25	55	8	52
		2760	63	400	0.66	G	4.5	0.84	2.9	2.9	61.5	66.5	69.3	0.58	0.70	0.79	1	0.00016	25	55	8	52
		2730	63	380	0.67	G	4.5	0.85	2.6	2.6	63.5	67.5	69.5	0.63	0.75	0.82	1	0.00016	25	55	8	52
		1420	71	415	0.70	J	5.0	1.63	3.2	3.3	67.0	71.0	73.0	0.47	0.58	0.68	1	0.00077	48	106	12	43
		1410	71	400	0.71	J	5.0	1.64	3.0	3.1	68.5	71.5	73.0	0.50	0.61	0.70	1	0.00077	48	106	12	43
		1400	71	380	0.73	J	5.0	1.66	2.7	2.8	70.0	72.0	72.5	0.53	0.65	0.72	1	0.00077	48	106	12	43
0.33	0.25	905	71	415	1.03	J	3.5	2.56	2.4	2.4	50.0	58.0	62.5	0.37	0.46	0.54	1	0.00093	43	95	12	43
		900	71	400	0.99	J	3.5	2.58	2.2	2.2	53.0	60.5	64.0	0.40	0.50	0.57	1	0.00093	43	95	12	43
		890	71	380	0.95	H	3.5	2.60	2.0	2.0	56.0	63.0	65.3	0.44	0.55	0.61	1	0.00093	43	95	12	43
		690	80	415	1.01	H	3.0	3.36	2.0	2.0	45.0	53.5	56.5	0.42	0.53	0.61	1	0.00287	21	46	15	42
		680	80	400	0.97	G	3.0	3.41	1.8	1.8	47.5	55.0	57.0	0.45	0.56	0.65	1	0.00287	21	46	15	42
		670	80	380	0.97	G	3.0	3.46	1.6	1.6	50.5	56.5	56.5	0.48	0.59	0.69	1	0.00287	21	46	15	42
		2825	71	415	0.85	H	5.5	1.24	3.2	3.4	66.0	71.5	73.6	0.60	0.73	0.82	1	0.00033	23	51	10	56
		2810	71	400	0.85	H	5.5	1.25	3.0	3.2	67.2	72.0	73.6	0.65	0.77	0.85	1	0.00033	23	51	10	56
		2790	71	380	0.88	H	5.5	1.26	2.7	2.9	68.8	72.5	73.5	0.70	0.81	0.87	1	0.00033	23	51	10	56
		1405	71	415	1.05	H	4.4	2.50	2.9	3.0	65.0	71.0	73.2	0.44	0.56	0.67	1	0.00077	37	81	12	43
		1395	71	400	1.04	H	4.4	2.52	2.7	2.8	68.0	72.0	73.5	0.48	0.60	0.70	1	0.00077	37	81	12	43
		1385	71	380	1.05	G	4.4	2.54	2.5	2.6	70.0	73.0	73.6	0.52	0.65	0.73	1	0.00077	37	81	12	43
0.5	0.37	935	80	415	1.26	K	4.5	3.76	2.8	2.8	52.0	61.0	64.0	0.42	0.54	0.64	1	0.00236	12	26	15	43
		930	80	400	1.23	J	4.5	3.78	2.5	2.5	54.0	62.5	65.0	0.45	0.57	0.67	1	0.00236	12	26	15	43
		920	80	380	1.18	H	4.5	3.82	2.2	2.2	56.0	64.0	66.0	0.49	0.62	0.72	1	0.00236	12	26	15	43
		700	90S	415	1.43	J	3.5	5.02	2.3	2.3	48.0	57.0	60.0	0.40	0.50	0.60	1	0.00439	29	64	18	43
		695	90S	400	1.37	H	3.5	5.05	2.1	2.1	51.0	59.0	61.0	0.43	0.53	0.64	1	0.00439	29	64	18	43
		685	90S	380	1.35	G	3.5	5.13	1.9	1.9	54.0	61.0	62.0	0.46	0.56	0.67	1	0.00439	29	64	18	43
		2820	71	415	1.20	H	5.5	1.87	3.1	3.2	71.1	75.7	76.2	0.64	0.75	0.84	1	0.00044	16	35	12	56
		2800	71	400	1.23	G	5.5	1.88	2.9	3.0	72.2	76.0	76.0	0.68	0.78	0.85	1	0.00044	16	35	12	56
		2770	71	380	1.28	G	5.5	1.90	2.6	2.7	73.1	76.0	75.2	0.73	0.82	0.87	1	0.00044	16	35	12	56
		1440	80	415	1.37	J	6.0	3.66	2.8	3.0	67.0	72.5	74.6	0.53	0.66	0.75	1	0.00236	17	37	16	44
		1430	80	400	1.36	J	6.0	3.68	2.6	2.8	69.0	73.0	75.0	0.56	0.69	0.78	1	0.00236	17	37	16	44
		1420	80	380	1.38	J	6.0	3.71	2.3	2.5	70.0	73.5	75.0	0.61	0.73	0.81	1	0.00236	17	37	16	44
0.75	0.55	935	80	415	1.70	J	4.5	5.63	2.5	2.5	58.0	64.0	66.0	0.47	0.59	0.68	1	0.00304	10	22	17	43
		930	80	400	1.62	H	4.5	5.66	2.3	2.3	60.0	65.0	67.0	0.50	0.63	0.73	1	0.00304	10	22	17	43
		920	80	380	1.60	H	4.5	5.73	2.0	2.0	62.0	65.8	68.0	0.54	0.67	0.77	1	0.00304	10	22	17	43
		700	90L	415	1.94	H	3.5	7.53	2.3	2.3	55.0	61.5	64.5	0.41	0.52	0.61	1	0.00603	21	46	22	43
		690	90L	400	1.88	G	3.5	7.63	2.1	2.1	57.0	63.0	65.0	0.45	0.56	0.65	1	0.00603	21	46	22	43
		680	90L	380	1.85	G	3.5	7.75	1.9	1.9	59.0	64.5	65.5	0.48	0.59	0.69	1	0.00603	21	46	22	43

EEx nA - Non-Sparking Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load											
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		2810	80	415	1.50	G	5.8	2.50	3.1	3.3	75.5	80.1	80.0	0.73	0.82	0.87	1	0.00076	25	55	14	59
		2790	80	400	1.55	G	5.8	2.52	2.9	3.1	76.0	80.0	79.5	0.76	0.84	0.88	1	0.00076	25	55	14	59
		2770	80	380	1.63	G	5.8	2.54	2.6	2.8	76.5	79.7	78.5	0.79	0.86	0.89	1	0.00076	25	55	14	59
		1430	80	415	1.69	H	5.5	4.91	2.6	2.8	72.0	76.0	76.2	0.59	0.71	0.81	1	0.00287	14	31	16	44
		1415	80	400	1.71	H	5.5	4.96	2.4	2.6	73.5	76.2	76.2	0.62	0.74	0.83	1	0.00287	14	31	16	44
1	0.75	1400	80	380	1.76	H	5.5	5.02	2.2	2.3	75.0	76.5	76.0	0.66	0.78	0.85	1	0.00287	14	31	16	44
		930	90S	415	1.97	H	4.8	7.55	2.3	2.3	68.5	72.4	72.4	0.50	0.64	0.73	1	0.00494	16	35	21	45
		920	90S	400	1.97	H	4.8	7.63	2.1	2.1	70.0	72.6	72.4	0.54	0.67	0.76	1	0.00494	16	35	21	45
		910	90S	380	2.02	H	4.8	7.72	1.9	1.9	71.5	72.8	71.5	0.58	0.71	0.79	1	0.00494	16	35	21	45
		710	100L	415	2.47	J	4.2	9.89	2.2	2.3	63.0	69.0	70.5	0.38	0.50	0.60	1	0.00936	30	66	28	50
		705	100L	400	2.42	H	4.2	9.96	2.0	2.1	65.0	70.0	71.0	0.42	0.54	0.63	1	0.00936	30	66	28	50
		695	100L	380	2.45	H	4.2	10.1	1.7	1.9	67.0	71.0	70.5	0.46	0.58	0.66	1	0.00936	30	66	28	50
		2825	80	415	2.28	H	6.0	3.73	3.2	3.1	76.0	79.8	79.8	0.64	0.76	0.84	1	0.00087	13	29	15	59
		2810	80	400	2.32	H	6.0	3.75	3.0	2.9	77.1	80.2	79.7	0.69	0.80	0.86	1	0.00087	13	29	15	59
		2790	80	380	2.39	G	6.0	3.78	2.7	2.6	78.2	80.4	79.3	0.74	0.84	0.88	1	0.00087	13	29	15	59
		1435	90S	415	2.58	K	6.5	7.34	3.2	3.2	74.5	79.0	80.3	0.53	0.64	0.74	1	0.00494	13	29	22	49
		1430	90S	400	2.53	J	6.5	7.37	3.0	3.0	76.0	80.0	80.6	0.57	0.69	0.78	1	0.00494	13	29	22	49
1.5	1.1	1415	90S	380	2.56	J	6.5	7.45	2.7	2.7	77.5	80.5	80.5	0.63	0.74	0.81	1	0.00494	13	29	22	49
		935	90L	415	2.83	H	4.8	11.3	2.5	2.4	70.0	75.2	75.2	0.46	0.61	0.72	1	0.00658	14	31	24	45
		925	90L	400	2.82	G	4.8	11.4	2.3	2.2	71.0	75.2	75.2	0.50	0.64	0.75	1	0.00658	14	31	24	45
		915	90L	380	2.86	G	4.8	11.5	2.1	2.0	72.0	75.5	74.8	0.55	0.69	0.78	1	0.00658	14	31	24	45
		710	100L	415	3.42	H	4.1	14.8	1.9	2.3	64.0	70.5	72.2	0.40	0.52	0.62	1	0.01266	23	51	31	50
		700	100L	400	3.38	H	4.1	15.1	1.7	2.1	66.0	71.5	72.2	0.43	0.56	0.65	1	0.01266	23	51	31	50
		690	100L	380	3.41	G	4.1	15.3	1.5	1.9	68.0	72.0	72.0	0.47	0.60	0.68	1	0.01266	23	51	31	50
		2875	90S	415	3.06	J	6.8	4.89	3.0	3.2	77.5	81.5	82.1	0.66	0.77	0.83	1	0.00198	14	31	20	64
		2865	90S	400	3.11	J	6.8	4.90	2.8	3.0	78.5	81.5	82.0	0.70	0.80	0.85	1	0.00198	14	31	20	64
		2850	90S	380	3.21	J	6.8	4.93	2.5	2.7	79.3	81.6	81.6	0.74	0.83	0.87	1	0.00198	14	31	20	64
		1430	90L	415	3.15	H	6.2	9.82	2.9	2.9	79.3	81.5	81.8	0.61	0.74	0.81	1	0.00658	12	26	24	49
		1420	90L	400	3.19	H	6.2	9.89	2.7	2.7	80.3	82.0	81.7	0.64	0.77	0.83	1	0.00658	12	26	24	49
2	1.5	1410	90L	380	3.31	H	6.2	9.96	2.5	2.5	81.2	82.2	81.0	0.68	0.80	0.85	1	0.00658	12	26	24	49
		950	100L	415	3.79	H	4.8	14.8	2.4	2.7	73.0	77.3	77.6	0.50	0.63	0.71	1	0.01097	18	40	29	44
		940	100L	400	3.78	G	4.8	14.9	2.2	2.5	74.0	77.3	77.5	0.53	0.66	0.74	1	0.01097	18	40	29	44
		930	100L	380	3.89	G	4.8	15.1	2.0	2.2	75.0	77.5	77.0	0.58	0.70	0.76	1	0.01097	18	40	29	44
		715	112M	415	4.05	H	4.6	19.7	2.7	2.9	74.5	77.0	78.1	0.46	0.58	0.66	1	0.02384	32	70	43	46
		710	112M	400	4.02	H	4.6	19.8	2.5	2.7	76.5	77.8	78.0	0.48	0.60	0.69	1	0.02384	32	70	43	46
		700	112M	380	4.19	H	4.6	20.1	2.3	2.5	77.5	78.0	77.7	0.52	0.63	0.70	1	0.02384	32	70	43	46
		2850	90L	415	4.37	H	6.6	7.39	3.0	3.2	81.5	83.6	84.3	0.64	0.76	0.83	1	0.00233	9	20	22	64
		2840	90L	400	4.48	H	6.6	7.42	2.8	3.0	82.2	83.7	83.4	0.69	0.80	0.85	1	0.00233	9	20	22	64
		2820	90L	380	4.61	H	6.6	7.47	2.6	2.8	82.8	83.6	83.3	0.75	0.84	0.87	1	0.00233	9	20	22	64
		1430	100L	415	4.55	J	6.7	14.7	2.9	3.1	80.5	82.3	83.0	0.61	0.75	0.81	1	0.00822	14	31	30	53
		1420	100L	400	4.61	J	6.7	14.8	2.7	2.9	81.0	82.3	83.0	0.65	0.78	0.83	1	0.00822	14	31	30	53
3	2.2	1410	100L	380	4.81	H	6.7	14.9	2.5	2.7	81.5	82.0	81.7	0.69	0.81	0.85	1	0.00822	14	31	30	53
		950	112M	415	5.28	H	5.0	22.2	2.4	2.5	76.0	80.3	80.5	0.50	0.63	0.72	1	0.01651	14	31	37	48
		940	112M	400	5.36	G	5.0	22.4	2.2	2.3	77.5	80.5	80.1	0.53	0.66	0.74	1	0.01651	14	31	37	48
		930	112M	380	5.52	G	5.0	22.7	2.0	2.1	79.0	80.8	79.7	0.58	0.70	0.76	1	0.01651	14	31	37	48
		720	132S	415	5.22	J	6.2	29.3	2.6	2.9	77.5	81.2	82.6	0.50	0.62	0.71	1	0.07378	23	51	70	48
		715	132S	400	5.27	J	6.2	29.5	2.4	2.7	78.5	81.5	82.5	0.53	0.65	0.73	1	0.07378	23	51	70	48
		710	132S	380	5.43	J	6.2	29.7	2.2	2.5	79.5	81.8	82.1	0.56	0.68	0.75	1	0.07378	23	51	70	48
		2890	100L	415	5.60	J	7.2	9.7	2.8	3.0	82.8	85.6	85.6	0.74	0.84	0.87	1	0.00593	9	20	31	67
		2880	100L	400	5.75	J	7.2	9.8	2.6	2.8	83.2	85.7	85.6	0.77	0.85	0.88	1	0.00593	9	20	31	67
		2870	100L	380	6.02	J	7.2	9.8	2.4	2.6	83.5	85.6	85.1	0.80	0.86	0.89	1	0.00593	9	20	31	67
		1420	100L	415	5.85	H	6.5	19.8	2.9	2.9	83.2	85.1	84.9	0.65	0.77	0.84	1	0.00972	10	22	33	53
		1410	100L	400	5.94	H	6.5	19.9	2.7	2.7	83.6	85.0	84.7	0.68	0.79	0.86	1	0.00972	10	22	33	53
4	3	1400	100L	380	6.22	H	6.5	20.1	2.5	2.5	84.0	84.9	84.2	0.72	0.82	0.87	1	0.00972	10	22	33	53
		965	132S	415	6.83	H	5.3	29.1	2.2	2.4	79.0	82.5	82.6	0.53	0.66	0.74	1	0.03397	20	44	55	52
		960	132S	400	6.82	G	5.3	29.3	2.0	2.2	80.0	82.7	82.5	0.58	0.70	0.77	1	0.03397	20	44	55	52
		955	132S	380	7.04	G	5.3	29.4	1.8	2.0	81.0	83.0	82.0	0.61	0.72	0.79	1	0.03397	20	44	55	52
		715	132M	415	7.14	J	5.8	39.3	2.6	2.9	76.5	82.4	83.5	0.50	0.62	0.70	1	0.08362	22	48	75	48
		710	132M	400	7.20	J	5.8	39.6	2.4	2.7	78.0	82.7	83.5	0.52	0.64	0.72	1	0.08362	22	48	75	48
		705	132M	380	7.42	H	5.8	39.9	2.1	2.4	79.5	83.0	83.0	0.54	0.66	0.74	1	0.08362	22	48	75	48

EEx nA - Non-Sparking Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

Rated Output		Full Load Speed	IEC Frame	Voltage	Full Load Current	Locked Rotor Current (A)		Full Load Torque	Locked Rotor Torque	Break Down Torque	Efficiency % of full load			Power Factor Cos % of full load			Service Factor	Moment of Inertia	Allowable Locked Rotor Time (s)		Approx. Weight	Sound
HP	kW	(RPM)			I_n(A)	(kVA Code)	(I_i/I_n)	T_n(lb.ft)	(T_i/T_n)	(T_b/T_n)	50	75	100	50	75	100	SF	WK²(lb.ft²)	Hot	Cold	(lb)	dB(A)
		2900	112M	415	7.25	J	7.6	13.3	2.9	3.3	84.5	87.4	88.2	0.72	0.82	0.87	1	0.00809	15	33	43	64
		2890	112M	400	7.50	J	7.6	13.4	2.7	3.1	85.0	87.5	87.5	0.76	0.84	0.88	1	0.00809	15	33	43	64
		2880	112M	380	7.83	J	7.6	13.4	2.5	2.9	85.5	87.5	87.2	0.80	0.86	0.89	1	0.00809	15	33	43	64
		1440	112M	415	7.64	J	7.5	26.8	2.9	3.0	85.2	87.2	86.7	0.67	0.78	0.84	1	0.01817	12	26	47	56
		1430	112M	400	7.62	J	7.5	27.0	2.7	2.8	86.0	87.4	87.1	0.70	0.81	0.87	1	0.01817	12	26	47	56
5.5	4	1420	112M	380	7.88	H	7.5	27.2	2.5	2.6	86.5	87.5	86.7	0.74	0.84	0.89	1	0.01817	12	26	47	56
		965	132M	415	8.64	H	6.0	40.0	2.3	2.5	82.6	85.3	85.9	0.56	0.67	0.75	1	0.04907	18	40	65	52
		960	132M	400	8.74	H	6.0	40.2	2.1	2.3	83.6	85.5	85.8	0.59	0.70	0.77	1	0.04907	18	40	65	52
		955	132M	380	9.01	H	6.0	40.5	1.9	2.1	84.5	85.7	85.4	0.61	0.72	0.79	1	0.04907	18	40	65	52
		730	160M	400	9.73	H	5.2	52.9	2.2	2.7	81.3	84.3	86.0	0.47	0.60	0.69	1	0.11905	33	73	105	51
		730	160M	415	9.80	H	5.2	52.9	2.4	2.9	80.0	83.7	86.0	0.44	0.57	0.66	1	0.11905	33	73	105	51
		725	160M	380	9.83	G	5.2	53.3	2.0	2.5	82.6	84.8	85.9	0.51	0.64	0.72	1	0.11905	33	73	105	51
		2940	132S	415	10.2	J	8.0	17.9	2.9	3.4	83.5	86.8	88.2	0.69	0.80	0.85	1	0.01979	18	40	61	68
		2935	132S	400	10.3	J	8.0	18.0	2.7	3.2	84.0	87.1	88.3	0.73	0.82	0.87	1	0.01979	18	40	61	68
		2930	132S	380	10.6	J	8.0	18.0	2.5	2.9	84.5	87.5	88.2	0.77	0.85	0.89	1	0.01979	18	40	61	68
		1470	132S	415	10.4	J	8.0	35.8	2.6	3.2	84.2	87.0	88.4	0.64	0.75	0.83	1	0.04541	11	24	62	60
		1465	132S	400	10.6	J	8.0	36.0	2.4	3.0	85.4	87.7	88.5	0.68	0.79	0.85	1	0.04541	11	24	62	60
7.5	5.5	1460	132S	380	10.9	J	8.0	36.1	2.2	2.7	86.7	88.3	88.3	0.73	0.82	0.87	1	0.04541	11	24	62	60
		965	132M	415	12.5	J	6.4	54.6	2.5	2.6	83.0	85.5	86.0	0.50	0.62	0.71	1	0.06039	14	31	74	52
		960	132M	400	12.5	J	6.4	54.9	2.3	2.4	84.0	85.8	85.8	0.54	0.66	0.74	1	0.06039	14	31	74	52
		955	132M	380	12.7	J	6.4	55.2	2.1	2.2	85.0	86.1	85.6	0.58	0.70	0.77	1	0.06039	14	31	74	52
		730	160M	400	13.5	H	5.2	72.2	2.3	2.7	81.5	84.1	85.2	0.46	0.59	0.69	1	0.14006	23	51	114	51
		730	160M	415	13.6	H	5.2	72.2	2.5	2.9	80.5	83.5	85.0	0.42	0.55	0.66	1	0.14006	23	51	114	51
		725	160M	380	13.6	G	5.2	72.7	2.1	2.5	82.5	84.7	85.2	0.50	0.63	0.72	1	0.14006	23	51	114	51
		2930	132S	415	13.4	H	7.3	24.0	2.7	3.1	86.0	88.8	89.3	0.73	0.83	0.87	1	0.02338	10	22	67	68
		2925	132S	400	13.6	H	7.3	24.0	2.5	2.9	86.5	88.9	89.2	0.77	0.86	0.89	1	0.02338	10	22	67	68
		2915	132S	380	14.3	H	7.3	24.1	2.3	2.6	87.0	89.0	88.8	0.81	0.87	0.90	1	0.02338	10	22	67	68
		1470	132M	415	14.2	K	8.0	47.8	2.7	3.0	85.6	88.0	88.6	0.65	0.77	0.83	1	0.05298	8	18	65	60
		1465	132M	380	14.6	J	8.0	48.0	2.3	2.6	87.0	88.6	88.4	0.75	0.84	0.88	1	0.05298	8	18	65	60
10	7.5	1465	132M	400	14.2	J	8.0	48.0	2.5	2.8	86.4	88.4	88.6	0.70	0.80	0.86	1	0.05298	8	18	65	60
		970	160M	400	15.2	H	6.1	72.4	2.3	2.6	87.0	88.2	88.0	0.62	0.74	0.81	1	0.11905	17	37	108	56
		970	160M	415	15.0	H	6.1	72.4	2.5	2.8	86.5	88.0	88.0	0.58	0.71	0.79	1	0.11905	17	37	108	56
		965	160M	380	15.7	H	6.1	72.8	2.0	2.4	87.5	88.4	87.5	0.66	0.78	0.83	1	0.11905	17	37	108	56
		730	160L	415	17.4	G	4.9	96.2	2.2	2.7	82.5	85.5	85.5	0.48	0.60	0.70	1	0.16107	15	33	127	51
		725	160L	400	17.6	G	4.9	96.9	2.0	2.5	83.5	85.7	85.5	0.51	0.63	0.72	1	0.16107	15	33	127	51
		720	160L	380	18.1	G	4.9	97.6	1.8	2.3	84.5	86.0	85.3	0.54	0.66	0.74	1	0.16107	15	33	127	51
		2950	160M	415	19.5	J	8.3	35.7	2.8	3.3	87.3	90.0	90.4	0.74	0.83	0.87	1	0.04521	12	26	110	70
		2945	160M	400	20.0	J	8.3	35.8	2.6	3.1	87.8	90.1	90.3	0.77	0.85	0.88	1	0.04521	12	26	110	70
		2940	160M	380	20.8	J	8.3	35.8	2.4	2.8	88.3	90.1	90.2	0.80	0.86	0.89	1	0.04521	12	26	110	70
		1460	160M	415	20.8	G	6.0	72.2	2.5	2.7	86.8	89.0	89.8	0.65	0.76	0.82	1	0.07791	16	35	108	67
		1455	160M	400	21.0	G	6.0	72.4	2.3	2.5	87.6	89.4	89.9	0.70	0.79	0.84	1	0.07791	16	35	108	67
15	11	1450	160M	380	22.0	G	6.0	72.7	2.1	2.3	88.3	89.6	89.2	0.74	0.82	0.85	1	0.07791	16	35	108	67
		975	160L	415	21.7	H	6.6	108	2.6	3.1	86.5	88.0	88.3	0.58	0.72	0.80	1	0.17158	13	29	134	56
		970	160L	380	22.6	H	6.6	109	2.2	2.6	88.0	88.5	88.0	0.67	0.78	0.84	1	0.17158	13	29	134	56
		970	160L	400	21.9	H	6.6	109	2.4	2.9	87.2	88.3	88.3	0.62	0.75	0.82	1	0.17158	13	29	134	56
		730	180L	415	20.8	H	6.8	144	2.5	2.7	86.5	88.6	88.5	0.65	0.77	0.83	1	0.27154	11	24	168	51
		725	180L	400	21.4	H	6.8	145	2.3	2.5	87.0	88.5	88.3	0.68	0.79	0.84	1	0.27154	11	24	168	51
		720	180L	380	22.4	H	6.8	146	2.0	2.2	87.5	88.3	87.8	0.71	0.81	0.85	1	0.27154	11	24	168	51
		2950	160M	415	26.3	J	7.8	47.6	2.7	3.4	89.1	91.0	91.2	0.72	0.81	0.87	1	0.05087	10	22	117	70
		2945	160M	400	27.0	J	7.8	47.7	2.5	3.2	89.6	91.1	91.2	0.76	0.84	0.88	1	0.05087	10	22	117	70
		2935	160M	380	28.1	J	7.8	47.9	2.2	2.9	90.1	91.2	91.0	0.81	0.87	0.89	1	0.05087	10	22	117	70
		1460	160L	415	27.8	G	6.0	96.2	2.5	2.6	88.4	90.3	90.6	0.67	0.78	0.83	1	0.10201	13	29	127	67
		1455	160L	400	28.4	G	6.0	96.6	2.3	2.4	89.0	90.4	90.6	0.69	0.79	0.84	1	0.10201	13	29	127	67
20	15	1450	160L	380	29.4	G	6.0	96.9	2.1	2.2	89.5	90.5	90.1	0.73	0.82	0.86	1	0.10201	13	29	127	67
		970	180L	415	25.6	H	7.5	145	2.7	2.8	89.0	90.5	90.5	0.78	0.87	0.90	1	0.29869	9	20	176	56
		965	180L	400	26.5	H	7.5	146	2.5	2.6	89.1	90.1	89.8	0.80	0.88	0.91	1	0.29869	9	20	176	56
		960	180L	380	28.0	H	7.5	146	2.3	2.4	89.0	90.0	89.5	0.82	0.89	0.91	1	0.29869	9	20	176	56
		730	200L	400	32.4	F	4.6	192	2.0	2.1	86.5	88.6	89.0	0.56	0.68	0.75	1	0.36923	23	51	225	53
		730	200L	415	32.6	F	4.6	192	2.2	2.3	85.5	88.3	88.9	0.50	0.64	0.72	1	0.36923	23	51	225	53
		725	200L	380	33.3	F	4.6	194	1.8	1.9	87.5	88.9	88.9	0.61	0.72	0.77	1	0.36923	23	51	225	53

