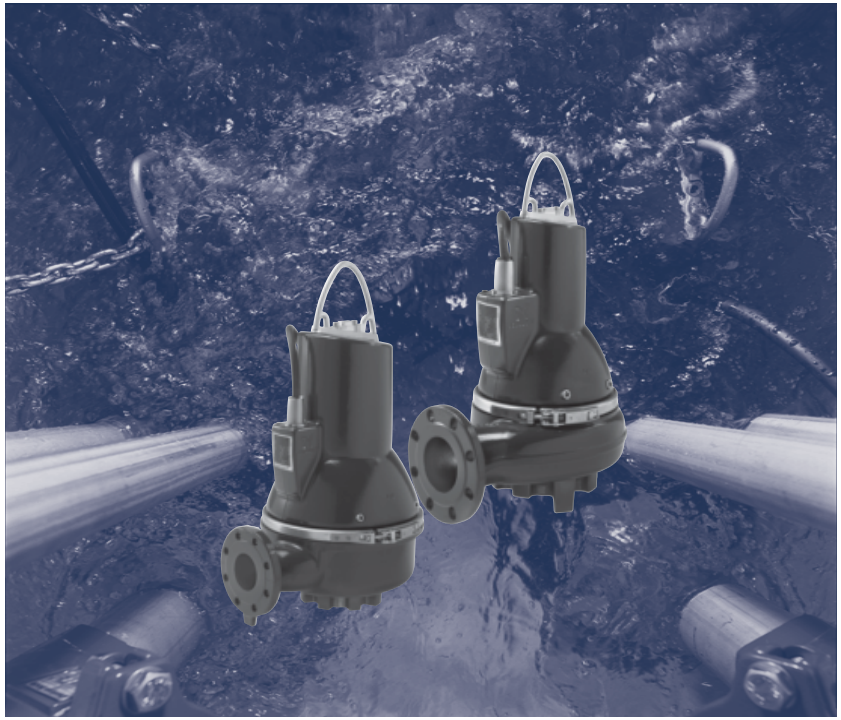
BE THINK INNOVATE

Being responsible is our foundation
Thinking ahead makes it possible
Innovation is the essence

GRUNDFOS **PRODUCT GUIDE**

SL1, SLV pumps

1.5 to 15 hp
60 Hz



L-SL-PG-001 GPU 06/10
97656971 0610
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GRUNDFOS

BE THINK INNOVATE

GRUNDFOS

Contents

Introduction

Introduction

This data booklet deals with Grundfos submersible sewage pumps, types SL1 and SLV.

Fig. 1 SL1 and SLV pumps

The pumps are free-flow (SuperVortex) and single-channel impeller pumps specifically designed for pumping sewage and wastewater in a wide range of municipal, private and industrial applications.

The pumps are made of resistant materials, such as cast iron and stainless steel. These materials ensure a proper operation.

The pumps are fitted with motors from 1.5 hp up to 15 hp (1.1 to 11 kW). The motors are either 2- or 4-pole motors, depending on the motor size.

The free passage in the pumps is 2 to 4” (50 to 100 mm).

The pumps are available for:

- submerged installation on auto-coupling system
- submerged installation, free-standing.

Applications

Typical applications are transfer of liquids, such as:

- municipal wastewater
- wastewater with high content of fibres (SuperVortex impeller)
- drainage and groundwater
- domestic wastewater
- industrial wastewater
- process and cooling water.

The pumps are ideal for the pumping of the above liquids from for instance:

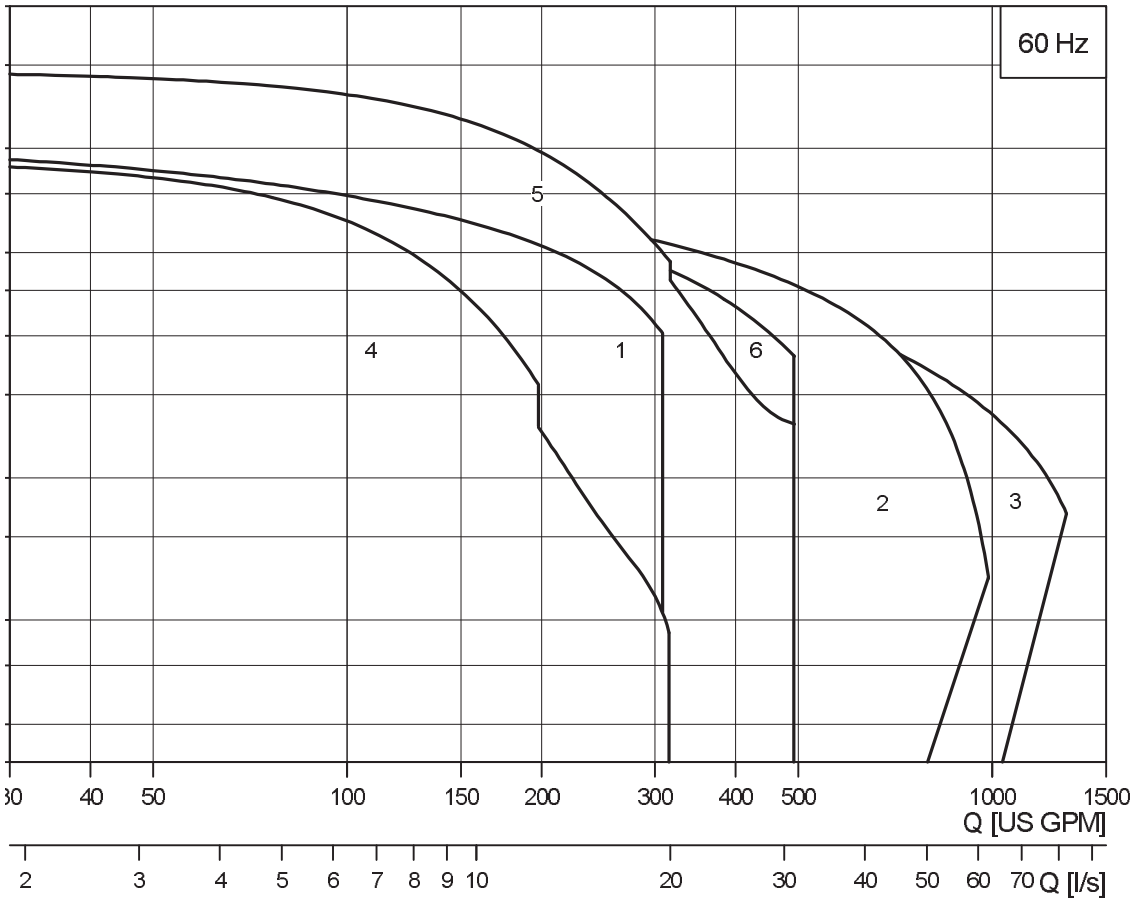
- municipal network pumping stations
- inlet pumping stations in wastewater treatment plants
- primary clarification in wastewater treatment plants
- secondary clarification in wastewater treatment plants
- stormwater pumping stations
- public buildings
- residential buildings
- factories/industry.

Overall construction features

- Cable entry as cable plug, made of corrosion-resistant stainless steel with conductors embedded in polyamide
- Power cable incorporating wires for thermal sensors in the motor windings
- No extra cable required for sensors in pumps with sensors
- Monitoring of operating conditions for pumps with sensors
- Moisture detector for continuous monitoring of motor enclosure and automatic cut-out in case of leakage
- Heavy-duty bearings greased for life
- Built for variable frequency drive operation
- Smooth pump surface prevents dirt and impurities from sticking to the pump
- Self-cleaning channel impeller with long vanes, thus reducing risk of jamming or clogging, or Super-Vortex impeller with high pumping efficiency and less downtime
- Explosion-proof motors for potentially explosive environments
- Motor in insulation class H (356 °F (180 °C), enclosure class IP68 with thermal sensor in each phase
- Temperature rise class A (1.5 to 8 hp) or class B (10 to 15 hp)
- Service-friendly design:
  - clamp connection between motor and pump
  - cartridge shaft seal
  - cable connection to motor via plug.
- Motor built of highly efficient EFF1 components, offering lower motor temperature and longer life.

Performance range

Performance range, SL1, SLV pumps



TM04 7578 2210

Pump type	Curve No
SL1.20.A25.30	1
SL1.20.A25.40	
SL1.20.A25.55	
SL1.20.A30.30	
SL1.20.A30.40	
SL1.20.A30.55	
SL1.30	2
SL1.40	3

Pump type	Curve No
SLV.25.A25.30	4
SLV.25.A25.40	
SLV.25.A25.55	
SLV.25.A30.30	
SLV.25.A30.40	
SLV.25.A30.55	
SLV.30	5
SLV.40	6

Identification

Type key

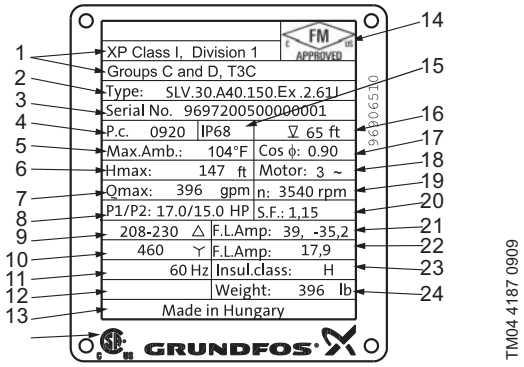
SL1, SLV

Code	Example	SL	1	30.	A30.	55.	A.	Ex.	4.	6.	0H	A.	Q.
	Pump type:												
SL	Grundfos wastewater pump/sewage pump												
	Impeller type:												
1	Single-channel impeller												
V	Free-flow impeller (SuperVortex)												
	Pump passage. Code number from type key / 10 [inch]:												
20	2" (50 mm)												
25	2.5" (65 mm)												
30	3" (80 mm)												
40	4" (100 mm)												
	Pump discharge (discharge port in inches):												
A25	ANSI 2.5" (DN65)												
A30	ANSI 3" (DN80)												
A40	ANSI 4" (DN100)												
A60	ANSI 6" (DN150)												
	Motor power. Code number from type key / 10 [hp]												
55	5.5 hp = 4.0 kW												
	Accessories:												
[-]	Standard												
A	Sensor												
	Pump version:												
[-]	Non-explosion-proof												
Ex	Explosion-proof												
	Number of poles:												
2	2-pole												
4	4-pole												
	Frequency:												
6	60 Hz												
	Voltage and starting method:												
0J	3 x 208-230V Δ DOL												
1J	3 x 208-230V Δ / 460V Y												
1H	3 x 460V Δ Y/D												
0L	3 x 575V Δ DOL												
1L	3 x 575V Δ Y/D												
	Product generation:												
A	1st generation												
B	2nd generation												
C	3rd generation												
	Material variant:												
[-]	Cast iron impeller, volute and motor housing												
Q	Stainless steel impeller												

Note: The pump types are not available in all variants.

Identification

Nameplate



TM04 4187 0909

Fig. 2 Nameplate

Pos.	Description
1	Protection according to FM
2	Type designation
3	Serial number
4	Production code (year/month)
5	Maximum ambient temperature
6	Maximum head
7	Maximum flow rate
8	Rated input/output power
9	Rated voltage, D
10	Rated voltage, Y
11	Frequency
12	Country of production
13	CSA mark
14	FM mark
15	Enclosure class to IEC
16	Maximum installation depth
17	Power factor
18	Number of phases
19	Rated speed
20	Service factor
21	Full load current, D
22	Full load current, Y
23	Insulation class
24	Weight without cable

Selection of product

Ordering a pump

When ordering a pump, you need to take the following five aspects into consideration:

1. pump type
2. custom-built variation (option)
3. explosion-proof version
4. accessories
5. pump controller.

Pump

Use the following table to identify which type of pump that best meets your needs. The table is for guidance only.

Application	SL1	SLV
Storm water	x	x
Groundwater	x	x
Drainage and surface water	x	x
Drainage and surface water with small impurities	x	x
Abrasive surface water	x	x
Wastewater with long fibres, e.g. from laundries	x	x
Domestic wastewater with discharge from toilets	x	x
Municipal sewage	x	x
Sewage from commercial buildings	x	x
Industrial process water with fibres/solids		x
Industrial process water with solids	x	x
Industrial process water without solids and fibres	x	

When you have selected the pump type, you can identify the specific pump that best meets your needs in section *Product range* on page 8 and *Type key* on page 5. The list below is a detailed description of the product you get if you order the following pump:

Pump	Product no
SLV.25.A25.30.2.61H	96970895

- Pump as specified in the type key
- 33 ft (10 m) cable
- Paint: NSC 8005-R80B (dark grey), gloss code 35, thickness 100 µ
- Thermal switch in stator
- Tested according to Hydraulic Institute Centrifugal pump test 1.6-2000 acceptance level B.

See section *Performance curves Technical data* for selection of a standard pump.

Note: Product-specific data for the pump can also be found in WebCAPS using the product number 96970895.

Custom-built variants

The pumps can be customized to meet individual requirements. Many pump features and options are available for customization, such as explosion-proof versions, various cable lengths or special materials.

Variants can be seen in the table in section *List of variants* on page 15. For requirements or designs outside the mentioned table, contact Grundfos.

Accessories

Depending on the installation type, accessories may be required. See section *Installation systems* on page 148 for selection of the correct accessories.

Note: Ordered accessories are not fitted from factory.

Controller

The following controllers are available:

- CU361 - Grundfos Dedicated Controls

Grundfos Dedicated Controls is a control system designed for installation in either commercial buildings or network pumping stations with one to six pumps. Advanced control and data communication are also possible with the Grundfos Dedicated Controls system.

The Dedicated Controls system is designed to control and monitor Grundfos wastewater pumps.

See also section *Pump controllers* on page 31.

Explosion-proof version

The entire range is available in explosion-proof versions.

The SL1 and SLV pumps have the following explosion protection classification: Class I, Division 1, Groups C and D, T4, T3, IP68.

Product range

SL1 pump range

Pump type	Sensor	Explosion proof	Poles	Hz	Voltage					Stainless steel impeller
					3x208-230V DOL	3x208-230V Δ / 460V Y	3x460V Y/D	3x575V DOL	3x575V Y/D	
	[.A]	[.EX]	[.2]	[.6]	[0J]	[1J]	[1H]	[0L]	[1L]	[.Q]
SL1.20.A25.30	No	No	2	6	-	96970713	96970715	-	96970716	No
	Yes	No	2	6	-	96971178	96971180	-	96971181	No
	No	Yes	2	6	-	96971644	96971646	-	96971647	No
	Yes	Yes	2	6	-	96972111	96972113	-	96972114	No
	No	No	2	6	-	-	-	-	-	Yes
	Yes	No	2	6	-	-	-	-	-	Yes
SL1.20.A25.40	No	No	2	6	-	96970719	96970724	-	96970722	No
	Yes	No	2	6	-	96971184	96971189	-	96971187	No
	No	Yes	2	6	-	96971650	96971655	-	96971653	No
	Yes	Yes	2	6	-	96972117	96972122	-	96972120	No
	No	No	2	6	-	-	-	-	-	Yes
	Yes	No	2	6	-	-	-	-	-	Yes
SL1.20.A25.55	No	No	2	6	-	96970727	96970732	-	96970730	No
	Yes	No	2	6	-	96971192	96971197	-	96971195	No
	No	Yes	2	6	-	96971658	96971663	-	96971661	No
	Yes	Yes	2	6	-	96972125	96972130	-	96972128	No
	No	No	2	6	-	-	-	-	-	Yes
	Yes	No	2	6	-	-	-	-	-	Yes
SL1.20.A30.30	No	No	2	6	-	96970735	96970737	-	96970738	No
	Yes	No	2	6	-	96971200	96971202	-	96971203	No
	No	Yes	2	6	-	96971666	96971668	-	96971669	No
	Yes	Yes	2	6	-	96972133	96972135	-	96972136	No
	No	No	2	6	-	-	-	-	-	Yes
	Yes	No	2	6	-	-	-	-	-	Yes
SL1.20.A30.40	No	No	2	6	-	96970741	96970746	-	96970744	No
	Yes	No	2	6	-	96971206	96971211	-	96971209	No
	No	Yes	2	6	-	96971672	96971677	-	96971675	No
	Yes	Yes	2	6	-	96972139	96972144	-	96972142	No
	No	No	2	6	-	-	-	-	-	Yes
	Yes	No	2	6	-	-	-	-	-	Yes
SL1.20.A30.55	No	No	2	6	-	96970749	96970754	-	96970752	No
	Yes	No	2	6	-	96971214	96971219	-	96971217	No
	No	Yes	2	6	-	96971680	96971685	-	96971683	No
	Yes	Yes	2	6	-	96972147	96972152	-	97622851	No
	No	No	2	6	-	-	-	-	-	Yes
	Yes	No	2	6	-	-	-	-	-	Yes
SL1.30.A30.20	No	No	4	6	96970757	96970765	-	96970760	96970762	No
	Yes	No	4	6	96971222	96971230	-	96971225	96971227	No
	No	Yes	4	6	96971688	96971696	-	96971691	96971693	No
	Yes	Yes	4	6	96972155	96972163	-	96972158	96972160	No
	No	No	4	6	97662094	97662095	-	97661961	97661962	Yes
	Yes	No	4	6	97662139	97662140	-	97662005	97662006	Yes
SL1.30.A30.30	No	No	4	6	-	96970763	96970759	-	96970766	No
	Yes	No	4	6	-	96971228	96971224	-	96971231	No
	No	Yes	4	6	-	96971694	96971690	-	96971697	No
	Yes	Yes	4	6	-	96972161	96972157	-	96972164	No
	No	No	4	6	-	97662096	97662101	-	97661963	Yes
	Yes	No	4	6	-	97662151	97662156	-	97662007	Yes

Single channel Q versions will be available from 3rd quarter of 2011. Contact Grundfos for more information.

Product range

Pump type	Sensor	Explosion proof	Poles	Hz	Voltage					Stainless steel impeller
					3x208-230V DOL	3x208-230V Δ / 460V Y	3x460V Y/D	3x575V DOL	3x575V Y/D	
	[.A]	[.EX]	[.2]	[.6]	[0J]	[1J]	[1H]	[0L]	[1L]	[.Q]
SL1.30.A30.40	No	No	4	6	-	96970769	96970774	-	96970772	No
	Yes	No	4	6	-	96971234	96971239	-	96971237	No
	No	Yes	4	6	-	96971700	96971705	-	96971703	No
	Yes	Yes	4	6	-	96972167	96972172	-	96972170	No
	No	No	4	6	-	97662097	97662102	-	97661964	Yes
	Yes	No	4	6	-	97662152	97662157	-	97662008	Yes
SL1.30.A30.55	No	No	4	6	-	96970777	96970782	-	96970780	No
	Yes	No	4	6	-	96971242	96971247	-	96971245	No
	No	Yes	4	6	-	96971708	96971713	-	96971711	No
	Yes	Yes	4	6	-	96972175	96972180	-	96972178	No
	No	No	4	6	-	97662098	97662103	-	97661965	Yes
	Yes	No	4	6	-	97662153	97662158	-	97662009	Yes
SL1.30.A30.75	No	No	4	6	-	96970785	96970790	-	96970788	No
	Yes	No	4	6	-	96971250	96971255	-	96971253	No
	No	Yes	4	6	-	96971716	96971721	-	96971719	No
	Yes	Yes	4	6	-	96972183	96972188	-	96972186	No
	No	No	4	6	-	97662099	97662104	-	97661966	Yes
	Yes	No	4	6	-	97662154	97662159	-	97662010	Yes
SL1.30.A30.100	No	No	4	6	-	96970793	96970798	-	96970796	No
	Yes	No	4	6	-	96971258	96971263	-	96971261	No
	No	Yes	4	6	-	96971724	96971729	-	96971727	No
	Yes	Yes	4	6	-	96972191	96972196	-	96972194	No
	No	No	4	6	-	97662100	97662105	-	97661967	Yes
	Yes	No	4	6	-	97662155	97662160	-	97662011	Yes
SL1.30.A40.20	No	No	4	6	96970801	96970808	-	96970804	96970806	No
	Yes	No	4	6	96971266	96971273	-	96971269	96971271	No
	No	Yes	4	6	96971732	96971739	-	96971735	96971737	No
	Yes	Yes	4	6	96972199	96972206	-	96972202	96972204	No
	No	No	4	6	97662106	97662107	-	97661968	97661969	Yes
	Yes	No	4	6	97662161	97662162	-	97662012	97662013	Yes
SL1.30.A40.30	No	No	4	6	-	96970807	96970809	-	96970810	No
	Yes	No	4	6	-	96971272	96971274	-	96971275	No
	No	Yes	4	6	-	96971738	96971740	-	96971741	No
	Yes	Yes	4	6	-	96972205	96972207	-	96972208	No
	No	No	4	6	-	97662108	97662113	-	97661970	Yes
	Yes	No	4	6	-	97662163	97662168	-	97662014	Yes
SL1.30.A40.40	No	No	4	6	-	96970813	96970818	-	96970816	No
	Yes	No	4	6	-	96971278	96971283	-	96971281	No
	No	Yes	4	6	-	96971744	96971749	-	96971747	No
	Yes	Yes	4	6	-	96972211	96972216	-	96972214	No
	No	No	4	6	-	97662109	97662114	-	97661971	Yes
	Yes	No	4	6	-	97662164	97662169	-	97662015	Yes
SL1.30.A40.55	No	No	4	6	-	96970821	96970826	-	96970824	No
	Yes	No	4	6	-	96971286	96971291	-	96971289	No
	No	Yes	4	6	-	96971752	96971757	-	96971755	No
	Yes	Yes	4	6	-	96972219	96972224	-	96972222	No
	No	No	4	6	-	97662110	97662115	-	97661972	Yes
	Yes	No	4	6	-	97662165	97662170	-	97662016	Yes

Single channel Q versions will be available from 3rd quarter of 2011. Contact Grundfos for more information.

Product range

Pump type	Sensor	Explosion proof	Poles	Hz	Voltage					Stainless steel impeller
					3x208-230V DOL	3x208-230V Δ / 460V Y	3x460V Y/D	3x575V DOL	3x575V Y/D	
	[.A]	[.EX]	[.2]	[.6]	[0J]	[1J]	[1H]	[0L]	[1L]	[.Q]
SL1.30.A40.75	No	No	4	6	-	96970829	96970834	-	96970832	No
	Yes	No	4	6	-	96971294	96971299	-	96971297	No
	No	Yes	4	6	-	96971760	96971765	-	96971763	No
	Yes	Yes	4	6	-	96972227	96972232	-	96972230	No
	No	No	4	6	-	97662111	97662116	-	97661973	Yes
	Yes	No	4	6	-	97662166	97662171	-	97662017	Yes
SL1.30.A40.100	No	No	4	6	-	96970837	96970842	-	96970840	No
	Yes	No	4	6	-	96971302	96971307	-	96971305	No
	No	Yes	4	6	-	96971768	96971773	-	96971771	No
	Yes	Yes	4	6	-	96972235	96972240	-	96972238	No
	No	No	4	6	-	97662112	97662117	-	97661974	Yes
	Yes	No	4	6	-	97662167	97662172	-	97662018	Yes
SL1.40.A40.55	No	No	4	6	-	96970845	96970855	-	96970848	No
	Yes	No	4	6	-	96971310	96971315	-	96971313	No
	No	Yes	4	6	-	96971776	96971781	-	96971779	No
	Yes	Yes	4	6	-	96972243	96972248	-	96972246	No
	No	No	4	6	-	97662118	97662121	-	97661975	Yes
	Yes	No	4	6	-	97662173	97662176	-	97662019	Yes
SL1.40.A40.75	No	No	4	6	-	96970853	96970858	-	96970856	No
	Yes	No	4	6	-	96971318	96971323	-	96971321	No
	No	Yes	4	6	-	96971784	96971789	-	96971787	No
	Yes	Yes	4	6	-	96972251	96972256	-	96972254	No
	No	No	4	6	-	97662119	97662122	-	97661976	Yes
	Yes	No	4	6	-	97662174	97662177	-	97662020	Yes
SL1.40.A40.100	No	No	4	6	-	96970861	96970866	-	96970864	No
	Yes	No	4	6	-	96971326	96971331	-	96971329	No
	No	Yes	4	6	-	96971792	96971797	-	96971795	No
	Yes	Yes	4	6	-	96972259	96972264	-	96972262	No
	No	No	4	6	-	97662120	97662123	-	97661977	Yes
	Yes	No	4	6	-	97662175	97662178	-	97662021	Yes
SL1.40.A60.55	No	No	4	6	-	96970869	96970874	-	96970872	No
	Yes	No	4	6	-	96971334	96971339	-	96971337	No
	No	Yes	4	6	-	96971800	96971805	-	96971803	No
	Yes	Yes	4	6	-	96972267	96972272	-	96972270	No
	No	No	4	6	-	97662124	97662127	-	97661978	Yes
	Yes	No	4	6	-	97662179	97662182	-	97662022	Yes
SL1.40.A60.75	No	No	4	6	-	96970877	96970882	-	96970880	No
	Yes	No	4	6	-	96971342	96971347	-	96971345	No
	No	Yes	4	6	-	96971808	96971813	-	96971811	No
	Yes	Yes	4	6	-	96972275	96972280	-	96972278	No
	No	No	4	6	-	97662125	97662128	-	97661979	Yes
	Yes	No	4	6	-	97662180	97662183	-	97662023	Yes
SL1.40.A60.100	No	No	4	6	-	96970885	96970890	-	96970888	No
	Yes	No	4	6	-	96971350	96971355	-	96971353	No
	No	Yes	4	6	-	96971816	96971821	-	96971819	No
	Yes	Yes	4	6	-	96972283	96972288	-	96972286	No
	No	No	4	6	-	97662126	97662129	-	97661980	Yes
	Yes	No	4	6	-	97662181	97662184	-	97662024	Yes

Single channel Q versions will be available from 3rd quarter of 2011. Contact Grundfos for more information.

Product range

SLV pump range

Pump type	Sensor	Explosion proof	Poles	Hz	Voltage					Stainless steel impeller
					3x208-230V DOL	3x208-230V Δ / 460V Y	3x460V Y/D	3x575V DOL	3x575V Y/D	
	[.A]	[.EX]	[.2]	[.6]	[0J]	[1J]	[1H]	[0L]	[1L]	[.Q]
SLV.25.A25.30	No	No	2	6	-	96970893	96970895	-	96970896	No
	Yes	No	2	6	-	96971358	96971360	-	96971361	No
	No	Yes	2	6	-	96971824	96971826	-	96971827	No
	Yes	Yes	2	6	-	96972291	96972293	-	96972294	No
	No	No	2	6	-	-		-		Yes
	Yes	No	2	6	-			-		Yes
SLV.25.A25.40	No	No	2	6	-	96970899	96970904	-	96970902	No
	Yes	No	2	6	-	96971364	96971369	-	96971367	No
	No	Yes	2	6	-	96971830	96971835	-	96971833	No
	Yes	Yes	2	6	-	96972297	96972302	-	96972300	No
	No	No	2	6	-			-		Yes
	Yes	No	2	6	-			-		Yes
SLV.25.A25.55	No	No	2	6	-	96970907	96970912	-	96970910	No
	Yes	No	2	6	-	96971372	96971377	-	96971375	No
	No	Yes	2	6	-	96971838	96971843	-	96971841	No
	Yes	Yes	2	6	-	96972305	96972310	-	96972308	No
	No	No	2	6	-	-	-	-	-	Yes
	Yes	No	2	6	-	-	-	-	-	Yes
SLV.25.A30.30	No	No	2	6	-	96970915	96970917	-	96970918	No
	Yes	No	2	6	-	96971380	96971382	-	96971383	No
	No	Yes	2	6	-	96971846	96971848	-	96971849	No
	Yes	Yes	2	6	-	96972313	96972315	-	96972316	No
	No	No	2	6	-			-		Yes
	Yes	No	2	6	-			-		Yes
SLV.25.A30.40	No	No	2	6	-	96970921	96970926	-	96970924	No
	Yes	No	2	6	-	96971386	96971391	-	96971389	No
	No	Yes	2	6	-	96971852	96971857	-	96971855	No
	Yes	Yes	2	6	-	96972319	96972324	-	96972322	No
	No	No	2	6	-			-		Yes
	Yes	No	2	6	-			-		Yes
SLV.25.A30.55	No	No	2	6	-	96970929	96970934	-	96970932	No
	Yes	No	2	6	-	96971394	96971399	-	96971397	No
	No	Yes	2	6	-	96971860	96971865	-	96971863	No
	Yes	Yes	2	6	-	96972327	96972332	-	96972330	No
	No	No	2	6	-			-		Yes
	Yes	No	2	6	-			-		Yes
SLV.30.A30.15	No	No	4	6	96970937	96970935	-	96970940	96970956	No
	Yes	No	4	6	96971402	96971400	-	96971405	96971421	No
	No	Yes	4	6	96971868	96971866	-	96971871	96971887	No
	Yes	Yes	4	6	96972335	96972333	-	96972338	96972354	No
	No	No	4	6	97638699	97638722	-	97638628	97638641	Yes
	Yes	No	4	6	97639015	97639018	-	97638669	97638672	Yes
SLV.30.A30.18	No	No	4	6	96970943	96970941	-	96970946	96970958	No
	Yes	No	4	6	96971408	96971406	-	96971411	96971423	No
	No	Yes	4	6	96971874	96971872	-	96971877	96971889	No
	Yes	Yes	4	6	96972341	96972339	-	96972344	96972356	No
	No	No	4	6	97638700	97638723	-	97638629	97638642	Yes
	Yes	No	4	6	97639016	97639019	-	97638670	97638673	Yes

Vortex Q versions are available from june 2010. Contact Grundfos for more information.

Product range

Pump type	Sensor	Explosion proof	Poles	Hz	Voltage					Stainless steel impeller
					3x208-230V DOL	3x208-230V Δ / 460V Y	3x460V Y/D	3x575V DOL	3x575V Y/D	
	[.A]	[.EX]	[.2]	[.6]	[0J]	[1J]	[1H]	[0L]	[1L]	[.Q]
SLV.30.A30.20	No	No	4	6	96970949	96970947	-	96970952	96970970	No
	Yes	No	4	6	96971414	96971412	-	96971417	96971435	No
	No	Yes	4	6	96971880	96971878	-	96971883	96971901	No
	Yes	Yes	4	6	96972347	96972345	-	96972350	96972368	No
	No	No	4	6	97638721	97638724	-	97638630	97638643	Yes
	Yes	No	4	6	97639017	97639020	-	97638671	97638674	Yes
SLV.30.A30.30	No	No	4	6	-	96970955	96970963	-	96970953	No
	Yes	No	4	6	-	96971420	96971428	-	96971418	No
	No	Yes	4	6	-	96971886	96971894	-	96971884	No
	Yes	Yes	4	6	-	96972353	96972361	-	96972351	No
	No	No	4	6	-	97638725	97638732	-	97638644	Yes
	Yes	No	4	6	-	97639031	97639038	-	97638675	Yes
SLV.30.A30.55	No	No	2	6	-	96970961	96970966	-	96970964	No
	Yes	No	2	6	-	96971426	96971431	-	96971429	No
	No	Yes	2	6	-	96971892	96971897	-	96971895	No
	Yes	Yes	2	6	-	96972359	96972364	-	96972362	No
	No	No	2	6	-	97638727	97638734	-	97638646	Yes
	Yes	No	2	6	-	97639033	97639040	-	97638677	Yes
SLV.30.A30.55	No	No	4	6	-	96970969	96970974	-	96970972	No
	Yes	No	4	6	-	96971434	96971439	-	96971437	No
	No	Yes	4	6	-	96971900	96971905	-	96971903	No
	Yes	Yes	4	6	-	96972367	96972372	-	96972370	No
	No	No	4	6	-	97638726	97638733	-	97638645	Yes
	Yes	No	4	6	-	97639032	97639039	-	97638676	Yes
SLV.30.A30.80	No	No	2	6	-	96970977	96970982	-	96970980	No
	Yes	No	2	6	-	96971442	96971447	-	96971445	No
	No	Yes	2	6	-	96971908	96971913	-	96971911	No
	Yes	Yes	2	6	-	96972375	96972380	-	96972378	No
	No	No	2	6	-	97638728	97638735	-	97638647	Yes
	Yes	No	2	6	-	97639034	97639041	-	97638678	Yes
SLV.30.A30.100	No	No	2	6	-	96970985	96970990	-	96970988	No
	Yes	No	2	6	-	96971450	96971455	-	96971453	No
	No	Yes	2	6	-	96971916	96971922	-	96971920	No
	Yes	Yes	2	6	-	96972383	96972388	-	96972386	No
	No	No	2	6	-	97638729	97638736	-	97638648	Yes
	Yes	No	2	6	-	97639035	97639042	-	97638679	Yes
SLV.30.A30.125	No	No	2	6	-	96970993	96970998	-	96970996	No
	Yes	No	2	6	-	96971458	96971463	-	96971461	No
	No	Yes	2	6	-	96971925	96971930	-	96971928	No
	Yes	Yes	2	6	-	96972391	96972396	-	96972394	No
	No	No	2	6	-	97638730	97638737	-	97638649	Yes
	Yes	No	2	6	-	97639036	97639043	-	97638680	Yes
SLV.30.A30.150	No	No	2	6	-	96971001	96971006	-	96971004	No
	Yes	No	2	6	-	96971466	96971471	-	96971469	No
	No	Yes	2	6	-	96971933	96971938	-	96971936	No
	Yes	Yes	2	6	-	96972399	96972404	-	96972402	No
	No	No	2	6	-	97638731	97638738	-	97638650	Yes
	Yes	No	2	6	-	97639037	97639044	-	97638681	Yes

Vortex Q versions are available from june 2010. Contact Grundfos for more information.