EEx nA - Non-Sparking Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load											
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		2950	160L	415	32.5	J	8.2	59.5	2.8	3.5	90.1	91.8	92.0	0.73	0.83	0.86	1	0.06217	10	22	132	70
		2945	160L	400	33.1	J	8.2	59.6	2.6	3.3	90.4	91.9	91.7	0.75	0.84	0.88	1	0.06217	10	22	132	70
		2940	160L	380	34.5	J	8.2	59.7	2.3	3.0	90.7	92.0	91.5	0.78	0.86	0.89	1	0.06217	10	22	132	70
		1470	180M	400	34.5	H	7.0	119	2.7	2.8	89.8	91.5	92.1	0.68	0.79	0.84	1	0.17403	18	40	183	64
		1470	180M	415	34.1	H	7.0	119	2.9	3.0	89.3	91.3	92.1	0.65	0.76	0.82	1	0.17403	18	40	183	64
25	18.5	1465	180M	380	36.1	H	7.0	120	2.5	2.6	90.3	91.7	91.7	0.72	0.81	0.85	1	0.17403	18	40	183	64
		980	200L	415	33.9	G	6.0	179	2.3	2.5	89.3	90.5	90.5	0.72	0.80	0.84	1	0.36856	15	33	226	58
		975	200L	400	34.4	G	6.0	180	2.1	2.3	89.7	90.7	90.2	0.74	0.82	0.86	1	0.36856	15	33	226	58
		970	200L	380	36.0	G	6.0	181	1.9	2.1	90.0	90.5	89.8	0.76	0.84	0.87	1	0.36856	15	33	226	58
		735	225S/M	415	34.0	H	6.9	239	2.3	3.0	88.2	90.3	90.2	0.68	0.78	0.84	1	0.83279	17	37	341	60
		730	225S/M	380	36.4	H	6.9	241	1.9	2.5	88.8	90.0	89.8	0.75	0.83	0.86	1	0.83279	17	37	341	60
		730	225S/M	400	34.9	H	6.9	241	2.1	2.8	88.5	90.1	90.0	0.72	0.80	0.85	1	0.83279	17	37	341	60
		2955	180M	415	38.2	J	8.2	71.3	3.0	3.3	90.0	91.9	92.1	0.75	0.84	0.87	1	0.10944	13	29	188	70
		2950	180M	400	38.7	J	8.2	71.4	2.8	3.1	90.5	92.0	92.1	0.78	0.86	0.89	1	0.10944	13	29	188	70
		2945	180M	380	40.4	J	8.2	71.6	2.6	2.8	91.0	92.1	92.0	0.82	0.88	0.90	1	0.10944	13	29	188	70
		1475	180L	415	40.8	J	7.5	143	3.0	3.0	90.5	92.0	92.5	0.63	0.75	0.81	1	0.20883	14	31	190	64
		1470	180L	400	41.4	J	7.5	143	2.8	2.8	91.0	92.2	92.4	0.67	0.78	0.83	1	0.20883	14	31	190	64
		1465	180L	380	42.6	H	7.5	144	2.5	2.5	91.5	92.4	92.3	0.72	0.81	0.85	1	0.20883	14	31	190	64
30	22	980	200L	415	40.9	G	6.0	215	2.5	2.6	88.4	90.7	91.3	0.66	0.76	0.82	1	0.40366	14	31	239	58
		975	200L	400	41.4	G	6.0	216	2.3	2.4	89.0	90.9	91.3	0.70	0.79	0.84	1	0.40366	14	31	239	58
		970	200L	380	43.1	G	6.0	217	2.1	2.2	89.6	91.0	91.2	0.74	0.82	0.85	1	0.40366	14	31	239	58
		735	225S/M	415	40.0	J	7.5	287	2.4	2.9	88.6	91.0	91.2	0.71	0.80	0.84	1	0.97159	19	42	365	60
		730	225S/M	400	41.1	J	7.5	289	2.2	2.7	89.0	91.0	91.0	0.73	0.82	0.85	1	0.97159	19	42	365	60
		730	225S/M	380	42.9	H	7.5	289	2.0	2.4	89.4	90.9	90.5	0.76	0.84	0.86	1	0.97159	19	42	365	60
		2970	200L	415	52.4	H	7.5	94.6	3.0	3.0	89.5	91.8	92.7	0.72	0.82	0.86	1	0.19581	19	42	245	74
		2965	200L	400	53.7	H	7.5	94.8	2.8	2.8	90.0	92.0	92.7	0.76	0.84	0.87	1	0.19581	19	42	245	74
		2960	200L	380	55.9	H	7.5	94.9	2.6	2.6	90.5	92.1	92.6	0.79	0.86	0.88	1	0.19581	19	42	245	74
		1480	200L	415	53.3	G	6.5	190	2.4	2.7	91.5	93.0	93.2	0.72	0.80	0.84	1	0.32017	17	37	248	69
		1475	200L	400	54.8	G	6.5	190	2.2	2.5	91.8	93.0	93.0	0.75	0.82	0.85	1	0.32017	17	37	248	69
		1470	200L	380	57.2	G	6.5	191	2.0	2.2	92.2	93.0	92.6	0.78	0.84	0.86	1	0.32017	17	37	248	69
40	30	985	225S/M	400	54.2	H	7.2	285	2.6	2.7	90.5	91.8	91.8	0.77	0.84	0.87	1	0.92533	20	44	366	61
		985	225S/M	415	52.6	H	7.2	285	2.8	2.9	90.0	91.8	92.2	0.73	0.81	0.86	1	0.92533	20	44	366	61
		980	225S/M	380	56.5	H	7.2	287	2.4	2.5	91.0	91.8	91.6	0.80	0.86	0.88	1	0.92533	20	44	366	61
		735	250S/M	415	54.8	J	7.9	382	2.5	3.1	89.0	91.1	91.8	0.66	0.77	0.83	1	1.15666	17	37	440	60
		730	250S/M	400	56.3	J	7.9	385	2.3	2.9	89.5	91.2	91.6	0.70	0.79	0.84	1	1.15666	17	37	440	60
		730	250S/M	380	58.7	J	7.9	385	2.0	2.6	90.0	91.3	91.3	0.73	0.81	0.85	1	1.15666	17	37	440	60
		2965	200L	415	64.4	H	7.6	118	3.1	3.1	90.8	92.6	93.0	0.70	0.81	0.86	1	0.21144	19	42	262	74
		2965	200L	400	65.3	H	7.6	118	2.9	2.9	91.3	92.8	93.0	0.75	0.84	0.88	1	0.21144	19	42	262	74
		2960	200L	380	67.9	H	7.6	119	2.6	2.7	91.7	93.0	93.0	0.80	0.87	0.89	1	0.21144	19	42	262	74
		1480	225S/M	415	63.7	H	7.2	237	2.5	2.9	90.8	92.1	92.9	0.72	0.83	0.87	1	0.61073	20	44	353	70
		1480	225S/M	400	65.4	H	7.2	237	2.3	2.7	91.2	92.2	92.8	0.76	0.85	0.88	1	0.61073	20	44	353	70
		1475	225S/M	380	68.3	H	7.2	238	2.1	2.4	91.6	92.4	92.5	0.79	0.86	0.89	1	0.61073	20	44	353	70
50	37	985	250S/M	415	64.6	H	7.5	357	2.9	2.8	89.5	92.4	92.6	0.73	0.82	0.86	1	1.15666	18	40	434	61
		980	250S/M	380	69.1	H	7.5	358	2.5	2.4	90.5	92.5	92.4	0.80	0.86	0.88	1	1.15666	18	40	434	61
		980	250S/M	400	66.4	H	7.5	358	2.7	2.6	90.2	92.4	92.5	0.77	0.85	0.87	1	1.15666	18	40	434	61
		740	280S/M	415	70.5	H	6.5	475	2.1	2.5	90.0	92.2	92.4	0.64	0.75	0.79	1	2.25651	29	64	590	62
		740	280S/M	400	71.4	H	6.5	475	1.9	2.3	90.5	92.2	92.3	0.67	0.77	0.81	1	2.25651	29	64	590	62
		735	280S/M	380	74.4	H	6.5	478	1.7	2.1	91.0	92.2	92.1	0.70	0.79	0.82	1	2.25651	29	64	590	62
		2970	225S/M	415	74.9	H	7.9	142	2.8	3.7	91.5	93.3	93.9	0.83	0.87	0.89	1	0.42763	24	53	407	82
		2965	225S/M	400	77.1	H	7.9	142	2.6	3.5	91.6	93.3	93.6	0.84	0.88	0.90	1	0.42763	24	53	407	82
		2960	225S/M	380	80.4	H	7.9	142	2.4	3.2	91.9	93.4	93.5	0.85	0.89	0.91	1	0.42763	24	53	407	82
		1480	225S/M	415	77.0	H	7.0	285	2.5	2.9	91.0	92.9	93.5	0.72	0.83	0.87	1	0.74644	16	35	382	70
		1475	225S/M	400	78.9	H	7.0	286	2.3	2.7	91.0	92.9	93.5	0.76	0.85	0.88	1	0.74644	16	35	382	70
		1475	225S/M	380	82.2	H	7.0	286	2.1	2.5	91.3	92.8	93.5	0.80	0.87	0.89	1	0.74644	16	35	382	70
60	45	990	280S/M	415	82.4	H	6.8	426	2.6	2.8	90.0	92.3	92.7	0.64	0.76	0.82	1	2.24616	24	53	606	66
		985	280S/M	400	84.5	H	6.8	428	2.4	2.6	90.5	92.3	92.6	0.68	0.78	0.83	1	2.24616	24	53	606	66
		985	280S/M	380	86.9	H	6.8	428	2.2	2.4	91.0	92.3	92.6	0.72	0.81	0.85	1	2.24616	24	53	606	66
		740	280S/M	400	88.0	H	6.5	570	2.0	2.4	90.5	92.1	92.3	0.65	0.75	0.80	1	2.59499	26	57	643	62
		740	280S/M	415	87.0	H	6.5	570	2.2	2.6	90.0	92.0	92.3	0.60	0.72	0.78	1	2.59499	26	57	643	62
		735	280S/M	380	90.6	H	6.5	573	1.8	2.2	91.0	92.2	92.0	0.70	0.77	0.82	1	2.59499	26	57	643	62

EEx nA - Non-Sparking Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

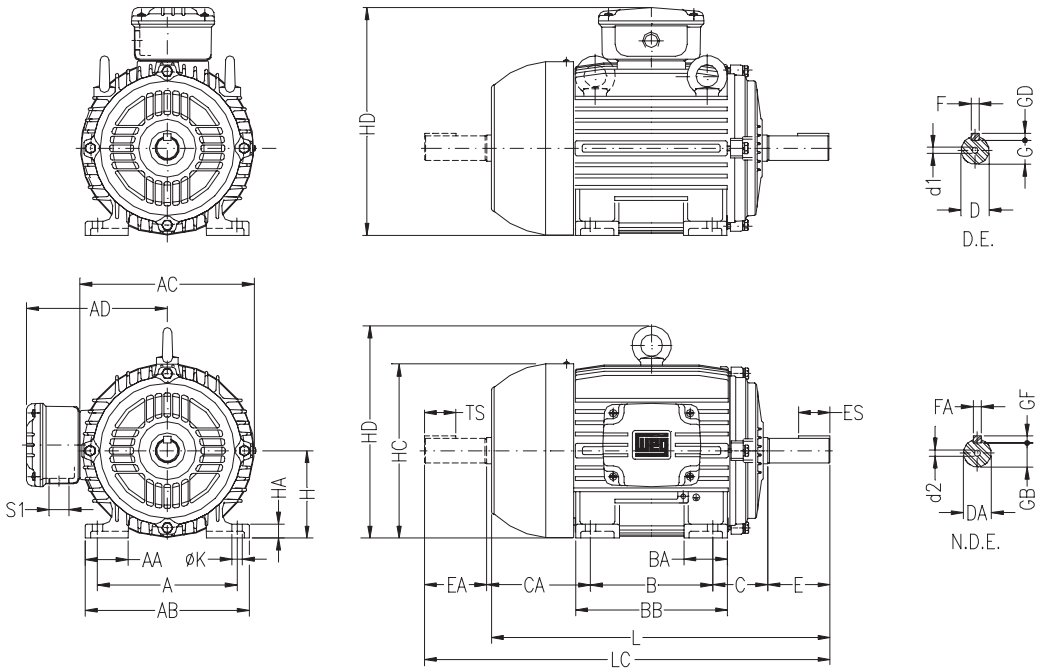
Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load											
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		2970	250S/M	415	89.5	J	8.5	177	3.0	3.2	91.6	93.5	94.0	0.82	0.88	0.91	1	0.47895	15	33	490	82
		2965	250S/M	380	97.1	J	8.5	178	2.6	2.7	91.8	93.2	93.5	0.86	0.91	0.92	1	0.47895	15	33	490	82
		2965	250S/M	400	93.0	J	8.5	178	2.8	3.0	91.8	93.5	93.8	0.84	0.89	0.91	1	0.47895	15	33	490	82
		1480	250S/M	415	91.9	G	7.0	356	2.5	2.8	92.5	93.4	93.6	0.77	0.85	0.89	1	0.94707	16	35	451	70
		1475	250S/M	400	95.2	G	7.0	357	2.3	2.6	93.0	93.5	93.7	0.78	0.86	0.89	1	0.94707	16	35	451	70
		1475	250S/M	380	98.3	G	7.0	357	2.1	2.4	92.8	93.5	93.4	0.83	0.88	0.91	1	0.94707	16	35	451	70
75	55	990	280S/M	415	97.3	G	6.5	532	2.5	2.7	91.2	93.2	93.6	0.68	0.80	0.84	1	2.58309	23	51	657	66
		985	280S/M	380	103	G	6.5	535	2.1	2.3	92.0	93.2	93.4	0.74	0.84	0.87	1	2.58309	23	51	657	66
		985	280S/M	400	100	G	6.5	535	2.3	2.5	91.6	93.2	93.5	0.71	0.82	0.85	1	2.58309	23	51	657	66
		740	315S/M	415	103	H	6.5	712	2.1	2.4	90.7	93.0	93.0	0.65	0.76	0.80	1	3.04629	27	59	745	62
		740	315S/M	400	104	G	6.5	712	1.9	2.2	91.2	93.1	93.0	0.69	0.78	0.82	1	3.04629	27	59	745	62
		735	315S/M	380	108	G	6.5	717	1.7	2.0	91.6	93.2	92.8	0.72	0.80	0.83	1	3.04629	27	59	745	62
		2980	280S/M	415	126	H	7.5	236	2.6	3.0	91.0	93.6	94.2	0.78	0.85	0.88	1	1.11089	44	97	655	83
		2975	280S/M	400	129	H	7.5	236	2.4	2.8	91.4	93.6	94.2	0.81	0.87	0.89	1	1.11089	44	97	655	83
		2970	280S/M	380	134	H	7.5	237	2.2	2.6	91.9	93.6	94.3	0.84	0.88	0.90	1	1.11089	44	97	655	83
		1485	280S/M	415	127	G	6.7	473	2.3	2.6	92.2	93.8	94.3	0.80	0.85	0.87	1	2.11430	44	97	735	76
		1485	280S/M	400	130	G	6.7	473	2.1	2.4	92.4	93.8	94.3	0.81	0.86	0.88	1	2.11430	44	97	735	76
100	75	1480	280S/M	380	137	G	6.7	475	1.9	2.2	92.8	93.9	94.2	0.83	0.87	0.88	1	2.11430	44	97	735	76
		990	315S/M	415	132	H	6.7	709	2.5	2.7	91.2	93.5	93.8	0.69	0.80	0.84	1	3.36925	20	44	775	69
		985	315S/M	380	142	G	6.7	713	2.1	2.3	92.0	93.5	93.5	0.74	0.82	0.86	1	3.36925	20	44	775	69
		985	315S/M	400	136	H	6.7	713	2.3	2.5	91.6	93.5	93.7	0.71	0.81	0.85	1	3.36925	20	44	775	69
		740	315S/M	400	141	H	6.6	949	1.9	2.2	92.0	93.4	93.5	0.67	0.79	0.82	1	4.28737	20	44	876	62
		740	315S/M	415	138	H	6.6	949	2.1	2.4	91.6	93.4	93.4	0.64	0.78	0.81	1	4.28737	20	44	876	62
		735	315S/M	380	147	H	6.6	956	1.7	2.0	92.4	93.3	93.3	0.70	0.80	0.83	1	4.28737	20	44	876	62
		2975	280S/M	415	149	H	8.1	295	2.5	3.0	91.5	94.1	94.5	0.77	0.86	0.89	1	1.18247	35	77	717	83
		2975	280S/M	400	153	H	8.1	295	2.3	2.8	92.0	94.1	94.5	0.79	0.87	0.90	1	1.18247	35	77	717	83
		2970	280S/M	380	161	H	8.1	296	2.1	2.6	92.3	93.9	94.5	0.82	0.88	0.90	1	1.18247	35	77	717	83
		1485	280S/M	400	157	G	7.1	591	2.4	2.5	92.3	93.9	94.2	0.80	0.86	0.88	1	2.34332	31	68	737	76
		1485	280S/M	415	151	G	7.1	591	2.6	2.7	92.0	93.9	94.2	0.78	0.85	0.88	1	2.34332	31	68	737	76
125	90	1480	280S/M	380	163	G	7.1	593	2.2	2.3	92.6	94.1	94.2	0.82	0.87	0.89	1	2.34332	31	68	737	76
		990	315S/M	415	159	G	6.3	887	2.3	2.5	92.2	93.9	93.9	0.69	0.79	0.84	1	3.56503	18	40	818	69
		985	315S/M	400	163	G	6.3	891	2.1	2.3	92.5	94.0	93.9	0.71	0.81	0.85	1	3.56503	18	40	818	69
		985	315S/M	380	170	G	6.3	891	1.9	2.1	92.8	93.9	93.6	0.74	0.83	0.86	1	3.56503	18	40	818	69
		740	315S/M	415	164	H	6.8	1186	2.3	2.6	92.1	93.7	94.2	0.67	0.75	0.81	1	5.52845	23	51	970	62
		740	315S/M	400	166	G	6.8	1186	2.1	2.4	92.5	93.8	94.2	0.70	0.78	0.83	1	5.52845	23	51	970	62
		735	315S/M	380	173	G	6.8	1195	1.9	2.1	92.9	93.9	94.0	0.73	0.81	0.84	1	5.52845	23	51	970	62
		2975	315S/M	415	183	H	7.6	354	2.4	3.0	92.2	94.4	94.8	0.75	0.83	0.88	1	1.31385	40	88	809	84
		2975	315S/M	400	188	H	7.6	354	2.3	2.8	93.0	94.4	94.9	0.79	0.85	0.89	1	1.31385	40	88	809	84
		2970	315S/M	380	196	H	7.6	355	2.1	2.6	93.1	94.4	94.9	0.81	0.87	0.90	1	1.31385	40	88	809	84
		1485	315S/M	400	191	G	7.1	709	2.3	2.6	92.8	94.4	94.4	0.78	0.85	0.88	1	2.70645	27	59	866	77
		1485	315S/M	415	186	H	7.1	709	2.5	2.8	92.8	94.4	94.5	0.76	0.83	0.87	1	2.70645	27	59	866	77
150	110	1480	315S/M	380	202	G	7.1	712	2.1	2.4	92.8	93.6	94.2	0.80	0.86	0.88	1	2.70645	27	59	866	77
		985	315S/M	415	195	G	6.4	1070	2.5	2.6	93.2	94.5	94.6	0.69	0.79	0.83	1	5.14247	18	40	990	69
		985	315S/M	380	208	G	6.4	1070	2.1	2.2	93.6	94.3	94.3	0.74	0.82	0.85	1	5.14247	18	40	990	69
		985	315S/M	400	200	G	6.4	1070	2.3	2.4	93.4	94.4	94.5	0.71	0.80	0.84	1	5.14247	18	40	990	69
		745	355M/L	415	208	H	6.4	1414	1.7	2.4	92.0	94.1	94.5	0.60	0.71	0.78	1	12.2070	41	90	1390	70
		740	355M/L	380	216	G	6.4	1424	1.3	2.0	93.0	94.2	94.5	0.66	0.77	0.82	1	12.2070	41	90	1390	70
		740	355M/L	400	210	G	6.4	1424	1.5	2.2	92.5	94.1	94.5	0.63	0.74	0.80	1	12.2070	41	90	1390	70
		2970	315S/M	415	214	H	7.5	414	2.5	3.0	93.0	94.8	95.2	0.80	0.87	0.90	1	1.53283	31	68	937	84
		2970	315S/M	400	223	H	7.5	414	2.3	2.8	93.2	94.8	95.0	0.82	0.88	0.90	1	1.53283	31	68	937	84
		2965	315S/M	380	232	H	7.5	415	2.1	2.6	93.5	94.7	94.8	0.84	0.89	0.91	1	1.53283	31	68	937	84
		1485	315S/M	415	222	H	7.3	828	2.7	2.8	93.3	94.7	95.1	0.76	0.84	0.87	1	3.63437	31	68	1010	77
		1485	315S/M	400	228	H	7.3	828	2.5	2.6	93.3	94.7	95.1	0.78	0.85	0.88	1	3.63437	31	68	1010	77
		1480	315S/M	380	237	H	7.3	831	2.3	2.4	93.5	94.9	95.1	0.81	0.86	0.89	1	3.63437	31	68	1010	77
		995	355M/L	415	252	H	6.1	1235	2.2	2.5	92.0	94.7	94.7	0.60	0.70	0.77	1	7.88770	90	198	1385	73
175	132	990	355M/L	380	259	G	6.1	1242	1.8	2.1	93.0	94.7	94.5	0.70	0.80	0.82	1	7.88770	90	198	1385	73
		990	355M/L	400	251	G	6.1	1242	2.0	2.3	92.5	94.7	94.7	0.65	0.75	0.80	1	7.88770	90	198	1385	73
		745	315B	415	253	J	6.9	1650	2.1	2.8	93.4	94.2	94.4	0.59	0.71	0.77	1	7.76500	20	44	1399	62
		745	355M/L	415	252	H	6.5	1650	1.8	2.4	92.5	94.4	94.8	0.60	0.71	0.77	1	12.8173	47	103	1445	70
		740	315B	400	255	H	6.9	1661	1.9	2.6	94.0	94.5	94.4	0.63	0.74	0.79	1	7.76500	20	44	1399	62
		740	315B	380	263	H	6.9	1661	1.7	2.3	94.6	94.8	94.3	0.68	0.77	0.81	1	7.76500	20	44	1399	62
		740	355M/L	400	254	H	6.5	1661	1.6	2.2	93.0	94.5	94.8	0.63	0.73	0.79	1	12.8173	47	103	1445	70
		740	355M/L	380	261	H	6.5	1661	1.4	2.0	93.5	94.6	94.8	0.66	0.75	0.81	1	12.8173	47	103	1445	70