Product range

Pump type	Sensor	Explosion proof	Poles	Hz	Voltage					Stainless steel impeller
					3x208-230V DOL	3x208-230V Δ / 460V Y	3x460V Y/D	3x575V DOL	3x575V Y/D	
	[.A]	[.EX]	[.2]	[.6]	[0J]	[1J]	[1H]	[0L]	[1L]	[.Q]
SLV.30.A40.15	No	No	4	6	96971009	96971007	-	96971012	96971026	No
	Yes	No	4	6	96971474	96971472	-	96971477	96971491	No
	No	Yes	4	6	96971941	96971939	-	96971944	96971958	No
	Yes	Yes	4	6	96972407	96972405	-	96972410	96972424	No
	No	No	4	6	97638739	97638742	-	97638651	97638654	Yes
	Yes	No	4	6	97639045	97639048	-	97638682	97638685	Yes
SLV.30.A40.18	No	No	4	6	96971015	96971013	-	96971018	96971029	No
	Yes	No	4	6	96971480	96971478	-	96971483	96971494	No
	No	Yes	4	6	96971947	96971945	-	96971950	96971961	No
	Yes	Yes	4	6	96972413	96972411	-	96972416	96972427	No
	No	No	4	6	97638740	97638743	-	97638652	97638655	Yes
	Yes	No	4	6	97639046	97639049	-	97638683	97638686	Yes
SLV.30.A40.20	No	No	4	6	96971021	96971019	-	96971024	96971040	No
	Yes	No	4	6	96971486	96971484	-	96971489	96971505	No
	No	Yes	4	6	96971953	96971951	-	96971956	96971972	No
	Yes	Yes	4	6	96972419	96972417	-	96972422	96972438	No
	No	No	4	6	97638741	97638744	-	97638653	97638656	Yes
	Yes	No	4	6	97639047	97639050	-	97638684	97638687	Yes
SLV.30.A40.30	No	No	4	6	-	96971027	96971043	-	96971025	No
	Yes	No	4	6	-	96971492	97622856	-	96971490	No
	No	Yes	4	6	-	96971959	96971975	-	96971957	No
	Yes	Yes	4	6	-	96972425	96972441	-	96972423	No
	No	No	4	6	-	97638745	97638752	-	97638657	Yes
	Yes	No	4	6	-	97639051	97639058	-	97638688	Yes
SLV.30.A40.55	No	No	2	6	-	96971033	96971038	-	96971036	No
	Yes	No	2	6	-	96971498	96971553	-	96971551	No
	No	Yes	2	6	-	96971965	96971970	-	96971968	No
	Yes	Yes	2	6	-	96972431	96972436	-	96972434	No
	No	No	2	6	-	97638747	97638754	-	97638659	Yes
	Yes	No	2	6	-	97639053	97639060	-	97638690	Yes
SLV.30.A40.55	No	No	4	6	-	96971041	96971046	-	96971044	No
	Yes	No	4	6	-	96971556	96971511	-	96971559	No
	No	Yes	4	6	-	96971973	96971978	-	96971976	No
	Yes	Yes	4	6	-	96972439	96972444	-	96972442	No
	No	No	4	6	-	97638746	97638753	-	97638658	Yes
	Yes	No	4	6	-	97639052	97639059	-	97638689	Yes
SLV.30.A40.80	No	No	2	6	-	96971049	96971054	-	96971052	No
	Yes	No	2	6	-	96971514	96971519	-	96971517	No
	No	Yes	2	6	-	96971981	96971986	-	96971984	No
	Yes	Yes	2	6	-	96972447	96972453	-	96972450	No
	No	No	2	6	-	97638748	97638755	-	97638660	Yes
	Yes	No	2	6	-	97639054	97639061	-	97638691	Yes
SLV.30.A40.100	No	No	2	6	-	96971057	96971062	-	96971060	No
	Yes	No	2	6	-	96971522	96971527	-	96971525	No
	No	Yes	2	6	-	96971989	96971994	-	96971992	No
	Yes	Yes	2	6	-	96972456	96972462	-	96972460	No
	No	No	2	6	-	97638749	97638756	-	97638661	Yes
	Yes	No	2	6	-	97639055	97639062	-	97638692	Yes

Vortex Q versions are available from june 2010. Contact Grundfos for more information.

Product range

Pump type	Sensor	Explosion proof	Poles	Hz	Voltage					Stainless steel impeller
					3x208-230V DOL	3x208-230V Δ / 460V Y	3x460V Y/D	3x575V DOL	3x575V Y/D	
	[.A]	[.EX]	[.2]	[.6]	[0J]	[1J]	[1H]	[0L]	[1L]	[.Q]
SLV.30.A40.125	No	No	2	6	-	96971065	96971070	-	96971068	No
	Yes	No	2	6	-	96971530	96971535	-	96971533	No
	No	Yes	2	6	-	96971997	96972002	-	96972000	No
	Yes	Yes	2	6	-	96972465	96972470	-	96972468	No
	No	No	2	6	-	97638750	97638757	-	97638662	Yes
	Yes	No	2	6	-	97639056	97639063	-	97638693	Yes
SLV.30.A40.150	No	No	2	6	-	96971073	96971078	-	96971076	No
	Yes	No	2	6	-	96971538	96971543	-	96971541	No
	No	Yes	2	6	-	96972005	96972010	-	96972008	No
	Yes	Yes	2	6	-	96972473	96972478	-	96972476	No
	No	No	2	6	-	97638751	97638758	-	-	Yes
	Yes	No	2	6	-	97638751	97638758	-	97638663	Yes
SLV.40.A40.40	No	No	4	6	-	97639057	97639064	-	97638694	No
	Yes	No	4	6	-	96971546	97622857	-	96971549	No
	No	Yes	4	6	-	96972013	96972018	-	96972016	No
	Yes	Yes	4	6	-	96972481	96972486	-	96972484	No
	No	No	4	6	-	97638759	97638763	-	97638664	Yes
	Yes	No	4	6	-	97639065	97639069	-	97638695	Yes
SLV.40.A40.55	No	No	4	6	-	96971089	96971094	-	96971092	No
	Yes	No	4	6	-	96971554	97622860	-	96971557	No
	No	Yes	4	6	-	96972021	96972026	-	96972024	No
	Yes	Yes	4	6	-	96972489	96972494	-	96972492	No
	No	No	4	6	-	97638760	97638764	-	97638665	Yes
	Yes	No	4	6	-	97639066	97639070	-	97638696	Yes
SLV.40.A40.75	No	No	4	6	-	96971097	96971102	-	96971100	No
	Yes	No	4	6	-	96971562	96971567	-	96971565	No
	No	Yes	4	6	-	96972029	96972034	-	96972032	No
	Yes	Yes	4	6	-	96972497	96972502	-	96972500	No
	No	No	4	6	-	97638761	97638765	-	97638666	Yes
	Yes	No	4	6	-	97639067	97639071	-	97638697	Yes
SLV.40.A40.100	No	No	4	6	-	96971105	96971110	-	96971108	No
	Yes	No	4	6	-	96971570	96971575	-	96971573	No
	No	Yes	4	6	-	96972037	96972043	-	96972041	No
	Yes	Yes	4	6	-	96972505	96972510	-	96972508	No
	No	No	4	6	-	97638762	97638766	-	97638667	Yes
	Yes	No	4	6	-	97639068	97639072	-	97638698	Yes

Vortex Q versions are available from june 2010. Contact Grundfos for more information.

Variants

List of variants

Motor		
Various cable lengths	**Note:** When using a different cable length than standard, a new cable cross section must be calculated	50 ft (15 m)
		65 ft (20 m)
		80 ft (25 m)
		100 ft (30 m)
		130 ft (40 m)
		165 ft (50 m)
EMC power cables	Screened power cables for variable-speed drives	33 ft (10 m)
		50 ft (15 m)
		65 ft (20 m)
		80 ft (25 m)
		100 ft (30 m)
		130 ft (40 m)
		165 ft (50 m)
Special motor		Special voltage

Tests		
Test at specified duty on standard impeller curve		
Trimmed impeller for specified duty test		
Additional test of entire QH curve (including report)	Duty points from pump performance curve	
Different test standard	Efficiency guaranteed by Grundfos	Hydraulic Institute 1.6-2000 acceptance level B
Customer requested duty point	Test according to customer specified duty point on standard pump curve	Hydraulic Institute 1.6-2000 acceptance level B
Vibration test (including report)	According to Grundfos factory quality standard	
String test	Contact Grundfos	
Witness test	Contact Grundfos	

Certificates		
ATEX-aproved pump report	Special Grundfos report. Contact Grundfos	
Certificate of compliance with order	According to EN10204 2.1.	according to annex A grade 1 and 2
Pump certificate	According to EN10204 2.2	according to annex A grade 1 and 2
Insepction certificate	According to EN10204 3.1	according to annex A grade 1 and 2
Material specification report	According to EN10204 3.1B	
Material report with certificate	According to EN10204 3.2	Material supplier information
Inspection certificate Lloyds Register	According to EN10204 3.2	
Inspection certificate DNV (Det Norske Veritas)	According to EN10204 3.2	
Inspection certificate Germanisher Lloyd	According to EN10204 3.2	
Inspection certificate American Bureau of shipping	According to EN10204 3.2	
Inspection certificate Bureau Veritas	According to EN10204 3.2	
Registro Italiano Navale Argenture	According to EN10204 3.2	
Other 3rd-party test certificate	Contact Grundfos	

Miscellaneous	
FKM sealing (optional)	Contact Grundfos
Cable protection hose	Contact Grundfos
Stainless steel impeller	Contact Grundfos
Ceramic coating of impeller and pump housing	Contact Grundfos
Extra epoxy coating 300 micron	Contact Grundfos
Top coating (black RAL9005, red RAL 3000 and other colors	Contact Grundfos
Special packaging	Contact Grundfos
Special nameplate	Contact Grundfos
Other variants	Contact Grundfos