EEx nA - Non-Sparking Metric Motors - Three Phase
Electrical Data

IE2 - Standard Efficiency - 50Hz

Rated Output		Full Load Speed	IEC Frame	Voltage	Full Load Current	Locked Rotor Current (A)		Full Load Torque	Locked Rotor Torque	Break Down Torque	Efficiency			Power Factor Cos			Service Factor	Moment of Inertia	Allowable Locked Rotor Time (s)		Approx. Weight	Sound
											% of full load											
HP	kW	(RPM)			I_n(A)	(kVA Code)	(I_l/I_n)	T_n(lb.ft)	(T_l/T_n)	(T_b/T_n)	50	75	100	50	75	100	SF	WK^2(lb.ft^2)	Hot	Cold	(lb)	dB(A)
		2975	315S/M	415	262	G	7.3	519	2.4	2.7	94.0	95.0	95.4	0.83	0.88	0.89	1	1.97078	25	55	1010	84
		2970	315S/M	380	280	G	7.3	520	2.0	2.3	94.2	95.0	95.3	0.86	0.90	0.91	1	1.97078	25	55	1010	84
		2970	315S/M	400	269	G	7.3	520	2.2	2.5	94.1	95.0	95.4	0.85	0.89	0.90	1	1.97078	25	55	1010	84
		1485	315S/M	415	271	G	7.0	1041	2.6	2.8	94.2	95.1	95.5	0.73	0.82	0.86	1	3.63437	22	48	1010	77
		1480	315S/M	400	278	G	7.0	1044	2.4	2.7	93.3	95.1	95.5	0.75	0.83	0.87	1	3.63437	22	48	1010	77
		1480	315S/M	380	290	G	7.0	1044	2.2	2.5	93.0	95.0	95.4	0.78	0.85	0.88	1	3.63437	22	48	1010	77
		990	355M/L	380	304	G	6.2	1561	1.7	1.9	93.5	95.2	95.2	0.73	0.80	0.84	1	9.93742	72	158	1485	73
		990	355M/L	415	292	G	6.2	1561	2.1	2.3	92.5	94.9	95.4	0.63	0.74	0.80	1	9.93742	72	158	1485	73
		990	355M/L	400	295	G	6.2	1561	1.9	2.1	93.0	95.0	95.3	0.67	0.77	0.82	1	9.93742	72	158	1485	73
220	160	990	315B	415	293	H	7.0	1561	2.1	2.7	93.0	94.9	94.9	0.64	0.75	0.80	1	7.10000	25	55	1350	69
		990	315B	400	297	H	7.0	1561	1.9	2.5	93.5	94.9	94.9	0.68	0.78	0.82	1	7.10000	25	55	1350	69
		990	315B	380	306	H	7.0	1561	1.7	2.2	94.0	94.9	94.7	0.72	0.81	0.84	1	7.10000	25	55	1350	69
		745	315B	415	313	J	7.3	2074	2.3	3.0	92.5	94.7	94.7	0.56	0.68	0.75	1	9.75000	18	40	1534	62
		745	355M/L	415	298	H	6.6	2074	1.8	2.4	92.8	94.7	94.7	0.60	0.72	0.79	1	15.8690	42	92	1620	70
		740	315B	400	317	J	7.3	2088	2.1	2.8	93.1	94.7	94.7	0.60	0.72	0.77	1	9.75000	18	40	1534	62
		740	315B	380	325	H	7.3	2088	1.8	2.5	93.6	94.9	94.6	0.66	0.75	0.79	1	9.75000	18	40	1534	62
		740	355M/L	380	317	G	6.6	2088	1.4	2.0	93.8	94.8	94.8	0.68	0.77	0.81	1	15.8690	42	92	1620	70
		740	355M/L	400	305	H	6.6	2088	1.6	2.2	93.3	94.7	94.7	0.64	0.75	0.80	1	15.8690	42	92	1620	70
		2985	355M/L	400	329	G	7.2	635	1.8	2.6	93.5	95.0	95.4	0.89	0.91	0.92	1	4.55638	70	154	1490	81
		2985	355M/L	415	321	G	7.2	635	2.0	2.8	93.3	94.9	95.4	0.88	0.90	0.91	1	4.55638	70	154	1490	81
		2980	355M/L	380	347	G	7.2	636	1.6	2.4	93.7	95.0	95.3	0.90	0.92	0.92	1	4.55638	70	154	1490	81
		2975	315B	400	362	G	6.4	637	1.8	2.8	92.0	93.4	93.7	0.72	0.82	0.85	1	2.81010	30	66	1415	92
		2975	315B	415	354	G	6.4	637	2.0	3.0	91.9	93.4	93.7	0.70	0.81	0.84	1	2.81010	30	66	1415	92
		2970	315B	380	377	G	6.4	639	1.6	2.6	92.2	93.4	93.6	0.74	0.83	0.86	1	2.81010	30	66	1415	92
		1490	355M/L	400	348	G	6.6	1273	2.3	2.2	94.8	95.2	95.4	0.78	0.85	0.87	1	6.34151	44	97	1525	79
		1490	355M/L	415	339	G	6.6	1273	2.4	2.3	94.5	95.1	95.3	0.76	0.84	0.86	1	6.34151	44	97	1525	79
		1485	355M/L	380	363	G	6.6	1277	2.0	2.0	94.8	95.0	95.2	0.80	0.86	0.88	1	6.34151	44	97	1525	79
		1485	315B	400	375	H	6.8	1277	1.9	2.9	93.8	95.0	95.0	0.68	0.77	0.81	1	4.02160	33	73	1240	79
270	200	1485	315B	415	366	H	6.8	1277	2.1	3.1	93.4	94.8	95.0	0.64	0.74	0.80	1	4.02160	33	73	1240	79
		1480	315B	380	390	H	6.8	1281	1.7	2.6	94.2	95.1	95.0	0.72	0.80	0.82	1	4.02160	33	73	1240	79
		990	315B	380	377	G	6.6	1916	1.8	2.3	95.1	95.3	94.9	0.75	0.82	0.85	1	8.60380	19	42	1419	69
		990	355M/L	400	376	G	6.3	1916	2.1	2.3	93.5	94.5	94.8	0.70	0.78	0.81	1	12.0174	85	187	1700	73
		990	355M/L	380	386	G	6.3	1916	1.9	2.1	94.0	94.7	94.8	0.74	0.81	0.83	1	12.0174	85	187	1700	73
		990	315B	400	362	G	6.6	1916	2.0	2.6	94.8	95.2	95.0	0.71	0.80	0.84	1	8.60380	19	42	1419	69
		990	315B	415	353	G	6.6	1916	2.2	2.8	94.4	95.1	95.0	0.67	0.78	0.83	1	8.60380	19	42	1419	69
		990	355M/L	415	372	G	6.3	1916	2.3	2.5	93.0	94.3	94.8	0.66	0.75	0.79	1	12.0174	85	187	1700	73
		745	355M/L	415	380	H	6.8	2546	1.8	2.3	92.8	94.4	95.2	0.56	0.69	0.77	1	18.9208	37	81	1830	70
		740	355M/L	400	384	H	6.8	2563	1.6	2.1	93.3	94.6	95.2	0.60	0.72	0.79	1	18.9208	37	81	1830	70
		740	355M/L	380	394	H	6.8	2563	1.4	1.9	93.8	94.8	95.1	0.65	0.75	0.81	1	18.9208	37	81	1830	70
		2985	355M/L	400	409	H	7.8	800	2.2	2.5	94.4	95.8	96.0	0.88	0.91	0.92	1	5.38663	65	143	1750	81
		2985	355M/L	415	393	H	7.8	800	2.4	2.7	94.3	95.8	96.1	0.87	0.91	0.92	1	5.38663	65	143	1750	81
		2980	355M/L	380	425	H	7.8	801	2.0	2.3	94.5	95.8	96.0	0.90	0.92	0.93	1	5.38663	65	143	1750	81
		2975	315B	415	433	G	6.5	803	2.1	2.9	92.9	94.0	94.4	0.73	0.82	0.85	1	3.21200	27	59	1490	92
		2970	315B	400	444	G	6.5	804	1.9	2.7	93.0	94.0	94.4	0.75	0.83	0.86	1	3.21200	27	59	1490	92
		2970	315B	380	463	G	6.5	804	1.7	2.5	93.2	94.0	94.3	0.77	0.84	0.87	1	3.21200	27	59	1490	92
		1490	355M/L	415	418	G	6.9	1603	2.4	2.7	94.1	95.0	95.7	0.77	0.85	0.87	1	8.12016	36	79	1615	79
340	250	1490	355M/L	400	428	G	6.9	1603	2.2	2.5	94.3	95.2	95.8	0.80	0.86	0.88	1	8.12016	36	79	1615	79
		1485	315B	415	452	G	6.2	1608	2.0	2.8	94.0	95.0	95.1	0.67	0.77	0.81	1	5.17130	29	64	1330	79
		1485	355M/L	380	446	G	6.9	1608	2.0	2.3	94.5	95.2	95.7	0.82	0.87	0.89	1	8.12016	36	79	1615	79
		1480	315B	380	469	G	6.2	1614	1.6	2.3	95.0	95.4	95.2	0.76	0.83	0.85	1	5.17130	29	64	1330	79
		1480	315B	400	457	G	6.2	1614	1.8	2.6	94.5	95.2	95.2	0.72	0.80	0.83	1	5.17130	29	64	1330	79
		995	355M/L	400	460	G	6.1	2400	2.2	2.2	94.0	95.1	95.6	0.70	0.79	0.82	1	14.3284	64	141	1830	73
		995	355M/L	380	479	G	6.1	2400	2.0	2.0	94.3	95.2	95.5	0.74	0.81	0.83	1	14.3284	64	141	1830	73
		995	355M/L	415	448	G	6.1	2400	2.4	2.4	93.7	95.0	95.8	0.67	0.77	0.81	1	14.3284	64	141	1830	73

EEx nA - Non-Sparking Metric Motors - Three Phase
Mechanical Data



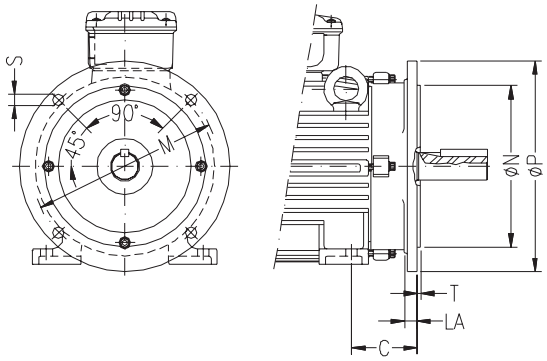
IEC Frame	NEMA Frame	A	AA	AB	AC	AD	B	BA	BB	C	CA	SHAFT DIMENSIONS												H	HA	HC	HD	K	L	LC	S1	d1	d2	BEARINGS	
												D	E	ES	F	G	GD	DA	EA	TS	FA	GB	GF											D.E.	O.D.E.
63		100	21	116	125	119	80	22	95	40	78	11j6	23	14	4	8.5	4	9j6	20	12	3	7.2	3	63	8	124	182	7	216	241		EM4	EM3	6201-ZZ	
71		112	30	132	141	127	90	38	113.5	45	88	14j6	30	18	5	11	5	11j6	23	14	4	8.5	4	71	12	139	198		248	276	2 x M20 x 1.5	DM5	EM4	6203-ZZ	6202-ZZ
80		125	35	149	159	136	100	40	125.5	50	93	19j6	40	28	6	15.5	6	14j6	30	18	5	11	5	80	13	157	216	10	276	313		DM6	DM4	6204-ZZ	6203-ZZ
90S	143T	140	38	164	179	155		42	131	56	104	24j6	50	36	8	20	7	16j6	40	28	5	13	5	90	15	177	245		304	350	2 x M25 x 1.5	DM8	DM6	6205-ZZ	6204-ZZ
90L	145T						125		156																				329	375					
100L	–	160	49	188	199	165	140	50	173	63	118	28j6	60	45		24		22j6	50	36	6	18.5	6	100	16	198	265	12	376	431	2 x M32 x 1.5	DM10	DM8	6206-ZZ	6205-ZZ
112M	184T	190	48	220	222	184			177	70	128							24j6			8	20	7	112	18.5	235	296		393	448				6307-ZZ	6206-ZZ
132S	213T	216	51	248	270	212		55	187	89	150	38k6	80	63	10	33		28j6	60	45		24		132	20	274	344		452	519		DM12	DM10	6308-ZZ	6207-ZZ
132M	215T						178		225																				490	557					
160M	254T	254	64	308	312	255	210	65	254	108	174	42k6	110	80	12	37	8	42k6	110	80	12	37	8	160	22	317	415	14.5	598	712	2 x M40 x 1.5	DM16		6309-C3	6209-Z-C3
160L	256T						254		298																				642	756					
180M	284T	279	80	350	358	275	241	75	294	121	200	48k6			14	42.5	9	48k6			14	42.5	9	180	28	360	455		664	782				6311-C3	6211-Z-C3
180L	286T						279		332																				702	820					
200M	324T	318	82	385	396	300	267	85	370	133	222	55m6			16	49	10							200	30	402	500	18.5	729	842	2 X M50 x 1.5	M20		6312-C3	6212-Z-C3
200L	326T						305																						767	880					
225S/M	364/5TS	356	80	436	476	373	286	105	391	149	280	55m6*	140	100	18	53	11	55m6*	140	100	16	49	10	225	34	466	598		817	935				6314-C3	
	364/5T						311				255	60m6						60m6											847	995					
250S/M	404/5TS	406	100	506				138	449	168	312	60m6*						60m6*			18	53	11	250	42	491	623	24	923	1071					
	404/5T						349				274	65m6						60m6																	
280S/M	444/5TS	457		557	600	468	368	142	510	190	350	65m6*			20	67.5	12	60m6*	140	125	18	58		280		578	748		1036	1188					
	444/5T						419				299	75m6						65m6																6316-C3	
315S/M	504/5TS	508	120	628		497	406	152	558	216	376	65m6*	170	160	18	58	11	60m6*				53		315	52	613	812	28	1126	1274	2 x M63 x 1.5			6314-C3	
	504/5T						457				325	80m6			22	71	14	65m6				58							1156	1308				6319-C3	6316-C3
315B	5008TS		182	630	698	595	630	162	830			75m6*	140	125	20	67.5	12								47.5	664	865		1432			M20		6316-C3	6314-C3
	5008T											100m6	210	200	28	90	16												1502			M24		6322-C3	6319-C3
355M/L	586/7TS	610	140	750	816	685	560	200	760	254	458	75m6*	140	125	20	67.5	12	60m6*	140	125	18	53	11	355	50	725	1040		1396	1561		M20		6316-C3	6314-C3
	586/7T						630				388	100m6	210	200	28	90	16	80m6	170	160	22	71	14						1466	1661		M24	M20	6322-C3	6319-C3

All Dimensions are in millimeters

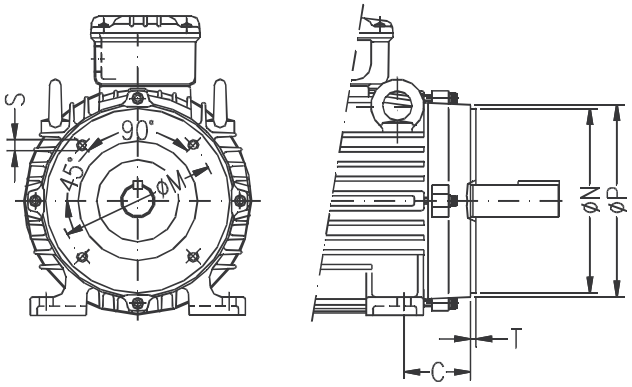
* Shaft dimensions for 2 pole motors, only for direct coupling

EEx nA - Non-Sparking Metric Motors - Three Phase
Mechanical Data

"FF" FLANGE DIMENSIONS										
IEC Frame	Flange	C	LA	M	N	P	T	S	a	n° of Holes
63	FF–115	40	9	115	95	140	3	10	45°	4
71	FF–130	45		130	110	160	3.5			
80	FF–165	50	10	165	130	200		12		
90S/L		56								
100L	FF–215	63	11	215	180	250	4	15		
112M		70								
132S/M	FF–265	89	12	265	230	300				
160M/L	FF–300	108	18	300	250	350	5	19		
180M/L		121								
200M/L	FF–350	133		350	300	400				
225S/M	FF–400	149		400	350	450			22°30'	8
250S/M	FF–500	168		500	450	550				
280S/M		190								
315S/M	FF–600	216	22	600	550	660	6	24		
315B										
355S/M	FF–740	254		740	680	800				



"C" DIN FLANGE DIMENSIONS								
IEC Frame	Flange	C	M	N	P	S	T	n° of Holes
63	C–90	40	75	60	90	M5	2.5	4
71	C–105	45	85	70	105	M6		
80	C–120	50	100	80	120		3	
90S/L	C–140	56	115	95	140	M8		
100L	C–160	63	130	110	160		3.5	
112M		70						
132S/M	C–200	89	165	130	200	M10		



Metric Brake Motors - Three Phase
Purchasing Data

Standard Features

- Three-phase 2, 4 & 6 poles - 60Hz & 50 Hz
- Voltage: 230/460V or 575V - 60Hz
  380-415V - 50 Hz
- Class 'F' insulation
- Temperature rise: Class 'B' (80°C)
- 104°F (40°C) ambient temperature
- Totally enclosed fan cooled (IP55)
- Service Factor: 1.15 (60Hz)
  1.0 (50Hz)
- Squirrel cage rotor / Aluminum die cast
- Oil seals
- Cast iron frames
- Design: N
- Continuous duty (S1)
- Mounting: B3L (F2 mount)
- Ball bearings
- Regreasable bearings system (from frame 160M and up)
- 1045 carbon steel shaft
- Automatic drain plugs
- NPT threaded terminal box conduit hole
- Colour: RAL 7022 (Dark Grey)
- WEG paint plan: 201A

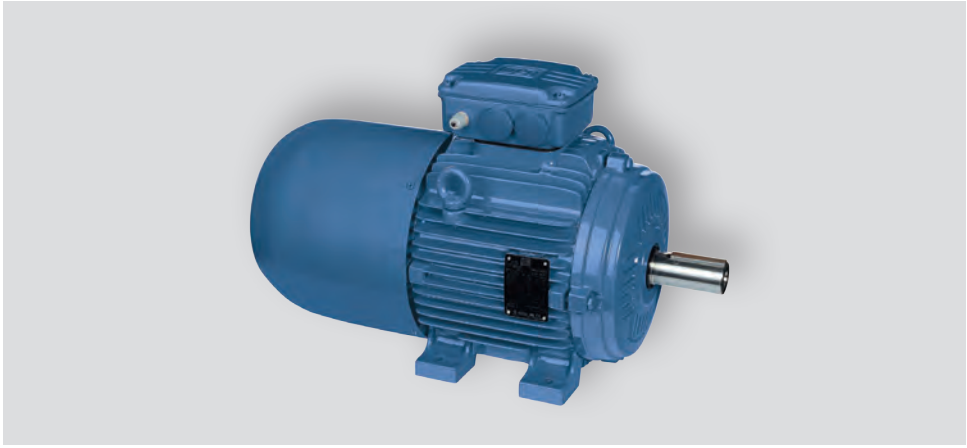
Optional Features

- Flanges
- Class 'H' insulation
- Taconite labyrinth seal
- Space heaters
- Thermistors, Thermostats or RTD's (PT100)
- Drip cover (canopy) for shaft down applications
- Special painting plans for hostile evironments
- Special bearings
- Terminal blocks available
- Terminal Box with metric threaded cable entries
- Lenze brakes

NEMA MG1 Part 31

Inverter Duty
- Please call for specific ratings

APPROVED BY APPROVED BY
LR 38324



Metric Brake Motors - Three Phase
Purchasing Data

Rated Output			IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)
kW	HP	RPM				460V	575V		
0.75	1	1200	90S	$1,229	BM000X0690S	1.71	1.37	80.0	53
1.1	1.5	1800	90S	1,083	BM001X0490S	2.16	1.73	84.0	31
		1200	112M	1,447	BM001X0612M	2.41	1.93	85.5	68
1.5	2	3600	90S	1,140	BM002X0290S	2.70	2.16	84.0	32
		1800	90L	1,140	BM002X0490L	2.99	2.39	84.0	40
		1200	112M	1,593	BM002X0612M	3.20	2.56	86.5	79
2.2	3	3600	90L	1,431	BM003X0290L	4.14	3.31	85.5	33
		1800	100L	1,645	BM003X0410L	4.44	3.55	87.5	71
		1200	132S	2,409	BM003X0613S	4.21	3.37	87.5	110
3	4	3600	100L	1,560	BM004X0210L	5.21	4.17	84.0	55
		1800	100L	1,729	BM004X0410L	5.89	4.71	87.5	71
		1200	132M	2,615	BM004X0613M	6.83	5.46	87.5	146
3.7	5	3600	112M	1,612	BM005X0212M	6.83	5.46	87.5	71
		1200	160M	2,798	BM005X0616M	7.08	5.66	87.5	139
4	5.5	3600	112M	1,642	BM5.5X0212M	6.83	5.46	87.5	71
		1800	112M	1,934	BM5.5X0412M	7.19	5.75	89.5	90
		1200	160M	2,816	BM5.5X0616M	8.44	6.75	87.5	174
		900	160M	5,154	BM5.5X0816M	9.63	7.70	85.5	243
5.5	7.5	3600	132S	2,385	BM007X0213S	8.97	7.18	88.5	110
		1800	132S	2,200	BM007X0413S	9.29	7.43	89.5	110
		1200	160M	4,122	BM007X0616M	9.52	7.62	89.5	236
		900	160M	5,710	BM007X0816M	13.5	10.8	85.5	257
7.5	10	3600	132S	2,701	BM010X0213S	12.4	9.92	89.5	110
		1800	132M	2,890	BM010X0413M	12.7	10.2	89.5	148
		1200	160L	4,660	BM010X0616L	14.2	11.4	89.5	276
		900	160L	7,527	BM010X0816L	15.2	12.2	88.5	301
11	15	3600	160M	4,283	BM015X0216M	18.9	15.1	90.2	243
		1800	132M	3,819	BM015X0413M	20.0	16.0	91.7	276
		1200	180L	7,058	BM015X0618L	21.6	17.3	90.2	300
		900	180L	8,720	BM015X0818L	20.3	16.2	89.5	404
15	20	3600	160M	5,667	BM020X0216M	25.1	20.1	90.2	243
		1800	160L	4,827	BM020X0416L	26.9	21.5	91.0	287
		1200	200L	7,645	BM020X0620L	23.5	18.8	92.0	459
		900	200L	10,308	BM020X0820L	30.9	24.7	89.5	496
18.5	25	3600	160L	6,835	BM025X0216L	30.0	24.0	91.0	287
		1800	180M	5,945	BM025X0418M	31.8	25.4	92.4	386
22	30	3600	180M	7,465	BM030X0218M	35.7	28.6	91.0	397
		1800	180L	6,792	BM030X0418L	36.9	29.5	92.4	430

Flange: Replace 'M' with 'C' for C flange
Replace 'M' with 'D' for D flange
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Metric Brake Motors - TEFC - Three Phase
Electrical Data

60Hz

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
5.5	4	880	160M	19.3	9.63	7.70	J	5.4	32.4	2.5	2.9	82.5	85.5	85.5	0.40	0.52	0.61	1.15	2.89720	24	53	243	54
7.5	5.5	1170	160M	19.0	9.52	7.62	H	6.8	33.2	2.3	2.9	88.5	89.5	89.5	0.62	0.74	0.81	1.15	2.55643	20	44	236	59
		880	160M	27.0	13.5	10.8	J	5.5	44.2	2.8	3.0	82.5	85.5	85.5	0.38	0.50	0.60	1.15	3.40858	20	44	257	54
10	7.5	1175	160M	28.4	14.2	11.4	J	7.0	44.1	3.0	3.5	87.5	89.5	89.5	0.51	0.65	0.74	1.15	3.40858	16	35	262	59
		880	160L	30.4	15.2	12.2	H	5.4	58.9	2.0	2.2	85.5	87.5	88.5	0.50	0.62	0.70	1.15	4.43110	15	33	301	54
		3560	160M	37.8	18.9	15.1	M	10.2	21.8	3.4	4.8	84.0	90.2	90.2	0.63	0.75	0.81	1.15	1.25650	12	26	258	75
15	11	1765	160M	40.0	20.0	16.0	J	7.0	44.0	3.2	3.2	87.5	90.2	91.0	0.56	0.69	0.76	1.15	2.38178	19	42	276	69
		1175	160L	43.2	21.6	17.3	K	7.5	66.1	3.4	3.8	87.5	89.5	90.2	0.48	0.62	0.71	1.15	4.17529	12	26	311	59
		885	180L	40.6	20.3	16.2	L	9.0	87.8	2.6	3.0	87.5	88.5	89.5	0.57	0.69	0.76	1.15	7.19897	10	22	404	54
		3550	160M	50.2	25.1	20.1	K	8.9	29.2	2.9	4.0	88.5	90.2	90.2	0.66	0.77	0.83	1.15	1.25650	11	24	258	75
20	15	1765	160L	53.8	26.9	21.5	J	6.7	58.7	3.0	3.0	88.5	90.2	91.0	0.58	0.70	0.77	1.15	2.73892	11	24	289	69
		1175	180L	47.0	23.5	18.8	K	9.0	88.2	2.8	3.8	91.7	92.4	92.0	0.71	0.82	0.87	1.15	8.18068	12	26	420	59
		880	200L	61.8	30.9	24.7	G	5.0	118	2.1	2.1	87.5	86.5	89.5	0.48	0.61	0.68	1.15	8.93909	33	73	496	56
		3555	160L	60.0	30.0	24.0	L	9.9	36.4	3.1	4.1	89.5	91.0	91.0	0.71	0.81	0.85	1.15	1.53557	11	24	307	75
25	18.5	1770	180M	63.6	31.8	25.4	K	8.5	73.2	3.4	3.2	90.2	91.7	92.4	0.60	0.73	0.79	1.15	4.68264	12	26	391	68
		1180	200L	63.4	31.7	25.4	H	6.6	110	2.4	2.4	91.0	92.4	91.7	0.63	0.76	0.80	1.15	8.93909	25	55	497	62
		885	225S/M	61.8	30.9	24.7	J	7.8	146	2.0	2.9	91.0	91.7	91.7	0.64	0.76	0.82	1.15	20.1045	16	35	750	60
		3555	180M	71.4	35.7	28.6	L	9.5	43.7	2.8	3.7	89.5	91.0	91.0	0.74	0.82	0.85	1.15	2.82838	9	20	392	75
30	22	1770	180L	73.8	36.9	29.5	K	8.7	87.8	3.5	3.2	91.0	92.4	92.4	0.65	0.76	0.81	1.15	5.53407	11	24	435	68
		1180	200L	74.8	37.4	29.9	H	7.0	132	2.5	2.4	91.0	92.4	92.4	0.63	0.76	0.80	1.15	10.6420	20	44	550	62
		885	225S/M	74.8	37.4	29.9	K	8.5	176	2.1	3.2	91.0	92.4	92.4	0.60	0.73	0.80	1.15	23.4552	15	33	805	60

50 Hz

Rated Output		Full Load Speed (RPM)	IEC Frame	Voltage	Full Load Current I_n(A)	Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK^2(lb.ft^2)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
											% of full load											
HP	kW					(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
5.5	4	720	160M	380	10.0	H	5.6	39.6	2.0	2.6	84.5	86.0	86.5	0.48	0.61	0.70	1	2.8972	24	53	243	51
		730	160M	415	10.2	J	5.6	39.0	2.4	3.1	84.4	86.0	86.6	0.41	0.54	0.63	1	2.8972	24	53	243	51
		960	160M	380	11.5	G	5.7	40.5	1.8	2.1	86.0	87.5	86.5	0.66	0.78	0.84	1	2.5564	20	44	236	56
7.5	5.5	965	160M	415	10.8	G	5.7	40.3	2.2	2.6	85.5	87.5	87.5	0.62	0.74	0.81	1	2.5564	20	44	236	56
		720	160M	380	13.7	H	5.6	54.0	2.0	2.6	84.2	86.6	87.0	0.46	0.60	0.70	1	3.4086	20	44	257	51
		730	160M	415	14.7	J	5.6	53.2	2.5	3.0	84.1	86.4	87.0	0.38	0.50	0.60	1	3.4086	20	44	257	51
		965	160M	380	15.5	H	6.6	53.7	2.0	2.6	86.9	89.0	89.9	0.66	0.77	0.82	1	3.4086	16	35	262	56
10	7.5	970	160M	415	14.5	H	6.6	53.4	2.5	3.1	87.0	89.5	90.0	0.58	0.71	0.80	1	3.4086	16	35	262	56
		720	160L	380	17.8	G	5.2	72.0	1.8	2.4	85.5	88.2	89.0	0.50	0.64	0.72	1	4.4311	15	33	301	51
		730	160L	415	18.3	H	5.2	71.0	2.2	2.8	85.4	88.1	89.0	0.41	0.54	0.64	1	4.4311	15	33	301	51
		2945	160M	380	21.3	J	8.5	26.4	2.5	3.0	90.3	91.9	92.2	0.76	0.81	0.85	1	1.2565	12	26	258	70
		2955	160M	415	20.0	K	8.5	26.3	3.0	3.6	90.2	92.0	92.2	0.70	0.79	0.83	1	1.2565	12	26	258	70
		1450	160M	380	21.6	G	6.0	53.6	1.8	2.1	90.9	91.5	91.0	0.72	0.81	0.85	1	2.3818	19	42	276	67
15	11	1470	160M	415	20.7	G	6.0	52.9	2.2	2.6	90.0	91.6	91.3	0.65	0.75	0.81	1	2.3818	19	42	276	67
		970	160L	380	22.8	H	7.0	80.1	2.0	2.3	89.9	90.5	90.3	0.64	0.76	0.81	1	4.1753	12	26	311	56
		975	160L	415	22.3	J	7.0	79.7	2.4	2.7	89.3	90.0	90.3	0.54	0.68	0.76	1	4.1753	12	26	311	56
		720	180L	380	23.8	J	7.0	108	2.0	2.2	86.7	88.5	89.0	0.63	0.75	0.79	1	7.1990	10	22	404	51
		730	180L	415	22.3	J	7.0	106	2.4	2.6	86.3	88.5	89.0	0.60	0.70	0.77	1	7.1990	10	22	404	51
		2930	160M	380	28.7	J	8.2	35.4	2.2	2.6	90.9	91.7	92.4	0.76	0.83	0.86	1	1.2565	11	24	258	70
		2935	160M	415	26.9	J	8.2	35.3	2.7	3.2	90.7	91.6	92.4	0.71	0.81	0.84	1	1.2565	11	24	258	70
		1460	160L	380	29.6	G	6.1	71.0	1.8	2.1	90.0	91.9	91.8	0.71	0.80	0.84	1	2.7389	11	24	289	67
20	15	1470	160L	415	27.7	G	6.1	70.5	2.2	2.7	90.0	91.9	91.8	0.60	0.74	0.82	1	2.7389	11	24	289	67
		960	180L	380	27.6	H	7.3	108	2.4	2.5	91.0	91.8	91.6	0.80	0.88	0.90	1	8.1807	12	26	420	56
		970	180L	415	25.9	H	7.3	107	2.6	2.7	91.0	91.8	91.6	0.77	0.85	0.88	1	8.1807	12	26	420	56
		720	200L	380	34.9	G	5.0	144	1.8	2.0	89.0	90.8	90.8	0.55	0.67	0.72	1	8.9391	33	73	496	53
		730	200L	415	33.1	G	5.0	142	2.1	2.4	89.0	90.8	91.3	0.51	0.63	0.69	1	8.9391	33	73	496	53
		2940	160L	380	34.7	K	8.8	44.1	2.0	2.5	92.0	92.8	93.0	0.76	0.84	0.87	1	1.5356	11	24	307	70
		2950	160L	415	33.3	K	8.8	43.9	2.6	3.0	91.6	92.7	93.0	0.70	0.81	0.83	1	1.5356	11	24	307	70
		1465	180M	380	35.9	J	8.0	88.4	2.7	2.7	91.8	93.0	93.3	0.70	0.80	0.84	1	4.6826	12	26	391	64
25	18.5	1475	180M	415	34.5	J	8.0	87.8	3.1	3.1	91.3	92.9	93.3	0.60	0.73	0.80	1	4.6826	12	26	391	64
		970	200L	380	35.6	G	6.5	134	2.2	2.3	90.6	92.6	92.9	0.72	0.80	0.85	1	8.9391	25	55	497	58
		980	200L	415	33.7	G	6.5	132	2.4	2.7	90.5	92.8	93.0	0.65	0.75	0.82	1	8.9391	25	55	497	58
		730	225S/M	380	36.0	J	7.8	177	2.0	2.3	90.3	91.0	91.8	0.73	0.81	0.85	1	20.1045	16	35	750	56
		740	225S/M	415	33.8	J	7.8	175	2.2	2.7	90.0	91.0	91.8	0.67	0.77	0.83	1	20.1045	16	35	750	56
		2945	180M	380	40.1	J	8.6	52.8	2.5	2.4	92.9	93.7	93.7	0.78	0.86	0.89	1	2.82838	9	20	392	70
		2955	180M	415	38.6	J	8.6	52.6	3.0	3.0	92.0	93.2	93.4	0.74	0.82	0.85	1	2.82838	9	20	392	70
		1470	180L	380	41.1	J	8.6	106	2.5	2.6	92.2	93.4	93.5	0.75	0.84	0.87	1	5.53407	11	24	435	64
30	22	1475	180L	415	38.5	J	8.6	105	3.0	3.2	92.0	93.4	93.6	0.67	0.78	0.85	1	5.53407	11	24	435	64
		970	200L	380	42.8	H	7.0	160	2.2	2.4	91.0	92.5	92.9	0.70	0.78	0.84	1	10.6420	20	44	550	58
		980	200L	415	41.2	H	7.0	159	2.5	2.8	91.0	92.5	92.9	0.60	0.72	0.80	1	10.6420	20	44	550	58
		735	225S/M	380	43.7	K	8.5	211	2.0	2.6	91.5	92.0	92.2	0.67	0.78	0.83	1	23.4552	15	33	805	56
		735	225S/M	415	41.4	K	8.5	211	2.4	3.1	90.8	92.0	92.4	0.60	0.73	0.80	1	23.4552	15	33	805	56

Brake Motors - Three Phase
Purchasing Data

Standard Features

- Three-phase, 2, 4, 6 or 8 pole, 60Hz
- Voltage: 230/460, 460 or 575 V
- Class 'F' insulation
- 104ºF (40ºC) ambient temperature
- Temperature rise: Class 'B' (80ºC)
- NEMA ratings design 'B'
- 1045 carbon steel shaft
- Automatic drain plugs
- Continuous Duty (S1)
- Manual brake release
- Slow, medium or rapid braking connectors - 230V, 460V or 575V
- Stainless steel nameplate
- V-ring slingers on both endshields
- Altitude: 3300 ft (1000m)
- Ball bearings
- F1 mount
- NEMA dimensions
- NPT threaded terminal box conduit hole
- Service factor: 1.25 up to 100HP
- Squirrel cage rotor / Aluminum die cast
- Totally Enclosed Fan Cooled (IP55)
- Paint: Enamel alkyd resin base
- Colour: RAL 5007 - Blue (High Efficiency)
- WEG paint plan: 201A

Optional Features

- Electric brake release
- Special brake and motor voltages
- Specially designed shaft
- Space heaters
- Second shaft end
- Lenze brakes
- Thermistors, Thermostats or RTD's (PT100)
- Roller bearings on drive end
- Drip cover (canopy) for shaft down applications
- Stainless steel shaft
- Flanged motor
- Higher torque brakes available
- Brake motors available up to 150HP with load data. Call 1 877 PAMENSKY for details

NEMA MG1 Part 31

SPIKE RESISTANT WISE WIRE

INVERTER RATED

Inverter Duty

- 12:1 CT *
- 1000:1 VT *

* 449T and 586/7T frame sizes not included. Other speed ranges available. Call for specific ratings

APPROVED BY ® APPROVED BY LR 38324

Brake Motors - Three Phase
Purchasing Data

High Efficiency

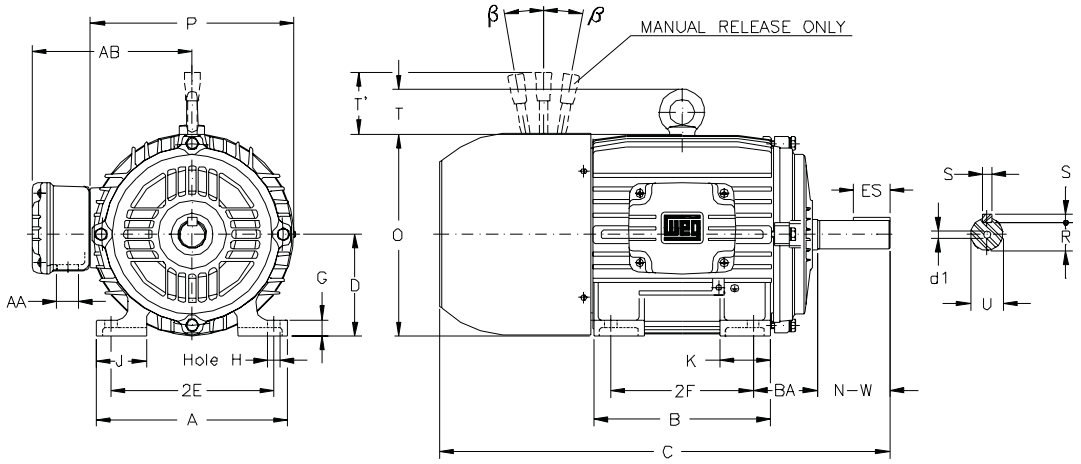
Rated Output		NEMA Frame	List Price	List Price with 'C' Flange	List Price with 'D' Flange	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM						460V	575V			
1	1800	143T	$1,051	$1,125	$1,135	BM000X04P	1.49	1.19	82.5	52	15.222
	1200	145T	1,461	1,535	1,545	BM000X06P	1.70	1.36	80.0	49	16.166
	900	182T	1,896	1,980	1,986	BM000X08P	2.31	1.85	74.0	106	18.246
1.5	3600	143T	1,291	1,365	1,375	BM001X02P	2.06	1.65	82.5	46	15.222
	1800	145T	1,174	1,248	1,258	BM001X04P	2.05	1.64	84.0	55	16.166
	1200	182T	1,638	1,722	1,728	BM001X06P	2.38	1.90	85.5	79	18.246
	900	184T	2,046	2,130	2,136	BM001X08P	2.71	2.17	77.0	121	19.246
2	3600	145T	1,336	1,410	1,420	BM002X02P	2.60	2.08	84.0	49	16.166
	1800	145T	1,203	1,277	1,287	BM002X04P	2.70	2.16	84.0	60	16.166
	1200	184T	1,766	1,850	1,856	BM002X06P	3.20	2.56	86.5	90	19.246
	900	213T	2,761	2,856	2,861	BM002X08P	3.46	2.77	82.5	159	22.646
3	3600	182T	1,665	1,749	1,755	BM003X02P	3.71	2.97	85.5	108	18.246
	1800	182T	1,575	1,659	1,665	BM003X04P	3.90	3.12	87.5	103	18.246
	1200	213T	2,198	2,293	2,298	BM003X06P	4.26	3.41	87.5	128	22.646
	900	215T	2,988	3,083	3,088	BM003X08P	4.33	3.46	84.0	176	24.142
5	3600	184T	1,773	1,857	1,863	BM005X02P	5.90	4.72	87.5	116	19.246
	1800	184T	1,773	1,857	1,863	BM005X04P	6.48	5.18	87.5	113	19.246
	1200	215T	2,474	2,569	2,574	BM005X06P	6.80	5.44	87.5	180	24.142
	900	254T	4,141	4,226	4,257	BM005X08P	7.99	6.39	85.5	258	28.095
7.5	3600	213T	2,546	2,641	2,646	BM007X02P	8.66	6.93	88.5	154	22.646
	1800	213T	2,563	2,658	2,663	BM007X04P	9.53	7.62	89.5	158	22.646
	1200	254T	3,562	3,647	3,678	BM007X06P	9.53	7.62	89.5	262	28.095
	900	256T	5,163	5,348	5,379	BM007X08P	11.2	8.96	86.5	302	29.827
10	3600	215T	2,861	2,956	2,961	BM010X02P	11.7	9.36	89.5	154	24.142
	1800	215T	2,666	2,761	2,766	BM010X04P	12.8	10.2	90.2	187	24.142
	1200	256T	3,919	4,104	4,135	BM010X06P	13.4	10.7	89.5	282	29.827
15	3600	254T	3,661	3,846	3,877	BM015X02P	17.0	13.6	90.2	280	28.095
	1800	254T	3,775	3,960	3,991	BM015X04P	17.9	14.3	91.0	299	28.095
20	3600	256T	4,444	4,629	4,660	BM020X02P	23.3	18.6	90.2	313	29.827
	1800	256T	4,203	4,388	4,419	BM020X04P	24.4	19.5	91.0	333	29.827
25	1800	284T	P.O.A.	P.O.A.	P.O.A.	BM025X04P	29.6	23.7	92.4	391	32.648
30	1800	286T	P.O.A.	P.O.A.	P.O.A.	BM030X04P	34.4	27.5	92.4	437	34.144

Flange: For C Flange replace 'M' with 'C'
For D Flange replace 'M' with 'D'
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Brake Motors - TEFC - Three Phase
Electrical Data