Construction

SL1

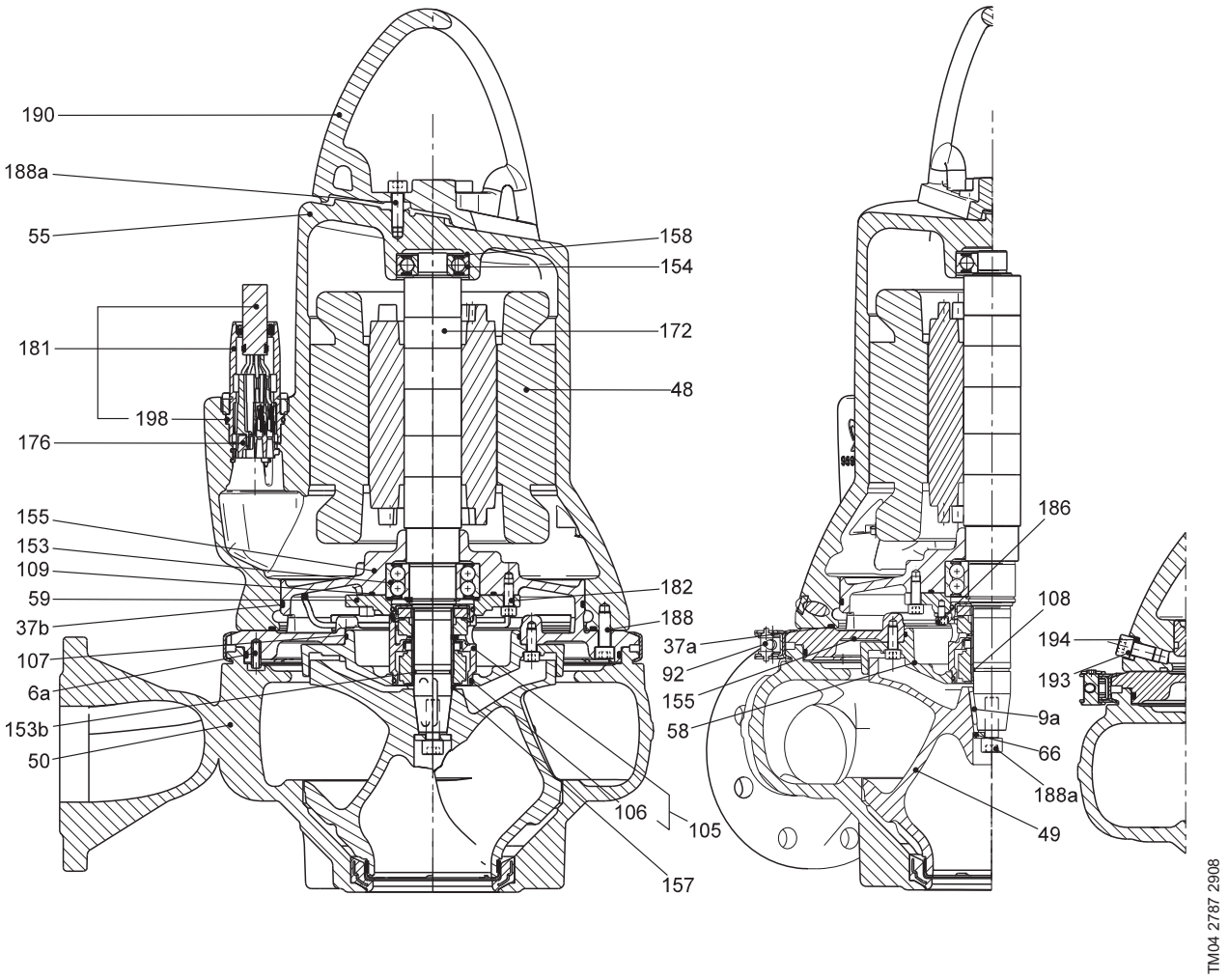


Fig. 3 Sectional drawing, SL1 pumps without sensor

Construction

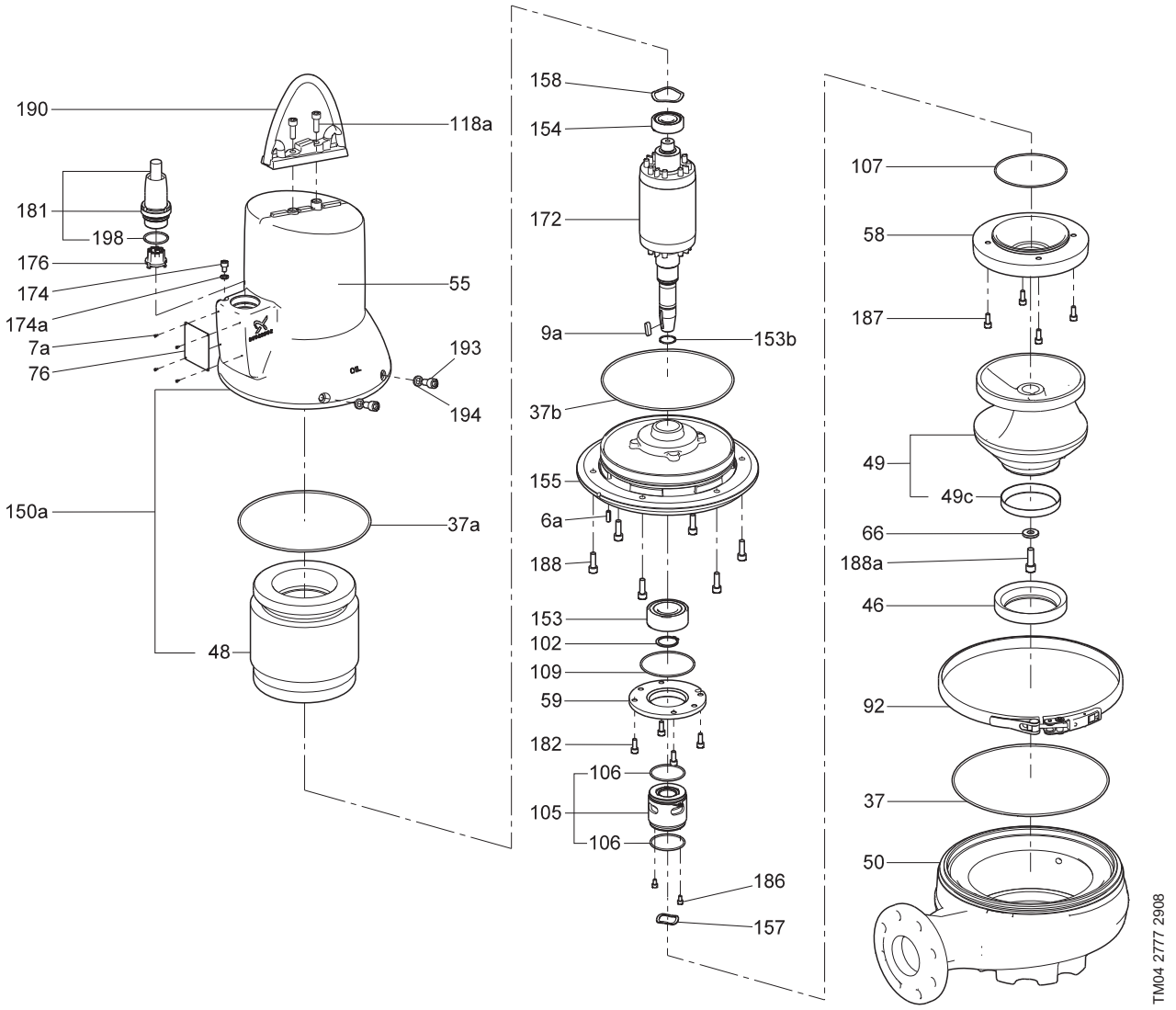


Fig. 4 Exploded view, SL1 pumps without sensor

Construction

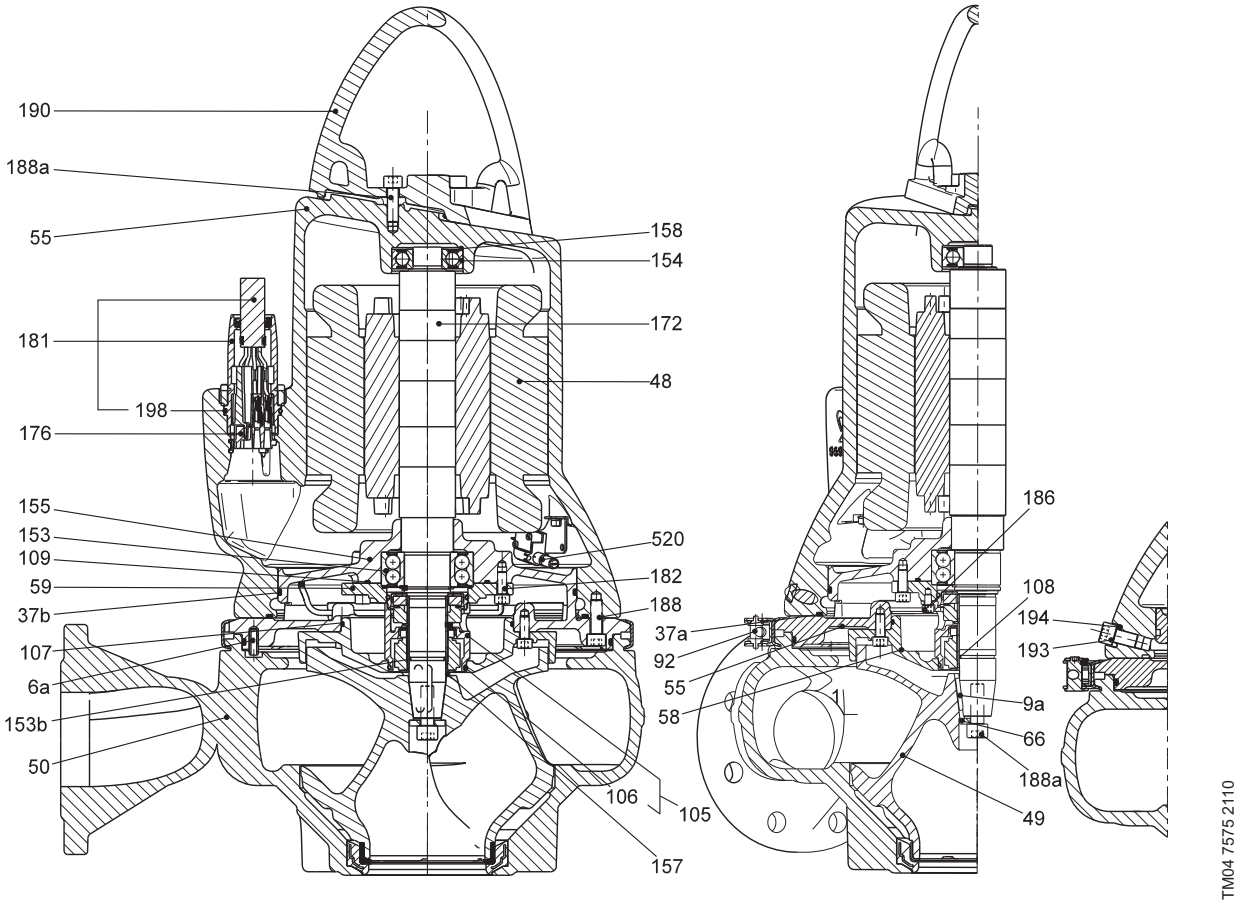


Fig. 5 Sectional drawing, SL1 pumps EX version

Construction

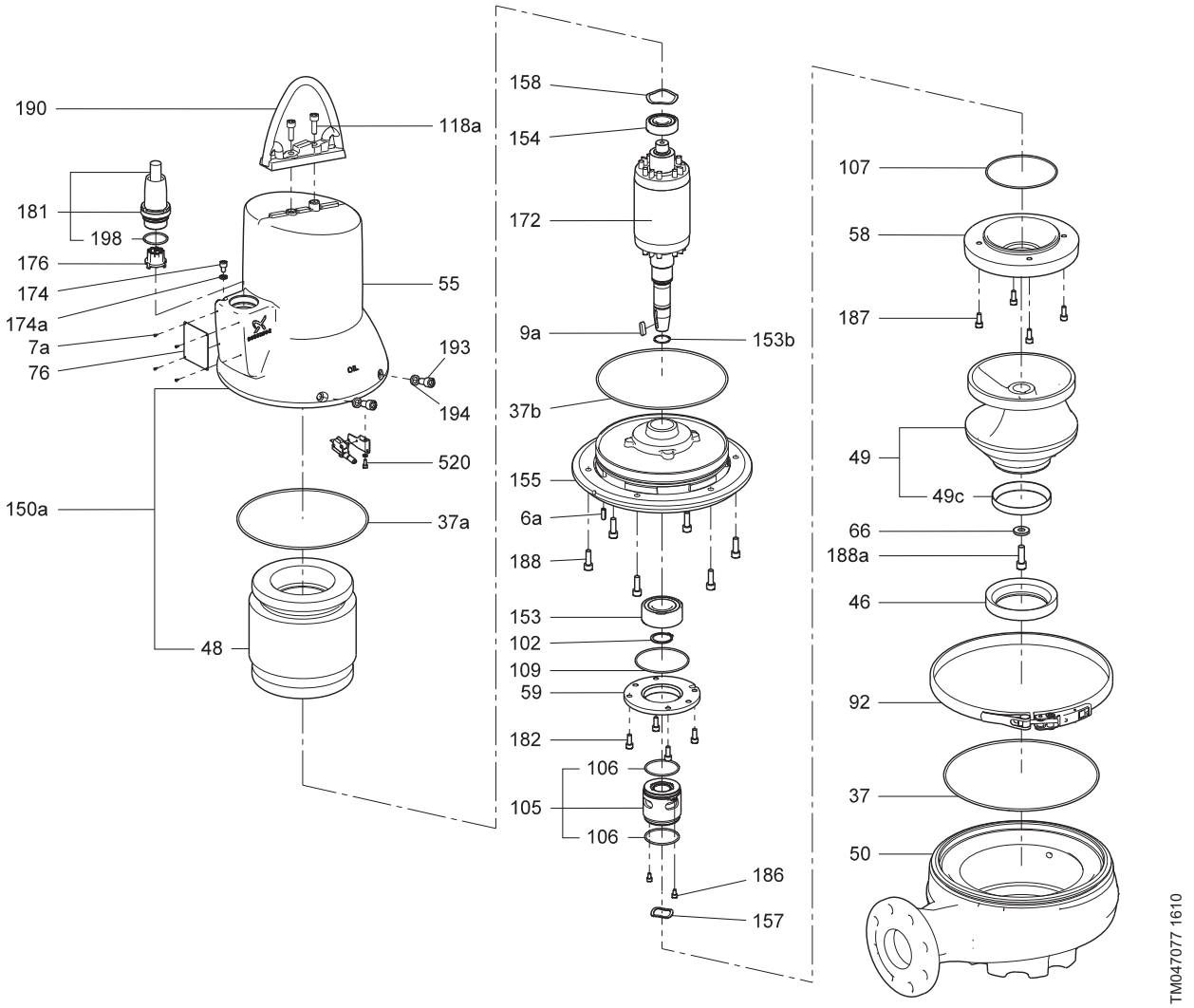


Fig. 6 Exploded view, SL1 pumps EX version

Construction

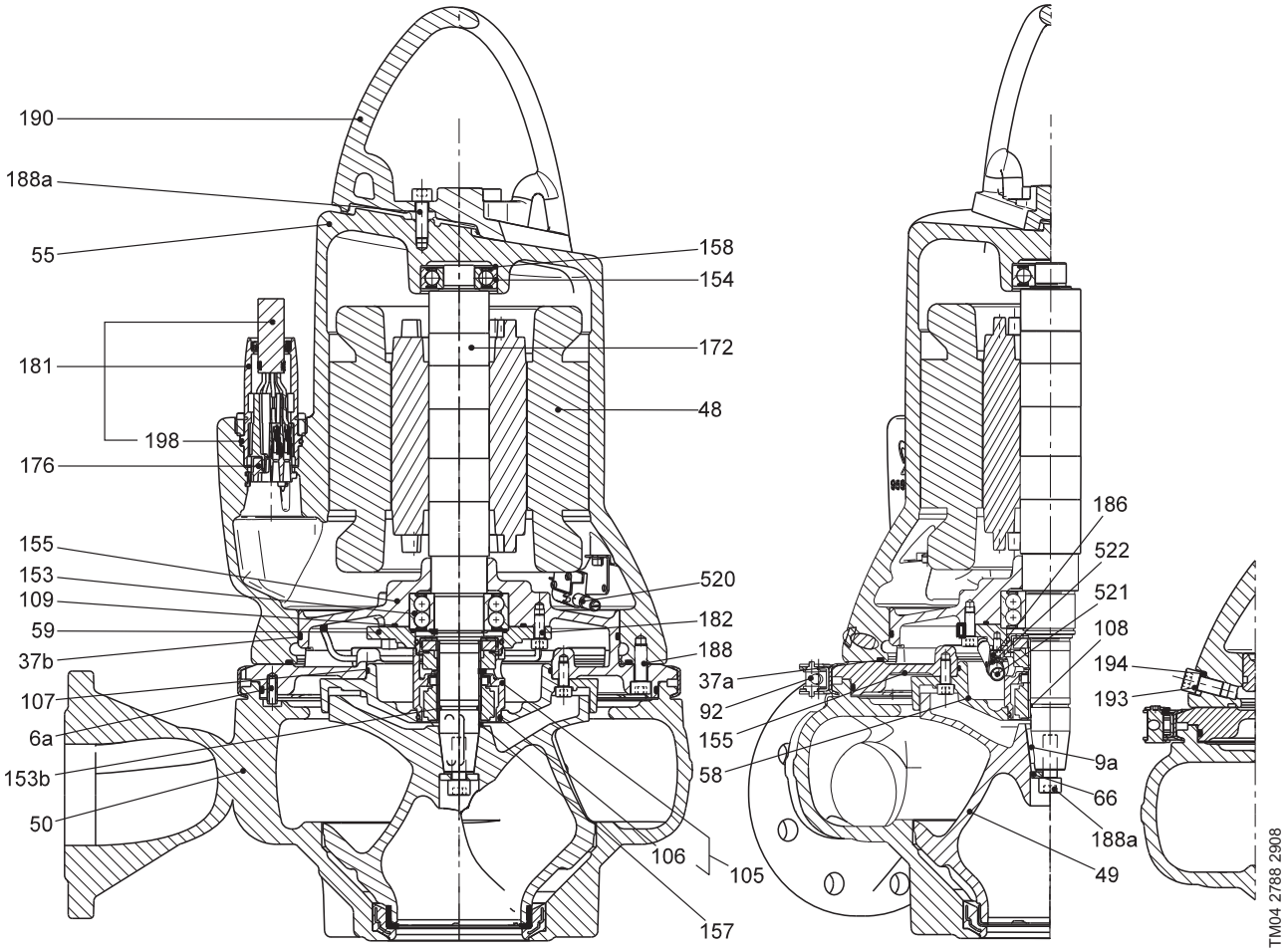


Fig. 7 Sectional drawing, SL1 pumps with sensor

Construction

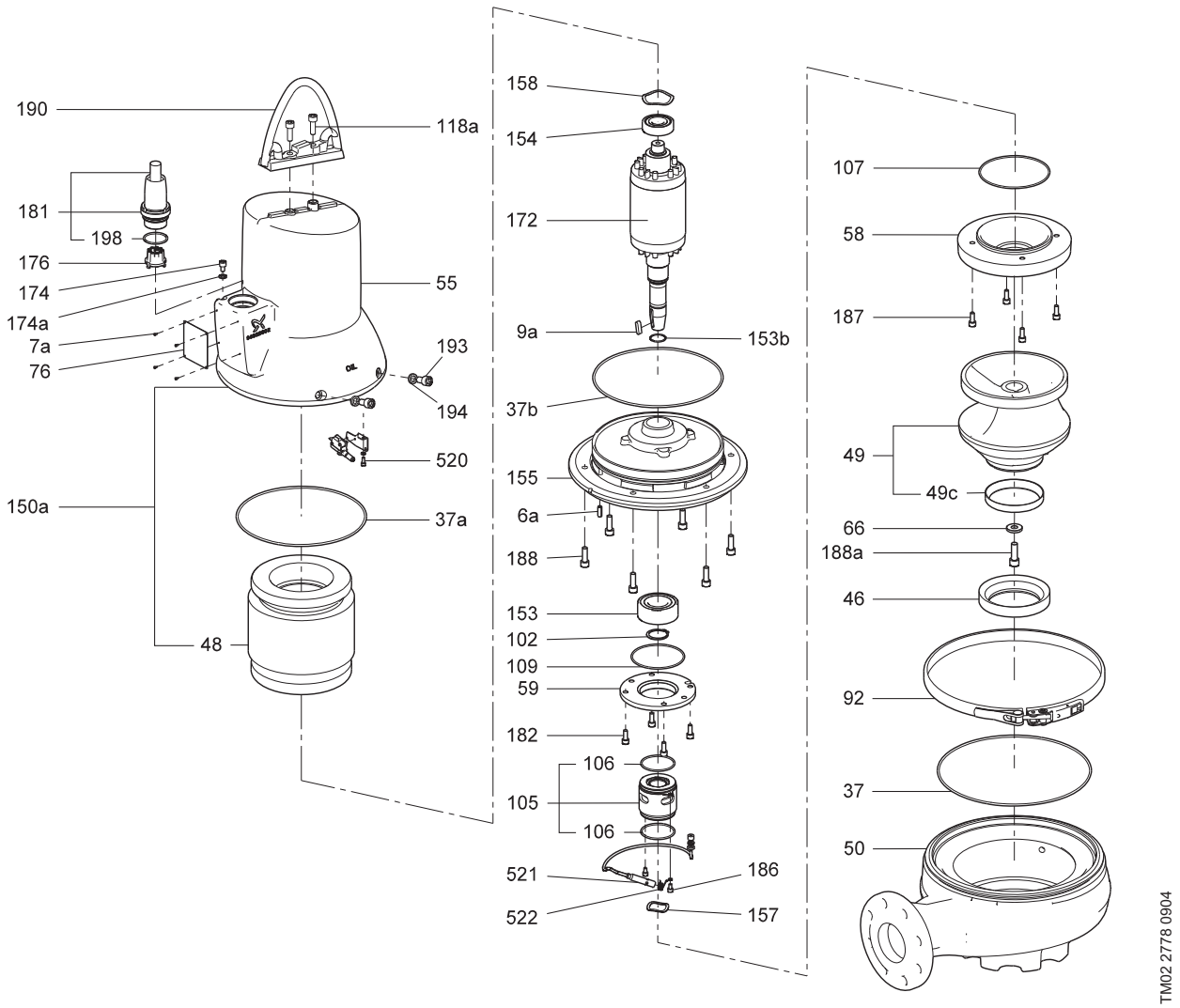


Fig. 8 Exploded view, SL1 pumps with sensor

SLV

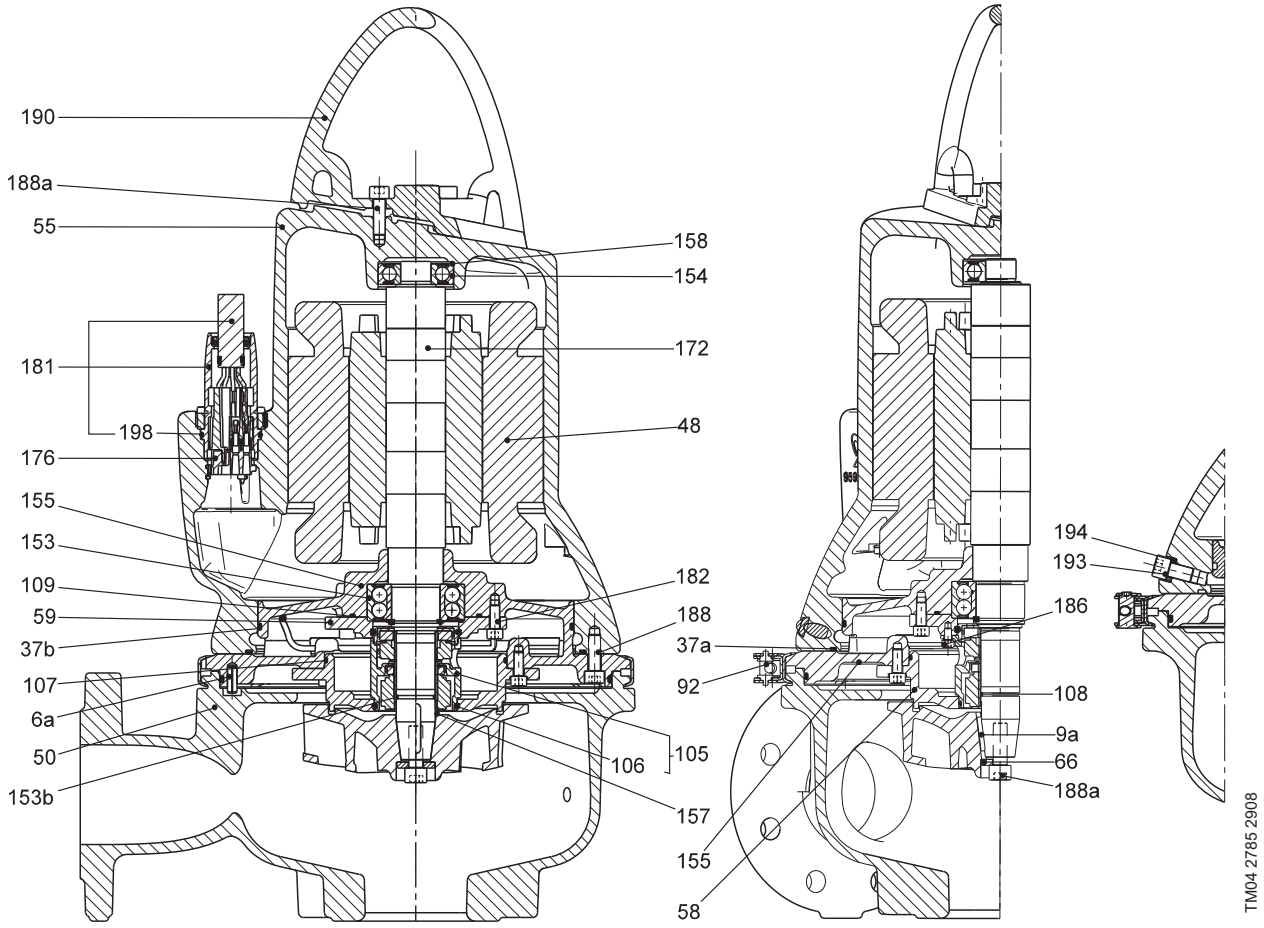


Fig. 9 Exploded view, SLV pumps without sensor

Construction

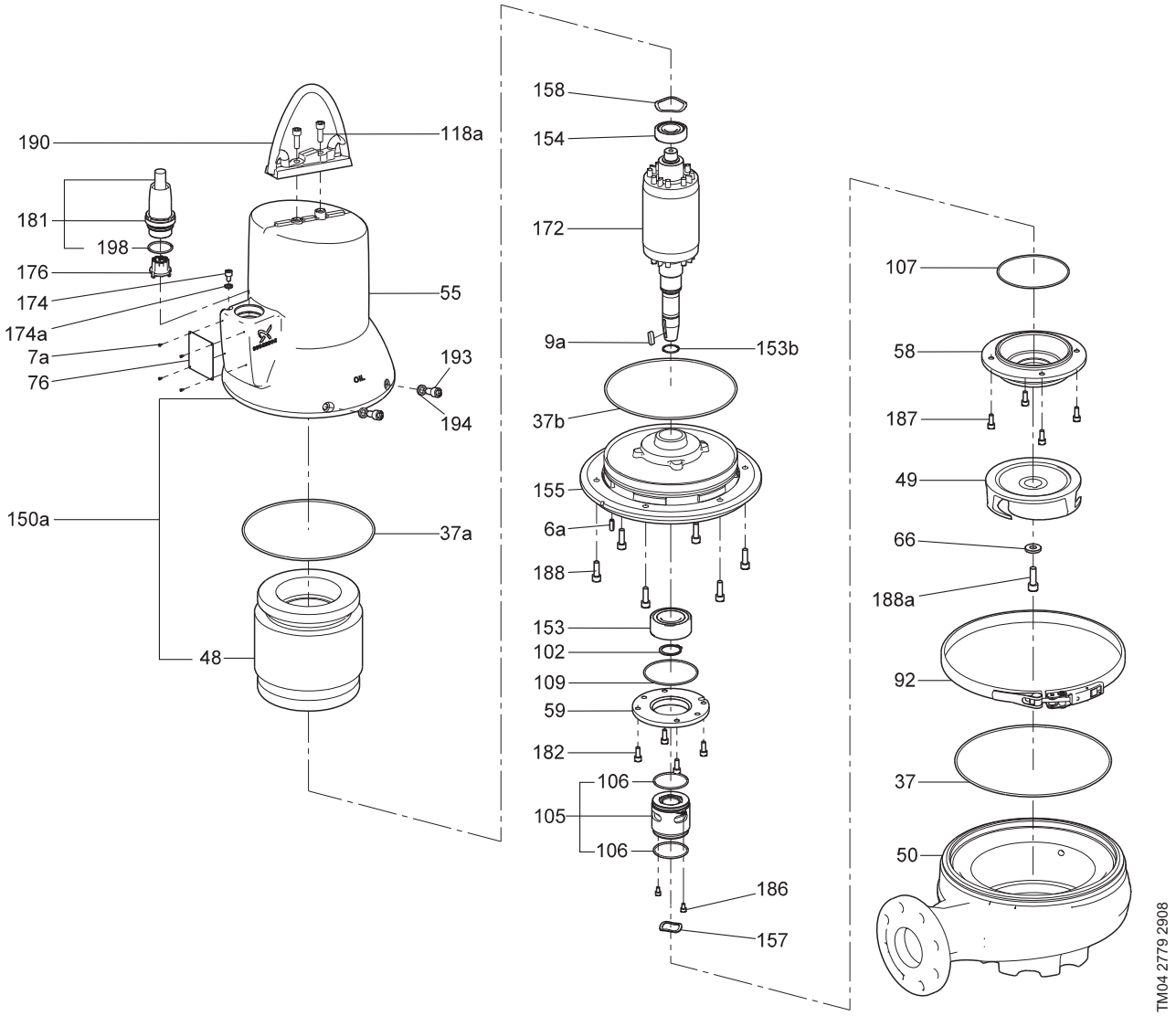


Fig. 10 Sectional drawing, SLV pumps without sensor

Construction

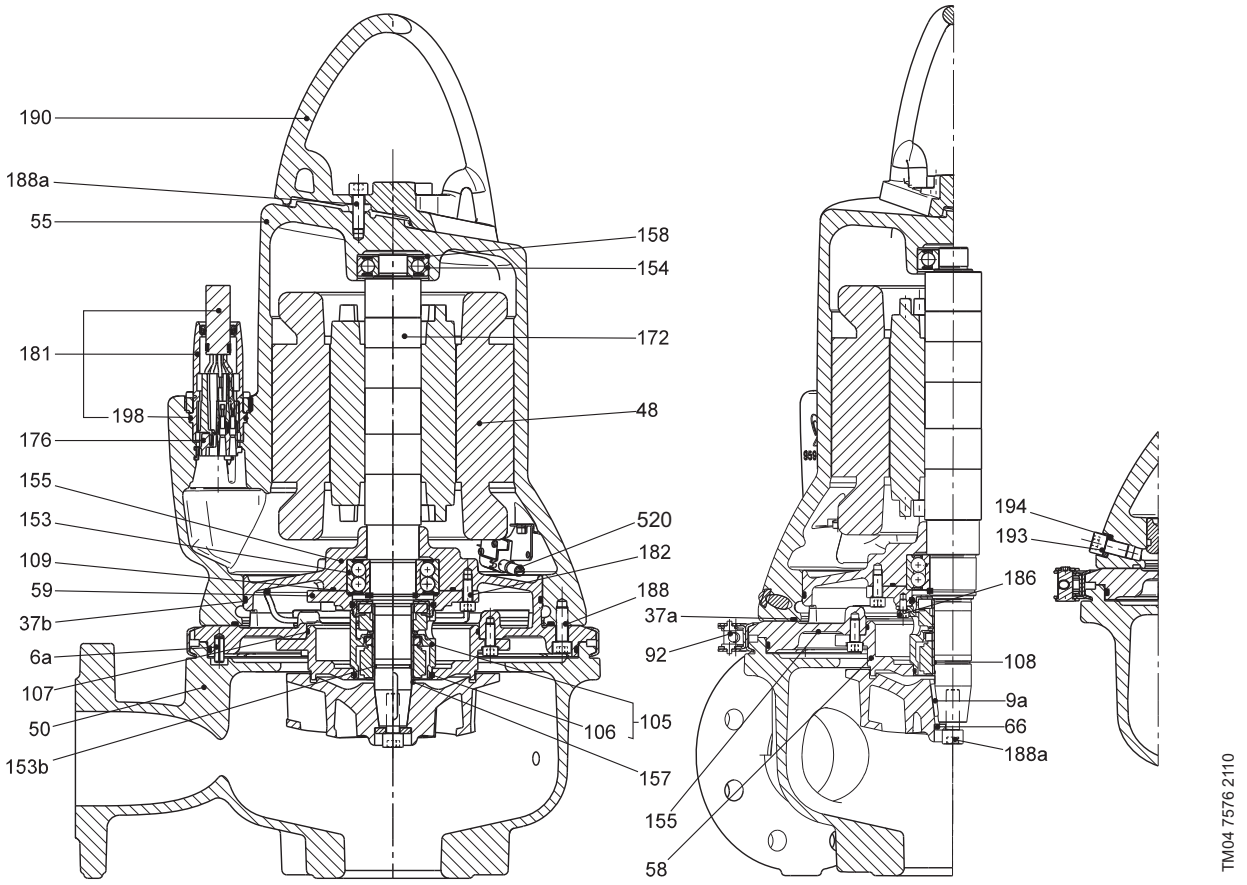


Fig. 11 Exploded view, SLV pumps EX version

Construction

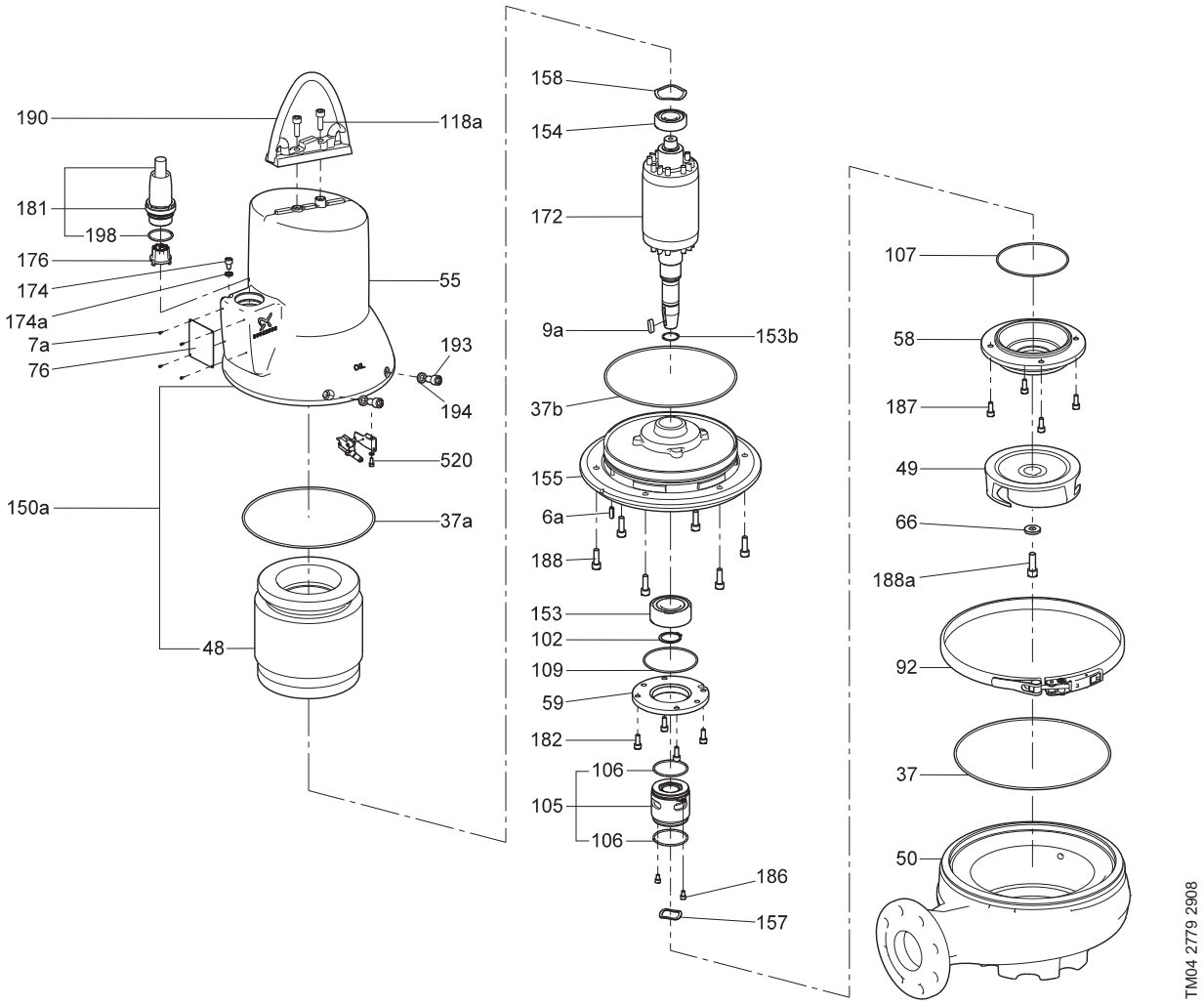


Fig. 12 Sectional drawing, SLV pumps EX version

Construction

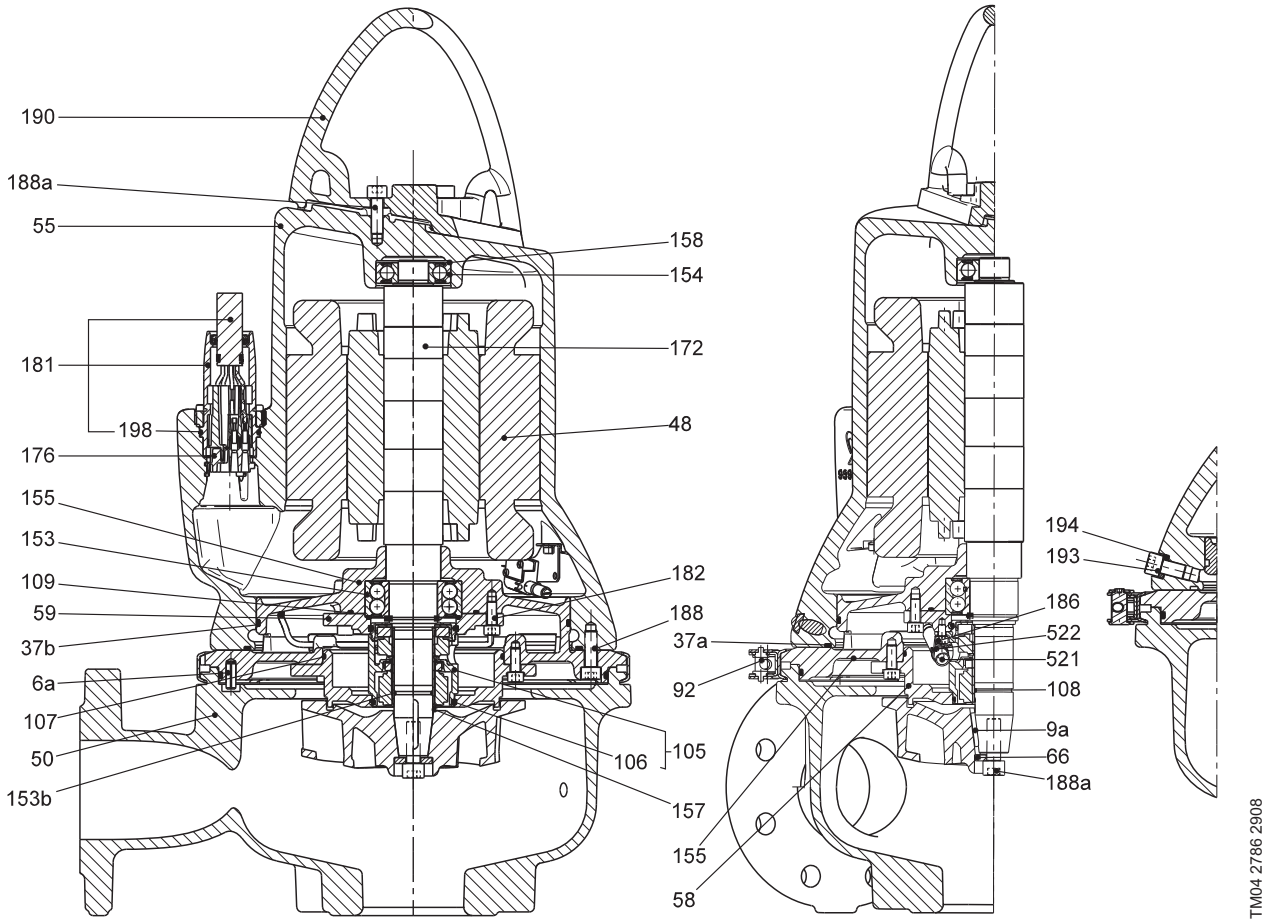


Fig. 13 Sectional drawing, SLV pumps with sensor

Construction

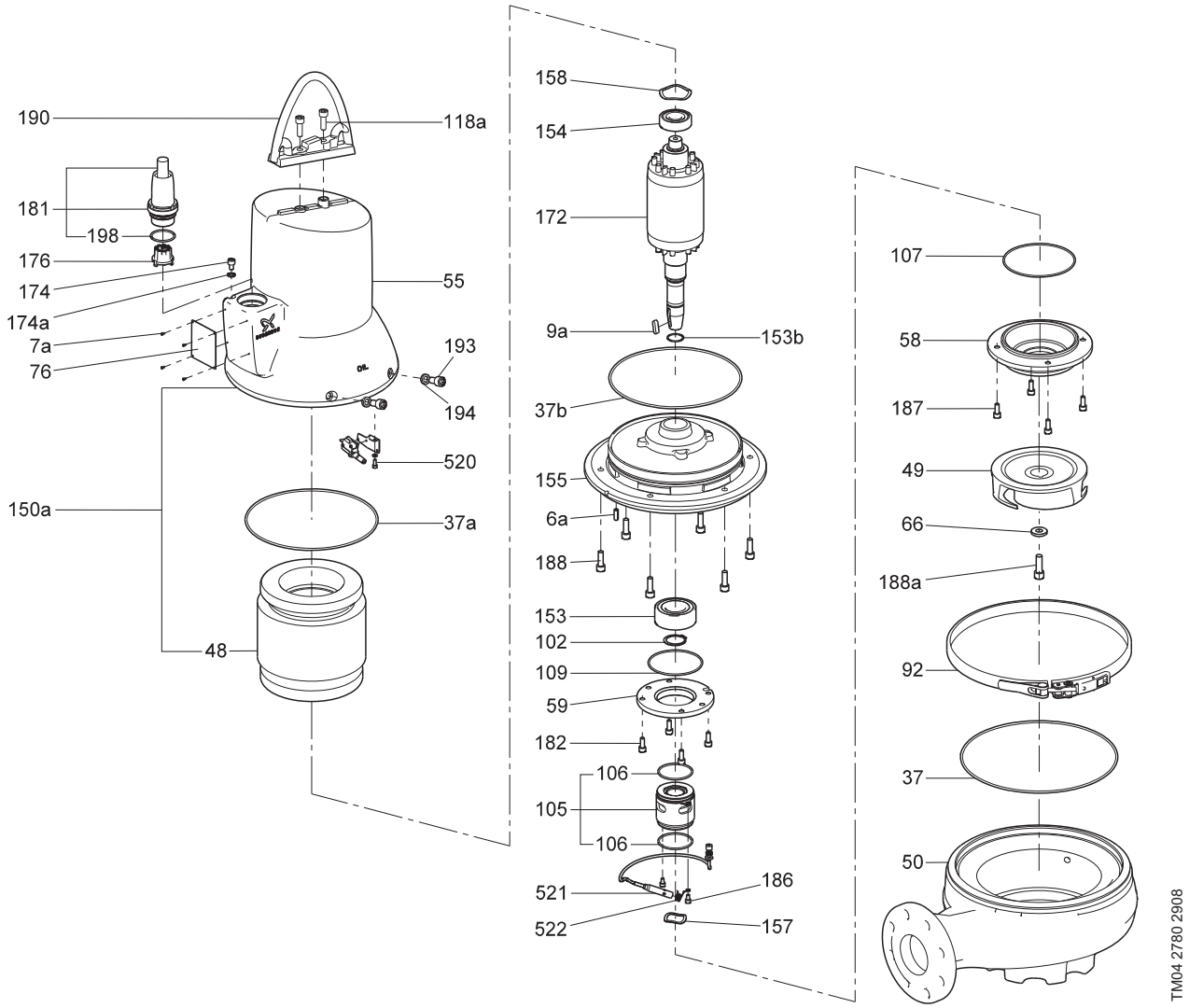


Fig. 14 Exploded view, SLV pumps with sensor

Construction

Components and material specification

Pos.	Component	Material	DIN W. –Nr. / EN standard	AISI / ASTM
6a	Tubular pin D8 x 22 A2	Stainless steel	1.4301	304
7a	Blank rivet 2.4 x 6 A2	Stainless steel	1.4301	304
37	O-Ring	NBR rubber		
37a	O-Ring	NBR rubber		
48	Stator package			
49	Impeller	Cast iron GG20	EN-JL 1030	
55	Stator housing	Cast iron GG20	EN-JL 1030	
58	Cover for oil chamber	Cast iron GG20	EN-JL 1030	
59	Bearing cover	Cast iron GG25	EN-JL 1040	
76	Nameplate	Stainless steel	1.4401	316
92	Clamp	Stainless steel	1.4401	316
102	Circlip			
105	Shaft seal cpl. (rotating part of MG1/25-G60 Q1Q1PGG stationary part of MG1/25-G60 Q1Q1PGG; rotating part of BT-AR/25 BXPFF stationary part of BT-AR/25 BXPFF)	Stainless steel, SiC/SiC Carbon/ceramic		
106	O-ring for shaft seal	NBR rubber		
107	O-ring (cover for oil chamber/cover for oil chamber)	NBR rubber		
109	O-ring for bearing cover D-end	NBR rubber		
150a	Stator housing complete with stator			
153	Bearing, D-end	Stainless steel		
153b	O-ring	NBR rubber		
154	Bearing, N-end	Stainless steel		
155	Oil chamber	Cast iron GG25	EN-JL1040	
157	Corrugated spring (bearing D-end)	Stainless steel		
158	Corrugated spring (bearing N-end)	Stainless steel		
172	Shaft with rotor	Regular iron/stainless steel	1.0570 1.4401	316
174	Earth screw, external	Stainless steel		
174a	Washer for external earth screw	Stainless steel		
176	Connector set (internal part)			
181	Cable with outer plug part	7G AWG 14 + 3G AWG 16		
182	Screw	Stainless steel	1.4436	316
186	Screw	Stainless steel	1.4436	316
188	Screw	Stainless steel	1.4436	316
190	Lifting handle	Stainless steel	1.4308	
193	Plug	Stainless steel	1.4436	316
194	Gasket			
198	O-ring	NBR rubber		
520	Moisture switch (only sensor versions)			
521	WIO sensor (only sensor versions)			
522	Bracket for WIO sensor (only sensor versions)	Stainless steel		

Product description

Features

Ball bearings

The bearings are greased for life.

Main bearings:

10 hp (7.5 kW) 4-pole, 12 hp (9.2 kW) 2-pole, 15 hp (11kW) 2-pole:	Angular contact bearing 3209B.2RS.C3.SYN.
4 hp (3 kW) 4-pole to 10 hp (7.5 kW) 2-pole:	Angular contact bearing 3208B.2RS.C3.SYN.

Support bearings: Single-row deep-groove ball bearing.

Shaft seal

The shaft seal consists of two mechanical seals and separates the motor from the pumped liquid.

The shaft seal is a cartridge seal for easy service. The combination of the primary and secondary seals in a cartridge results in shorter assembly length compared to traditional shaft seals. Furthermore, this design minimises the risk of incorrect fitting.

The primary seal is SiC/SiC and the secondary is carbon/ceramic.

Motor

The motor is a watertight, totally encapsulated motor.

Insulation class: H (356 °F (180 °C)).

Motor insulation fullfils NEMA MG1 part 31 for frequency converter duty.

Temperature rise class: A (1.5 to 8 hp) or class B (10 to 15 hp).

Enclosure class: IP68.

For motor protection and sensors, see section Sensors below.

Power cables

Standard cable

Cable type	Outer cable diameter [inch(mm)]	Bending radius	
		Fixed [inch(mm)]	Free [inch(mm)]
7 G AWG 16	0.523 (13.3)	1.25 (31.8)	1.875 (47.6)
4 G AWG 14 + 3 G 16 AWG	0.636 (16.2)	1.25 (31.8)	1.875 (47.6)
7 G AWG 14 + 3 G 16 AWG	0.811 (20.6)	1.5 (38.1)	2.25 (57.2)

EMC cable

Cable type [mm^2]	Outer cable diameter [inch (mm)]	Bending radius	
		Fixed	Free
4 G AWG 14 + 3 G 16 AWG screened cable	0.695 (17.7)	1.5 (38.1)	2.25 (57.2)

The cables are 33 ft (10 m) long as standard. Other cable lengths are available on request. See section *List of variants* on page 15.

The number and dimension of cables depend on the motor size.

Cable entry

The stainless steel plug is fastened with a union nut. The nut and O-rings provide sealing against liquid penetration.

The plug is filled with a special material that is cast into the plug around the conductors of the cable to prevent water penetrating into the motor through the cable in case of cable breakage or in case water enters the free cable end due to careless handling in connection with installation or service.

Sensors

As standard the pump is equipped with three thermal switches, one in each phase.

Customised analog sensor options

1. PT1000 sensors in motor phases for stator temperature measurements.
2. WIO (water-in-oil) sensor
   The WIO sensor measures the water content in the oil and converts the value into an analog current signal. The two sensor conductors are for power supply as well as for carrying the signal to the measuring device or controller. The sensor measures the water content from 0 to 20 %. It also sends a signal if the water content is outside the normal range (warning), or if there is air in the oil chamber (alarm). The sensor is fitted in a stainless steel tube for mechanical protection.
   The WIO sensor is connected to a Grundfos IO 111 module.
3. One moisture switch.

IO 111 sensor module

The module collects the following signals from sensors in the pump:

- Stator temperature
- Stator insulation resistance
- Water in oil chamber
- Moisture in motor.

Note: All pump versions with analog sensor come with an IO 111 sensor module. It is therefore not necessary to order an IO 111 separately.

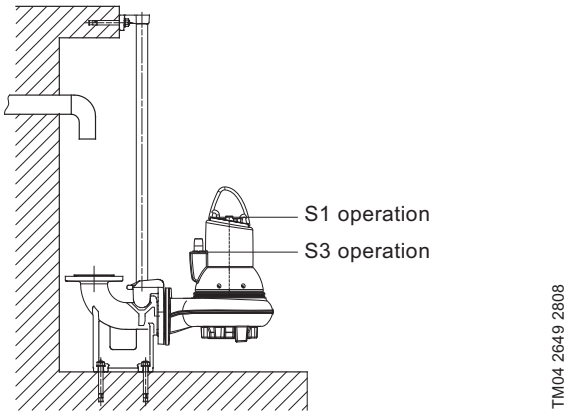
Testing

All pumps are tested before leaving the factory. The factory test report is based on HI 1.6-2000 acceptance level B. Test reports can be ordered directly with the pump or separately based on the pump serial number.

Other tests or third-party inspection certificates are available on request. See section List of variants on page 15.

Operating conditions

The SL1 and SLV pumps are only for submerged installation.



- Continuous operation S1 when the pump is fully submerged to the top of the motor.

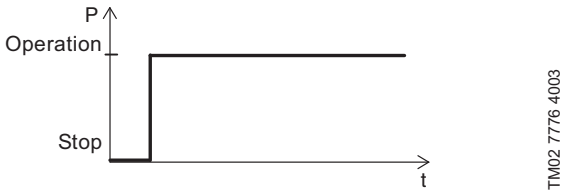


Fig. 15 Continuous operation

- Intermittent operation S3 with max. 20 starts per hour when pump is submerged to the bottom of the cable plug. The pump must run for max. 4 minutes and stop for min. 6 minutes. See fig. 16.
  Note: Explosion-proof pumps must always be fully submerged.