Rated Output		Full Load Speed (RPM)	NEMA Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
		1765	143T	2.98	1.49	1.19	M	8.6	2.94	2.9	4.0	77.0	80.0	82.5	0.55	0.69	0.77	1.25	0.09302	16	35	52	51
1	0.75	1155	145T	3.40	1.70	1.36	L	6.8	4.49	2.3	3.0	75.5	80.0	80.0	0.48	0.60	0.69	1.25	0.13289	22	48	49	49
		875	182T	4.63	2.31	1.85	M	6.0	5.92	3.0	3.5	68.0	72.0	74.0	0.35	0.45	0.55	1.25	0.39914	40	88	106	50
		3500	143T	4.13	2.06	1.65	M	9.2	2.22	3.0	4.0	75.5	81.5	82.5	0.64	0.74	0.81	1.25	0.04295	17	37	46	68
1.5	1.1	1760	145T	4.10	2.05	1.64	L	8.5	4.42	2.7	3.7	80.0	84.0	84.0	0.60	0.72	0.80	1.25	0.11960	13	29	55	51
		1165	182T	4.75	2.38	1.90	M	8.0	6.67	3.2	4.0	81.5	84.0	85.5	0.47	0.58	0.68	1.25	0.48789	36	79	79	52
		860	184T	5.43	2.71	2.17	J	5.5	9.04	2.5	2.6	74.0	75.5	77.0	0.47	0.58	0.66	1.25	0.44375	32	70	121	50
		3480	145T	5.20	2.60	2.08	L	9.4	2.98	2.8	4.0	80.0	82.5	84.0	0.70	0.81	0.86	1.25	0.04888	12	26	49	68
2	1.5	1750	145T	5.40	2.70	2.16	K	7.7	5.92	2.4	3.0	81.5	84.0	84.0	0.63	0.74	0.83	1.25	0.13289	11	24	60	51
		1165	184T	6.40	3.20	2.56	L	7.5	8.89	3.0	3.0	82.5	85.5	86.5	0.48	0.60	0.68	1.25	0.62101	35	77	90	52
		870	213T	6.93	3.46	2.77	L	6.6	11.9	2.4	2.9	78.5	81.5	82.5	0.47	0.53	0.66	1.25	1.19101	43	95	159	52
		3500	182T	7.43	3.71	2.97	K	8.2	4.44	2.5	4.0	80.0	84.0	85.5	0.74	0.83	0.87	1.25	0.17252	23	51	108	69
3	2.2	1765	182T	7.80	3.90	3.12	K	7.9	8.81	2.3	3.2	85.5	87.5	87.5	0.65	0.75	0.81	1.25	0.31774	31	68	103	56
		1170	213T	8.53	4.26	3.41	J	7.0	13.3	2.2	2.5	86.5	87.5	87.5	0.53	0.65	0.74	1.25	1.01185	59	130	128	55
		865	215T	8.65	4.33	3.46	K	7.1	18.0	2.0	2.1	82.5	84.0	84.0	0.59	0.70	0.76	1.25	2.02441	30	66	176	52
		3480	184T	11.8	5.90	4.72	J	7.7	7.44	2.3	3.3	84.0	86.5	87.5	0.80	0.86	0.90	1.25	0.19981	23	51	116	69
5	3.7	1750	184T	13.0	6.48	5.18	J	7.1	14.8	2.1	3.0	85.5	87.5	87.5	0.66	0.77	0.82	1.25	0.38134	21	46	113	56
		1160	215T	13.6	6.80	5.44	H	6.1	22.3	1.8	2.1	86.5	87.5	87.5	0.65	0.75	0.78	1.25	1.47174	49	108	180	55
		875	254T	16.0	7.99	6.39	H	5.3	29.6	2.0	2.8	82.1	85.0	85.5	0.47	0.60	0.68	1.25	2.89720	37	81	258	54
		3515	213T	17.3	8.66	6.93	H	7.1	11.1	2.2	3.5	85.5	87.5	88.5	0.80	0.87	0.90	1.25	0.48789	26	57	154	72
7.5	5.5	1765	213T	19.1	9.53	7.62	H	6.4	22.0	2.0	2.6	87.5	89.5	89.5	0.64	0.75	0.81	1.25	1.01185	21	46	158	58
		1170	254T	19.1	9.53	7.62	H	6.8	33.2	2.3	3.1	88.5	89.5	89.5	0.62	0.74	0.81	1.25	2.55643	29	64	262	59
		875	256T	22.5	11.2	8.99	G	5.2	44.4	1.9	2.7	83.4	85.9	86.5	0.51	0.63	0.71	1.25	3.40858	41	90	302	54
		3500	215T	23.4	11.7	9.35	H	6.9	14.8	2.2	2.8	88.5	89.5	89.5	0.81	0.88	0.90	1.25	0.57664	20	44	154	72
10	7.5	1760	215T	25.5	12.8	10.2	H	6.5	29.4	2.0	2.6	88.5	90.2	90.2	0.67	0.78	0.82	1.25	1.37990	17	37	187	58
		1175	256T	26.8	13.4	10.7	J	6.9	44.1	2.3	2.9	88.5	89.5	89.5	0.58	0.72	0.79	1.25	2.89720	22	48	282	59
15	11	3520	254T	34.0	17.0	13.6	G	6.3	22.1	2.0	2.7	88.5	90.2	90.2	0.83	0.89	0.90	1.25	1.25650	28	62	280	75
		1760	254T	35.8	17.9	14.3	G	6.4	44.2	2.5	2.5	89.5	91.0	91.0	0.70	0.80	0.85	1.25	2.38178	27	59	299	69
20	15	3520	256T	46.5	23.3	18.6	G	6.2	29.4	2.0	2.5	89.5	90.2	90.2	0.86	0.90	0.90	1.25	1.53581	21	46	313	75
		1755	256T	48.8	24.4	19.5	G	5.9	59.0	2.4	2.4	89.5	91.0	91.0	0.72	0.81	0.85	1.25	2.85804	18	40	333	69
25	18.5	1760	284T	59.3	29.6	23.7	G	6.1	74.1	2.2	2.5	91.7	92.4	92.4	0.72	0.82	0.85	1.25	5.11	51	112	397	68
30	22	1755	286T	68.8	34.4	27.5	G	6.3	88.3	2.4	2.6	92.4	93	92.4	0.75	0.83	0.87	1.25	5.32	22	48	441	68

Brake Motors - TEFC - Three Phase
Mechanical Data



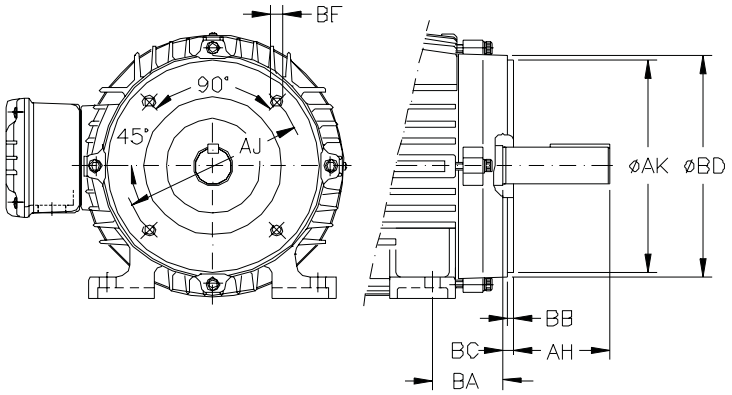
Lenze Brake shown - WEG Brake data on request

NEMA FRAMES	MOUNTING				A	B	C	D	G	J	K	O	P	T	KEYWAY			SHAFT EXTENSION		AB	AA	d1	BEARINGS		LENZE BRAKE			MANUAL RELEASE	
	2E	2F	H	BA											S	R	ES	N–W	U				D.E.	O.D.E.	TYPE	BRAKE No	CODE*	T'	b
143T	5.500	4.000	0.344	2.250	6.457	5.157	15.222	3.500	0.547	1.496	1.654	7.000	7.047	X	0.187	0.765	1.575	2.250	0.875	5.905	NPT0.75"	A4	6205-ZZ	6204-ZZ	BFK458	08	8N	28	10°
																										10	16N	44	9°
145T		5.000				6.142	16.166																			08	8N	28	10°
																										10	16N	44	9°
182T	7.500	4.500	0.406	2.750	8.661	5.945	18.246	4.500	0.720	1.890	1.969	9.343	8.740	1.772	0.250	0.984	1.969	2.750	1.125	7.047	NPT1"		6307-ZZ	6206-ZZ		12	32N	52	10°
																										14	60N	86	9°
184T		5.500				6.969	19.246																			12	32N	52	10°
																										14	60N	86	9°
213T	8.500			3.500	9.764	7.362	22.646	5.250	0.827	2.008	2.165	10.841	10.630		0.313	1.203	2.480	3.375	1.375	8.032			6308-ZZ	6207-ZZ		14	60N	66	9°
																										16	80N	111	10°
215T		7.000				8.858	24.142																			14	60N	66	9°
																										16	80N	111	10°
254T	10.000	8.252	0.531	4.250	12.126	10.000	28.095	6.250	0.817	2.520	2.559	12.431	12.283	2.087	0.375	1.406	2.756	4.000	1.625	10.079	NPT1.0.5"		6309-C3	6209-Z-C3		16	80N	90	10°
																										18	150N	129	9°
256T		10.000				11.732	29.827																			16	80N	90	10°
																										18	150N	129	9°
284T	11.000	9.500		4.750	13.870	11.575	32.648	7.000	1.016	3.150	2.953	14.067	14.094		0.500	1.594	3.150	4.622	1.875	10.866	NPT1.0.5"		6311-C3	6211-Z-C3		18	150N	108	9°
																										20	260N	148	10°
284TS							31.278								0.375	1.406	2.480	3.250	1.625							18	150N	108	9°
																										20	260N	148	10°
286T		11.000				13.071	34.144								0.500	1.594	3.150	4.622	1.875							18	150N	108	9°
																										20	260N	148	10°
286TS							32.774								0.375	1.406	2.480	3.250	1.625							18	150N	108	9°
																										20	260N	148	10°
324T	12.500	10.500	0.657	5.250	15.157		33.832	8.000	1.307	3.228	3.346	15.593	15.591	2.441	0.500	1.844	3.937	5.250	2.125	11.496	NPT2"		6312-C3	6212-Z-C3		20	260N	129	10°
																										25	400N	255	10°
324TS							32.332									1.594	2.756	3.750	1.875							20	260N	129	10°
																										25	400N	255	10°
326T		12.000				14.567	35.328									1.844	3.937	5.250	2.125							20	260N	129	10°
																										25	400N	255	10°
326TS							33.828									1.594	2.756	3.750	1.875							20	260N	129	10°
																										25	400N	255	10°

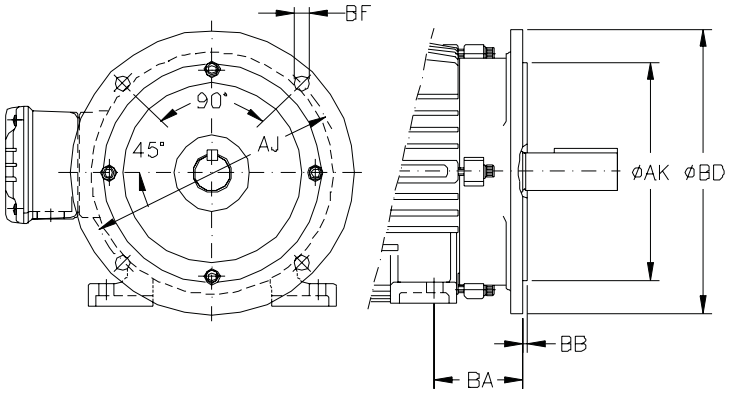
* Number is rated braking torque in (Nm).

Brake Motors - TEFC - Three Phase
Mechanical Data

"C" FLANGE DIMENSIONS									
NEMA FRAMES	BA	AJ	AK	BD	BF		BB	BC	AH
					NUMBER	TAP SIZE			
143TC	2.250	5.875	4.500	6.500	4	UNC3/8"x16	0.156	0.125	2.250
145TC									
182TC	2.750	7.250	8.500	8.750		UNC0.5"x13	0.250	0.250	2.625
184TC									
213TC	3.500								3.125
215TC									
254TC	4.250								3.750
256TC									
284TSC	4.750	9.000	10.500	11.031					3.000
284TC									4.375
286TSC									3.000
286T									4.375
324TSC	5.250	11.000	12.500	13.583		UNC5/8"X11			3.500
324TC									5.000
326TSC									3.500
326T									5.000



"D" FLANGE DIMENSIONS							
NEMA FRAMES	BA	AJ	AK	BD	BF		BB
					NUMBER	TAP SIZE	
143TD	2.250	10.000	9.000	11.000	4	0.562	0.203
145TD							
182TD	2.750						
184TD							
213TD	3.500						
215TD							
254TD	4.250	12.500	11.000	14.000		0.828	
256TD							
284TSC	4.750						
284TC							
286TSC							
286T							
324TSC	5.250	16.000	14.000	18.000			
324TC							
326TSC							
326T							



WEG BRAKE	
AC voltage	Rated coil voltage
220/230/240V	205V
380/400/415V	205V
440/460/480V **	205V
575V	259V
** Only for 60Hz	

LENZE BRAKE			
Rectifier	AC voltage	Rectifier type	Rated coil voltage
Bridge	220/230/240V	RB45B1520B01	205V
Half wave	380/400/415V	RB45E1520B01	180V
	440/460/480V **		205V
** Only for 60Hz			

Saw Arbor Motors - Three Phase
Purchasing Data

Standard Features

- Three-phase, 2 and 4 pole, 60Hz
- Voltage: 230/460 V or 575 V
- 80S-MS up to 90L-MS - IEC metric frames
- Squirrel cage rotor / Aluminum die cast
- Totally Enclosed Fan Cooled (IP54 according to IEC34-5 standard)
- Class 'F' insulation
- 104ºF (40ºC) ambient temperature
- Continuous duty (S1)
- Altitude: 3300 ft (1000 m)
- 1045 carbon steel shaft
- Ball bearings
- F1 mount
- Service factor: 1.0
- Stainless steel nameplate
- Cast iron frame
- Dimensions according to IEC 72
- NPT threaded terminal box conduit hole
- LH or RH thread on shaft
- Plastic drain plugs
- Paint: Enamel alkyd resin base
- Color: RAL 7022 (Dark Gray)
- WEG paint plan: 201A

Optional Features

- Special voltages
- Specially dimensioned shaft
- Terminal Box with metric threaded cable entries
- Stainless steel shaft
- Double shaft
- F2 mount

NEMA MG1 Part 31

Inverter Duty
- Please call for specific ratings

APPROVED BY APPROVED BY

LR 38324

Saw Arbor Motors - Three Phase
Purchasing Data

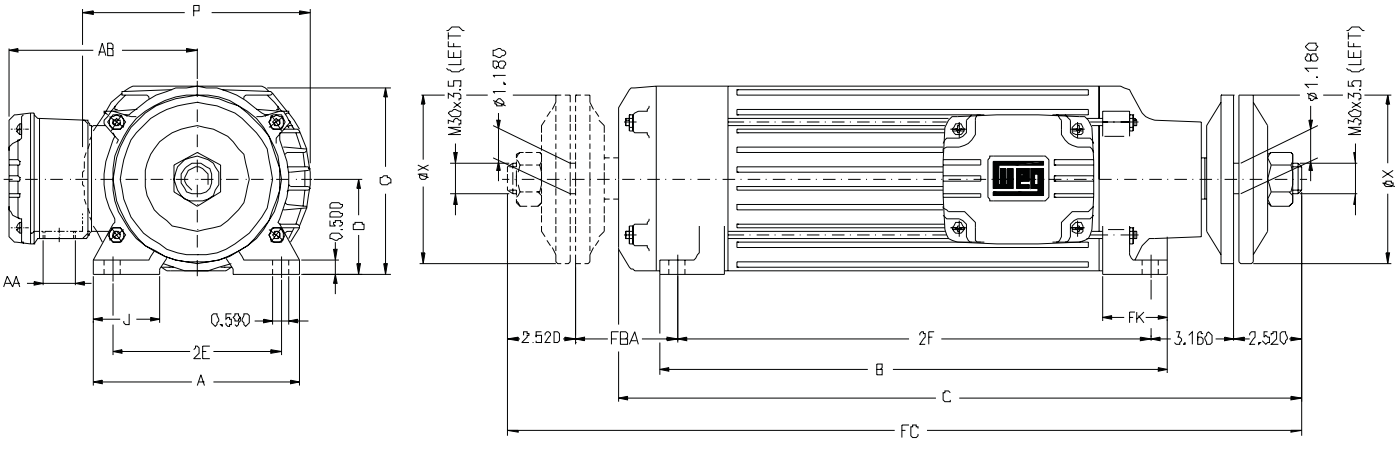
Rated Output		IEC Frame	List Price	Part Number	Full Load Current		Full Load Efficiency	Shipping Weight (lbs.)	Overall Length "C" Dimension (in.)
HP	RPM				460V	575V			
3	3600	80S	$1,003	SR003X02	4.29	3.43	80.5	95	18.543
5	3600	80M	1,337	SR005X02	6.65	5.32	85.0	106	20.512
	1800	90L	1,851	SR005X04	7.03	5.62	84.5	143	26.476
7.5	3600	80L	1,677	SR007X02	9.76	7.81	87.4	128	22.480
	1800	90L	2,065	SR007X04	10.1	8.11	85.3	165	26.476
10	3600	90L	2,339	SR010X02	12.3	9.83	85.0	154	26.476
	1800	90L	2,612	SR010X04	14.1	11.3	85.5	187	26.476

Shaft: Replace 'R' with 'L' for left side shaft
Voltage: Replace 'X' with '4' for 208–230/460V
Replace 'X' with '5' for 575V

Saw Arbor Motors - TEFC - Three Phase
Electrical Data

Rated Output		Full Load Speed (RPM)	IEC Frame	Full Load Current I_n(A)			Locked Rotor Current (A)		Full Load Torque T_n(lb.ft)	Locked Rotor Torque (T_l/T_n)	Break Down Torque (T_b/T_n)	Efficiency			Power Factor Cos			Service Factor SF	Moment of Inertia WK²(lb.ft²)	Allowable Locked Rotor Time (s)		Approx. Weight (lb)	Sound dB(A)
												% of full load											
HP	kW			230V	460V	575V	(kVA Code)	(I_l/I_n)				50	75	100	50	75	100			Hot	Cold		
3	2.2	3500	80S	8.58	4.29	3.43	K	7.3	4.44	3.3	3.7	76.0	79.5	80.5	0.65	0.75	0.80	1.00	0.07475	5	11	85	62
5	3.7	3470	80M	13.3	6.65	5.32	K	8.0	7.47	3.4	4.1	82.0	84.5	85.0	0.66	0.77	0.82	1.00	0.09777	5	11	99	62
		1740	90L	14.1	7.03	5.62	K	8.0	14.9	3.8	4.1	82.0	84.0	84.5	0.58	0.71	0.78	1.00	0.26601	6	13	143	51
7.5	5.5	3490	80L	19.5	9.76	7.81	L	9.2	11.1	4.0	4.6	85.2	87.0	87.4	0.64	0.75	0.81	1.00	0.14357	4	9	120	62
		1730	90L	20.3	10.1	8.11	K	8.2	22.5	3.7	4.0	83.5	85.0	85.3	0.60	0.74	0.80	1.00	0.33246	5	11	165	51
10	7.5	3480	90L	24.6	12.3	9.83	L	9.4	14.9	4.0	4.2	82.0	84.5	85.0	0.77	0.86	0.90	1.00	0.33222	5	11	166	68
		1720	90L	28.2	14.1	11.3	K	8.0	30.1	4.0	4.0	84.5	85.5	85.5	0.57	0.71	0.78	1.00	0.39890	4	9	178	51

Saw Arbor Motors - TEFC - Three Phase
Mechanical Data



IEC FRAMES	2E	J	A	P	AB	2F	FK	FK1	B	FBA	D	O	C	FC	AA	X	BEARINGS	
																	D.E.	O.D.E.
80S	7.480	1.378	8.858	7.480	5.984	10.236	1.772	1.772	12.008	3.150	3.150	6.063	18.543	22.440	NPT0.75"	4.724	6307-ZZ	6207-ZZ
80M						12.205			13.976				20.512	24.409				
80L						14.173			15.949				22.480	26.377				
90L	6.299	2.500	7.756	8.189	6.575	20.079	2.441	4.960	21.378	3.150	3.543	6.968	26.476	29.842	NPT1"	6.299	6308-ZZ	6208-ZZ

WEG Aggressive Duty Motors - TEFC
Purchasing data

WEG Aggressive Duty Motors for tough applications:

W21 Severe Duty IP55: The WEG W21 motor is a Severe Duty IP55 rated motor, that is Water-Proof as defined in NEMA MG1-2006 , Item 1.26.6.

W21 Severe Duty Features:

- Cast Iron Terminal Box, Double Gasketed
- Cast Iron Frame and Endbells
- WEG Paint Plan 201A
- Cast Iron Fan Cover 254/6T – 586/7T
- Compensated Drain/Breather
- Mild Steel fan cover 143/5T – 213/5T
- Polyrex EM grease
- Tropicalized
- Class F Insulation with a Non Hygroscopic Winding
- WEG Inverter Rated "WISE" Wire

1. Washdown:

Intended to increase the W21 Severe Duty motor's protection in a washdown/hosedown environment. The motor(s) will be hosed down and cleaned after a normal shift. This enhanced product is designed for a normal daily shift operation and not for intermittent duty and/or long periods of the motor being idle.

Washdown Duty Features:

- W21 features as above.
- Finish coat of Epoxylite 7001 or equivalent.
- Permatex Sealant on all mechanical joints that is not already gasketed.
- Rubber Membrane Sealing of the leads between the Stator and Terminal Box.
- Enlarged WEG External Shaft Seal – Slinger over the DE shaft

2. Aggressive Chemical Duty:

This addition to the VJP Washdown (as above) can be used for atmospheres that may contain traces of harsh chemical elements that could settle on and cause damage to the motor insulation system, which will be protected by a Dolph Epoxy Coating of the windings. Example: Electro Plating.

Aggressive "Chemical" Duty Features:

- W21 Features as above.
- All items as in Washdown
- Finish coat of Epoxylite 7001 or equivalent
- Dolph CB112B (Black) – 2 part epoxy coat on the winding coil heads.
- Rotor Epoxy Coated with Epoxylite.
- Double Sealed Bearings on the DE and NDE.
- This product does not define a Hazardous Location motor. For Hazloc motors please call our technical order desk.

NEMA MG1 Part 31

Inverter Duty Certified for:

- 12:1 CT
- 1000:1 VT*

* 449T and 586/7T frame sizes not included. Other speed ranges available. Call for specific ratings

APPROVED BY LR 38324 APPROVED BY CSA EEV 78282

WEG Aggressive Duty Motors - TEFC
Purchasing data

3. Marine Duty IP56

A typical application may be above deck and an intermittent duty cycle. The motor will be guarded against rain and splashing lake and/or sea water. Space Heaters will ensure the windings stay moisture free while the motor is off for long periods.

Marine Duty IP56 Features: Marine Duty (Above Deck) Motor

- W21 Features as above.
- Finish coat of Epoxylite 7001 or equivalent
- Shaft Seals. Oil or Lip Seals.
- Permatex Sealant on all mechanical joints that are not already gasketed.
- Rubber Membrane sealing of the leads between the Stator + Terminal Box.
- Enlarged WEG External Shaft Seal – Slinger over the DE shaft.
- Aluminum Fan.
- Space Heaters with Auxiliary T-Box.

4. Mining Duty IP65

Protected against the ingress of dust particles that could cause premature failure. The Space Heaters ensure moisture does not accumulate inside the motor due to the high degree of sealing.