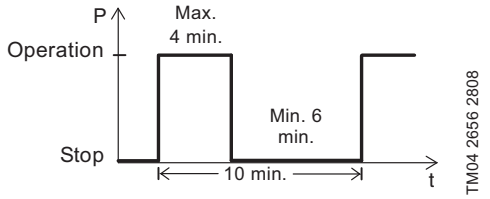


Fig. 16 Intermittent operation

Pumped liquids

pH value: 4-10.

Liquid temperature: 32 °F to + 104 °F (0 °C to + 40 °C)

When pumping liquids with a density and/or a kinematic viscosity higher than that of water, use motors with correspondingly higher outputs.

For short periods (max. 3 minutes), temperatures up to 140°F (60°C) are permissible (non-Ex versions only).

Sound pressure

The sound pressure level of the pump is lower than the limiting values stated in the EC Council directive 2006/42/EC relating to machinery (Machinery Directive).

Motor range

Shaft power [hp (kW)]	No of poles
1.5 (1.1)	4
1.8 (1.3)	4
2.0 (1.5)	4
3.0 (2.2)	2/4
4.0 (3.0)	2/4
5.5 (4.0)	2/4
7.5 (5.5)	4
8.0 (6.0)	4
10.0 (7.5)	2/4
12.5 (9.2)	2
15.0 (11)	2

Product description

Pump controllers

The pumps must be connected to a control box with a motor protection relay with IEC trip class 10 or 15.

Note: Pumps for hazardous locations must be connected to a control box with a motor protection relay with an IEC trip class 10.

The pumps can be controlled by Grundfos Dedicated Controls that enables control of one up to six pumps.

The Dedicated Controls system starts/stops the SL1 and SLV pumps by means of:

- float switches
- pressure sensor
- ultrasonic sensor.

The Grundfos Dedicated Controls system offers the following features and benefits:

Basic features

- Pump start/stop
- alternating operation of two pumps
- overflow detection
- overflow measurement
- alarms and warnings
- advanced alarm schedules
- start and stop delays
- free language selection.

Advanced features

- Daily emptying
- foam draining
- anti-seizing
- safety after-run delay
- mixer or flush valve
- maximum number of running pumps
- pump flow measurement
- system flow measurement
- pump flow calculation
- system flow calculation.

Additional features

- Insulation resistance alarm
- moisture-in-motor alarm.

These features are directly related to the actual system configuration and the modules installed.

Communication features

- Complete overview of the pump installation
- setpoint change, resetting of system and start/stop of pumps
- access to complete alarm/warning log
- automatic redirection of alarms and warnings to the on-duty staff
- optimisation of your maintenance and service program
- reduction in energy consumption of the system
- Modbus RTU communication via cable
- Modbus RTU communication via GSM/GPRS
- SMS messaging
- VNC connection for migration of user interface to a web browser.

PC-Tool features

Used for

- commissioning
- monitoring pump condition
- adjusting settings
- start/stop of pumps
- acquiring data logs
- creating operation reports
- creating service reports.

Benefits

- Easy installation and configuration.
- Configuration wizard that helps the user to configure the system during start-up.
- Electrical overview via the CU 361 operator display, for easy maintenance.
- Help texts for settings shown on the operator display.
- Advanced data communication.
- Advanced alarm and warning priority.
- PC-Tool support.
- VNC (Virtual Network Computing).
- GSM/GPRS, SMS (transmit and receive), SCADA, BMS and PLC support.
- Data logging such as alarms, runtime, flow, overflow, volume, energy, etc.
- Service-cost-optimised installation.
- Use of easy-to-configure rotating week schedules to plan ahead.

Product description

Variable frequency drive operation

In principle, all three-phase motors can be connected to a frequency converter.

However, frequency converter operation will often expose the motor insulation system to a heavier load and cause the motor to be more noisy than usual due to eddy currents caused by voltage peaks.

In addition, large motors driven via a frequency converter will be loaded by bearing currents.

For more information, please see the Installation and operation manual *US-P/N* **97640137** at www.grundfos.com

Approvals

The SL1 and SLV pumps have been approved by CSA and FM, and the explosion-proof versions hold an FM type examination certificate no.: 3035318

Approval standards

These pumps are approved by CSA and FM according to UL778, C22.2 no 108 and FM 3600, FM3615 and FM3615.80.

Explanation to FM approval

The SL1 and SLV pumps have the following explosion protection classification: Class I, Division 1, Groups C and D, T4, T3, IP68

Standards	Code		Description
FM3600 FM3615 FM3615.80	Class I	=	Explosive atmosphere is caused by gas or vapours.
	Division 1	=	Area classification
	Groups C and D	=	Classification of gases
	T4/T3	=	maximum surface temperature is 275 °F (135 °C) and 392 °F (200 °C)
	IP68	=	Enclosure class according to IEC 60529.

Wiring diagrams

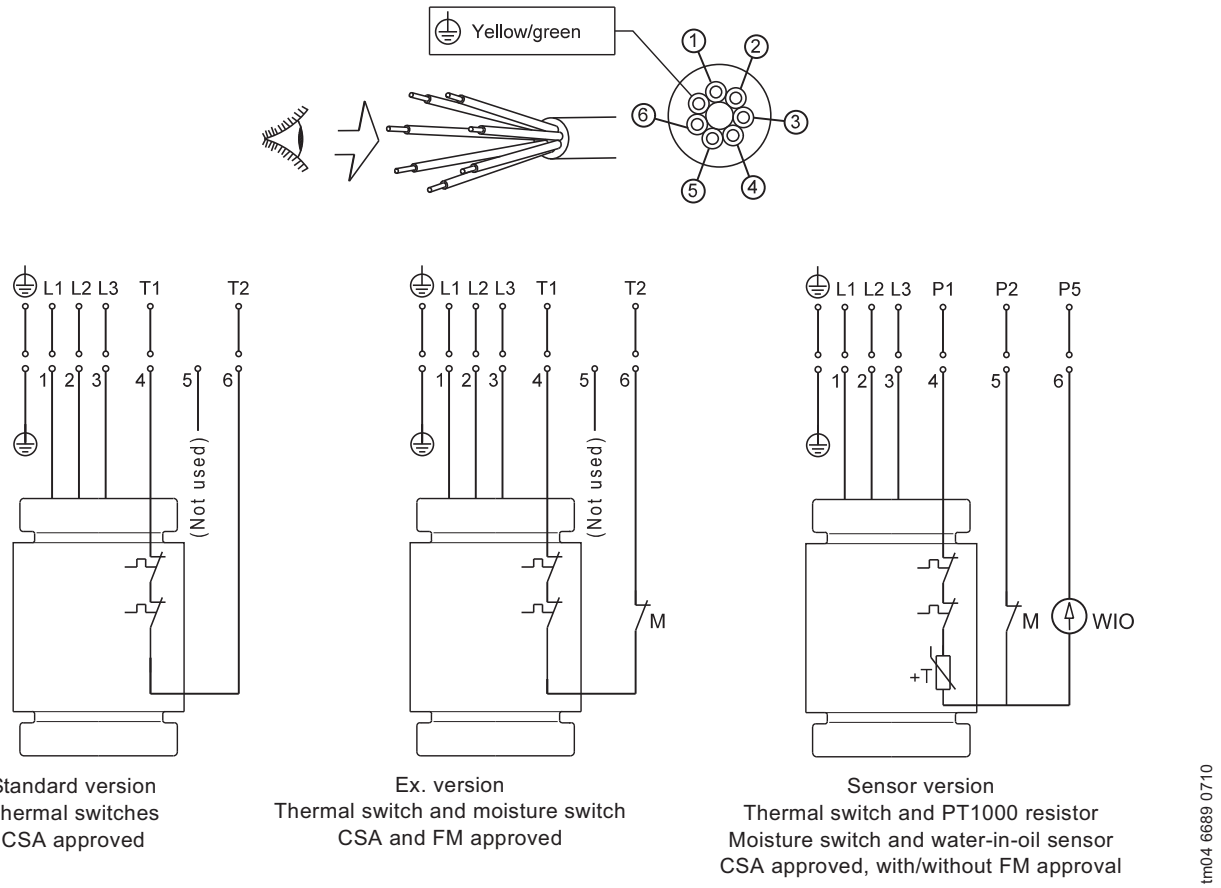


Fig. 17 Wiring diagram, 7-core cable, DOL

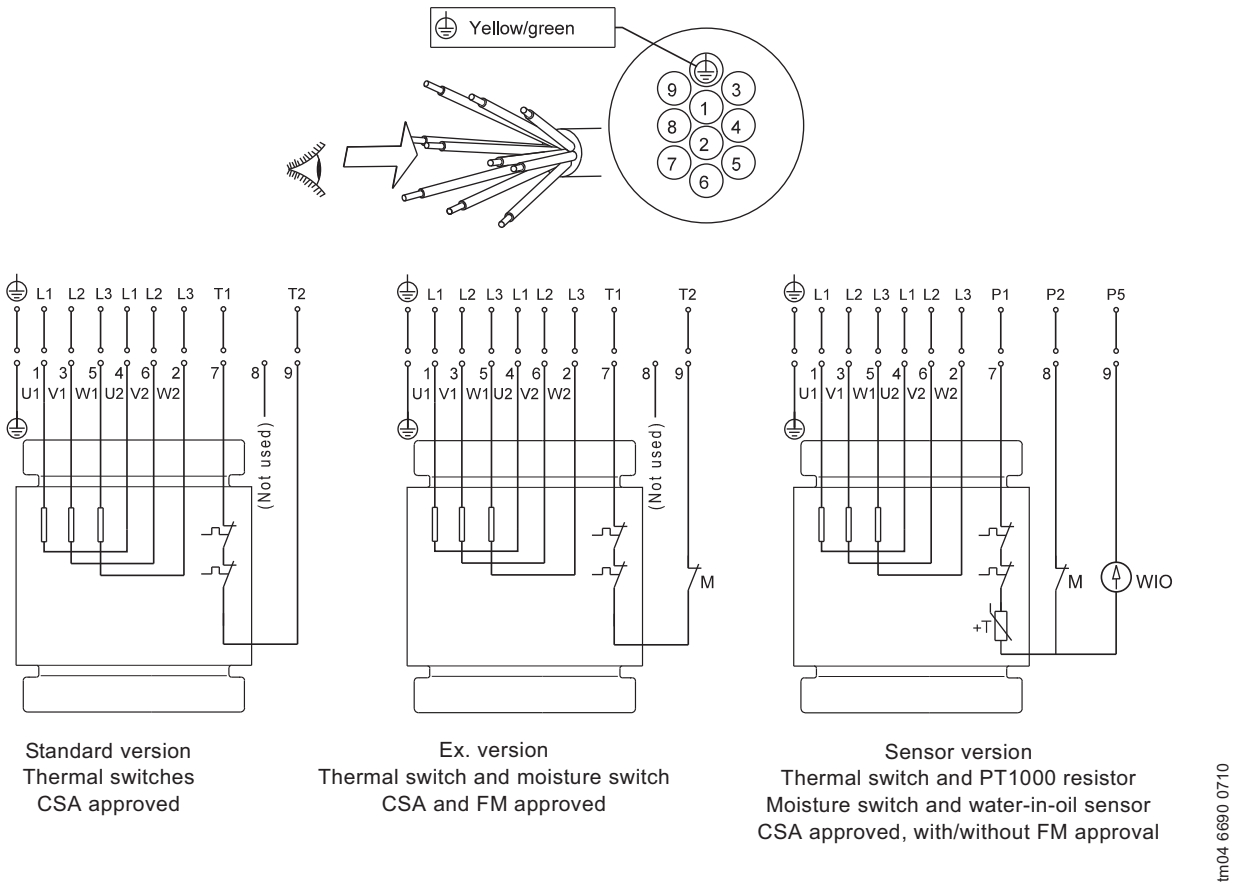


Fig. 18 Wiring diagram, 10-core cable, star/delta (Y/D)

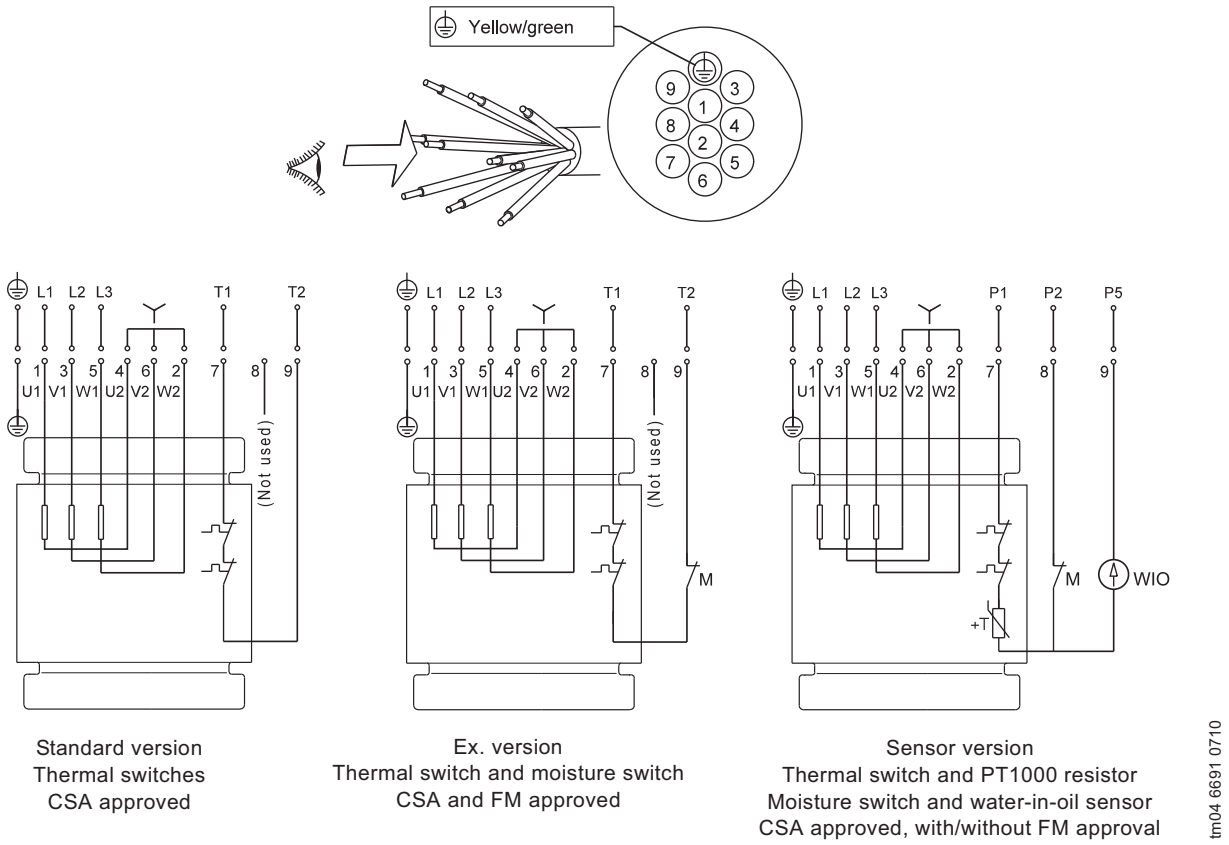


Fig. 19 Wiring diagram, 10-core cable, star-connected (Y)

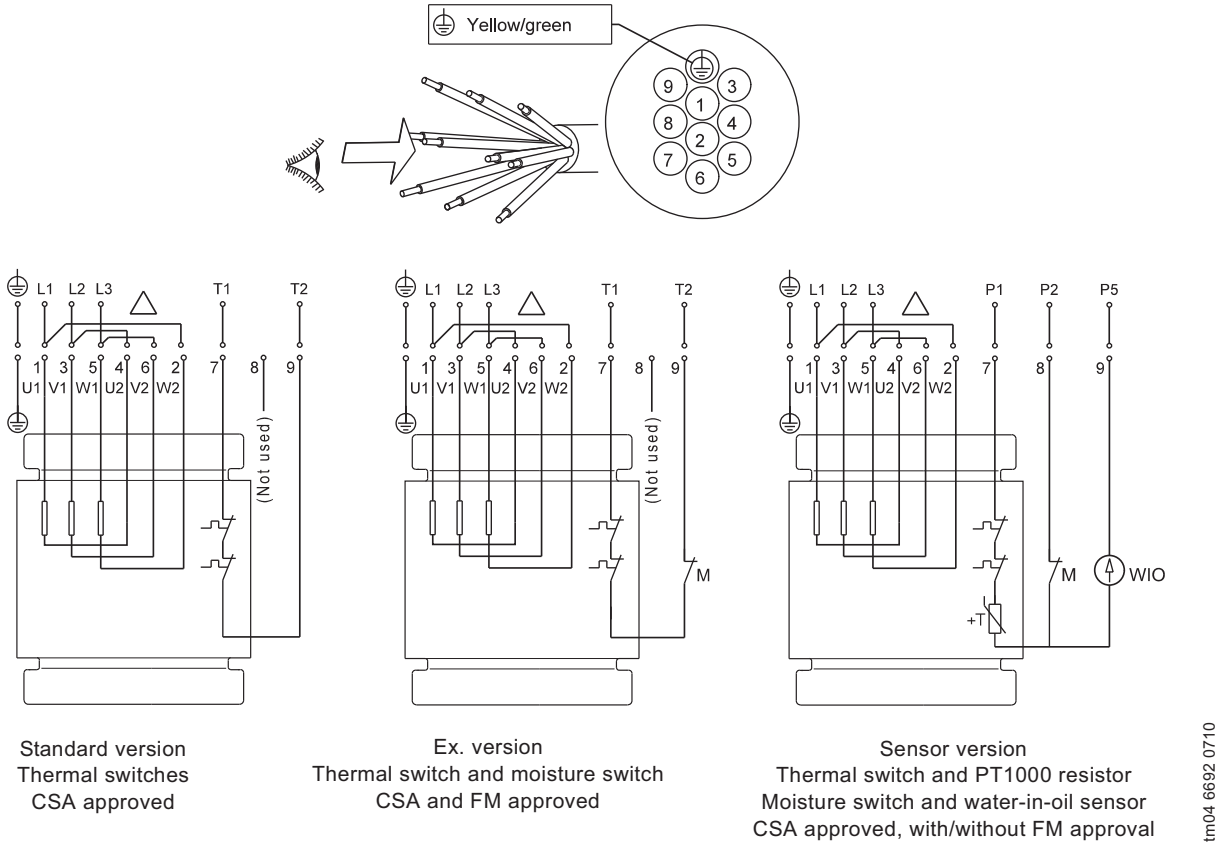


Fig. 20 Wiring diagram, 10-core cable, delta-connected (D)

Curve charts and technical data

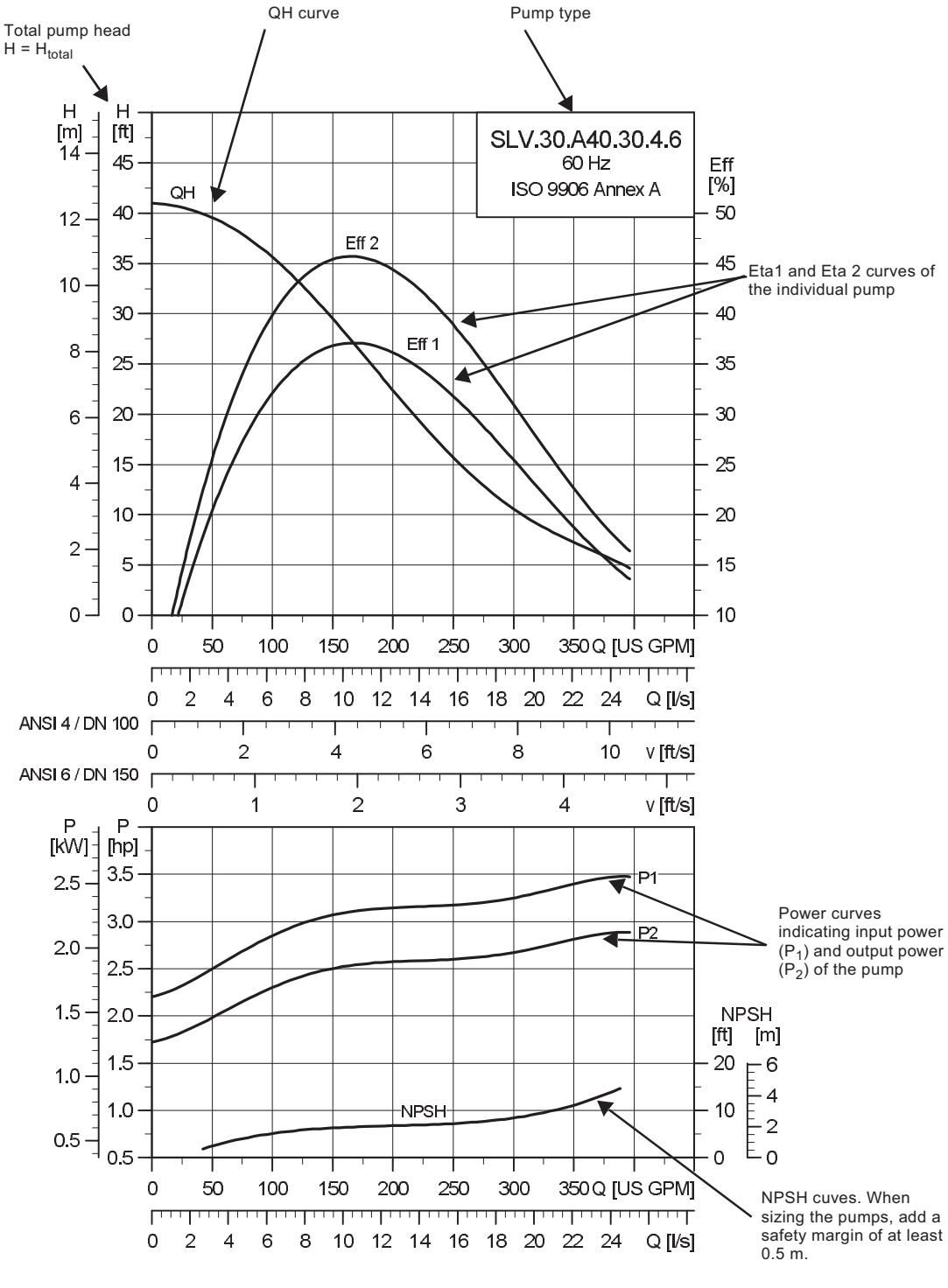
The following pages are divided into sections:

Pages 38 and 39 give a brief explanation of how to read the curve charts, the curve conditions, etc.

Performance curves and technical data:

Curve charts and technical data

How to read the curve charts



Curve charts and technical data

Curve conditions

The guidelines below apply to the curves shown in the performance charts on page 40 to page 147.

- Tolerances according to: HI 1.6-2000 acceptance level B
- The curves show pump performance with different impeller diameters at the nominal speed.
- The **bold** part of the curves show the **recommended** operating range.
- The curves apply to the pumping of airless water at a temperature of +68 °F (+20 °C) and a kinematic viscosity of 1 cSt (1.076 (ft^2/s)x10^{-5}).
- **ETA:** The lines show values of the hydraulic efficiency of the pump for the different impeller diameters.
- **NPSH:** The curves show average values measured under the same conditions as the performance curves.
  When dimensioning the pump, add a safety margin of at least 1.6 ft (0.5 m).
- In case of other densities than 133.5 ounces/gallon (1000 kg/m^3), the discharge pressure is proportional to the density.
- When pumping liquids with a density higher than 133.5 ounces/gallon (1000 kg/m^3), motors with correspondingly higher outputs must be used.

Calculation of total head

The total pump head consists of the height difference between the measuring points + the differential head + the dynamic head.

$$H_{total} = H_{geo} + H_{stat} + H_{dyn}$$

H_{geo}: Height difference between measuring points.

H_{stat}: Differential head between suction and the discharge side of the pump.

H_{dyn}: Calculated values based on the velocity of the pumped liquid on the suction and the discharge side of the pump.

Performance tests

The requested duty point for every pump is tested according to HI 1.6-2000 acceptance level B, and without certification.

In case of pumps ordered on the basis of impeller diameter only (no requested duty point), the pump will be tested at a duty point which is 2/3 of the maximum flow of the published performance curve which is related to the ordered impeller diameter (according to Hydraulic Institute 1.6-2000 acceptance level B).

If the customer requires either more points on the curve to be checked or certain minimum performances or certificates, individual measurements must be made, and a certificate can be ordered.

Certificates

Certificates have to be confirmed for every order and are available on request. See section *List of variants* on page 15

Witness test

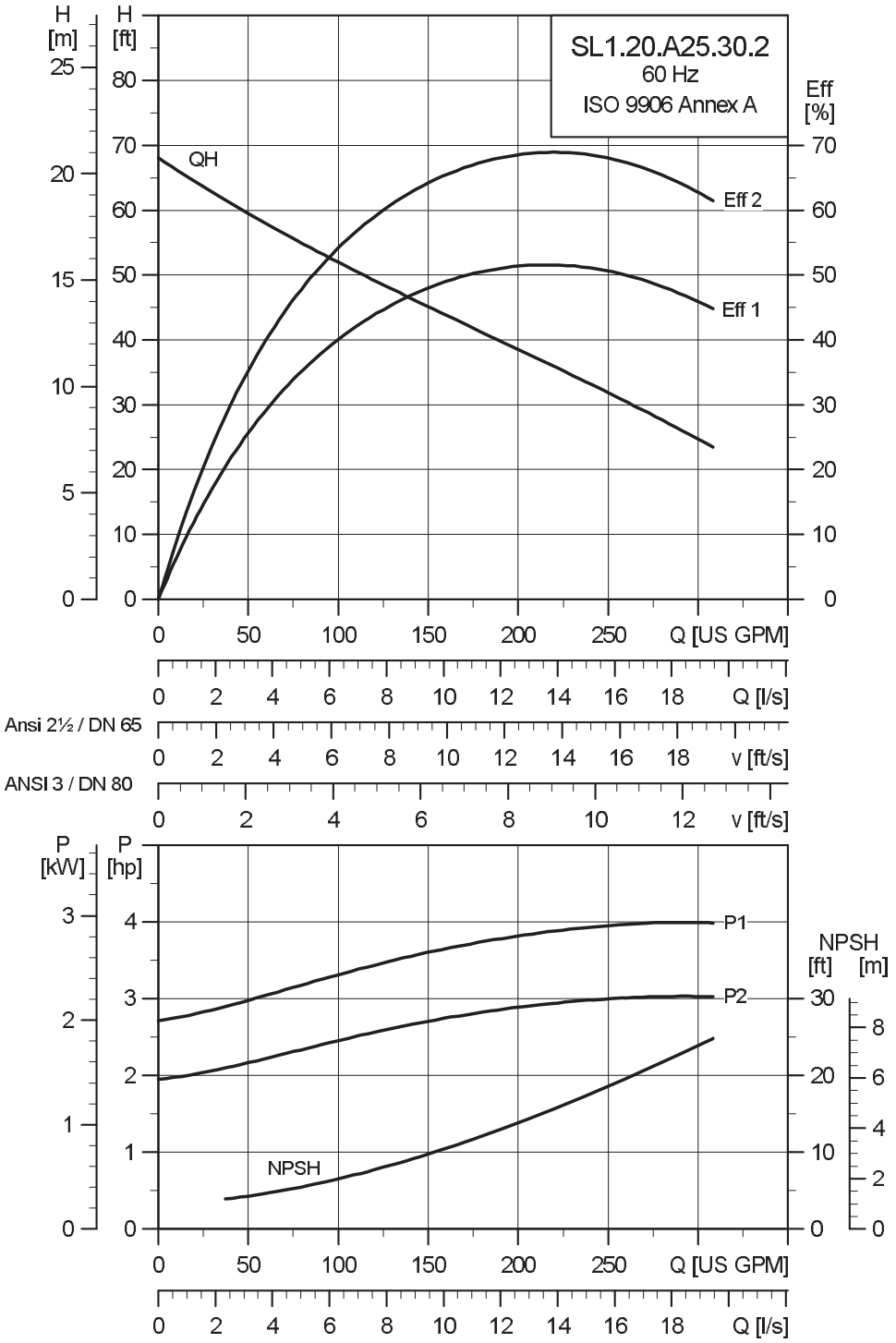
It is possible for the customer to witness the testing procedure according to Hydraulic Institute 1.6-2000.

The witness test is not a certificate and will not result in a written statement from Grundfos. The witness itself is the only guarantee that everything is carried out as prescribed in the testing procedure.

If the customer wants to witness the test of pump performance, this request must be stated on the order.