Mining Duty Motor IP65 Features:

- W21 Features as above.
- Finish coat of Epoxylite 7001 or equivalent
- Labyrinth Shaft Seals.
- Permatex Sealant on all mechanical joints that is not already gasketed.
- Plugged (Threaded Plugs) Drain Holes in the Endbells.
- Space Heater with Auxiliary T-Box.

Price Adder to W22/W21 motor (pg. 6/23) per frame

NEMA Frame Size	Washdown Duty	Aggressive Chemical Duty	Marine Duty	Mining Duty
56	$184	$840	N/A	N/A
143/5T	228	870	$677	$946
182/4T	246	920	744	966
213/5T	263	980	820	1029
254/6T	316	896	933	1071
284/6T	377	992	1074	1235
324/6T	430	1,088	1168	1327

Optional Features - Price Adder to W22/W21 motor (pg. 6/23)

NEMA Frame Size	White USDA Finish Paint	Space Heaters	Space Heaters for Explosion Proof	Aluminum Fans	Double Sealed Bearings	Stainless Steel Shaft (316)	Cast Iron Covers
56	$66	N/A	N/A	$40	$165	N/A	N/A
143/5T	66	$289	$944	45	198	$600	$90
182/4T	77	289	944	76	231	700	100
213/5T	88	439	482	85	264	900	158
254/6T	99	439	482	122	319	1,050	standard
284/6T	110	439	482	124	363	1,200	standard
324/6T	132	439	570	171	424	1,500	standard

Parts
Purchasing data

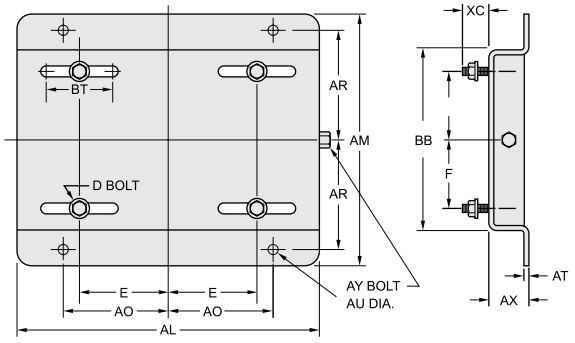
NEMA Frame	56	143/5	182/4	213/5	254/6	284/6	324/6	364/5	404/5	444/5/7	449	504/5	586/7	588/9
Equivalent IEC Metric Frame	–	90	100/112	132	160	180	200	225	250	280	–	315	355	
Part														
'C' Flange - ODP	$40	$63	$71	$81	$157	$193	$233	$502	$502	$785	•	•	•	•
'D' Fange - ODP	•	•	•	•	$184	$238	$278	$632	$632	$817	•	•	•	•
'C' Flange - W22 TEFC	•	$74	$84	$95	$185	$227	$274	$591	$591	$924	$1,296	$1,182	$2,386	$2,386
'D' Flange - W22 TEFC	•	$84	$90	$100	$216	$280	$327	$744	$744	$961	$1,359	$1,198	$2,565	$2,565
'C' Flange - TEFC	$40	$74	$84	$95	$185	$227	$274	$591	$591	$924	$1,296	$1,182	$2,386	•
'D' Flange - TEFC	•	$84	$90	$100	$216	$280	$327	$744	$744	$961	$1,359	$1,198	$2,565	•
'C' Flange - IEEE 841-2009	•	$180	$240	$250	$280	$290	$340	$692	$692	$1,064	•	$1,224	$2,451	$2,451
'D' Flange - IEEE 841-2009	•	$198	$264	$278	$308	$319	$374	$761	$761	$1,170	•	$1,346	$2,696	$2,696
'C' Flange - Explosion Proof	$55	$158	$222	$285	$433	$475	$581	$1,087	$1,087	$1,678	$2,181	$2,174	$3,066	•
'D' Flange - Explosion Proof	•	$253	$269	$311	$443	$559	$686	$1,362	$1,362	$1,752	$2,278	$2,196	$3,165	•
'B14' Flange (C) - Metric	•	$84	$95	$106	$201	$243	$296	$644	•	•	•	•	•	•
'B5" Flange (D) - Metric	•	$95	$100	$111	$232	$306	$359	$823	•	•	•	•	•	•
Endshields - Drive End TEFC	$27	$34	$51	$84	$120	$139	$209	$273	$273	$407	$488	$407	$1,228	•
Endshields - Non-Drive End TEFC	$27	$34	$84	$129	$152	$169	$274	$340	$340	$492	$590	$492	$1,564	•
Endshields - Drive End ODP	$24	$31	$46	$76	$108	$125	$188	$246	$246	$366	•	•	•	•
Endshields - Non-Drive End ODP	$24	$31	$76	$116	$137	$152	$247	$306	$306	$443	•	•	•	•
Fan - Plastic	$20	$23	$26	$32	$65	$76	$165	$226	$226	$370	$478	$370	•	
Fan - Metal	•	$30	$34	$40	$76	$93	$171	$283	$283	$462	$598	$462	$894	$894
Fan - Bronze	•	$72	$112	$116	$236	$254	$294	$336	$336	$384	$596	$384	$665	$665
Fan Cover	$32	$40	$49	$66	$112	$150	$194	$264	$382	$627	$784	$627	$1,490	$1,490
Fan Cover - W22	$32	$40	$49	$66	$112	$150	$194	$264	$382	$627	$784	$627	$1,490	$1,490
Fan Cover - Explosion Proof	•	$50	$61	$83	$139	$188	$243	$329	$478	$784	$1,421	$784	$1,863	•
Terminal Box - TEFC	$27	$51	$68	$68	$103	$103	$152	$215	$215	$340	$488	$407	$1,026	•
Terminal Box - W22	$27	$51	$68	$68	$103	$103	$152	$215	$215	$340	$488	$407	$1,026	$1,026
Terminal Box - ODP	$24	$46	$61	$61	$93	$93	$137	$194	$194	$306	•	•	•	•
Terminal Box - Explosion Proof	$48	$72	$93	$117	$164	$192	$293	$378	$425	$425	$563	$1,560	$1,790	•
Bearing Cap Kit - Internal & External D.E. & N.D.E.	•	•	•	•	•	•	$442	$442	$442	$442	$496	$442	$580	$580
Bearing Cap - Internal D.E. or External N.D.E	•	$36	$36	$36	$86	$106	•	•	•	•	•	•	•	•
Centrifugal Switch	$26	$26	$26	$26	•	•	•	•	•	•	•	•	•	•
Stationary Switch	$26	$26	$37	$37	•	•	•	•	•	•	•	•	•	•
Tachonite Seal	$98	$112	$126	$144	$164	$184	$196	$264	$347	$527	$568	$527	$686	$686
Drip Cover	$40	$60	$75	$80	$90	$130	$150	$280	$280	$320	$426	$320	$560	$560
Thermistor Relay	$410	$410	$410	$410	$410	$410	$410	$410	$410	$410	$410	$410	$410	$410

Motor Bases
Purchasing data

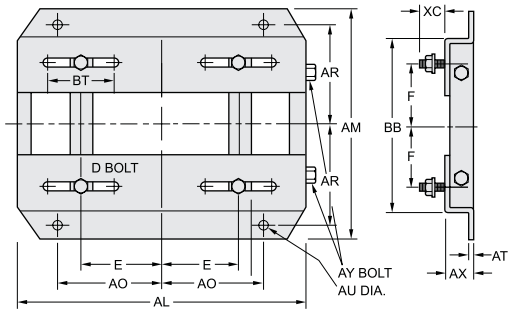
Adjustable Motor Bases - NEMA 56 - 587T Frames

NEMA Frame	List Price	Part Number	AL	AM	AX	BB	E	F	AO	AR	AU	BT	AT	XC	D Bolt	AY Bolt	Shipping Weight
143T	$82	SB143DAB	10 1/2	7 1/2	1 1/8	5 1/2	2 3/4	2	3 3/4	3 3/8	3/8	3	0.119	13/16	5/15 x 1	3/8 x 4	5
145T	82	SB145DAB	10 1/2	8 1/2	1 1/8	6 1/2	2 3/4	2 1/2	3 3/4	3 7/8	3/8	3	0.199	13/16	5/15 x 1	3/8 x 4	6
182T	114	SB182DAB	12 3/4	9 1/2	1 1/2	6 1/2	3 3/4	2 1/4	4 1/2	4 1/4	1/2	3	0.134	1 1/2	3/8 x 1 3/4	1/2 x 5	9
184T	114	SB184DAB	12 3/4	10 1/2	1 1/2	7 1/2	3 3/4	2 3/4	4 1/2	4 3/4	1/2	3	0.134	1 1/2	3/8 x 1 3/4	1/2 x 5	9
213T	126	SB213DAB	15	11	1 3/4	7 1/2	4 1/4	2 3/4	5 1/4	4 3/4	1/2	3 1/2	0.164	1 1/2	3/8 x 1 3/4	1/2 x 5	13
215T	126	SB215DAB	15	12 1/2	1 3/4	9	4 1/4	3 1/2	5 1/4	5 1/2	1/2	3 1/2	0.164	1 1/2	3/8 x 1 3/4	1/2 x 5	15
254T	128	SB254DAB	17 3/4	15 1/8	2	10 3/4	5	4 1/8	6 1/4	6 5/8	5/8	4	3/16	1 7/16	1/2 x 1 3/4	5/8 x 6	17
256T	128	SB256DAB	17 3/4	16 7/8	2	12 1/2	5	5	6 1/4	7 1/2	5/8	4	3/16	1 7/16	1/2 x 1 3/4	5/8 x 6	18
284T	140	SB284DAB	19 3/4	16 7/8	2	12 1/2	5 1/4	4 3/4	7	7 1/2	5/8	4 1/2	3/16	1 11/16	1/2 x 2	5/8 x 6	21
286T	140	SB286DAB	19 3/4	18 3/8	2	14	5 1/4	5 1/2	7	8 1/4	5/8	4 1/2	3/16	1 11/16	1/2 x 2	5/8 x 6	22
324T	184	SB324DAB	22 3/4	19 1/4	2 1/2	14	6 1/4	5 1/4	8	8 1/2	3/4	5 1/4	3/16	2 3/16	5/8 x 2 1/2	3/4 x 9	31
326T	184	SB326DAB	22 3/4	20 3/4	2 1/2	15 1/2	6 1/4	6	8	9 1/4	3/4	5 1/4	3/16	2 3/16	5/8 x 2 1/2	3/4 x 9	32
364T	264	SB364DAB	25 1/2	20 1/2	2 1/2	15 1/2	7	5 5/8	9	9 1/8	3/4	6	1/4	2 1/16	5/8 x 2 1/2	3/4 x 9	44
365T	264	SB365DAB	25 1/2	21 1/2	2 1/2	16 1/2	7	6 1/8	9	9 5/8	3/4	6	1/4	2 1/16	5/8 x 2 1/2	3/4 x 9	45
404T	328	SB404DAB	28 3/4	22 3/8	3	16 1/2	8	6 1/8	10	9 7/8	7/8	7	1/4	2 1/2	3/4 x 3	3/4 x 11	60
405T	328	SB405DAB	28 3/4	23 7/8	3	18	8	6 7/8	10	10 5/8	7/8	7	1/4	2 1/2	3/4 x 3	3/4 x 11	61
444T	604	SB444DAB	31 1/4	24 5/8	3	19 1/4	9	7 1/4	11	11	7/8	7 1/2	1/4	2 1/2	3/4 x 3	3/4 x 11	68
445T	604	SB445DAB	31 1/4	26 5/8	3	21 1/4	9	8 1/4	11	12	7/8	7 1/2	1/4	2 1/2	3/4 x 3	3/4 x 11	73
447T	688	SB447DAB	31 1/4	30 1/8	3	24 3/4	9	10	11	13 3/4	7/8	7 1/2	5/16	2 1/2	3/4 x 3	3/4 x 14	89
449T	688	SB449DAB	31 1/4	35 1/8	3	29 3/4	9	12 1/2	11	16 1/4	7/8	7 1/2	5/16	2 1/2	3/4 x 3	3/4 x 14	95
504T	1,044	SB504DAB	35	28	3 1/2	20 3/4	10	8	12 1/2	12 1/2	1	8	5/16	3	7/8 x 3 1/2	7/8 x 16	132
505T	1,044	SB505DAB	35	30	3 1/2	22 3/4	10	9	12 1/2	13 1/2	1	8	5/16	3	7/8 x 3 1/2	7/8 x 16	135
586T	1,194	SB586DAB	586/7T sizes available on request														
587T	1,194	SB587DAB															

Dimensions are in inches



NEMA 56 - 215T



NEMA 213T - 447T

Transition Bases

NEMA Frame	converts to	U Number	List Price	Part Number	Shipping Weight	Height	Width	Length	Thread
143T/145T		182/184	$46	TR1814TT	2	1	2 1/4	7 1/2	5/16 - 18
182T/184T		213/215	52	TR2118TT	3	3/4	1 3/4	9 1/2	3/8 - 16
213T/215T		254U/256U	58	TR25U21T	5	1	2 7/16	12 3/4	3/8 - 16
254T/256T		284U/286U	74	TR28U25T	8	3/4	2 3/4	14 1/4	1/2 - 13
284T/286T		324U/326U	108	TR32U28T	10	1	3 1/4	15 3/4	1/2 - 13
324T/326T		364U/365U	128	TR36U32T	13	1	3 11/16	16 1/2	5/8 - 11
364T/365T		404U/405U	142	TR40U36T	22	1	4 1/4	18 5/8	5/8 - 11
404T/405T		444U/445U	182	TR44U40T	24	1	4 1/4	21 5/8	3/4 - 10

Dimensions are in inches

WEG Painting Plans

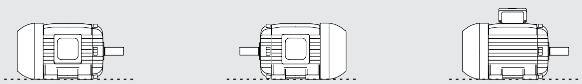
Regular environment, not too severe, sheltered or not, for industrial purpose with low relative humidity, normal temperature variations and SO2 presence. **Note**: Not recommended for direct exposure to acid vapors, alkalis and solvents. Specific use recommendation: The 201 plan (standard plan) is indicated for normal manufacturing line motors.	201A	**Primer** Steel surface: a layer with 60 to 80 /urn of polyester powder coating. Cast Iron Surface: a coating with 20 to 55 /um of synthetic alkyd primer. Finish Coat: one coating with 40 to 60 /um of synthetic alkyd enamel.	TOP-1901
Severe industrial environment, sheltered or not. May have presence of SO2, vapors and solid contaminating and high humidity. Indicated for application in pulp and paper, mining and chemical industries.	202E	**Primer** Steel Surface: A layer with 60 to 80 /um of polyester powder coating. Cast Iron Surface: a coating with 20 to 55 /um of synthetic alkyd primer. Intermediate: a coating with 20 to 30 /um of isocyanate epoxy primer, only for FoFo and aluminum surfaces (except for surfaces with powder coating). Finish coat: a coating with 100 to 140/um of high thickness epoxy polyamid finishing.	TOP-2248
Severe industrial environments, sheltered or not, may have presence of SO2, vapors and solid contaminating and high humidity. Specific use recommendations: Indicated for application in food processing motors - USA	202P	**Primer** Steel Surface: A layer with 60 to 80 /um of polyester powder coating. Cast Iron Surface: a coating with 20 to 55 /um of alkyd synthetic primer. Intermediate: a coating with 20 to 30 /um of isocyanate epoxy primer, only for FoFo and aluminum surfaces (except for surfaces with powder coating). Finish Coat: a coating with 60 to 100/um of aliphatic polyurethane primer	TOP-2248
Regular environment, not too severe, sheltered or not, for industrial purpose, with low relative humidity, normal temperature variations and SO2 presence. **Note**: 1-Not recommended for direct exposure to acid vapors, alkalis and solvents. 2-Do not apply the 203 plan in motors with steel plate frames.	203A	**Primer** Steel Surface: A layer with 60 to 80 /um of polyester powder coating. Cast Iron Surface: a coating with 20 to 55 /um of alkyd synthetic primer. Finish Coat: a coating with 50 to 70 /um of synthetic alkyd enamel.	TOP-1901
Regular environments, not too severe and sheltered, for domestic purpose, with low relative humidity, and normal temperature variations. **Note**: Not recommended for direct exposure to acid vapors, alkalis and solvents. Specific use recommendations: For application in motors with steel plate frames, in which packaging process demands quick drying painting.	207A	**Primer** Steel Surface: A layer with 60 to 80 /um of polyester powder coating. Cast Iron Surface: a coating with 20 to 55 /um of alkyd synthetic primer Finish Coat: a coating with 30 to 40 /um of Synthetic Styrene Alkyd enamel	TOP-3351
Regular environments, not too severe and sheltered, for domestic purpose, with low relative humidity, and normal temperature variations. **Note**: Not recommended for direct exposure to acid vapors, alkalis and solvents. Specific use recommendations: For application in motors with steel plate frames, in which packaging process demands quick drying painting.	207N	**Primer** Steel Surface: A layer with 60 to 80 /um of polyester powder coating. Cast Iron Surface: a coating with 20 to 55 /um of alkyd synthetic primer. Finish Coat: a coating with 30 to 40 /um of nitrocellulose finishing, (for motors with aluminum components, the finishing paint must be catalized with 610.0005).	TOP-387
Severe industrial environment, sheltered, may have presence of SO2, vapors and solid contaminating, high humidity and alkalis and solvent spills. Indicated for motors destinated to Petrobras and its suppliers, for refineries purpose, as well as petrochemical industries that adopt the Petrobras specifications.	211E	**Primer** Steel and Cast Iron Surface: a coating with 100 to 140 /um of Polyamide Epoxy Primer. Finish Coat: a coating with 100 to 140 /um each of Polyamide Epoxy Top Coat.	TOP-2248
Severe industrial environment, sheltered or not, may have presence of SO2, Vapors and solid contaminating and high humidity. Indicated for motors destinated to Petrobrâs and its suppliers, for refineries purpose, as well as petrochemical industries that adopt the Petrobrâs specifications.	211P	**Primer** Steel and Cast Iron Surface: a coating with 100 to 140 /urn of Polyamide Epoxy Primer. Finish Coat: a coating with 70 to 100 /urn each of aliphatic polyurethane enamel.	TOP-2248
Aggressive Marine or Industrial Marine environments, sheltered, may have high humidity. Indicated for applications in pulp and paper, mining and petrochemical industries. **Note**: Meets standard Petrobrâs N1735 (condition 4).	212E	**Primer** Steel and Cast Iron Surface: a coating with 75 to 105 / um of zinc ethyl silicate (except for the aluminum parts). Intermediate: a coating with 100 to 140 /um of epoxy polyamide. Finish Coat: a coating with 100 to 140 /um each of Polyamide Epoxy Top Coat.	TOP-552
Aggressive Marine or Industrial Marine environments, sheltered, may have high humidity. Indicated for applications in pulp and paper, mining and petrochemical industries. **Note**: Meets standard Petrobrâs N1735 (condition 4).	212P	**Primer** Steel and Cast Iron Surface: a coating with 75 to 105 /um of epoxy zinc rich (except for aluminum parts). Intermediate: a coating with 100 to 140 /um of epoxy polyamide. Finish Coat: a coating with 70 to 100 /um of Aliphatic Polyurethane Enamel.	TOP-552
Aggressive Marine or Industrial Marine environments, sheltered, may have high humidity. Indicated for applications in pulp and paper, mining and petrochemical industries. **Note**: Meets standard Petrobrâs N1735 (condition 4).	213	**Primer** Steel and Cast Iron Surface: a coating with 70 to 90 / um of zinc ethyl silicate. Intermediate: a coating with 35 to 50 /um of epoxy oxide iron. Finish Coat: a coating with 240 to 336 /um of Polyamide Epoxy Top Coat.	TOP-3491

Notes:
1) For components manufactured in aluminum, primer application is not necessary, although, the component must be sand–blasted;
2) In case the client request the Plan 204 without finish coat, the motor must be provided painted with Primer and Intermediate composition;
3) Motors that have aluminum parts (cover and/or frames) must have these parts painted only with finish coat paint of Plan 207.

Standard Mounting Configurations

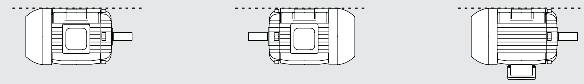
NEMA Standard Mounting Configurations

Floor Mountings



Assembly F-1 | Assembly F-2 | Assembly F-3

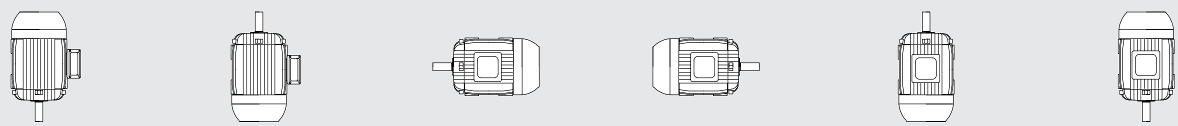
Ceiling Mountings



Assembly C-1 | Assembly C-2 | Assembly C-3

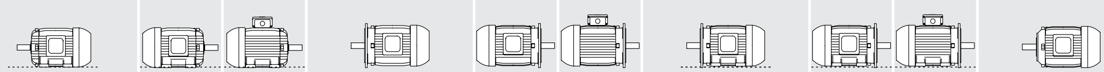
Wall Mountings

Assembly W-1 | Assembly W-2 | Assembly W-3 | Assembly W-4 | Assembly W-5 | Assembly W-6

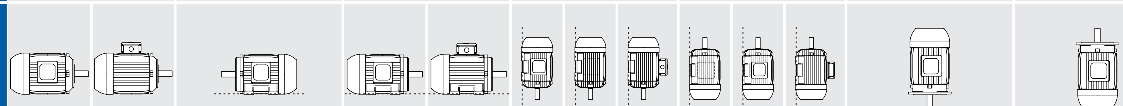


Assembly W-7 | Assembly W-8 | Assembly W-9 | Assembly W-10 | Assembly W-11 | Assembly W-12

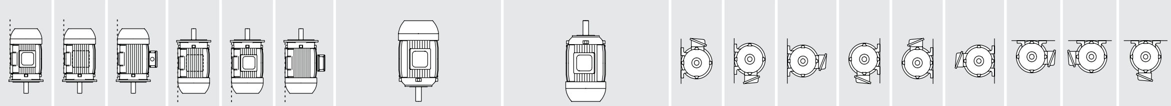
IEC Standard Mounting Configurations



Assembly	Reference	B3R	B3L, B3T	B5R	B5L, B5T	B35R	B35L, B35T	B14R
Details	Frame	With Feet	With Feet	Without Feet	Without Feet	With Feet	With Feet	Without Feet
Details	Mounting	Base or Rails	Base or Rails	Flange FF	Flange FF	Base or Flange FF	Base or Flange FF	Flange FC



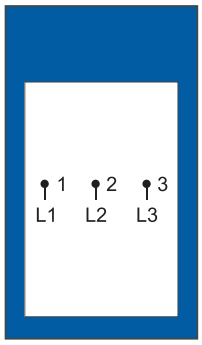
Assembly	Reference	B14L, B14T	B34R	B34L, B34T	V5L, V5R, V5T	V6L, V6R, V6T	V1L	V3L
Details	Frame	Without Feet	With Feet	With Feet	With Feet	With Feet	Without Feet	Without Feet
Details	Mounting	Flange FC	Base or Flange FC	Base or Flange FC	Wall	Wall	Flange FF	Flange FF



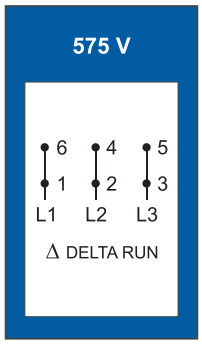
Assembly	Reference	V15L, V15R, V15T	V36L, V36R, V36T	V18L	V19L	B6L, B6R, B6T	B7L, B7R, B7T	B8L, B8R, B8T
Details	Frame	With Feet	With Feet	Without Feet	Without Feet	With Feet	With Feet	With Feet
Details	Mounting	Wall or Flange FF	Wall or Flange FF	Flange C	Flange C	Wall	Wall	Ceiling

Three Phase Wiring Diagrams

Single Voltage
3 Leads

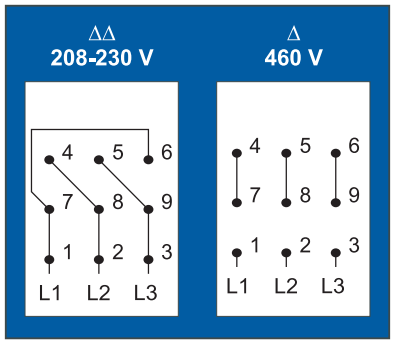


6 Leads

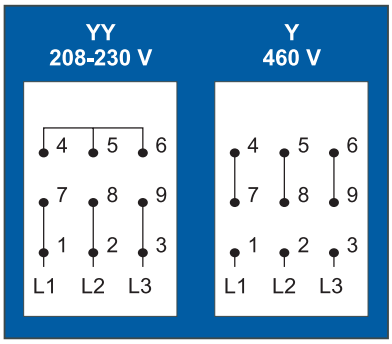


This page is for information only.
It is imperative that motors only be connected as per the nameplate connection diagram found on the specific motor.