SL1.20.A25

Performance curves SL1.20.A25.30



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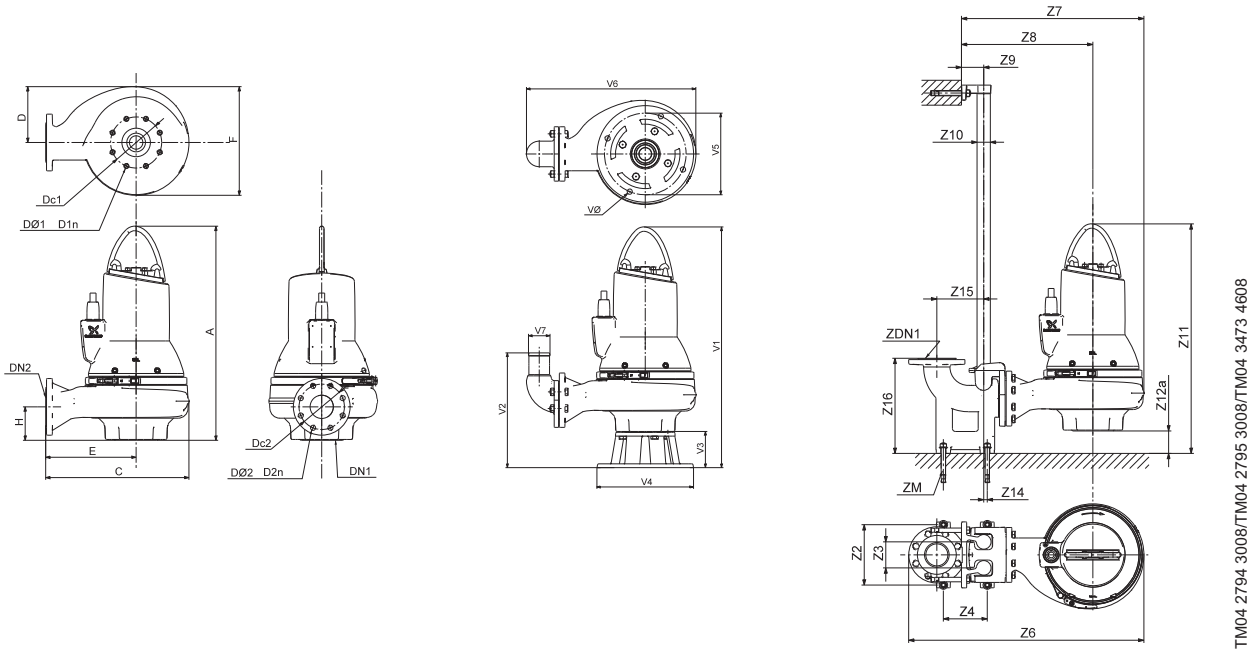
Performance curves
Technical data

Dimensional sketches SL1.20.A25.30



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	25.236	14.409	6.732	8.504	12.638	3.661	2.5	5.5	4xM16	2.5	5.5	4x0.75	190.9
[mm]	641	366	171	216	321	93	65	139.7	4xM16	65	139.7	4x19.1	86.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.270	3.740	5.510	27.56	20.2	14.290	3.19	1.5"	29.13	3.898	0.04	6.89	10.472	2.5	4XM16
[mm]	210	95	140	700	513	363	81	1.5"	740	99	1	175	266	65	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	30.354	13.346	5.118	12.795	10.63	19.331	2.559	0.709
[mm]	771	339	130	325	270	491	65	18

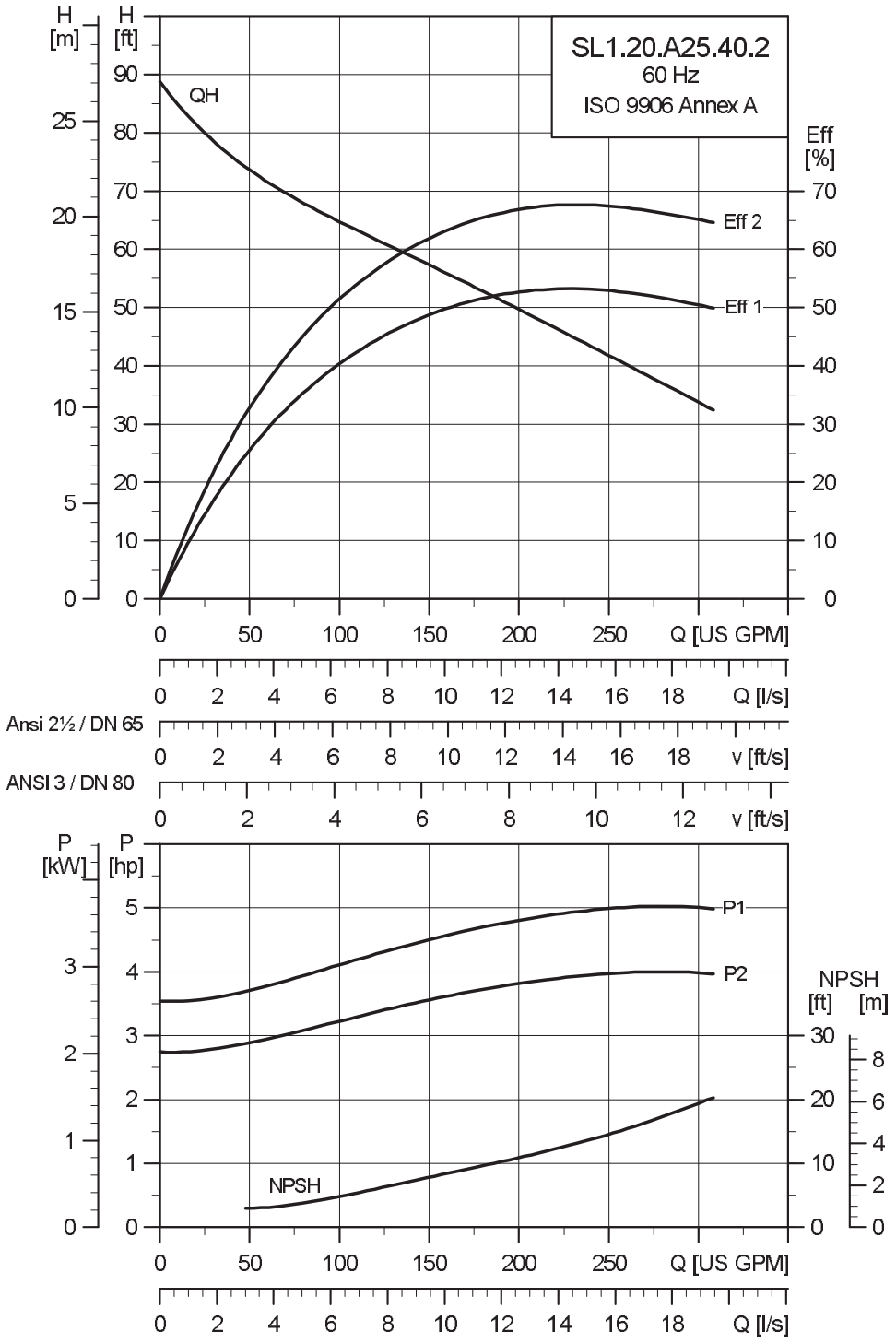
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.20.A25.30.2.61J	3x208-230V D / 460V Y	3.9 (2.9)	3.0 (2.2)	2	3480	SD	8.8	68.7	67.7	72.8	74.3	0.85	0.89	0.91	1.15	0.17 (0.00704)	14.01 (19)
SL1.20.A25.30.2.61H	3x460V D	3.9 (2.9)	3.0 (2.2)	2	3520	SD	4.3	44.0	66.7	73.3	76.1	0.77	0.85	0.88	1.15	0.17 (0.00704)	18.44 (25)
SL1.20.A25.30.2.61L	3x575V D	3.9 (2.9)	3.0 (2.2)	2	3510	SD	3.2	32.1	67.7	73.0	75.8	0.81	0.87	0.89	1.15	0.17 (0.00704)	16.96 (23)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	2 / 50	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves SL1.20.A25.40



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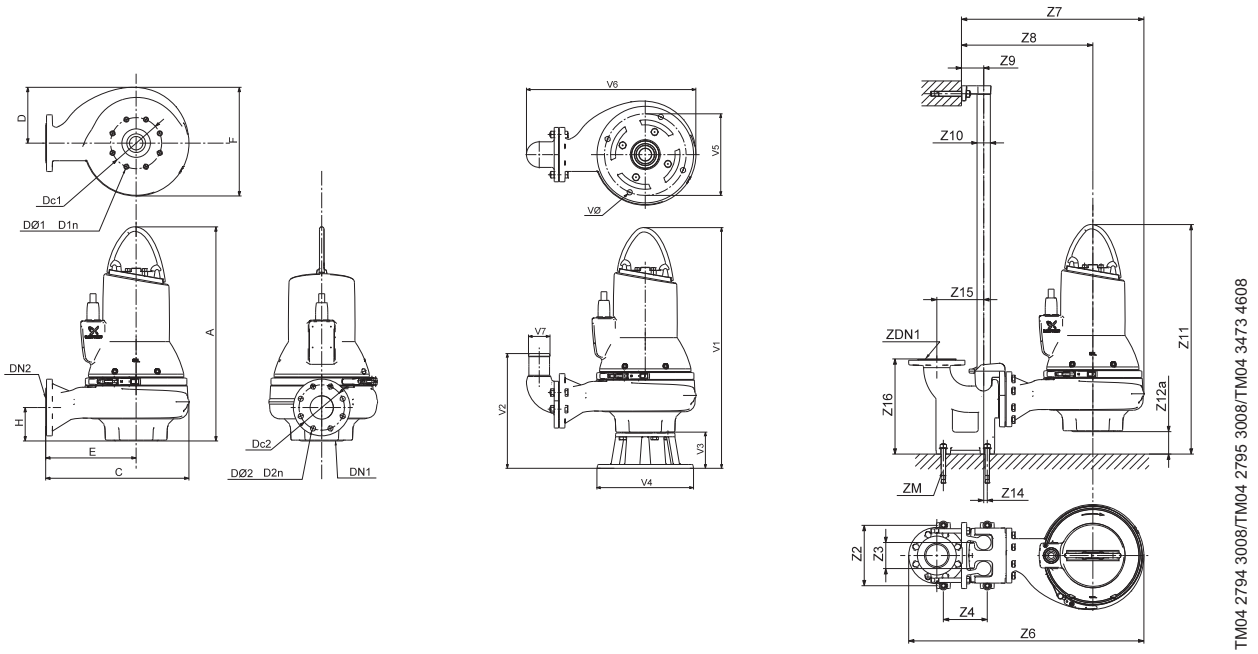
Performance curves
Technical data

Dimensional sketches SL1.20.A25.40



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	25.236	14.409	6.732	8.504	12.638	3.661	2.5	5.5	4xM16	2.5	5.5	4x0.75	197.8
[mm]	641	366	171	216	321	93	65	139.7	4xM16	65	139.7	4x19.1	89.7

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.270	3.74	5.51	27.56	20.2	14.29	3.19	1.5"	29.13	3.898	0.04	6.89	10.472	2.5	4XM16
[mm]	210	95	140	700	513	363	81	1.5"	740	99	1	175	266	65	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	30.354	13.346	5.118	12.795	10.63	19.331	2.559	0.709
[mm]	771	339	130	325	270	491	65	18

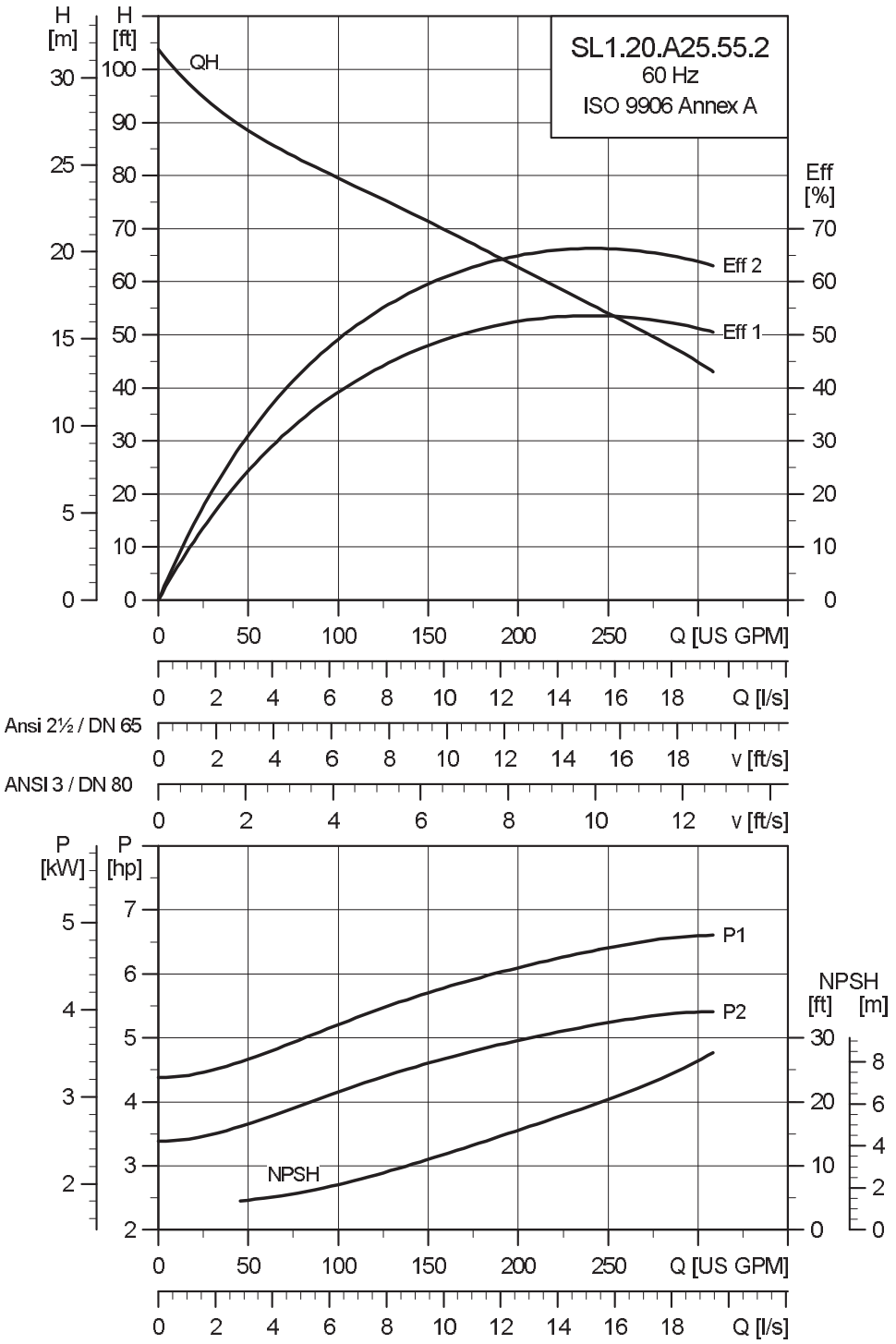
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.20.A25.40.2.61J	3x208-230V D / 460V Y	5.1 (3.8)	4.0 (3.0)	2	3510	SD	11.6	99.5	72.9	77.2	78.4	0.79	0.86	0.89	1.15	0.23 (0.00956)	22.86 (31)
SL1.20.A25.40.2.61L	3x575V D	5.1 (3.8)	4.0 (3.0)	2	3510	SD	4.5	47.9	72.9	77.8	79.6	0.74	0.82	0.87	1.15	0.23 (0.00956)	28.03 (38)
SL1.20.A25.40.2.61H	3x460V D	5.1 (3.8)	4.0 (3.0)	2	3510	SD	5.9	63.5	72.5	77.4	79.7	0.66	0.77	0.83	1.15	0.23 (0.00956)	29.5 (40)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	2 / 50	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves SL1.20.A25.55



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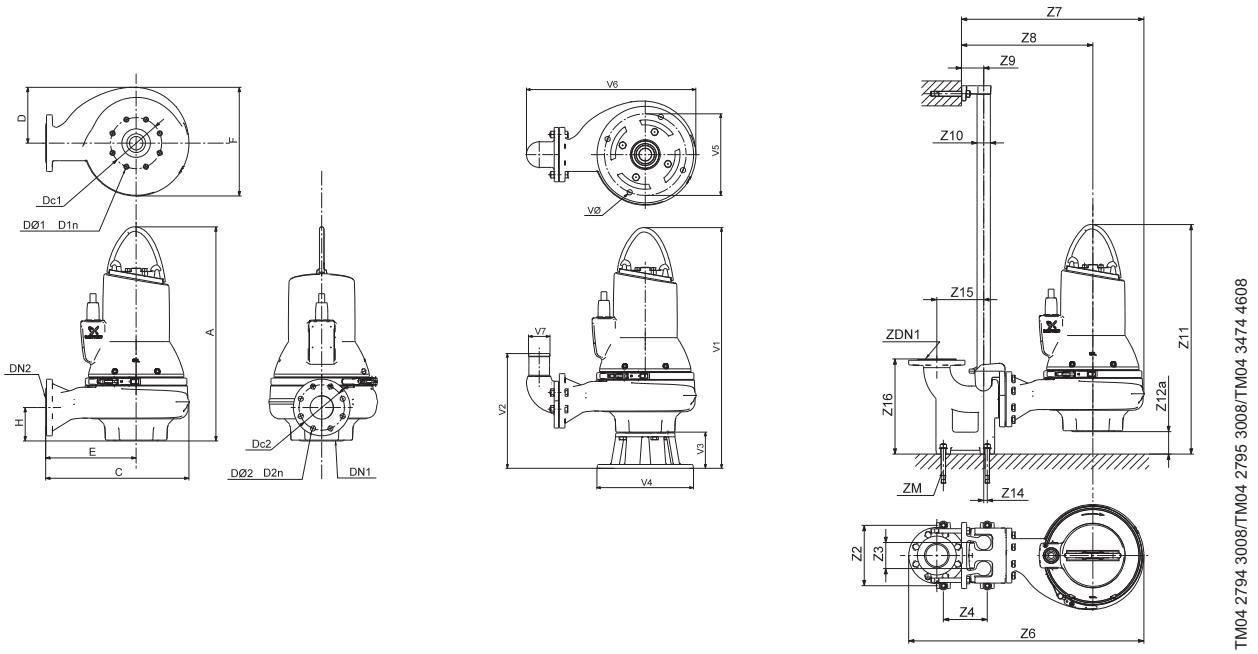
Performance curves
Technical data

Dimensional sketches SL1.20.A25.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.654	16.024	7.874	8.937	14.921	3.661	2.5	5.5	4xM16	2.5	5.5	4x0.75	254.9
[mm]	677	407	200	227	379	93	65	139.7	4xM16	65	139.7	4x19.1	115.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.270	3.740	5.510	29.17	21.81	14.76	3.19	1.5"	30.47	3.819	0.04	6.89	10.472	2.5	4XM16
[mm]	210	95	140	741	554	375	81	1.5"	774	97	1	175	266	65	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.772	13.425	5.118	12.795	10.63	20.433	2.559	0.709
[mm]	807	341	130	325	270	519.000	65	18

Electrical data

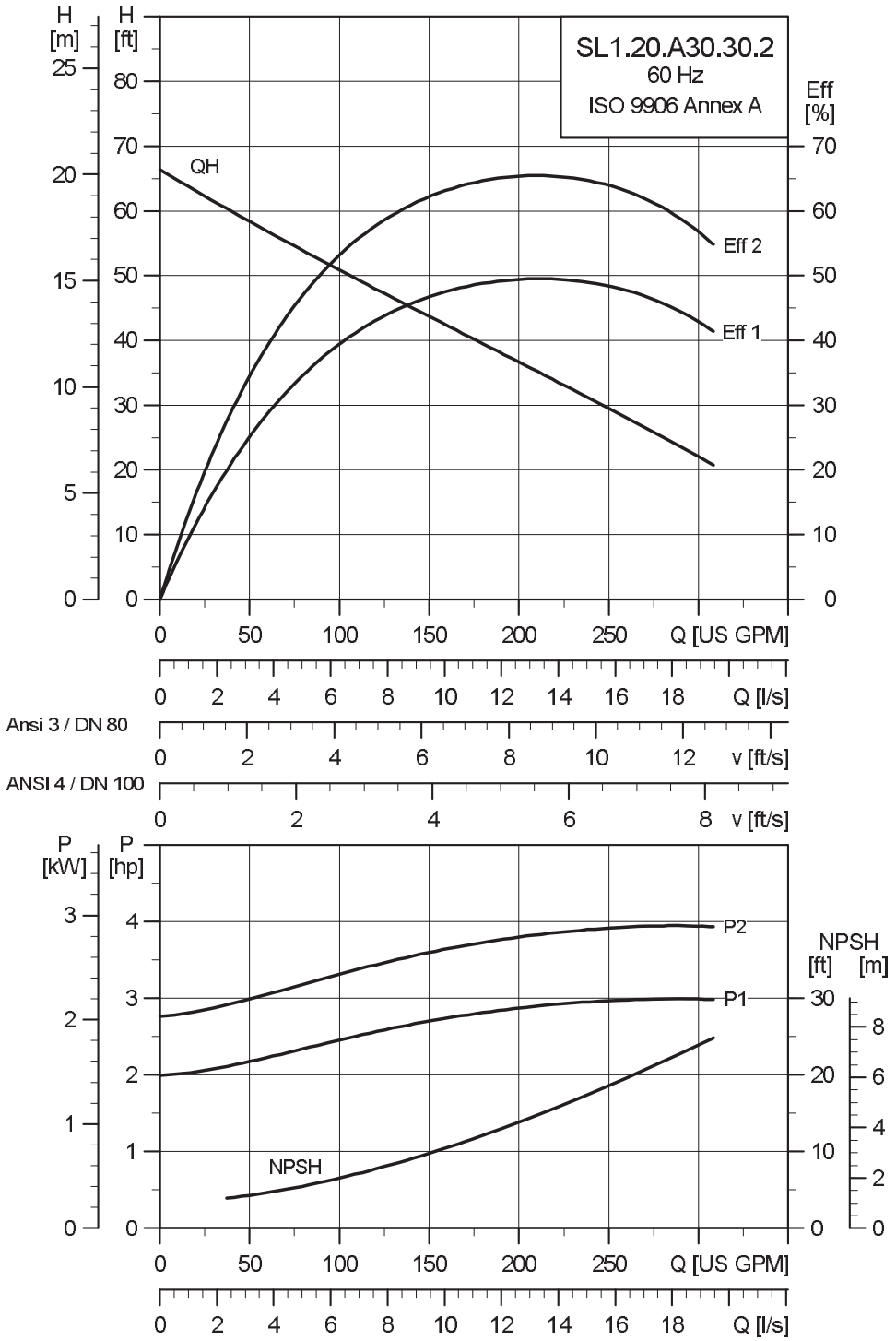
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.20.A25.55.2.61J	3x208-230V D / 460V Y	6.6 (4.9)	5.5 (4.0)	2	3530	SD	14.8	152	75.0	79.9	81.7	0.78	0.86	0.90	1.15	0.38 (0.0159)	53.84 (73)
SL1.20.A25.55.2.61L	3x575V D	6.6 (4.9)	5.5 (4.0)	2	3535	SD	5.8	70.8	74.1	79.6	82.0	0.71	0.82	0.87	1.15	0.38 (0.0159)	44.99 (61)
SL1.20.A25.55.2.61H	3x460V D	6.6 (4.9)	5.5 (4.0)	2	3540	SD	7.4	96.8	73.6	79.2	82.0	0.68	0.80	0.85	1.15	0.38 (0.0159)	37.62 (51)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	2 / 50	10	20	65 / 20	IP68	H	A	104 / 40	4-10

SL1.20.A30

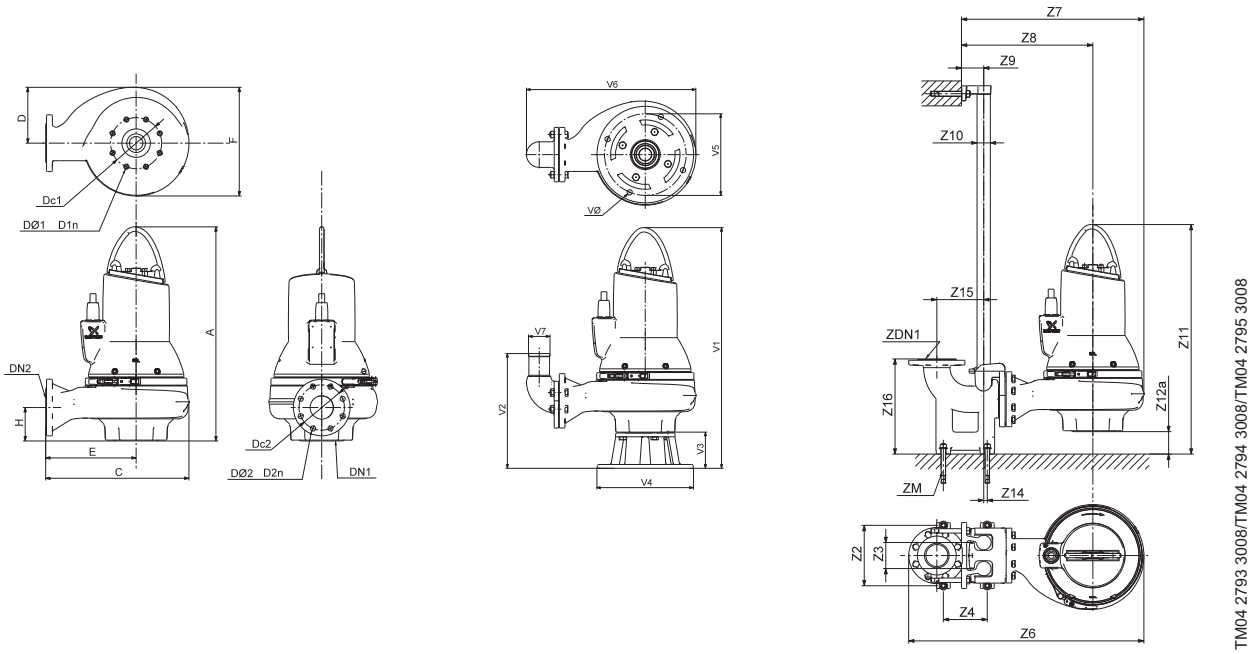
Performance curves SL1.20.A30.30



TM04 7836 2310

Performance curves
Technical data

Dimensional sketches SL1.20.A30.30



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	25.236	14.409	6.732	8.504	12.638	3.937	2.5	5.5	4xM16	3	6	8x0.75	192.7
[mm]	641	366	171	216	321	100	65	139.7	4xM16	80	152.4	8x19.1	87.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	28.31	20.71	14.8	3.19	1.5"	30.47	5.236	0.51	6.73	13.583	2.5	4XM16
[mm]	220	95	160	719	526	376	81	1.5"	774	133	13	171	345	65	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	30.354	13.346	5.118	12.795	10.63	19.528	3.15	0.709
[mm]	771	339	130	325	270	496	80	18

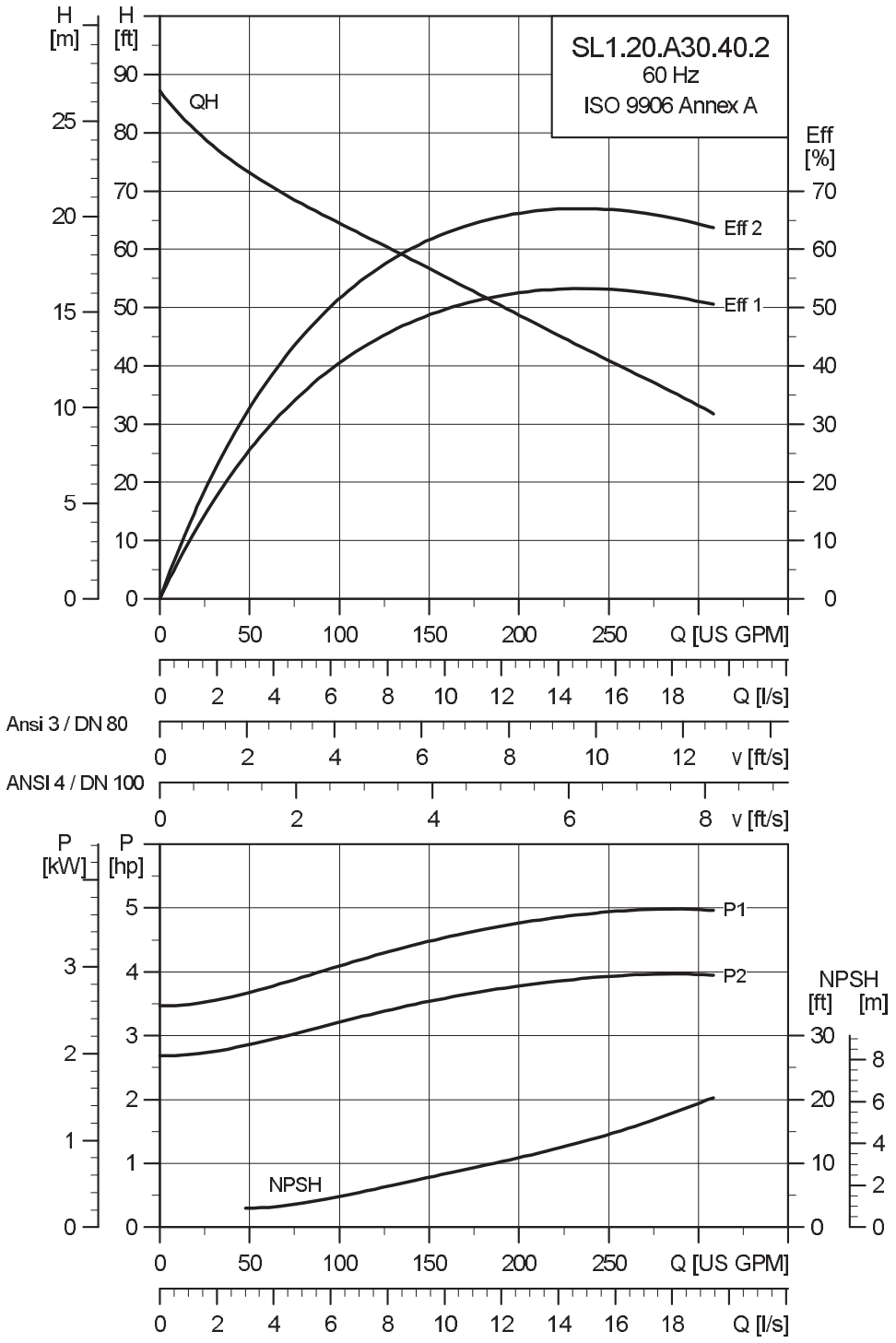
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.20.A30.30.2.61J	3x208-230V D / 460V Y	3.9 (2.9)	3.0 (2.2)	2	3480	SD	8.8	68.7	67.7	72.8	74.3	0.85	0.89	0.91	1.15	0.17 (0.00704)	14.01 (19)
SL1.20.A30.30.2.61H	3x460V D	3.9 (2.9)	3.0 (2.2)	2	3520	SD	4.3	44.0	66.7	73.3	76.1	0.77	0.85	0.88	1.15	0.17 (0.00704)	18.44 (25)
SL1.20.A30.30.2.61L	3x575V D	3.9 (2.9)	3.0 (2.2)	2	3510	SD	3.2	32.1	67.7	73.0	75.8	0.81	0.87	0.89	1.15	0.17 (0.00704)	16.96 (23)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	2 / 50	10	20	65 / 20	IP68	H	A	104 / 40	4-10

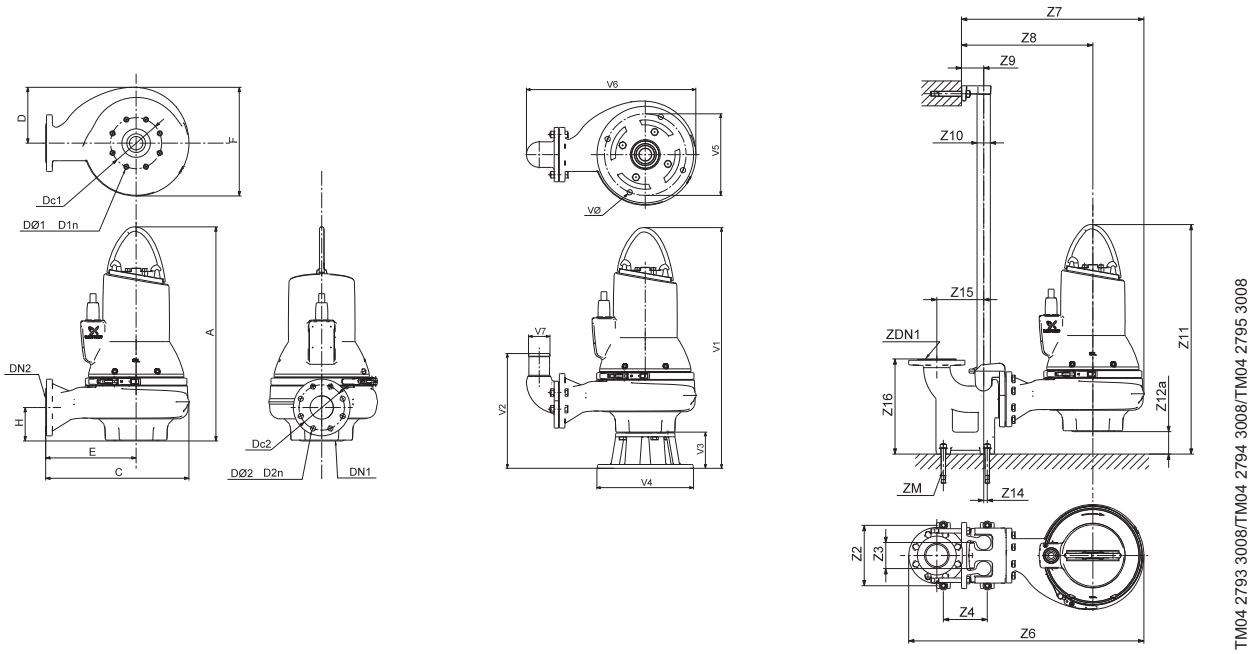
Performance curves SL1.20.A30.40



TM04 7837 2310

Performance curves
Technical data

Dimensional sketches SL1.20.A30.40



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	25.236	14.409	6.732	8.504	12.638	3.937	2.5	5.5	4xM16	3	6	8x0.75	199.5
[mm]	641	366	171	216	321	100	65	139.7	4xM16	80	152.4	8x19.1	90.5

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	28.31	20.71	14.8	3.19	1.5"	30.47	5.236	0.51	6.73	13.583	2.5	4XM16
[mm]	220	95	160	719	526	376	81	1.5"	774	133	13	171	345	65	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	30.354	13.346	5.118	12.795	10.630	19.528	3.15	0.709
[mm]	771	339	130	325	270	496	80	18

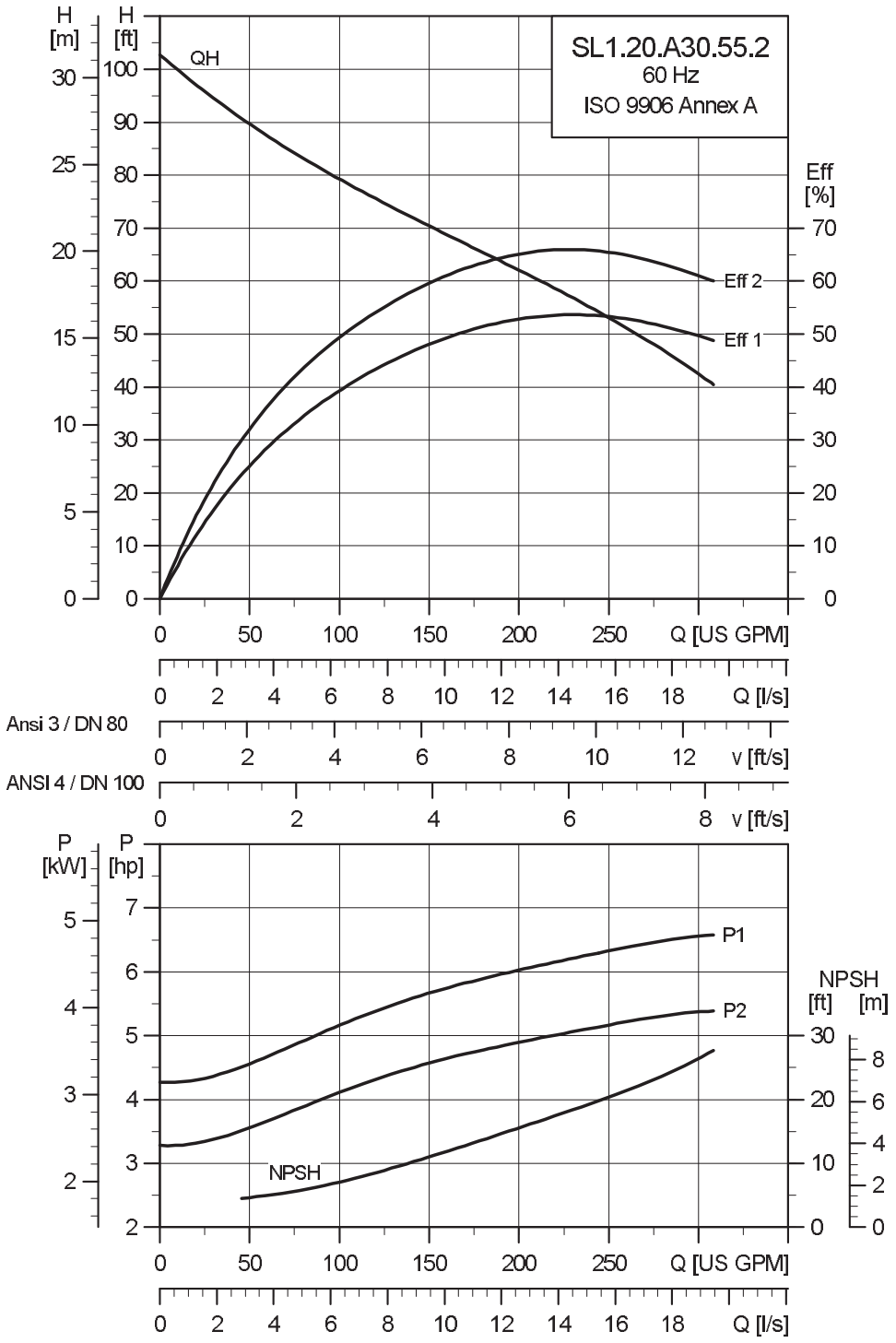
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.20.A30.40.2.61J	3x208-230V D / 460V Y	5.1 (3.8)	4.0 (3.0)	2	3510	SD	11.6	99.5	72.9	77.2	78.4	0.79	0.86	0.89	1.15	0.23 (0.00956)	22.86 (31)
SL1.20.A30.40.2.61L	3x575V D	5.1 (3.8)	4.0 (3.0)	2	3510	SD	4.5	47.9	72.9	77.8	79.6	0.74	0.82	0.87	1.15	0.23 (0.00956)	28.03 (38)
SL1.20.A30.40.2.61H	3x460V D	5.1 (3.8)	4.0 (3.0)	2	3510	SD	5.9	63.5	72.5	77.4	79.7	0.66	0.77	0.83	1.15	0.23 (0.00956)	29.5 (40)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	2 / 50	10	20	65 / 20	IP68	H	A	104 / 40	4-10

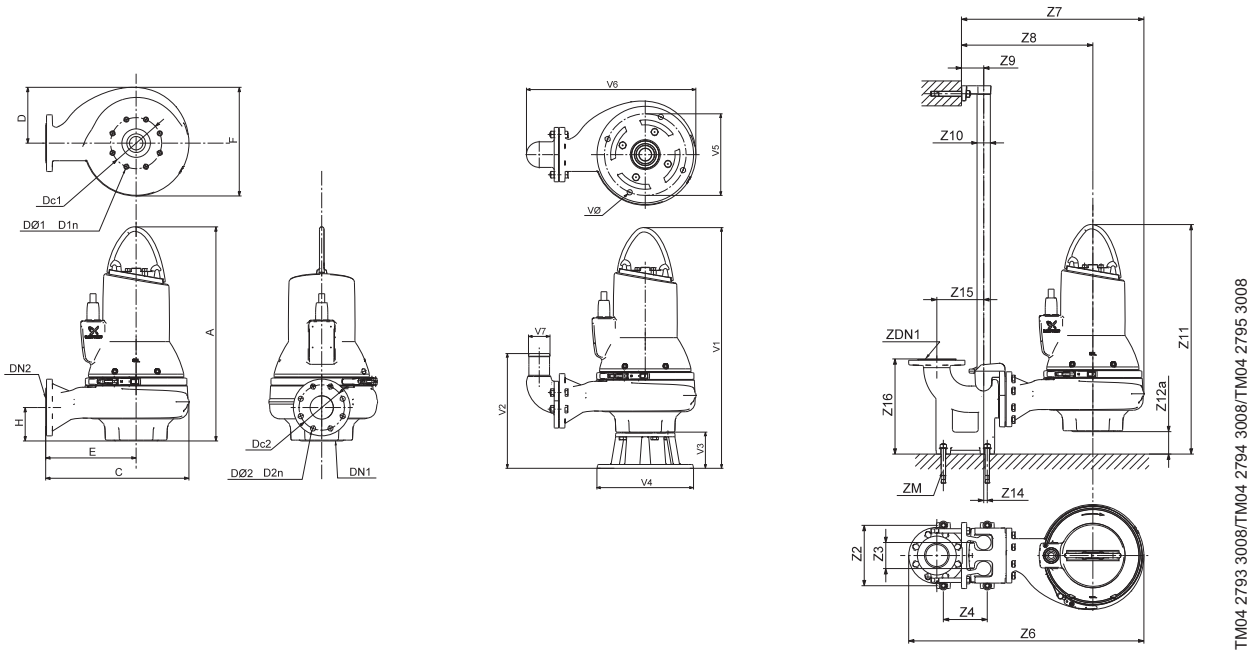
Performance curves SL1.20.A30.55



TM04 7838 2310

Performance curves
Technical data

Dimensional sketches SL1.20.A30.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.654	16.024	7.874	8.937	14.921	3.937	2.5	5.5	4xM16	3	6	8x0.75	256.6
[mm]	677	407	200	227	379	100	65	139.7	4xM16	80	152.4	8x19.1	116.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	29.92	22.32	15.24	3.19	1.5	31.81	5.197	0.51	6.73	13.583	2.5	4XM16
[mm]	220	95	160	760	567	387	81	1.5	808	132	13	171	345	65	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.772	13.425	5.118	12.795	10.63	20.669	3.15	0.709
[mm]	807	341	130	325	270	525	80	18

Electrical data

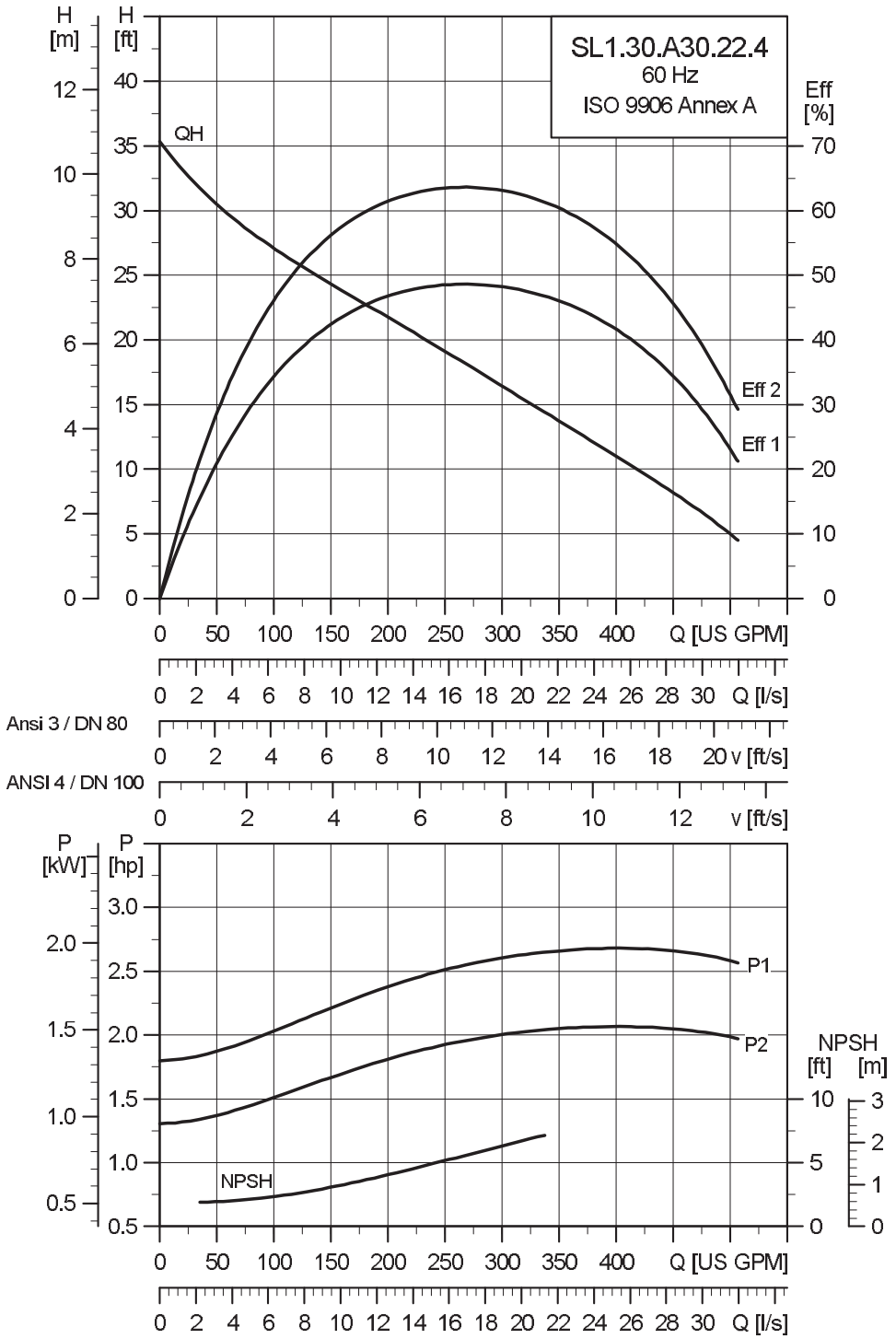
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.20.A30.55.2.61J	3x208-230V D / 460V Y	6.6 (4.9)	5.5 (4.0)	2	3530	SD	14.8	152	75.0	79.9	81.7	0.78	0.86	0.90	1.15	0.38 (0.0159)	53.84 (73)
SL1.20.A30.55.2.61L	3x575V D	6.6 (4.9)	5.5 (4.0)	2	3535	SD	5.8	70.8	74.1	79.6	82.0	0.71	0.82	0.87	1.15	0.38 (0.0159)	44.99 (61)
SL1.20.A30.55.2.61H	3x460V D	6.6 (4.9)	5.5 (4.0)	2	3540	SD	7.4	96.8	73.6	79.2	82.0	0.68	0.80	0.85	1.15	0.38 (0.0159)	37.62 (51)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	2 / 50	10	20	65 / 20	IP68	H	A	104 / 40	4-10

SL1.30.A30

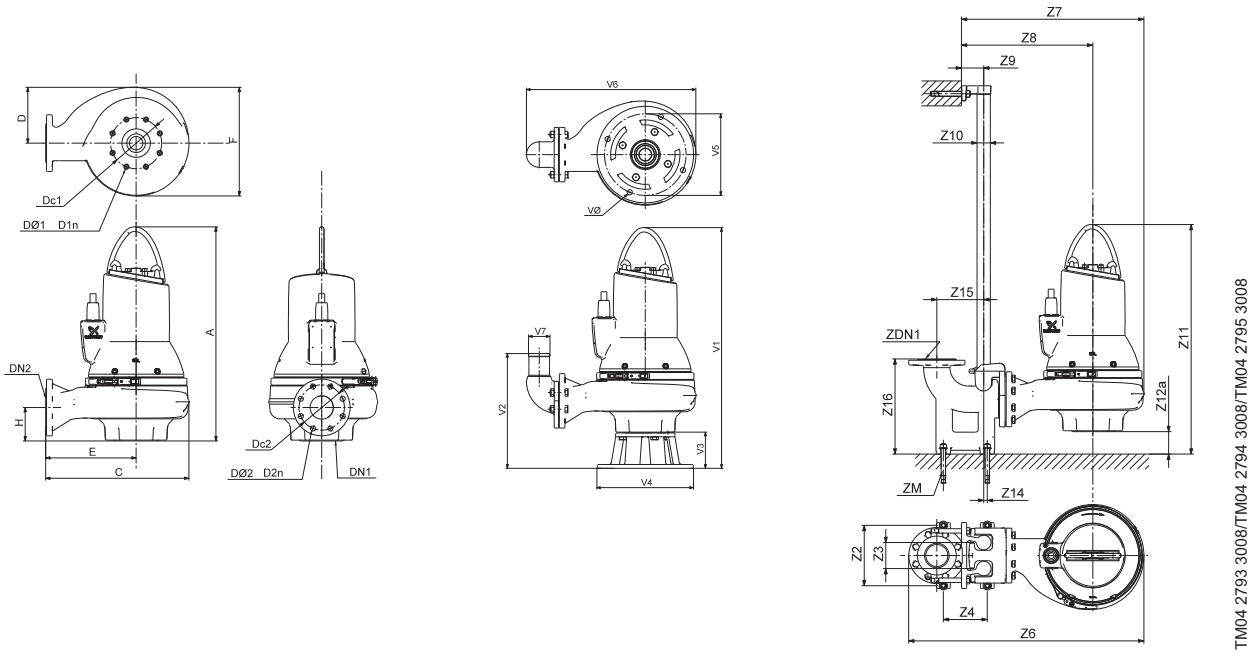
Performance curves SL1.30.A30.20



TM04 7839 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A30.20



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.850	17.126	6.732	10.709	14.724	3.937	4	7.5	8xM16	3	6	8x0.75	212.1
[mm]	682	435	171	272	374	100	100	190.5	8xM16	80	152.40	8x19.1	96.2

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	31.02	23.43	17.01	3.19	1.5"	31.10	4.252	0.51	6.73	13.583	4	4XM16
[mm]	220	95	160	788	595	432	81	1.5"	790	108	13	171	345	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.969	14.331	5.118	13.976	11.811	22.323	3.15	0.748
[mm]	812	364	130	355	300	567	80	19

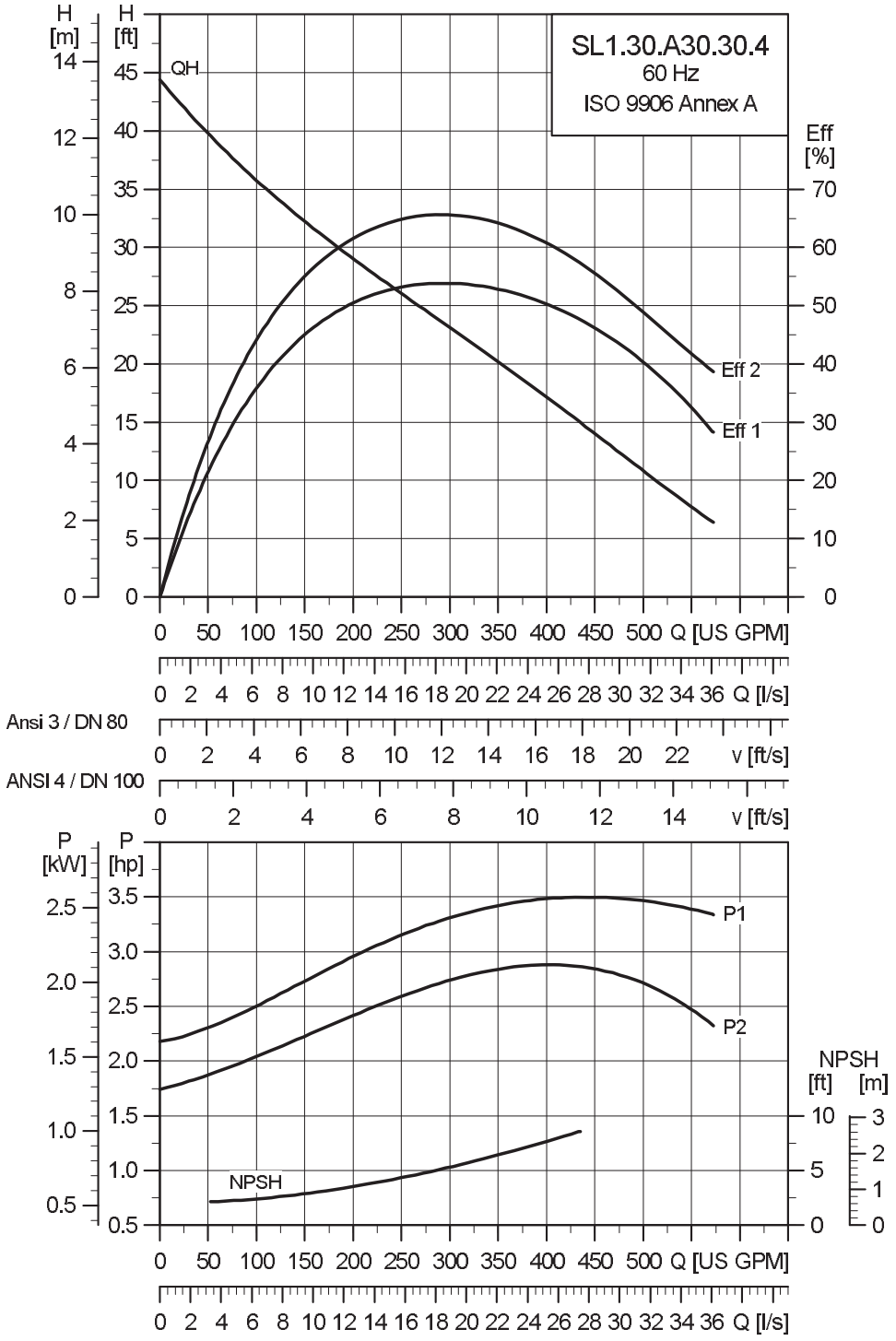
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A30.20.4.60J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.67 (0.0284)	19.18 (26)
SL1.30.A30.20.4.60L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.67 (0.0284)	22.86 (31)
SL1.30.A30.20.4.61L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	SD	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.67 (0.0284)	22.86 (31)
SL1.30.A30.20.4.61J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	SD	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.67 (0.0284)	19.18 (26)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

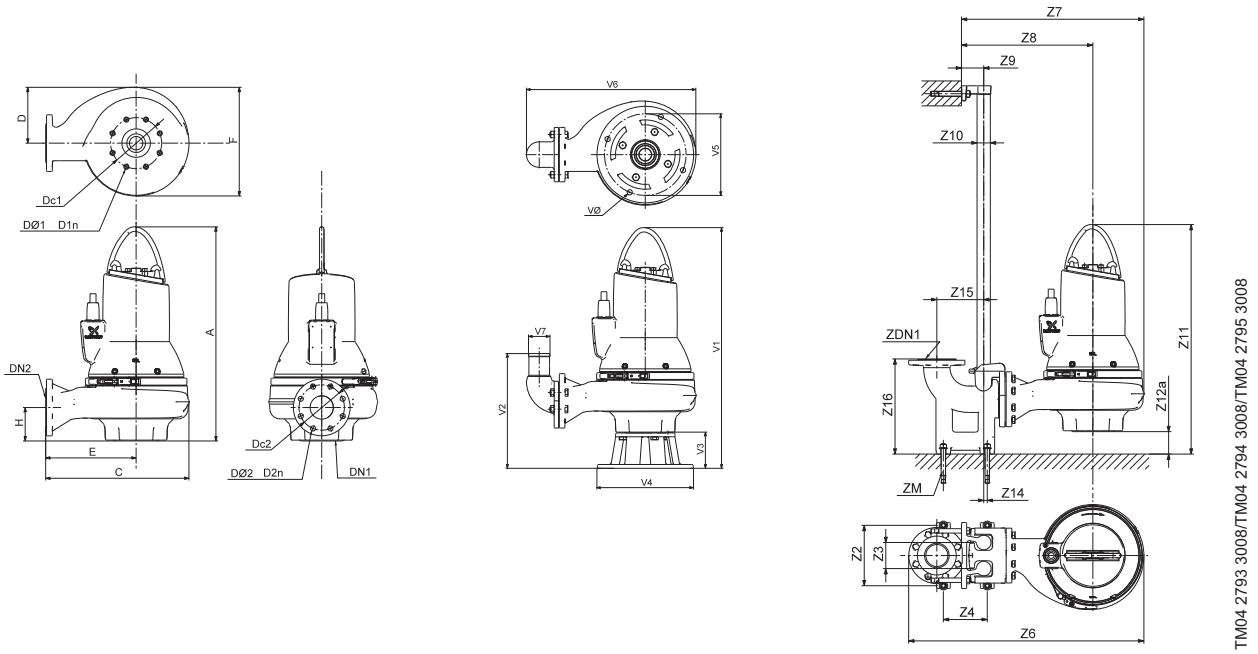
Performance curves SL1.30.A30.30



TM04 7840 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A30.30



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.850	17.126	6.732	10.709	14.724	3.937	4	7.5	8xM16	3	6	8x0.75	242.5
[mm]	682	435	171	272	374	100	100	190.5	8xM16	80	152.4	8x19.1	110

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	31.02	23.43	17.01	3.19	1.5"	31.10	4.252	0.51	6.73	13.583	4	4XM16
[mm]	220	95	160	788	595	432	81	1.5"	790	108	13	171	345	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.969	14.331	5.118	13.976	11.811	22.323	3.15	0.748
[mm]	812	364	130	355	300	567	80	19

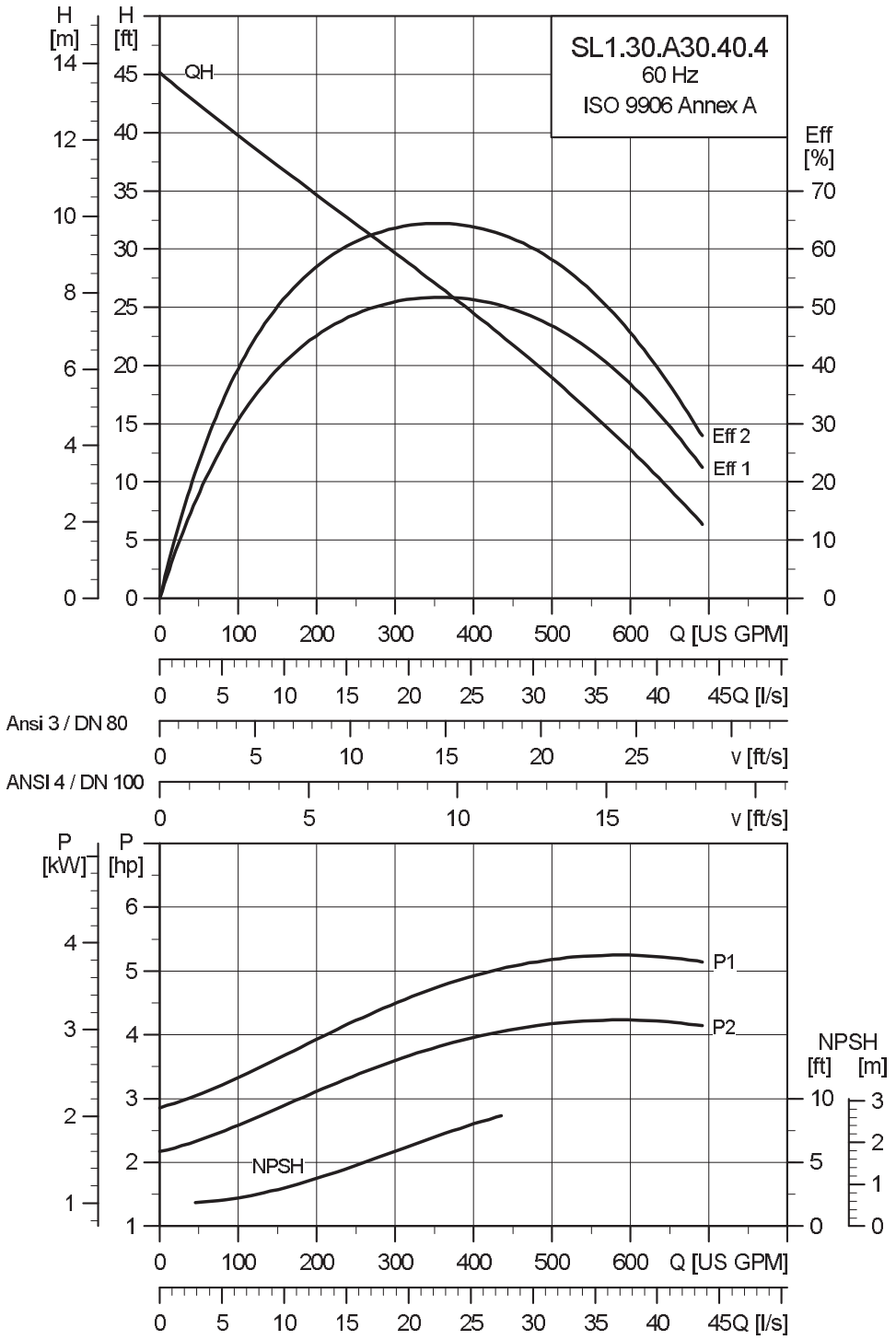
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A30.30.4.61H	3x460V D	3.6 (2.7)	3.0 (2.2)	4	1770	SD	4.5	39.7	76.9	80.7	83.0	0.57	0.69	0.76	1.15	1.02 (0.0429)	35.4 (48)
SL1.30.A30.30.4.61J	3x208-230V D / 460V Y	3.6 (2.7)	3.0 (2.2)	4	1750	SD	8.7	61.6	78.2	81.5	82.1	0.69	0.78	0.83	1.15	1.02 (0.0429)	26.55 (36)
SL1.30.A30.30.4.61L	3x575V D	3.6 (2.7)	3.0 (2.2)	4	1760	SD	3.5	29.0	77.5	81.3	82.9	0.62	0.72	0.79	1.15	1.02 (0.0429)	32.45 (44)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

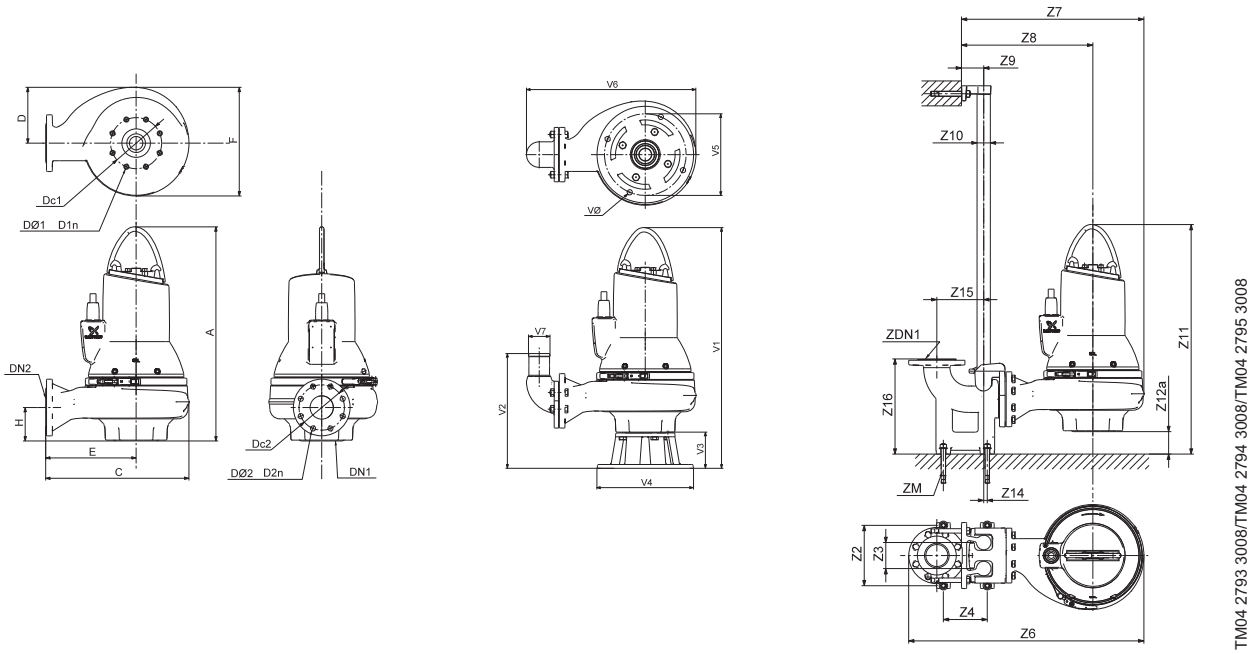
Performance curves SL1.30.A30.40



TM04 7841 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A30.40



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.992	19.882	7.874	12.559	15.63	4.646	4	7.5	8xM16	3	6	8x0.75	306.9
[mm]	711	505	200	319	397	118	100	190.5	8xM16	80	152.4	8x19.1	139.2

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	33.78	26.22	18.9	3.19	1.5"	31.22	3.228	0.51	6.73	13.583	4	4XM16
[mm]	220	95	160	858	666	480	81	1.5"	793	82	13	171	345	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.11	15.354	5.118	13.976	11.811	24.528	3.15	0.748
[mm]	841	390	130	355	300	623	80	19