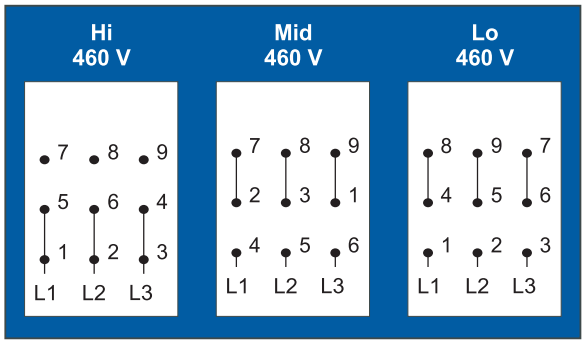
9 Leads



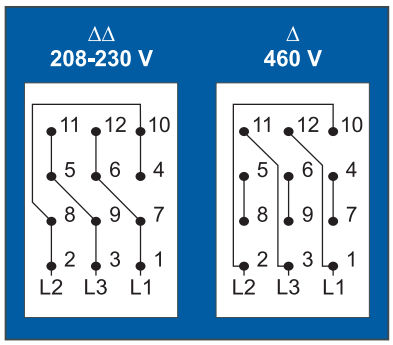
9 Leads



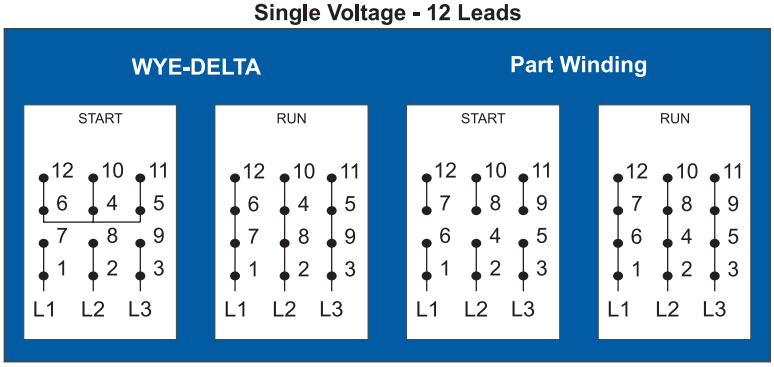
Oil Well Pumping - 9 Leads



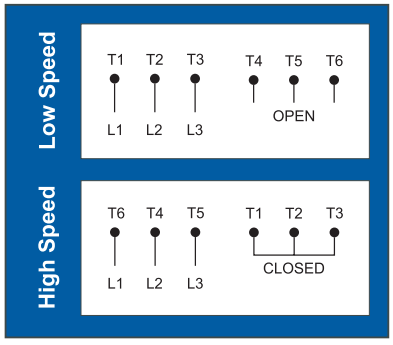
12 Leads



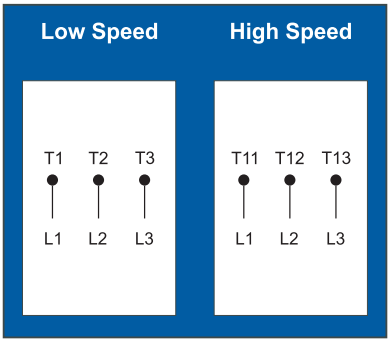
Single Voltage - 12 Leads



Variable Torque or Constant Torque
2 Speed - 1 Winding, 3 Phase Single Voltage



Variable Torque or Constant Torque
2 Speed - 2 Winding, 3 Phase Single Voltage



Soft Starter and Direct on-line Starter Sizing Guide

HP	RPM	Frame	Voltage	WEG Matched Soft Starter											
				Direct–on–line Starter			SSW 05			SSW 06			SSW 07		
				230V	460V	575V	230V	460V	575V	230V	460V	575V	230V	460V	575V
1	3600	143T	208-230/460 & 575V	PESW-9V24AX-R26	PESW-9V47AX-R24	PESW-9V56AX-R24				SSW0600102X5					
	1800	143T	208-230/460 & 575V	PESW-9V24AX-R26	PESW-9V47AX-R24	PESW-9V56AX-R24				SSW0600102X5					
	1200	145T	208-230/460 & 575V	PESW-9V24AX-R26	PESW-9V47AX-R24	PESW-9V56AX-R24				SSW0600102X5					
	900	182T	208-230/460 & 575V	PESW-9V24AX-R26	PESW-9V47AX-R24	PESW-9V56AX-R24				SSW0600102X5					
1.5	3600	143T	208-230/460 & 575V	PESW-9V24AX-R27	PESW-9V47AX-R25	PESW-9V56AX-R25		SSW05003575	SSW05003575	SSW0600102X5					
	1800	145T	208-230/460 & 575V	PESW-9V24AX-R27	PESW-9V47AX-R25	PESW-9V56AX-R25		SSW05003575	SSW05003575	SSW0600102X5					
	1200	182T	208-230/460 & 575V	PESW-9V24AX-R27	PESW-9V47AX-R25	PESW-9V56AX-R25		SSW05003575	SSW05003575	SSW0600102X5					
	900	184T	208-230/460 & 575V	PESW-9V24AX-R27	PESW-9V47AX-R25	PESW-9V56AX-R25		SSW05003575	SSW05003575	SSW0600102X5					
2	3600	145T	208-230/460 & 575V	PESW-9V24AX-R28	PESW-9V47AX-R26	PESW-9V56AX-R25			SSW05003575	SSW0600102X5					
	1800	145T	208-230/460 & 575V	PESW-9V24AX-R28	PESW-9V47AX-R26	PESW-9V56AX-R25			SSW05003575	SSW0600102X5					
	1200	184T	208-230/460 & 575V	PESW-9V24AX-R28	PESW-9V47AX-R26	PESW-9V56AX-R25			SSW05003575	SSW0600102X5					
	900	213T	208-230/460 & 575V	PESW-9V24AX-R28	PESW-9V47AX-R26	PESW-9V56AX-R25			SSW05003575	SSW0600102X5					
3	3600	W182T	208-230/460 & 575V	PESW-9V24AX-R29	PESW-9V47AX-R27	PESW-9V56AX-R26	SSW050102X4	SSW05010575		SSW0600102X5	SSW0600102X5	SSW0600102X5	SSW0700172X5		
	1800	W182T	208-230/460 & 575V	PESW-9V24AX-R29	PESW-9V47AX-R27	PESW-9V56AX-R26	SSW050102X4	SSW05010575		SSW0600102X5	SSW0600102X5	SSW0600102X5	SSW0700172X5		
	1200	213T	208-230/460 & 575V	PESW-9V24AX-R29	PESW-9V47AX-R27	PESW-9V56AX-R26	SSW050102X4	SSW05010575		SSW0600102X5	SSW0600102X5	SSW0600102X5	SSW0700172X5		
	900	215T	208-230/460 & 575V	PESW-9V24AX-R29	PESW-9V47AX-R27	PESW-9V56AX-R26	SSW050102X4	SSW05010575		SSW0600102X5	SSW0600102X5	SSW0600102X5	SSW0700172X5		
5	3600	184T	208-230/460 & 575V	PESW-18V24AX-R32	PESW-9V47AX-R28	PESW-9V56AX-R27	SSW050162X4	SSW05010575	SSW05010575	SSW0600162X5	SSW0600102X5	SSW0600102X5	SSW0700172X5	SSW0700172X5	SSW0700172X5
	1800	184T	208-230/460 & 575V	PESW-18V24AX-R32	PESW-9V47AX-R28	PESW-9V56AX-R27	SSW050162X4	SSW05010575	SSW05010575	SSW0600162X5	SSW0600102X5	SSW0600102X5	SSW0700172X5	SSW0700172X5	SSW0700172X5
	1200	215T	208-230/460 & 575V	PESW-18V24AX-R32	PESW-9V47AX-R28	PESW-9V56AX-R27	SSW050162X4	SSW05010575	SSW05010575	SSW0600162X5	SSW0600102X5	SSW0600102X5	SSW0700172X5	SSW0700172X5	SSW0700172X5
	900	254T	208-230/460 & 575V	PESW-18V24AX-R32	PESW-9V47AX-R28	PESW-9V56AX-R27	SSW050162X4	SSW05010575	SSW05010575	SSW0600162X5	SSW0600102X5	SSW0600102X5	SSW0700172X5	SSW0700172X5	SSW0700172X5
7.5	3600	213T	208-230/460 & 575V	PESW-25V24AX-R33	PESW-12V47AX-R30	PESW-9V56AX-R29	SSW050232X4	SSW05016575	SSW05010575	SSW0600232X5	SSW0600162X5	SSW0600102X5	SSW0700242X5	SSW0700172X5	SSW0700172X5
	1800	213T	208-230/460 & 575V	PESW-25V24AX-R33	PESW-12V47AX-R30	PESW-9V56AX-R29	SSW050232X4	SSW05016575	SSW05010575	SSW0600232X5	SSW0600162X5	SSW0600102X5	SSW0700242X5	SSW0700172X5	SSW0700172X5
	1200	254T	208-230/460 & 575V	PESW-25V24AX-R33	PESW-12V47AX-R30	PESW-9V56AX-R29	SSW050232X4	SSW05016575	SSW05010575	SSW0600232X5	SSW0600162X5	SSW0600102X5	SSW0700242X5	SSW0700172X5	SSW0700172X5
	900	256T	208-230/460 & 575V	PESW-32V24AX-R33	PESW-12V47AX-R30	PESW-9V56AX-R29	SSW050232X4	SSW05016575	SSW05010575	SSW0600232X5	SSW0600162X5	SSW0600102X5	SSW0700242X5	SSW0700172X5	SSW0700172X5
10	3600	215T	208-230/460 & 575V	PESW-32V24AX-R34	PESW-18V47AX-R32	PESW-12V56AX-R30	SSW050302X4	SSW05016575	SSW05016575	SSW0600302X5	SSW0600162X5	SSW0600162X5	SSW0700302X5	SSW0700172X5	SSW0700172X5
	1800	215T	208-230/460 & 575V	PESW-32V24AX-R34	PESW-18V47AX-R32	PESW-12V56AX-R30	SSW050302X4	SSW05016575	SSW05016575	SSW0600302X5	SSW0600162X5	SSW0600162X5	SSW0700302X5	SSW0700172X5	SSW0700172X5
	1200	256T	208-230/460 & 575V	PESW-32V24AX-R34	PESW-18V47AX-R32	PESW-12V56AX-R30	SSW050302X4	SSW05016575	SSW05016575	SSW0600302X5	SSW0600162X5	SSW0600162X5	SSW0700302X5	SSW0700172X5	SSW0700172X5
	900	284T	208-230/460 & 575V	PESW-32V24AX-R34	PESW-18V47AX-R32	PESW-12V56AX-R30	SSW050302X4	SSW05016575	SSW05016575	SSW0600302X5	SSW0600162X5	SSW0600162X5	SSW0700302X5	SSW0700172X5	SSW0700172X5
15	3600	254T	208-230/460 & 575V	PESW-40V24AX-R35	PESW-25V47AX-R33	PESW-18V56AX-R32	SSW050452X4	SSW05023575	SSW05023575	SSW0600452X5	SSW0600232X5	SSW0600162X5	SSW0700452X5	SSW0700242X5	SSW0700172X5
	1800	254T	208-230/460 & 575V	PESW-40V24AX-R35	PESW-25V47AX-R33	PESW-18V56AX-R32	SSW050452X4	SSW05023575	SSW05023575	SSW0600452X5	SSW0600232X5	SSW0600162X5	SSW0700452X5	SSW0700242X5	SSW0700172X5
	1200	284T	208-230/460 & 575V	PESW-40V24AX-R35	PESW-25V47AX-R33	PESW-18V56AX-R32	SSW050452X4	SSW05023575	SSW05023575	SSW0600452X5	SSW0600232X5	SSW0600162X5	SSW0700452X5	SSW0700242X5	SSW0700172X5
	900	286T	208-230/460 & 575V	PESW-50V24AX-R36	PESW-32V47AX-R33	PESW-18V56AX-R32	SSW050452X4	SSW05023575	SSW05023575	SSW0600452X5	SSW0600232X5	SSW0600162X5	SSW0700452X5	SSW0700242X5	SSW0700172X5
20	3600	256T	208-230/460 & 575V	PESW-65V24AX-R39	PESW-32V47AX-R34	PESW-32V56AX-R33	SSW050602X4	SSW05030575	SSW05023575	SSW0600602X5	SSW0600302X5	SSW0600232X5	SSW0700612X5	SSW0700302X5	SSW0700242X5
	1800	256T	208-230/460 & 575V	PESW-65V24AX-R39	PESW-32V47AX-R34	PESW-32V56AX-R33	SSW050602X4	SSW05030575	SSW05023575	SSW0600602X5	SSW0600302X5	SSW0600232X5	SSW0700612X5	SSW0700302X5	SSW0700242X5
	1200	286T	208-230/460 & 575V	PESW-65V24AX-R39	PESW-32V47AX-R34	PESW-32V56AX-R33	SSW050602X4	SSW05030575	SSW05023575	SSW0600602X5	SSW0600302X5	SSW0600232X5	SSW0700612X5	SSW0700302X5	SSW0700242X5
	900	324T	208-230/460 & 575V	PESW-65V24AX-R39	PESW-32V47AX-R34	PESW-32V56AX-R33	SSW050602X4	SSW05030575	SSW05023575	SSW0600602X5	SSW0600302X5	SSW0600232X5	SSW0700612X5	SSW0700302X5	SSW0700242X5
25	3600	284TS	208-230/460 & 575V	PESW-80V24AX-R41	PESW-40V47AX-R35	PESW-32V56AX-R34		SSW05045575	SSW05030575	SSW0600852X5	SSW0600452X5	SSW0600302X5	SSW0700852X5	SSW0700452X5	SSW0700302X5
	1800	284T	208-230/460 & 575V	PESW-80V24AX-R41	PESW-40V47AX-R35	PESW-32V56AX-R34		SSW05045575	SSW05030575	SSW0600852X5	SSW0600452X5	SSW0600302X5	SSW0700852X5	SSW0700452X5	SSW0700302X5
	1200	324T	208-230/460 & 575V	PESW-80V24AX-R41	PESW-40V47AX-R35	PESW-32V56AX-R34		SSW05045575	SSW05030575	SSW0600852X5	SSW0600452X5	SSW0600302X5	SSW0700852X5	SSW0700452X5	SSW0700302X5
	900	326T	208-230/460 & 575V	PESW-80V24AX-R41	PESW-50V47AX-R36	PESW-32V56AX-R34		SSW05045575	SSW05030575	SSW0600852X5	SSW0600452X5	SSW0600302X5	SSW0700852X5	SSW0700452X5	SSW0700302X5

30	3600	286TS	208-230/460 & 575V	PESW-95V24AX-R43	PESW-50V47AX-R36	PESW-50V56AX-R36	SSW050852X4	SSW05045575	SSW05045575	SSW060852X5	SSW0600452X5	SSW0600302X5	SSW0700852X5	SSW0700452X5	SSW0700302X5
	1800	286T	208-230/460 & 575V	PESW-95V24AX-R43	PESW-50V47AX-R38	PESW-50V56AX-R36	SSW050852X4	SSW05045575	SSW05045575	SSW060852X5	SSW0600452X5	SSW0600302X5	SSW0700852X5	SSW0700452X5	SSW0700302X5
	1200	326T	208-230/460 & 575V	PESW-95V24AX-R43	PESW-50V47AX-R38	PESW-50V56AX-R36	SSW050852X4	SSW05045575	SSW05045575	SSW060852X5	SSW0600452X5	SSW0600302X5	SSW0700852X5	SSW0700452X5	SSW0700302X5
	900	364/5T	208-230/460 & 575V	PESW-95V24AX-R43	PESW-50V47AX-R38	PESW-50V56AX-R36	SSW050852X4	SSW05045575	SSW05045575	SSW060852X5	SSW0600452X5	SSW0600302X5	SSW0700852X5	SSW0700452X5	SSW0700302X5
40	3600	324TS	208-230/460 & 575V	PESW-105V24AX-R45	PESW-65V47AX-R39	PESW-50V56AX-R38		SSW05060575	SSW05045575	SSW061302X5	SSW0600602X5	SSW0600452X5	SSW0701302X5	SSW0700612X5	SSW0700452X5
	1800	324T	208-230/460 & 575V	PESW-105V24AX-R45	PESW-65V47AX-R39	PESW-50V56AX-R38		SSW05060575	SSW05045575	SSW061302X5	SSW0600602X5	SSW0600452X5	SSW0701302X5	SSW0700612X5	SSW0700452X5
	1200	364/5T	208-230/460 & 575V	PESW-105V24AX-R45	PESW-65V47AX-R39	PESW-50V56AX-R38		SSW05060575	SSW05045575	SSW061302X5	SSW0600602X5	SSW0600452X5	SSW0701302X5	SSW0700612X5	SSW0700452X5
	900	364/5T	208-230/460 & 575V	PESW-105V24AX-R45	PESW-65V47AX-R39	PESW-50V56AX-R38		SSW05060575	SSW05045575	SSW061302X5	SSW0600602X5	SSW0600452X5	SSW0701302X5	SSW0700612X5	SSW0700452X5
50	3600	326TS	208-230/460 & 575V		PESW-80V47AX-R41	PESW-65V56AX-R39		SSW05085575	SSW05060575	SSW061302X5	SSW060852X5	SSW0600602X5	SSW0701302X5	SSW0700612X5	SSW0700612X5
	1800	326T	208-230/460 & 575V		PESW-80V47AX-R41	PESW-65V56AX-R39		SSW05085575	SSW05060575	SSW061302X5	SSW060852X5	SSW0600602X5	SSW0701302X5	SSW0700612X5	SSW0700612X5
	1200	364/5T	208-230/460 & 575V		PESW-80V47AX-R41	PESW-65V56AX-R39		SSW05085575	SSW05060575	SSW061302X5	SSW060852X5	SSW0600602X5	SSW0701302X5	SSW0700612X5	SSW0700612X5
	900	404/5T	208-230/460 & 575V		PESW-80V47AX-R41	PESW-65V56AX-R39		SSW05085575	SSW05060575	SSW061302X5	SSW060852X5	SSW0600602X5	SSW0701302X5	SSW0700612X5	SSW0700612X5
60	3600	364/5TS	208-230/460 & 575V		PESW-95V47AX-R43	PESW-80V56AX-R41		SSW05085575	SSW05085575	SSW061702X5	SSW060852X5	SSW0600602X5	SSW0701712X5	SSW0700852X5	SSW0700612X5
	1800	364/5T	208-230/460 & 575V		PESW-95V47AX-R43	PESW-80V56AX-R41		SSW05085575	SSW05085575	SSW061702X5	SSW060852X5	SSW0600602X5	SSW0701712X5	SSW0700852X5	SSW0700612X5
	1200	404/5T	208-230/460 & 575V		PESW-95V47AX-R43	PESW-80V56AX-R41		SSW05085575	SSW05085575	SSW061702X5	SSW060852X5	SSW0600602X5	SSW0701712X5	SSW0700852X5	SSW0700612X5
	900	404/5T	208-230/460 & 575V		PESW-95V47AX-R43	PESW-80V56AX-R41		SSW05085575	SSW05085575	SSW061702X5	SSW060852X5	SSW0600602X5	SSW0701712X5	SSW0700852X5	SSW0700612X5
75	3600	364/5TS	208-230/460 & 575V		PESW-105V47AX-R44	PESW-95V56AX-R43			SSW05085575	SSW062052X5	SSW061302X5	SSW060852X5	SSW0702002X5	SSW0701302X5	SSW0700852X5
	1800	364/5T	208-230/460 & 575V		PESW-105V47AX-R44	PESW-95V56AX-R43			SSW05085575	SSW062052X5	SSW061302X5	SSW060852X5	SSW0702002X5	SSW0701302X5	SSW0700852X5
	1200	404/5T	208-230/460 & 575V		PESW-105V47AX-R44	PESW-95V56AX-R43			SSW05085575	SSW062052X5	SSW061302X5	SSW060852X5	SSW0702002X5	SSW0701302X5	SSW0700852X5
	900	444/5T	208-230/460 & 575V		PESW-105V47AX-R44	PESW-95V56AX-R43			SSW05085575	SSW062052X5	SSW061302X5	SSW060852X5	SSW0702002X5	SSW0701302X5	SSW0700852X5
100	3600	404/5TS	208-230/460 & 575V							SSW062552X5	SSW061302X5	SSW061302X5	SSW0702552X5	SSW0701302X5	SSW0701302X5
	1800	404/5T	208-230/460 & 575V							SSW062552X5	SSW061302X5	SSW061302X5	SSW0702552X6	SSW0701302X5	SSW0701302X5
	1200	444/5T	208-230/460 & 575V							SSW062552X5	SSW061302X5	SSW061302X5	SSW0702552X7	SSW0701302X5	SSW0701302X5
	900	444/5T	208-230/460 & 575V							SSW062552X5	SSW061302X5	SSW061302X5	SSW0702552X8	SSW0701302X5	SSW0701302X5
125	3600	444/5TS	460 & 575V							SSW063122X5	SSW061702X5	SSW061302X5	SSW0703122X5	SSW0701712X5	SSW0701302X5
	1800	444/5T	460 & 575V							SSW063122X5	SSW061702X5	SSW061302X5	SSW0703122X6	SSW0701712X5	SSW0701302X5
	1200	444/5T	460 & 575V							SSW063122X5	SSW061702X5	SSW061302X5	SSW0703122X7	SSW0701712X5	SSW0701302X5
	900	504/5T	460 & 575V							SSW063122X5	SSW061702X5	SSW061302X5	SSW0703122X8	SSW0701712X5	SSW0701302X5
150	3600	445TS	460 & 575V							SSW063652X5	SSW062052X5	SSW061702X5	SSW0703652X5	SSW0702002X5	SSW0701712X5
	1800	445T	460 & 575V							SSW063652X5	SSW062052X5	SSW061702X5	SSW0703652X6	SSW0702002X5	SSW0701712X5
	1200	447T	460 & 575V							SSW063652X5	SSW062052X5	SSW061702X5	SSW0704122X5	SSW0702002X5	SSW0701712X5
	900	504/5T	460 & 575V							SSW063652X5	SSW062052X5	SSW061702X5	SSW0704122X6	SSW0702002X5	SSW0701712X5
200	3600	447TS	460 & 575V							SSW064802X5	SSW062552X5	SSW062052X5		SSW0702552X5	SSW0702002X5
	1800	447T	460 & 575V							SSW064802X5	SSW062552X5	SSW062052X5		SSW0702552X6	SSW0702002X5
	1200	447T	460 & 575V							SSW064802X5	SSW062552X5	SSW062052X5		SSW0702552X7	SSW0702002X5
	900	449T	460 & 575V							SSW064802X5	SSW062552X5	SSW062052X5		SSW0702552X8	SSW0702002X5
250	3600	447TS	460 & 575V							SSW066042X5	SSW063122X5	SSW062552X5		SSW0703122X5	SSW0702552X5
	1800	447T	460 & 575V							SSW066042X5	SSW063122X5	SSW062552X5		SSW0703122X6	SSW0702552X6
	1200	586/7T	460 & 575V							SSW066042X5	SSW063122X5	SSW062552X5		SSW0703122X7	SSW0702552X7
	900	586/7T	460 & 575V							SSW066042X5	SSW063122X5	SSW062552X5		SSW0703122X8	SSW0702552X8
300	3600	586/7TS	460 & 575V							SSW068202X5	SSW063652X5	SSW063122X5		SSW0703652X5	SSW0703122X5
	1800	586/7T	460 & 575V							SSW068202X5	SSW063652X5	SSW063122X5		SSW0703652X6	SSW0703122X6
	1200	586/7T	460 & 575V							SSW068202X5	SSW063652X5	SSW063122X5		SSW0703652X7	SSW0703122X7
	900	586/7T	460 & 575V							SSW068202X5	SSW063652X5	SSW063122X5		SSW0703652X8	SSW0703122X8

Note:
- Motors above are foot mount. Also available with C-Flange and C-Flange Footless.
- DOL Starters above include Start/Stop Pushbuttons and Reset. Also available with Reset Only or with NEMA 1 Metallic Enclosure.
- More Soft Starters and Variable Frequency Drives available. Also available: line reactors and DB resistors. For more information call 1 877 PAMENSKY.