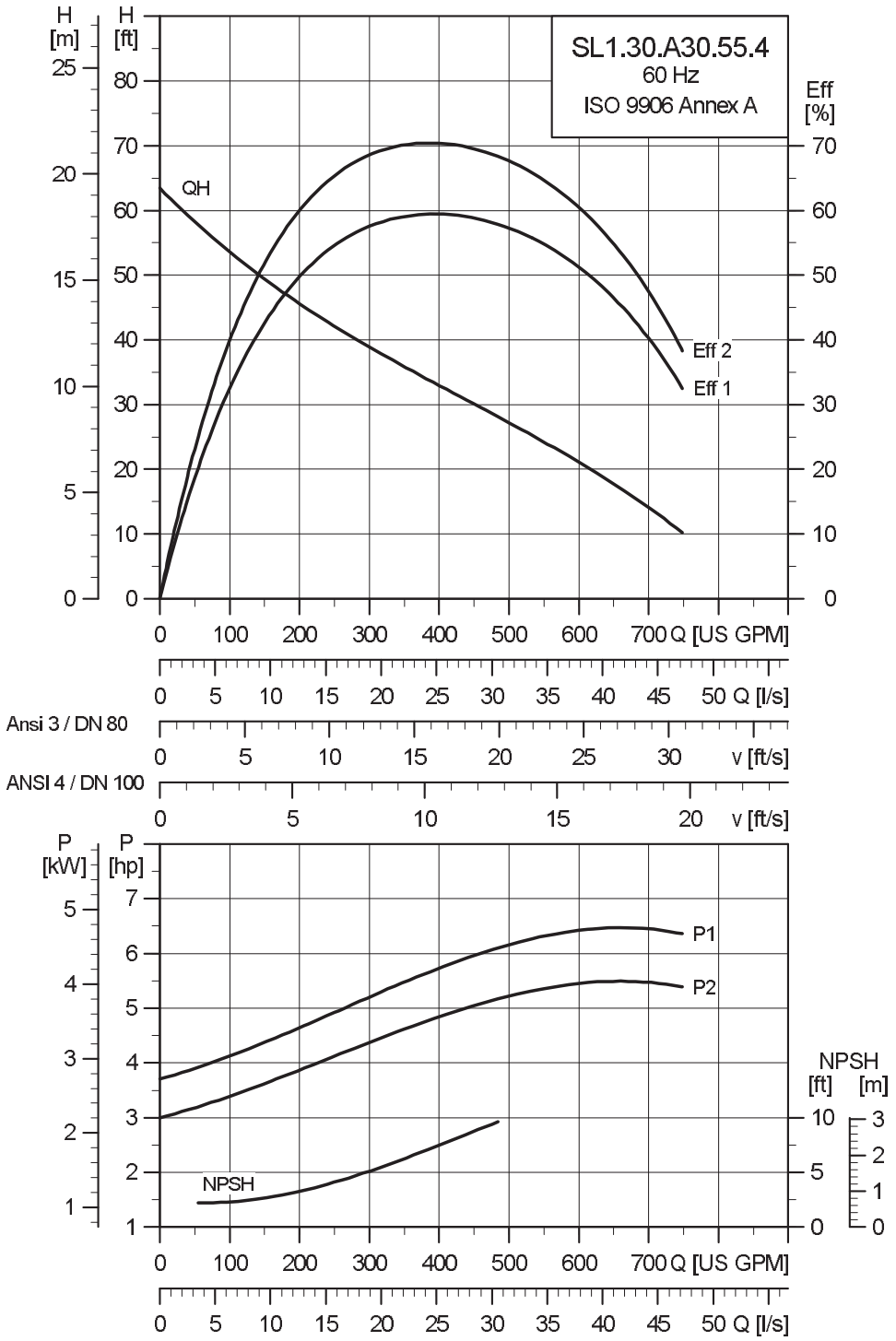
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos φ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A30.40.4.61J	3x208-230V D / 460V Y	5.0 (3.7)	4.0 (3.0)	4	1760	SD	12.0	79.5	76.0	79.8	80.2	0.69	0.80	0.84	1.15	1.35 (0.0569)	38.35 (52)
SL1.30.A30.40.4.61L	3x575V D	5.0 (3.7)	4.0 (3.0)	4	1750	SD	4.8	37.5	75.0	79.4	81.4	0.61	0.72	0.80	1.15	1.35 (0.0569)	46.47 (63)
SL1.30.A30.40.4.61H	3x460V D	5.0 (3.7)	4.0 (3.0)	4	1760	SD	6.2	51.5	74.6	79.7	81.5	0.56	0.68	0.77	1.15	1.35 (0.0569)	50.89 (69)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

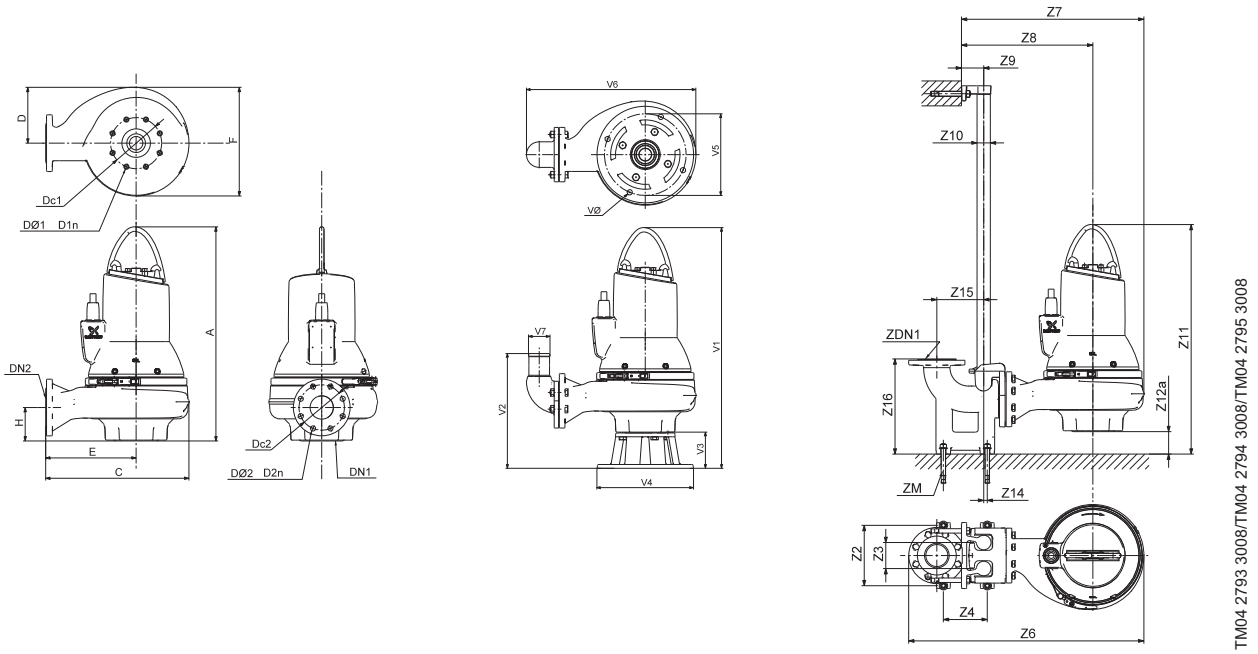
Performance curves SL1.30.A30.55



TM04 7842 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A30.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.449	19.882	7.874	12.559	15.63	4.646	4	7.5	8xM16	3	6	8x0.75	318.3
[mm]	748	505	200	319	397	118	100	190.5	8xM16	80	152.4	8x19.1	144.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	33.78	26.22	18.9	3.19	1.5"	32.68	3.228	0.51	6.73	13.583	4	4XM16
[mm]	220	95	160	858	666	480	81	1.5"	830	82	13	171	345	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.567	15.354	5.118	13.976	11.811	24.528	3.15	0.748
[mm]	878	390	130	355	300	623	80	19

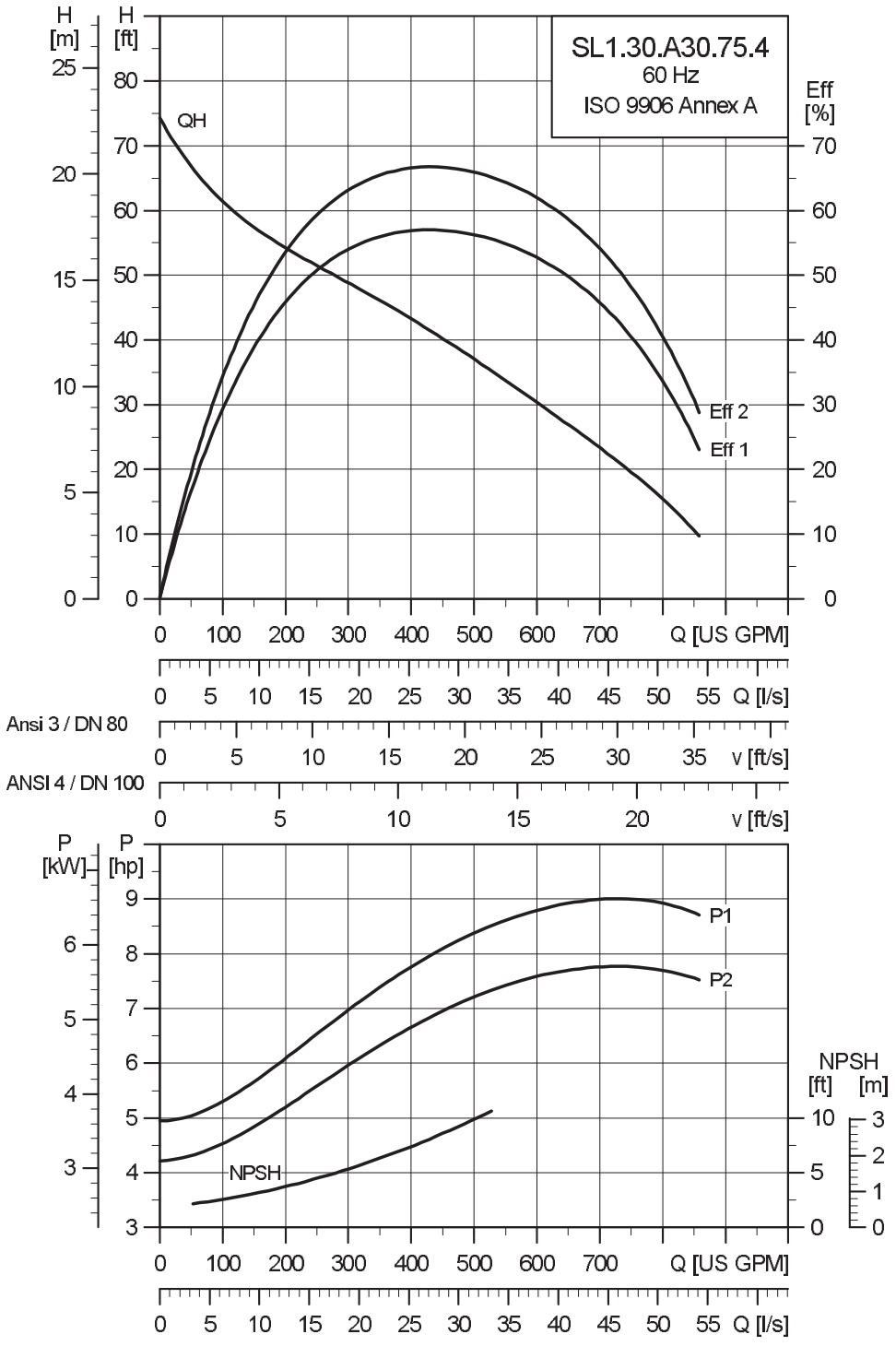
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A30.55.4.61J	3x208-230V D / 460V Y	6.4 (4.8)	5.5 (4.0)	4	1760	SD	16.1	79.4	79.9	83.3	83.9	0.61	0.74	0.80	1.15	1.73 (0.073)	81.87 (111)
SL1.30.A30.55.4.61L	3x575V D	6.4 (4.8)	5.5 (4.0)	4	1765	SD	6.5	37.5	79.2	83.3	84.7	0.54	0.67	0.75	1.15	1.73 (0.073)	68.59 (93)
SL1.30.A30.55.4.61H	3x460V D	6.4 (4.8)	5.5 (4.0)	4	1770	SD	8.5	51.5	78.3	82.6	84.4	0.50	0.64	0.72	1.15	1.73 (0.073)	74.49 (101)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

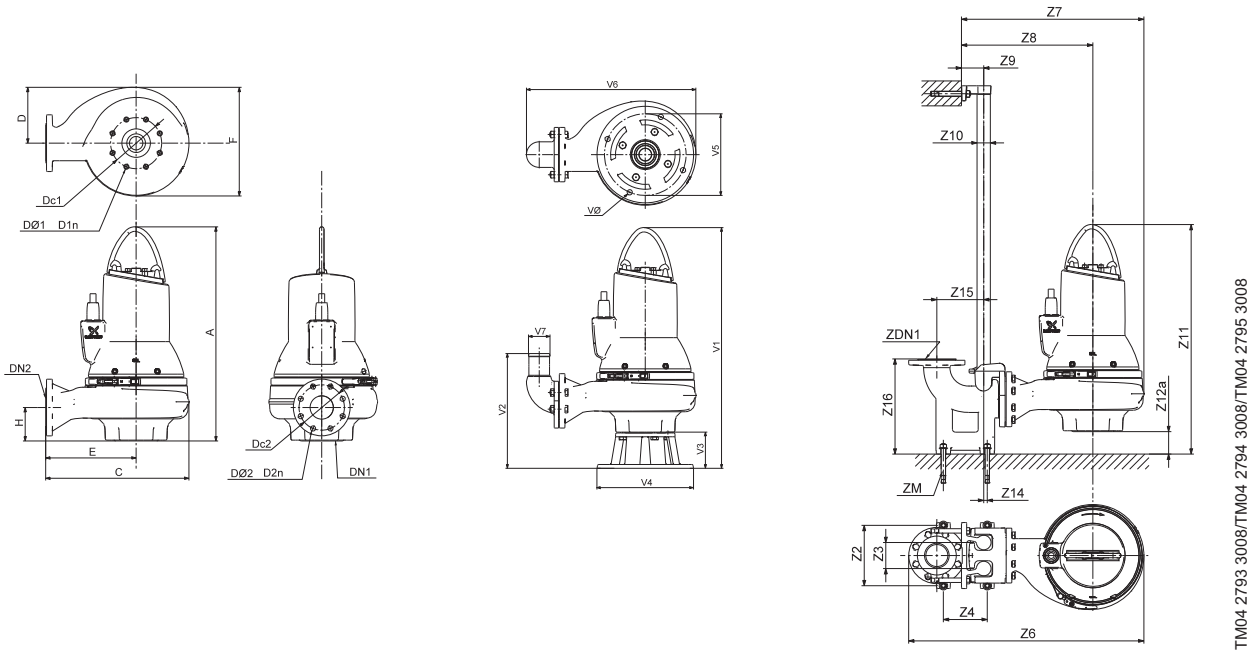
Performance curves SL1.30.A30.75



TM04 7843 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A30.75



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.724	19.882	7.874	12.559	15.63	4.646	4	7.5	8xM16	3	6	8x0.75	332.7
[mm]	755	505	200	319	397	118	100	190.5	8xM16	80	152.40	8x19.1	150.9

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	33.78	26.22	18.9	3.19	1.5"	32.95	3.228	0.51	6.73	13.583	4	4XM16
[mm]	220	95	160	858	666	480	81	1.5"	837	82	13	171	345	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.843	15.354	5.118	13.976	11.811	24.528	3.15	0.748
[mm]	885	390	130	355	300	623	80	19

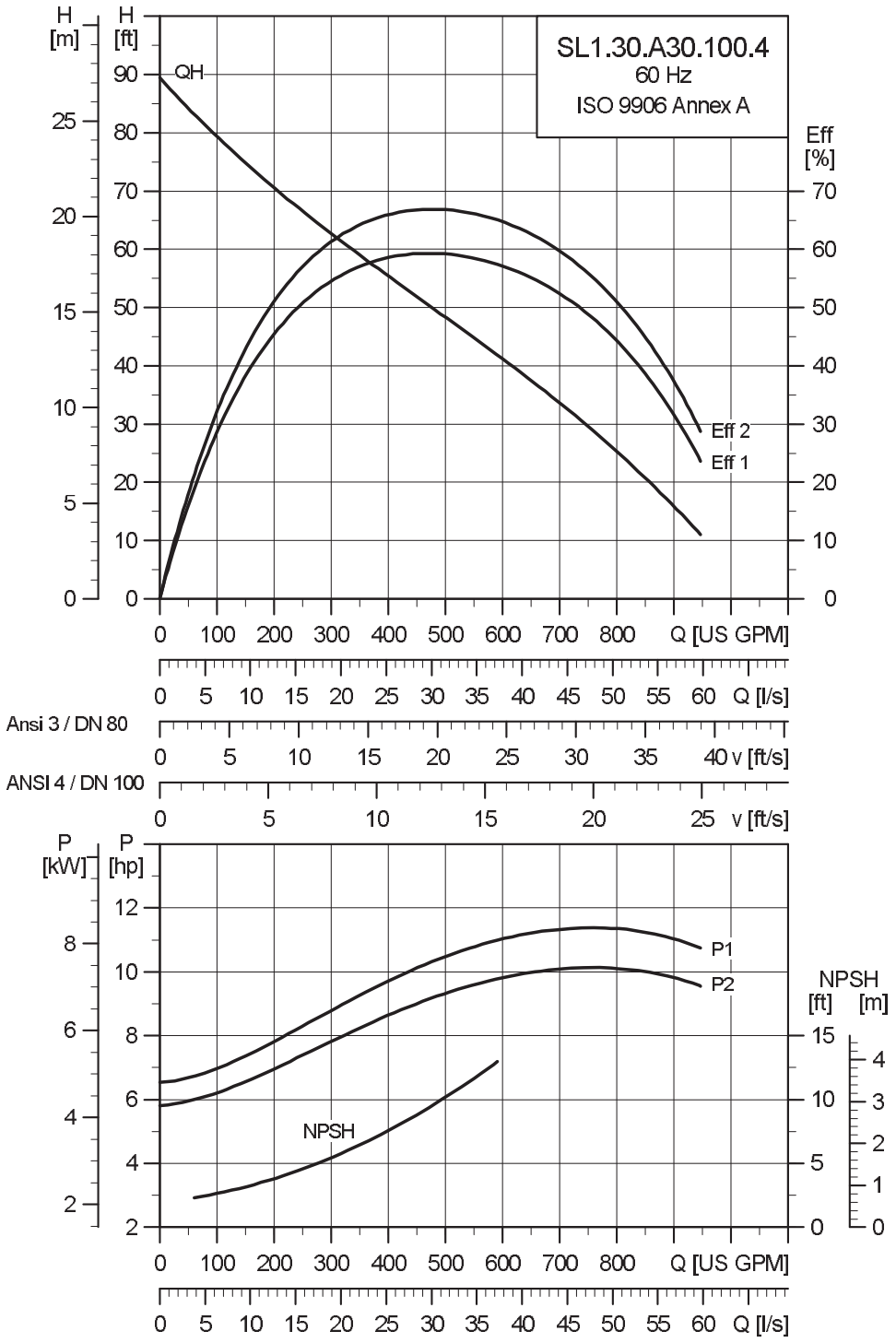
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A30.75.4.61J	3x208-230V D / 460V Y	8.6 (6.4)	7.5 (5.5)	4	1760	SD	20.0	126	83.2	85.6	85.8	0.77	0.84	0.87	1.15	2.39 (0.10056)	90.72 (123)
SL1.30.A30.75.4.61L	3x575V D	8.6 (6.4)	7.5 (5.5)	4	1765	SD	7.8	59.3	83.5	86.6	87.3	0.69	0.79	0.84	1.15	2.39 (0.10056)	75.97 (103)
SL1.30.A30.75.4.61H	3x460V D	8.6 (6.4)	7.5 (5.5)	4	1770	SD	10.0	81.4	82.9	86.3	87.2	0.65	0.75	0.81	1.15	2.39 (0.10056)	83.34 (113)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

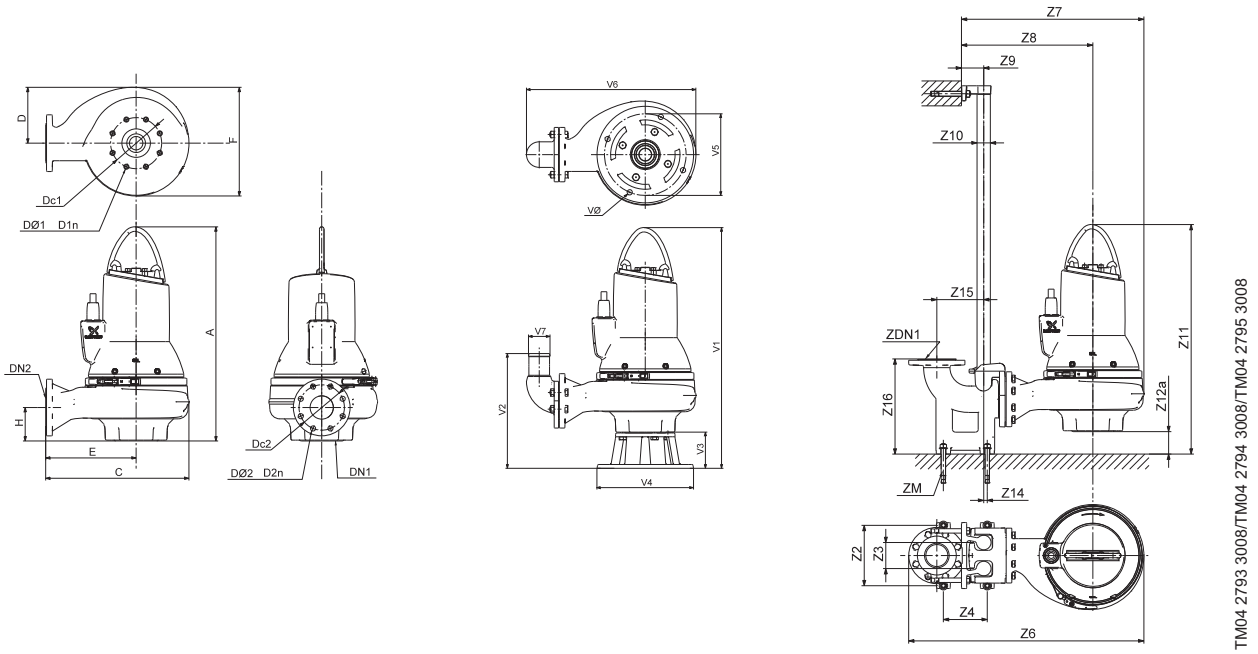
Performance curves SL1.30.A30.100



TM04 7844 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A30.100



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	32.205	20.866	8.543	12.913	16.654	4.646	4	7.5	8xM16	3	6	8x0.75	435.9
[mm]	818	530	217	328	423	118	100	190.5	8xM16	80	152.40	8x19.1	197.7

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	34.76	27.17	19.25	3.19	1.5"	35.43	3.228	0.51	6.73	13.583	4	4XM16
[mm]	220	95	160	883	690	489	81	1.5"	900	82	13	171	345	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	37.323	15.354	5.118	13.976	11.811	25.512	3.15	0.748
[mm]	948	390	130	355	300	648	80	19

Electrical data

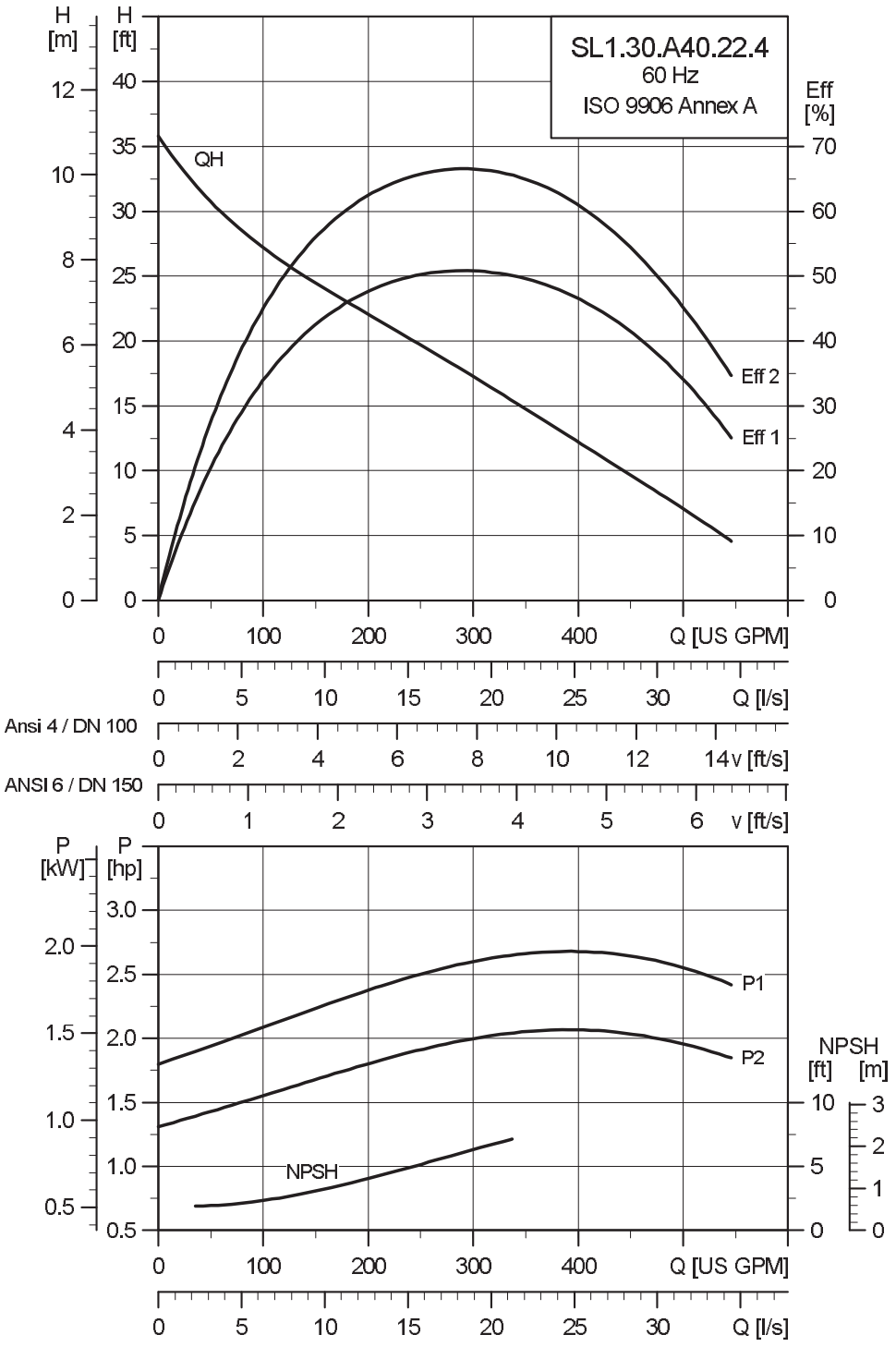
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A30.100.4.61J	3x208-230V D / 460V Y	11.5 (8.6)	10.0 (7.5)	4	1760	SD	26.6	174	85.6	86.9	86.4	0.80	0.86	0.89	1.15	3.18 (0.134)	75.23 (102)
SL1.30.A30.100.4.61L	3x575V D	11.5 (8.6)	10.0 (7.5)	4	1760	SD	10.2	81.2	85.3	87.4	87.9	0.74	0.83	0.86	1.15	3.18 (0.134)	104.73 (142)
SL1.30.A30.100.4.61H	3x460V D	11.5 (8.6)	10.0 (7.5)	4	1765	SD	13.0	111	85.0	87.6	88.1	0.70	0.80	0.85	1.15	3.18 (0.134)	114.32 (155)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

SL1.30.A40

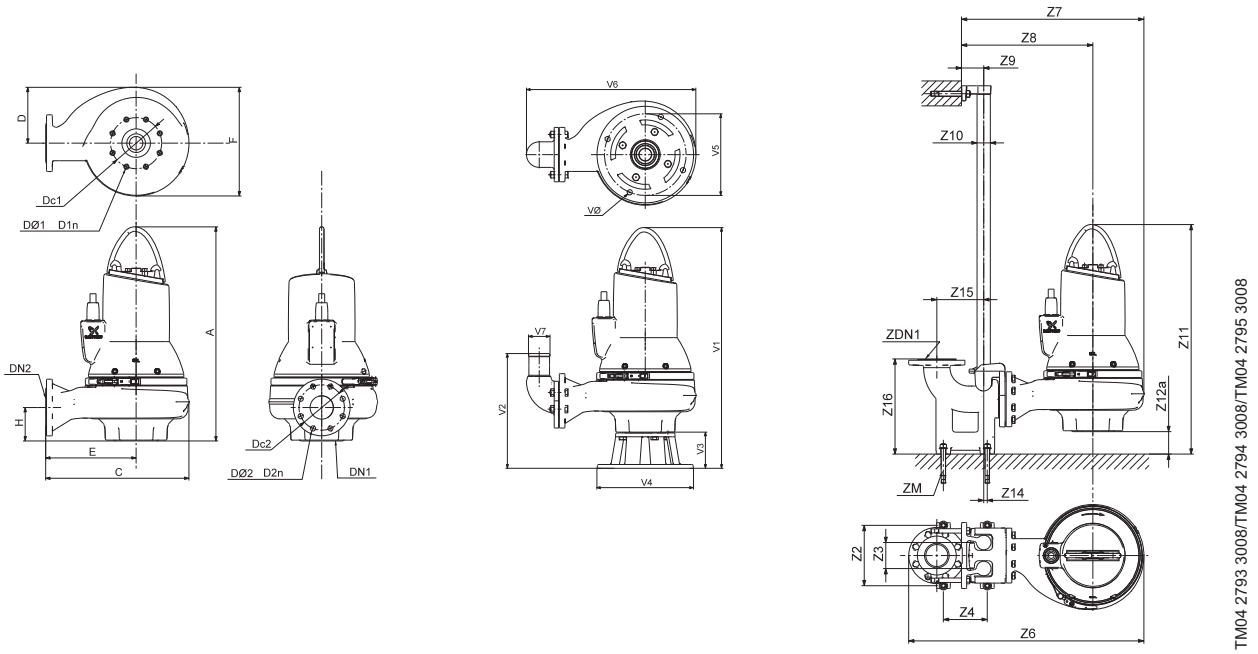
Performance curves SL1.30.A40.20



TM04 7845 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A40.20



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.850	17.126	6.732	10.709	13.661	4.409	4	7.5	8xM16	4	7.5	8x0.75	214.3
[mm]	682	435	171	272	347	112	100	190.5	8xM16	100	190.50	8x19.1	97.2

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	34.57	25.67	19.25	4.33	2.0"	32.68	5.827	0	8.66	16.26	4	4XM16
[mm]	260	110	220	878	652	489	110	2.0"	830	148	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.969	14.528	5.118	13.976	11.811	23.268	3.937	0.748
[mm]	812	369	130	355	300	591	100	19

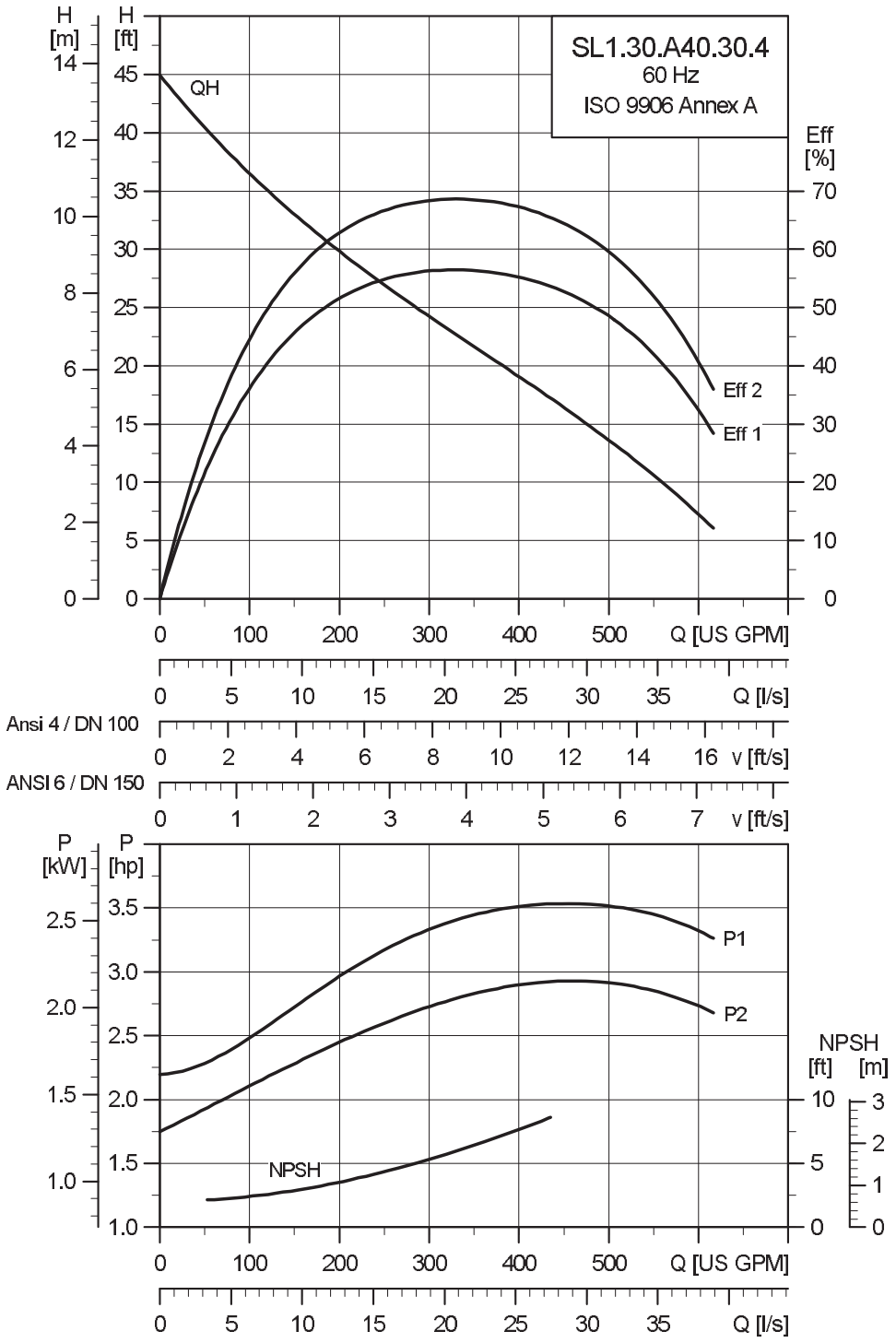
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A40.20.4.60J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.67 (0.0284)	19.18 (26)
SL1.30.A40.20.4.60L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.67 (0.0284)	22.86 (31)
SL1.30.A40.20.4.61L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	SD	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.67 (0.0284)	22.86 (31)
SL1.30.A40.20.4.61J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	SD	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.67 (0.0284)	19.18 (26)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