Variable Frequency Drive Sizing Guide

HP	RPM	Frame	Voltage	WEG Matched Variable Frequency Drive							
				CFW 08 Plus			CFW 09			CFW 11	
				230V	460V	575V	230V	460V	575V	230V	460V
1	3600	143T	208-230/460 & 575V	CFW08004B2P	CFW080026T2P	CFW080017575	CFW09.06/230	CFW09.03/460	CFW09.02/575	CFW110006B2ON1Z	CFW110003T4SZ
	1800	143T	208-230/460 & 575V	CFW08004B2P	CFW080026T2P	CFW080017575	CFW09.06/230	CFW09.03/460	CFW09.02/575	CFW110006B2ON1Z	CFW110003T4SZ
	1200	145T	208-230/460 & 575V	CFW08004B2P	CFW080026T2P	CFW080017575	CFW09.06/230	CFW09.03/460	CFW09.02/575	CFW110006B2ON1Z	CFW110003T4SZ
	900	182T	208-230/460 & 575V	CFW08004B2P	CFW080026T2P	CFW080017575	CFW09.06/230	CFW09.03/460	CFW09.02/575	CFW110006B2ON1Z	CFW110003T4SZ
1.5	3600	143T	208-230/460 & 575V	CFW080073B2P	CFW080040T4P	CFW080030575	CFW09.06/230	CFW09.03/460	CFW09.02/575	CFW110006B2ON1Z	CFW110003T4SZ
	1800	145T	208-230/460 & 575V	CFW080073B2P	CFW080040T4P	CFW080030575	CFW09.06/230	CFW09.03/460	CFW09.02/575	CFW110006B2ON1Z	CFW110003T4SZ
	1200	182T	208-230/460 & 575V	CFW080073B2P	CFW080040T4P	CFW080030575	CFW09.06/230	CFW09.03/460	CFW09.02/575	CFW110006B2ON1Z	CFW110003T4SZ
	900	184T	208-230/460 & 575V	CFW080073B2P	CFW080040T4P	CFW080030575	CFW09.06/230	CFW09.03/460	CFW09.02/575	CFW110006B2ON1Z	CFW110003T4SZ
2	3600	145T	208-230/460 & 575V	CFW080073B2P	CFW080043T4P	CFW080030575	CFW09.07/230	CFW09.04/460	CFW09.02/575	CFW110007B2ON1Z	CFW110003T4SZ
	1800	145T	208-230/460 & 575V	CFW080073B2P	CFW080043T4P	CFW080030575	CFW09.07/230	CFW09.04/460	CFW09.02/575	CFW110007B2ON1Z	CFW110003T4SZ
	1200	184T	208-230/460 & 575V	CFW080073B2P	CFW080043T4P	CFW080030575	CFW09.07/230	CFW09.04/460	CFW09.02/575	CFW110007B2ON1Z	CFW110003T4SZ
	900	213T	208-230/460 & 575V	CFW080073B2P	CFW080043T4P	CFW080030575	CFW09.07/230	CFW09.04/460	CFW09.02/575	CFW110007B2ON1Z	CFW110003T4SZ
3	3600	W182T	208-230/460 & 575V	CFW080100B2P	CFW080065T4P	CFW080042575	CFW09.10/230	CFW09.05/460	CFW09.04/575	CFW110010T2ON1Z	CFW110005T4SZ
	1800	W182T	208-230/460 & 575V	CFW080100B2P	CFW080065T4P	CFW080042575	CFW09.10/230	CFW09.05/460	CFW09.04/575	CFW110010T2ON1Z	CFW110005T4SZ
	1200	213T	208-230/460 & 575V	CFW080100B2P	CFW080065T4P	CFW080042575	CFW09.10/230	CFW09.05/460	CFW09.04/575	CFW110010T2ON1Z	CFW110005T4SZ
	900	215T	208-230/460 & 575V	CFW080100B2P	CFW080065T4P	CFW080042575	CFW09.10/230	CFW09.05/460	CFW09.04/575	CFW110010T2ON1Z	CFW110005T4SZ
5	3600	184T	208-230/460 & 575V	CFW080160T2P	CFW080100T4P	CFW080070575	CFW09.16/230	CFW09.09/460	CFW09.07/575	CFW110024T2ON1Z	CFW110010T4SZ
	1800	184T	208-230/460 & 575V	CFW080160T2P	CFW080100T4P	CFW080070575	CFW09.16/230	CFW09.09/460	CFW09.07/575	CFW110024T2ON1Z	CFW110010T4SZ
	1200	215T	208-230/460 & 575V	CFW080160T2P	CFW080100T4P	CFW080070575	CFW09.16/230	CFW09.09/460	CFW09.07/575	CFW110024T2ON1Z	CFW110010T4SZ
	900	254T	208-230/460 & 575V	CFW080160T2P	CFW080100T4P	CFW080070575	CFW09.16/230	CFW09.09/460	CFW09.07/575	CFW110024T2ON1Z	CFW110010T4SZ
7.5	3600	213T	208-230/460 & 575V	CFW080220T2P	CFW080130T4P	CFW080100575	CFW09.24/230	CFW09.13/460	CFW09.10/575	CFW110028T2ON1Z	CFW110017T4SZ
	1800	213T	208-230/460 & 575V	CFW080220T2P	CFW080130T4P	CFW080100575	CFW09.24/230	CFW09.13/460	CFW09.10/575	CFW110028T2ON1Z	CFW110017T4SZ
	1200	254T	208-230/460 & 575V	CFW080220T2P	CFW080130T4P	CFW080100575	CFW09.24/230	CFW09.13/460	CFW09.10/575	CFW110028T2ON1Z	CFW110017T4SZ
	900	256T	208-230/460 & 575V	CFW080220T2P	CFW080130T4P	CFW080100575	CFW09.24/230	CFW09.13/460	CFW09.10/575	CFW110028T2ON1Z	CFW110017T4SZ
10	3600	215T	208-230/460 & 575V	CFW080280T2P	CFW080160T4P	CFW080120575	CFW09.28/230	CFW09.16/460	CFW09.12/575	CFW110033T2ON1Z	CFW110024T4SZ
	1800	215T	208-230/460 & 575V	CFW080280T2P	CFW080160T4P	CFW080120575	CFW09.28/230	CFW09.16/460	CFW09.12/575	CFW110033T2ON1Z	CFW110024T4SZ
	1200	256T	208-230/460 & 575V	CFW080280T2P	CFW080160T4P	CFW080120575	CFW09.28/230	CFW09.16/460	CFW09.12/575	CFW110033T2ON1Z	CFW110024T4SZ
	900	284T	208-230/460 & 575V	CFW080280T2P	CFW080160T4P	CFW080120575	CFW09.28/230	CFW09.16/460	CFW09.12/575	CFW110033T2ON1Z	CFW110024T4SZ
15	3600	254T	208-230/460 & 575V		CFW080240T4P		CFW09.45/230	CFW09.24/460	CFW09.14/575	CFW110054T2ON1Z	CFW110031T4SZ
	1800	254T	208-230/460 & 575V		CFW080240T4P		CFW09.45/230	CFW09.24/460	CFW09.14/575	CFW110054T2ON1Z	CFW110031T4SZ
	1200	284T	208-230/460 & 575V		CFW080240T4P		CFW09.45/230	CFW09.24/460	CFW09.14/575	CFW110054T2ON1Z	CFW110031T4SZ
	900	286T	208-230/460 & 575V		CFW080240T4P		CFW09.45/230	CFW09.24/460	CFW09.14/575	CFW110054T2ON1Z	CFW110031T4SZ
20	3600	256T	208-230/460 & 575V		CFW080300T4P		CFW09.54/230	CFW09.30/460	CFW09.22/575	CFW110070T2ON1Z	CFW110038T4SZ
	1800	256T	208-230/460 & 575V		CFW080300T4P		CFW09.54/230	CFW09.30/460	CFW09.22/575	CFW110070T2ON1Z	CFW110038T4SZ
	1200	286T	208-230/460 & 575V		CFW080300T4P		CFW09.54/230	CFW09.30/460	CFW09.22/575	CFW110070T2ON1Z	CFW110038T4SZ
	900	324T	208-230/460 & 575V		CFW080300T4P		CFW09.54/230	CFW09.30/460	CFW09.22/575	CFW110070T2ON1Z	CFW110038T4SZ
25	3600	284TS	208-230/460 & 575V				CFW09.70/230	CFW09.38/460	CFW09.27/575	CFW110086T2SZ	CFW110045T4SZ
	1800	284T	208-230/460 & 575V				CFW09.70/230	CFW09.38/460	CFW09.27/575	CFW110086T2SZ	CFW110045T4SZ
	1200	324T	208-230/460 & 575V				CFW09.70/230	CFW09.38/460	CFW09.27/575	CFW110086T2SZ	CFW110045T4SZ
	900	326T	208-230/460 & 575V				CFW09.70/230	CFW09.38/460	CFW09.27/575	CFW110086T2SZ	CFW110045T4SZ

30	3600	286TS	208-230/460 & 575V		CFW09.86/230	CFW09.45/460	CFW09.32/575	CFW110105T2SZ	CFW110058T4SZ
	1800	286T	208-230/460 & 575V		CFW09.86/230	CFW09.45/460	CFW09.32/575	CFW110105T2SZ	CFW110058T4SZ
	1200	326T	208-230/460 & 575V		CFW09.86/230	CFW09.45/460	CFW09.32/575	CFW110105T2SZ	CFW110058T4SZ
	900	364/5T	208-230/460 & 575V		CFW09.86/230	CFW09.45/460	CFW09.32/575	CFW110105T2SZ	CFW110058T4SZ
40	3600	324TS	208-230/460 & 575V		CFW09105/230	CFW09.60/460	CFW09.44/575	CFW110142T2SZ	CFW110070T4SZ
	1800	324T	208-230/460 & 575V		CFW09105/230	CFW09.60/460	CFW09.44/575	CFW110142T2SZ	CFW110070T4SZ
	1200	364/5T	208-230/460 & 575V		CFW09105/230	CFW09.60/460	CFW09.44/575	CFW110142T2SZ	CFW110070T4SZ
	900	364/5T	208-230/460 & 575V		CFW09105/230	CFW09.60/460	CFW09.44/575	CFW110142T2SZ	CFW110070T4SZ
50	3600	326TS	208-230/460 & 575V		CFW09130/230	CFW09.70/460	CFW09.53/575	CFW110180T2ON1Z	CFW110088T4SZ
	1800	326T	208-230/460 & 575V		CFW09130/230	CFW09.70/460	CFW09.53/575	CFW110180T2ON1Z	CFW110088T4SZ
	1200	364/5T	208-230/460 & 575V		CFW09130/230	CFW09.70/460	CFW09.53/575	CFW110180T2ON1Z	CFW110088T4SZ
	900	404/5T	208-230/460 & 575V		CFW09130/230	CFW09.70/460	CFW09.53/575	CFW110180T2ON1Z	CFW110088T4SZ
60	3600	364/5TS	208-230/460 & 575V		CFW09180/230	CFW09.86/460	CFW09.63/575	CFW110211T2ON1Z	CFW110105T4SZ
	1800	364/5T	208-230/460 & 575V		CFW09180/230	CFW09.86/460	CFW09.63/575	CFW110211T2ON1Z	CFW110105T4SZ
	1200	404/5T	208-230/460 & 575V		CFW09180/230	CFW09.86/460	CFW09.63/575	CFW110211T2ON1Z	CFW110105T4SZ
	900	404/5T	208-230/460 & 575V		CFW09180/230	CFW09.86/460	CFW09.63/575	CFW110211T2ON1Z	CFW110105T4SZ
75	3600	364/5TS	208-230/460 & 575V		CFW09240/230	CFW09105/460	CFW09.79/575		CFW110142T4SZ
	1800	364/5T	208-230/460 & 575V		CFW09240/230	CFW09105/460	CFW09.79/575		CFW110142T4SZ
	1200	404/5T	208-230/460 & 575V		CFW09240/230	CFW09105/460	CFW09.79/575		CFW110142T4SZ
	900	444/5T	208-230/460 & 575V		CFW09240/230	CFW09105/460	CFW09.79/575		CFW110142T4SZ
100	3600	404/5TS	208-230/460 & 575V			CFW09142/460	CFW09.107575		CFW110180T4SZ
	1800	404/5T	208-230/460 & 575V			CFW09142/460	CFW09.107575		CFW110180T4SZ
	1200	444/5T	208-230/460 & 575V			CFW09142/460	CFW09.107575		CFW110180T4SZ
	900	444/5T	208-230/460 & 575V			CFW09142/460	CFW09.107575		CFW110180T4SZ
125	3600	444/5TS	460 & 575V			CFW09180/460	CFW09147/575		CFW110211T4SZ
	1800	444/5T	460 & 575V			CFW09180/460	CFW09147/575		CFW110211T4SZ
	1200	444/5T	460 & 575V			CFW09180/460	CFW09147/575		CFW110211T4SZ
	900	504/5T	460 & 575V			CFW09180/460	CFW09147/575		CFW110211T4SZ
150	3600	445TS	460 & 575V			CFW09180/460	CFW09147/575		CFW110242T4SZ
	1800	445T	460 & 575V			CFW09180/460	CFW09147/575		CFW110242T4SZ
	1200	447T	460 & 575V			CFW09180/460	CFW09147/575		CFW110242T4SZ
	900	504/5T	460 & 575V			CFW09180/460	CFW09147/575		CFW110242T4SZ
200	3600	447TS	460 & 575V			CFW09240/460	CFW09211/575		CFW110312T4SZ
	1800	447T	460 & 575V			CFW09240/460	CFW09211/575		CFW110312T4SZ
	1200	447T	460 & 575V			CFW09240/460	CFW09211/575		CFW110312T4SZ
	900	449T	460 & 575V			CFW09240/460	CFW09211/575		CFW110312T4SZ
250	3600	447TS	460 & 575V			CFW09312/460	CFW09247/575		CFW110370T4SZ
	1800	447T	460 & 575V			CFW09312/460	CFW09247/575		CFW110370T4SZ
	1200	586/7T	460 & 575V			CFW09312/460	CFW09247/575		CFW110370T4SZ
	900	586/7T	460 & 575V			CFW09312/460	CFW09247/575		CFW110370T4SZ
300	3600	586/7TS	460 & 575V			CFW09361/460	CFW09315/575		CFW110477T4SZ
	1800	586/7T	460 & 575V			CFW09361/460	CFW09315/575		CFW110477T4SZ
	1200	586/7T	460 & 575V			CFW09361/460	CFW09315/575		CFW110477T4SZ
	900	586/7T	460 & 575V			CFW09361/460	CFW09315/575		CFW110477T4SZ

Note:
- Motors above are foot mount. Also available with C-Flange and C-Flange Footless.
- DOL Starters above include Start/Stop Pushbuttons and Reset. Also available with Reset Only or with NEMA 1 Metallic Enclosure.
- More Soft Starters and Variable Frequency Drives available. Also available: line reactors and DB resistors. For more information call 1 877 PAMENSKY.

WEG Motors as Inverter and Vector Duty

Motor/Load Torque Criteria - 2, 4, 6 & 8 pole motors

W22 Severe Duty High Efficiency Motors					
Frame Size	Constant Torque	Variable Torque	Constant Horsepower	VFD	Comments
143T - 586/7T	12:1	1000:1	60 - 90 Hz	Any	Constant Flux
143T - 586/7T	100:1	-	60 - 90 Hz	WEG	Optimized Flux
W22 Severe Duty NEMA Premium Efficiency Motors					
Frame Size	Constant Torque	Variable Torque	Constant Horsepower	VFD	Comments
143T - 588/9T	20:1	1000:1	60 - 90 Hz	Any	Constant Flux
143T - 588/9T	1000:1	-	60 - 90 Hz	WEG	Optimized Flux
W21 Severe Duty High Efficiency TEFC Motors					
Frame Size	Constant Torque	Variable Torque	Constant Horsepower	VFD	Comments
143T - 505T	12:1	1000:1	60 - 90 Hz	Any	Constant Flux
143T - 505T	100:1	-	60 - 90 Hz	WEG	Optimized Flux
W21 Severe Duty NEMA Premium Efficiency TEFC Motors					
Frame Size	Constant Torque	Variable Torque	Constant Horsepower	VFD	Comments
143T - 505T	20:1	1000:1	60 - 90 Hz	Any	Constant Flux
143T - 505T	1000:1	-	60 - 90 Hz	WEG	Optimized Flux
W22 IEEE 841–2009 TEFC Motors					
Frame Size	Constant Torque	Variable Torque	Constant Horsepower	VFD	Comments
143T - 588/9T	20:1	1000:1	60 - 90 Hz	Any	Constant Flux
143T - 588/9T	1000:1	-	60 - 90 Hz	WEG	Optimized Flux
High Efficiency Explosion Proof Motors					
Frame Size	Constant Torque	Variable Torque	Constant Horsepower	VFD	Comments
143T - 505T	12:1	1000:1	60 - 90 Hz	Any	Constant Flux
143T - 505T	1000:1	-	60 - 90 Hz	WEG	Optimized Flux
NEMA Premium Efficiency Explosion Proof Motors					
Frame Size	Constant Torque	Variable Torque	Constant Horsepower	VFD	Comments
143T - 505T	20:1	1000:1	60 - 90 Hz	Any	Constant Flux
143T - 505T	1000:1	-	60 - 90 Hz	WEG	Optimized Flux

* Can only be achieved by a WEG CFW09 VFD with software version 2.40 or higher.

VFD Output and Insulation Criteria

Rated Voltage	Voltage Spikes Motor Terminals (Maximum)**	dV/dt Inverter Terminals (Maximum)**	Rise Time Inverter Terminals (Minimum)**	MTBP Minimum Time Between Pulse**
Vrated ≤ 460 V	≤ 1430 V	≤ 5200 V/µs	≥ 0,1 µs	≥ 6 µs
460 V < Vrated ≤ 575 V	≤ 1780 V	≤ 6500 V/µs		
575 V < Vrated ≤ 690 V	≤ 2140 V	≤ 7800 V/µs		

Bearings (for all rated voltage ranges)	
Frame Size	Feature
mod ≤ 449T	No shaft grounding required
504/5T	■ Optional: Insulated bearing ■ Optional: Shaft grounding brushes

** According to NEMA MG1 - 31

WEG Plant - Jaragua Do Sul - Brazil

V.J. Pamensky Canada Inc. Head Office - Toronto

V.J. Pamensky Canada Inc. Main Warehouse - Toronto

WEG and V.J. Pamensky Canada Inc. are wholly committed to green products, technology and practices. This catalog is also available in digital format at www.pamensky.com

CAN.MOT.01.2011

PAMENSKY

1 800 ASK 4 WEG (275-4934) Head Office
1 877 PAMENSKY (726-3675) Provincial Office

www.pamensky.com

V.J. Pamensky Canada Inc.

Toronto	Montreal	Winnipeg	Calgary	Edmonton	Vancouver
64 Samor Road	9428 boul du Golf	10 Hutchings Street	Bay #80	17204 - 114th Ave.	3226 - 138A Street
Toronto, Ontario	Anjou, Quebec	Winnipeg, Manitoba	5100 - 64 Ave. S.E.	Edmonton, Alberta	Surrey, British Columbia
M6A 1J7	H1J 3A1	R2X 2X1	Calgary, Alberta	T5X 5Y7	V4P 2B4
			T2C 4V3		
TEL: 416 781-4617	TEL: 514 341-5950	TEL: 204 633-1438	TEL: 403 240-0629	TEL: 780 444-4465	TEL: 604 531-4004
FAX: 416 781-4352	FAX: 514 341-2945	FAX: 204 633-8720	FAX: 403 240-0959	FAX: 780 449-2543	FAX: 604 531-7009