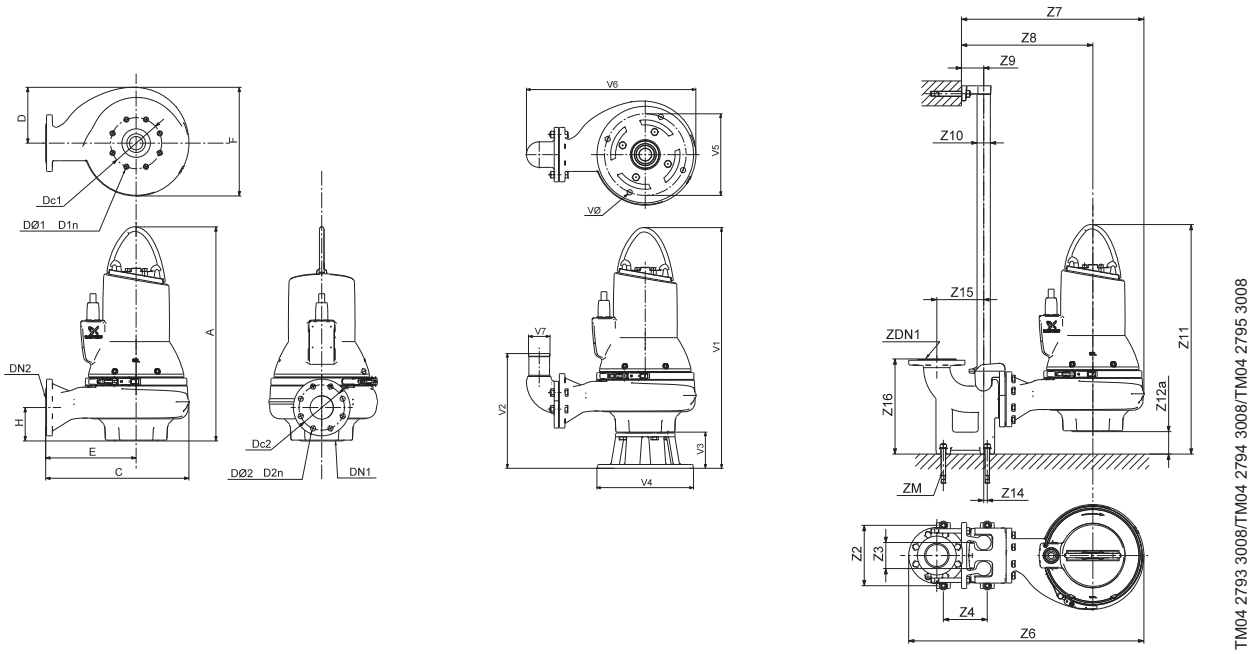
Performance curves SL1.30.A40.30



TM04 7846 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A40.30



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.85	17.126	6.732	10.709	13.661	4.409	4	7.5	8xM16	4	7.5	8x0.75	244.7
[mm]	682	435	171	272	347	112	100	190.5	8xM16	100	190.50	8x19.1	111.0

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	34.57	25.67	19.25	4.33	2.0"	32.68	5.827	0	8.66	16.260	4	4XM16
[mm]	260	110	220	878	652	489	110	2.0"	830	148	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.969	14.528	5.118	13.976	11.811	23.268	3.937	0.748
[mm]	812	369	130	355	300	591	100	19

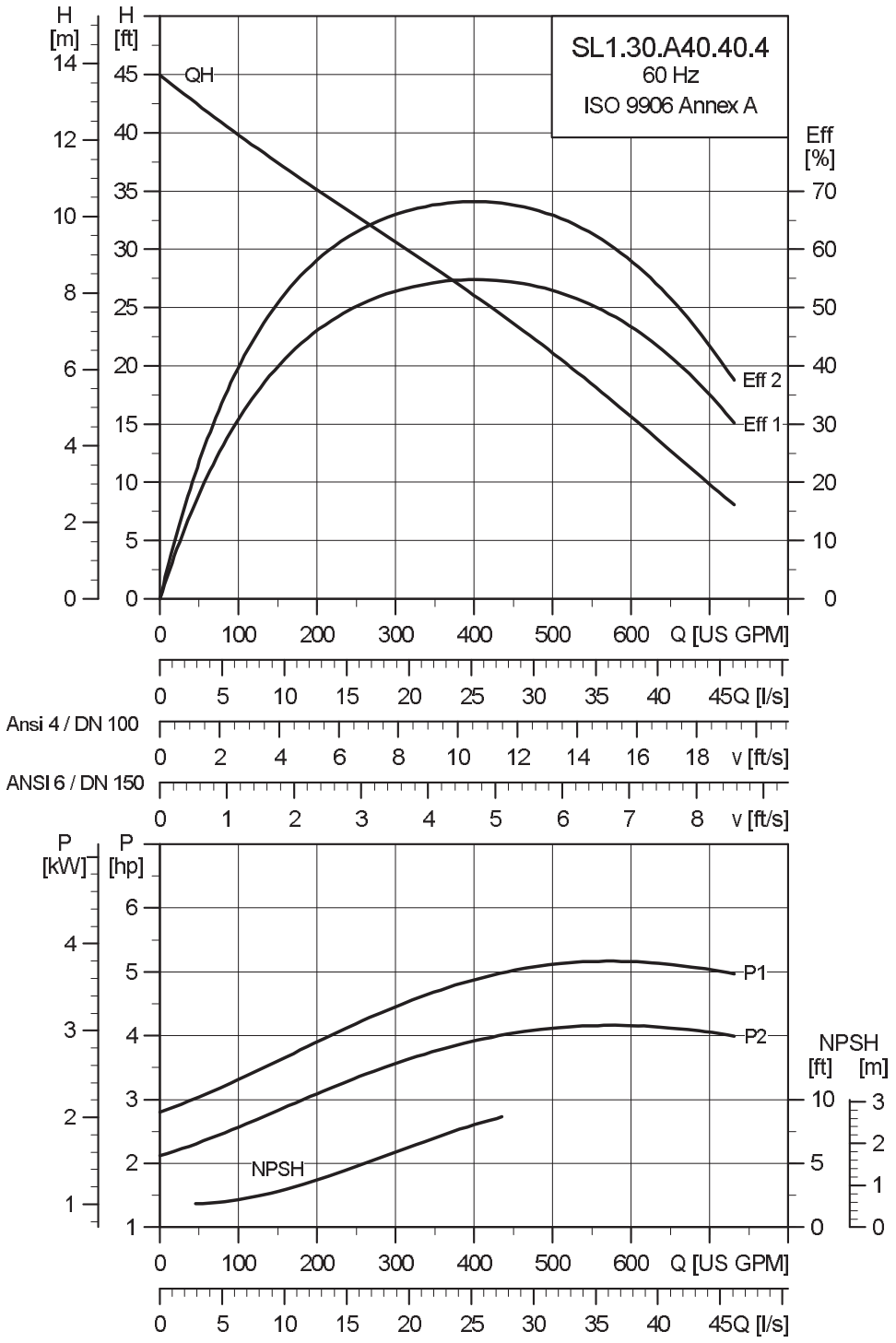
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A40.30.4.61J	3x208-230V D / 460V Y	3.6 (2.7)	3.0 (2.2)	4	1750	SD	8.7	61.6	78.2	81.5	82.1	0.69	0.78	0.83	1.15	1.35 (0.05690)	26.55 (36)
SL1.30.A40.30.4.61H	3x460V D	3.6 (2.7)	3.0 (2.2)	4	1770	SD	4.5	39.7	76.9	80.7	83.0	0.57	0.69	0.76	1.15	1.35 (0.05690)	35.4 (48)
SL1.30.A40.30.4.61L	3x575V D	3.6 (2.7)	3.0 (2.2)	4	1760	SD	3.5	29.0	77.5	81.3	82.9	0.62	0.72	0.79	1.15	1.35 (0.05690)	32.45 (44)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

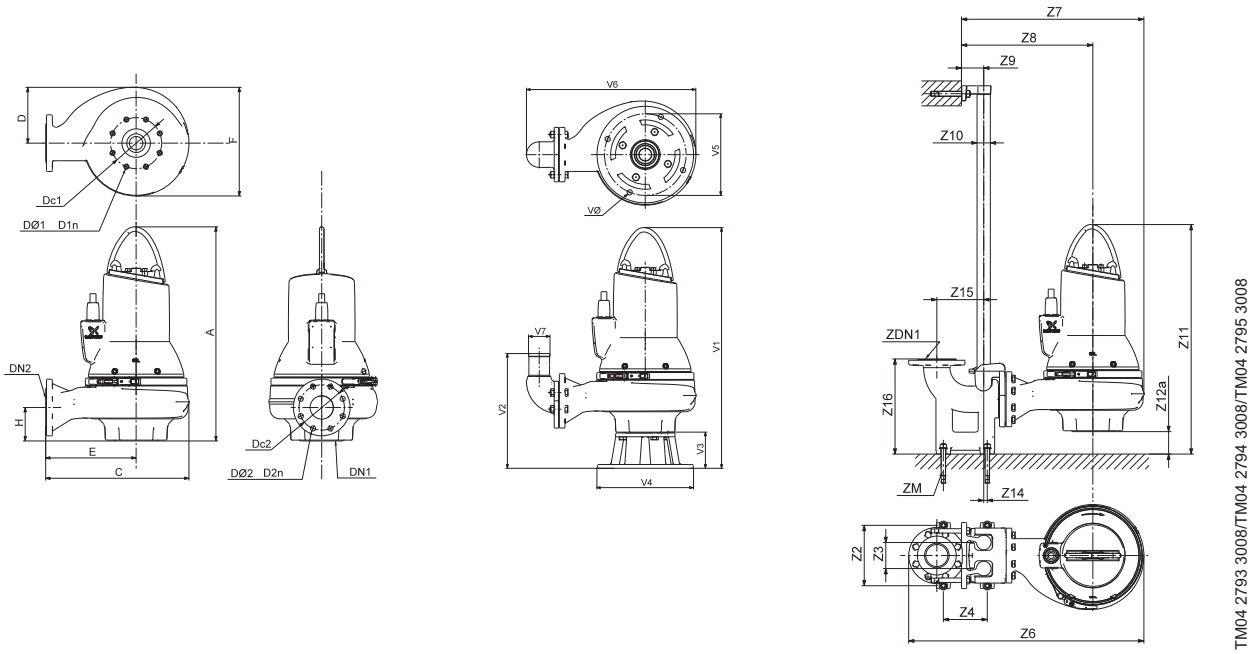
Performance curves SL1.30.A40.40



TM04 7847 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A40.40



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	28.583	19.882	7.874	12.559	15.630	4.646	4	7.5	8xM16	4	7.5	8x0.75	309.1
[mm]	726	505	200	319	397	118	100	190.5	8xM16	100	190.50	8x19.1	140.2

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	37.32	28.43	21.10	4.33	2.0"	32.68	4.803	0	8.66	16.260	4	4XM16
[mm]	260	110	220	948	722	536	110	2.0"	830	122	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.701	15.551	5.118	13.976	11.811	25.472	3.937	0.748
[mm]	856	395	130	355	300	647	100	19

Electrical data

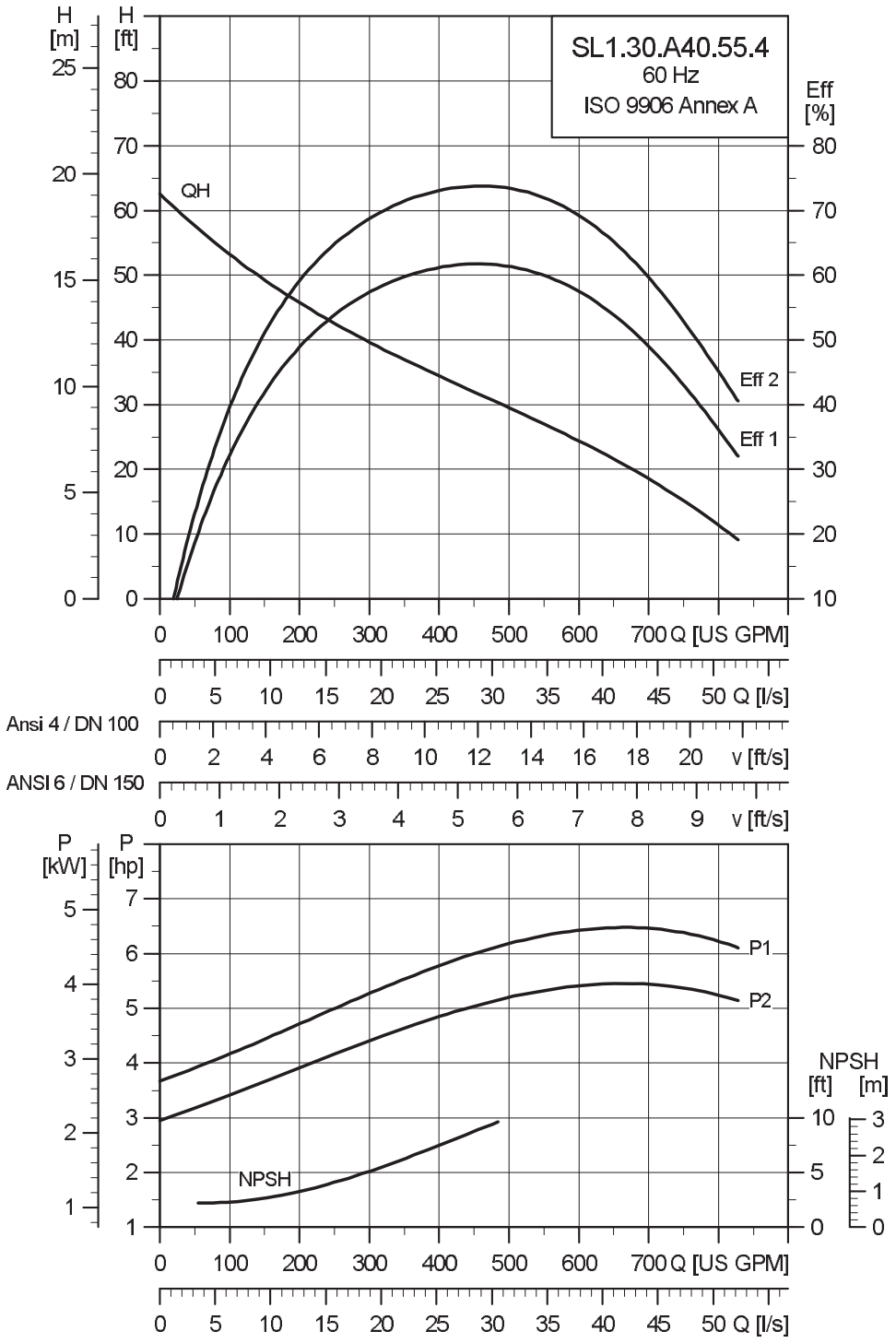
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A40.40.4.61J	3x208-230V D / 460V Y	5.0 (3.7)	4.0 (3.0)	4	1760	SD	12.0	79.5	76.0	79.8	80.2	0.69	0.80	0.84	1.15	1.35 (0.05690)	38.35 (52)
SL1.30.A40.40.4.61L	3x575V D	5.0 (3.7)	4.0 (3.0)	4	1750	SD	4.8	37.5	75.0	79.4	81.4	0.61	0.72	0.80	1.15	1.35 (0.05690)	46.47 (63)
SL1.30.A40.40.4.61H	3x460V D	5.0 (3.7)	4.0 (3.0)	4	1760	SD	6.2	51.5	74.6	79.7	81.5	0.56	0.68	0.77	1.15	1.35 (0.05690)	50.89 (69)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

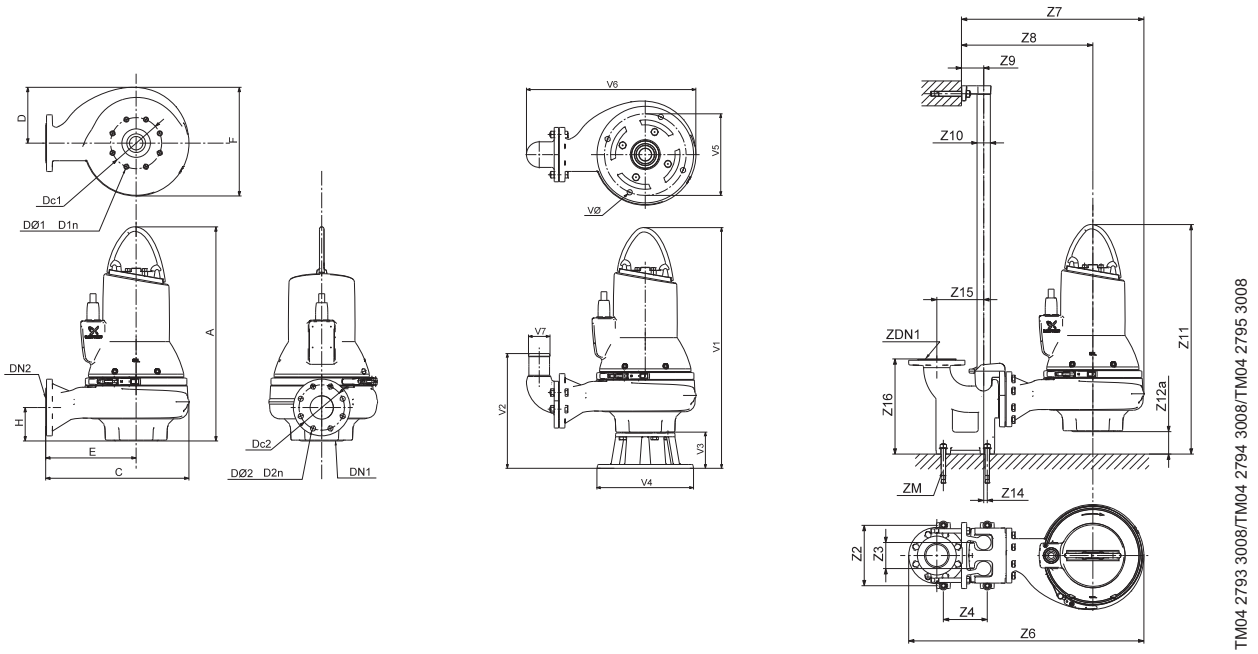
Performance curves SL1.30.A40.55



TM04 7848 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A40.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.449	19.882	7.874	12.559	15.63	4.646	4	7.5	8xM16	4	7.5	8x0.75	320.6
[mm]	748	505	200	319	397	118	100	190.5	8xM16	100	190.5	8x19.1	145.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	37.32	28.43	21.10	4.33	2.0"	34.25	4.803	0	8.66	16.260	4	4XM16
[mm]	260	110	220	948	722	536	110	2.0"	870	122	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.567	15.551	5.118	13.976	11.811	25.472	3.937	0.748
[mm]	878	395	130	355	300	647	100	19

Electrical data

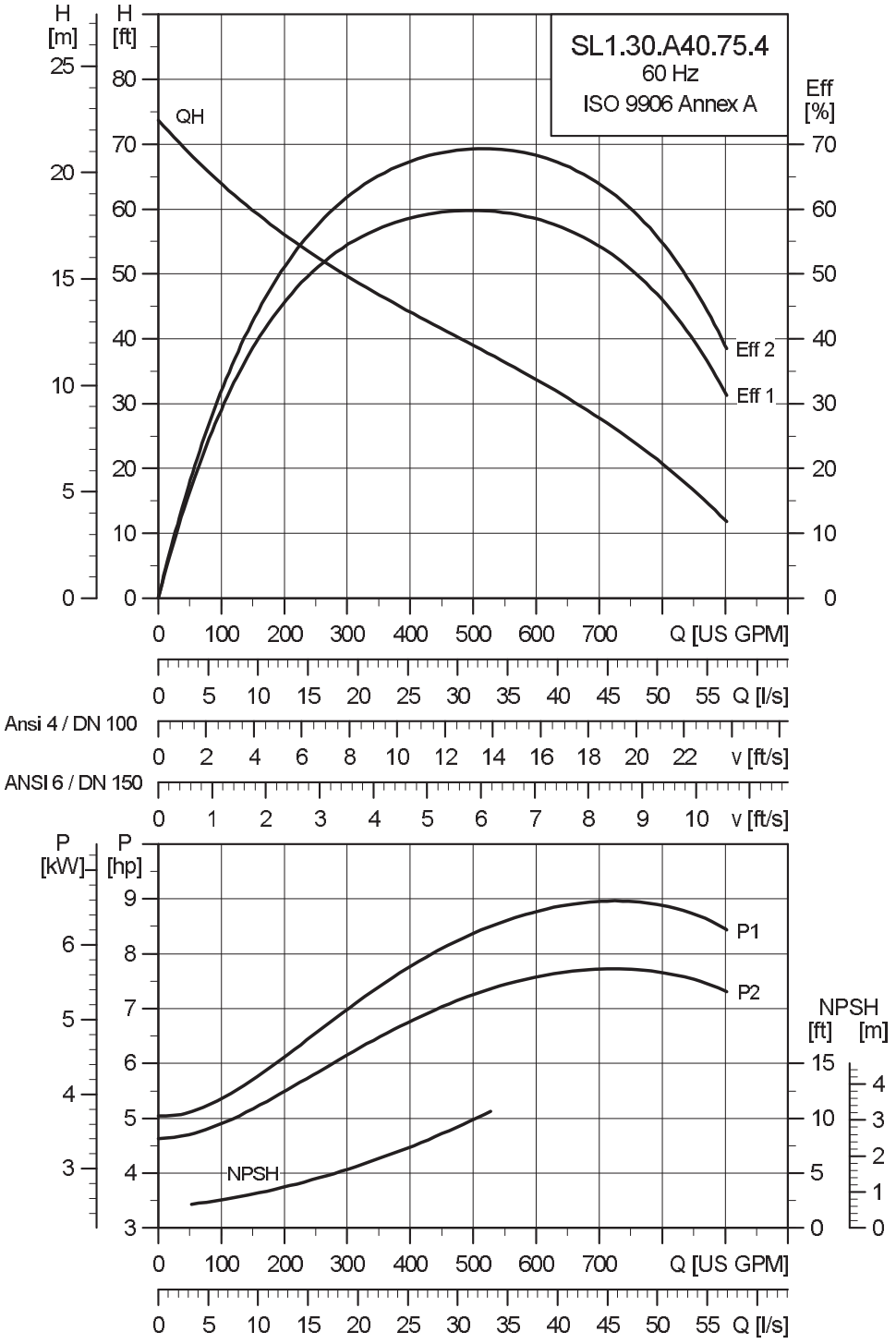
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos φ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A40.55.4.61J	3x208-230V D / 460V Y	6.4 (4.8)	5.5 (4.0)	4	1760	SD	16.1	79.4	79.9	83.3	83.9	0.61	0.74	0.80	1.15	1.73 (0.07300)	81.87 (111)
SL1.30.A40.55.4.61L	3x575V D	6.4 (4.8)	5.5 (4.0)	4	1765	SD	6.5	37.5	79.2	83.3	84.7	0.54	0.67	0.75	1.15	1.73 (0.07300)	68.59 (93)
SL1.30.A40.55.4.61H	3x460V D	6.4 (4.8)	5.5 (4.0)	4	1770	SD	8.5	51.5	78.3	82.6	84.4	0.50	0.64	0.72	1.15	1.73 (0.07300)	74.49 (101)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

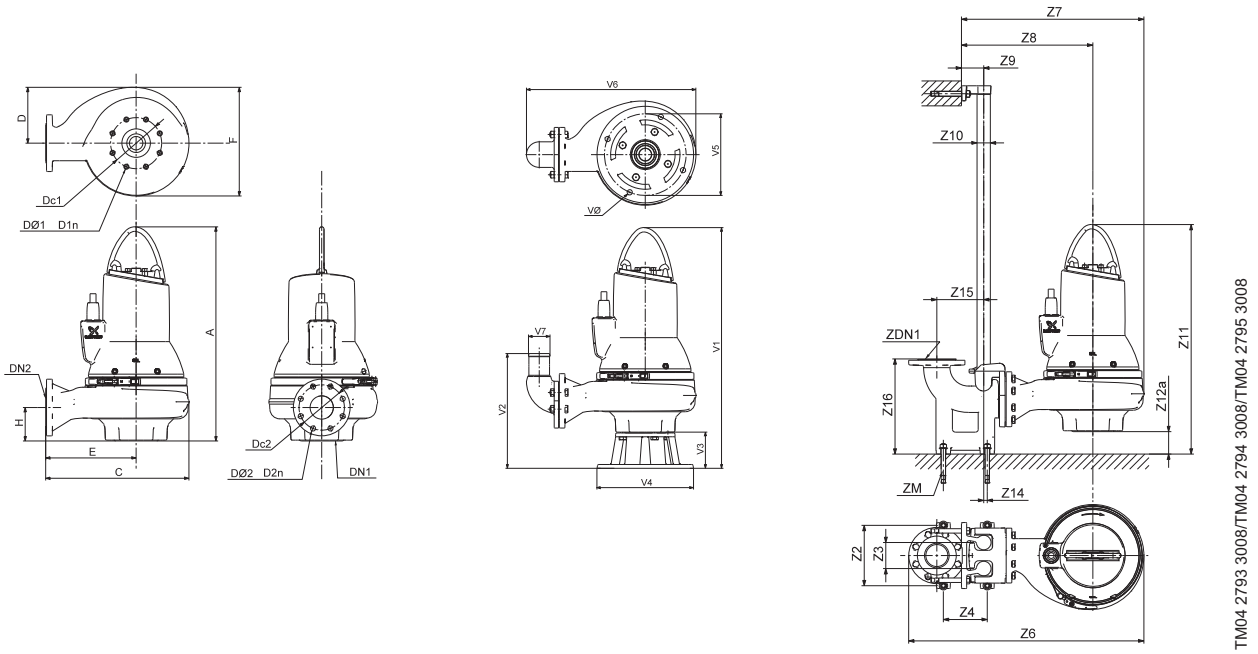
Performance curves SL1.30.A40.75



TM04 7849 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A40.75



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.724	19.882	7.874	12.559	15.630	4.646	4	7.5	8xM16	4	7.5	8x0.75	334.9
[mm]	755	505	200	319	397	118	100	190.5	8xM16	100	190.50	8x19.1	151.9

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	37.32	28.43	21.10	4.33	2.0"	34.25	4.803	0	8.66	16.260	4	4XM16
[mm]	260	110	220	948	722	536	110	2.0"	870	122	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.843	15.551	5.118	13.976	11.811	25.472	3.937	0.748
[mm]	885	395	130	355	300	647	100	19

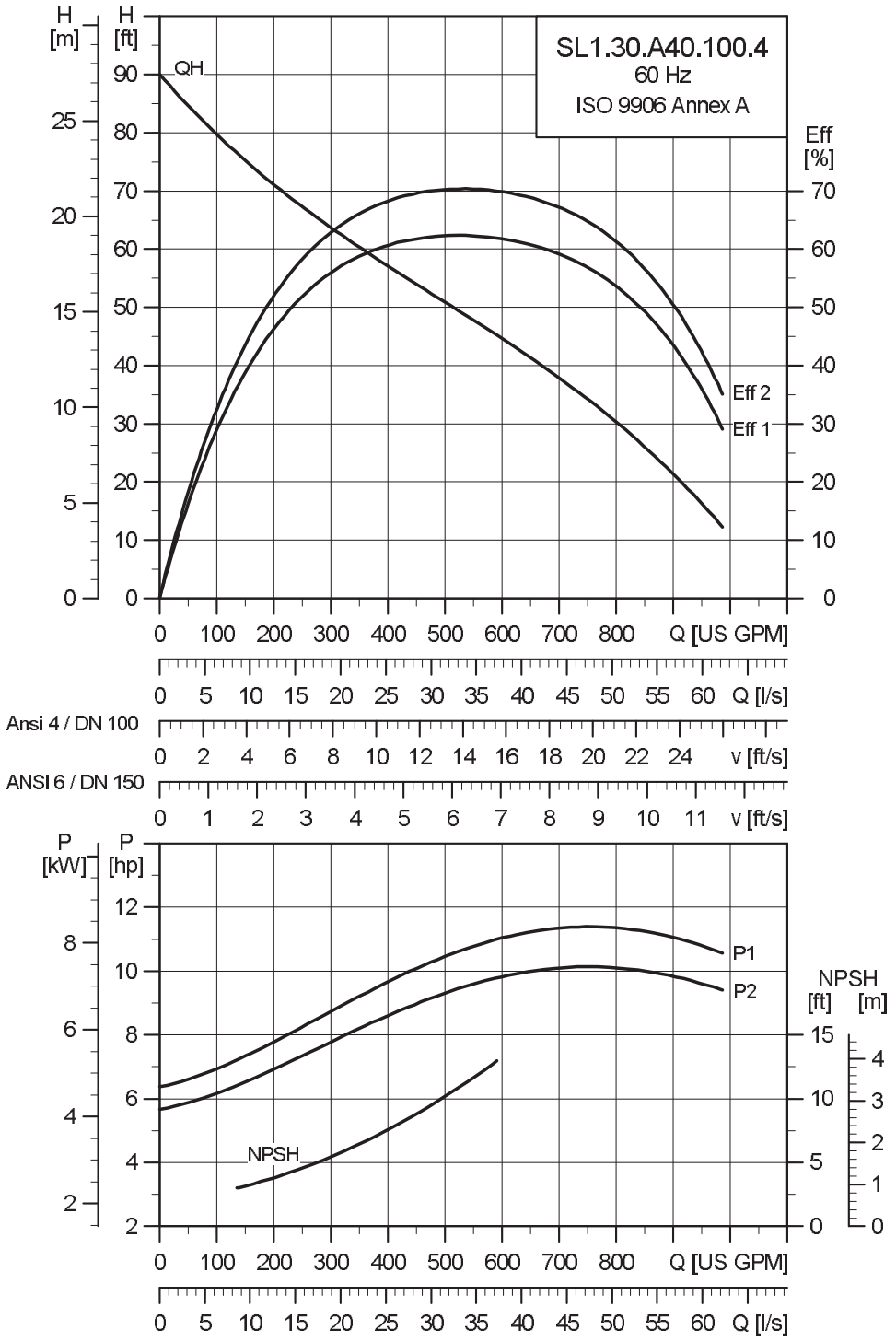
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A40.75.4.61J	3x208-230V D / 460V Y	8.6 (6.4)	7.5 (5.5)	4	1760	SD	20.0	126	83.2	85.6	85.8	0.77	0.84	0.87	1.15	2.39 (0.10056)	90.72 (123)
SL1.30.A40.75.4.61L	3x575V D	8.6 (6.4)	7.5 (5.5)	4	1765	SD	7.8	59.3	83.5	86.6	87.3	0.69	0.79	0.84	1.15	2.39 (0.10056)	75.97 (103)
SL1.30.A40.75.4.61H	3x460V D	8.6 (6.4)	7.5 (5.5)	4	1770	SD	10.0	81.4	82.9	86.3	87.2	0.65	0.75	0.81	1.15	2.39 (0.10056)	83.34 (113)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

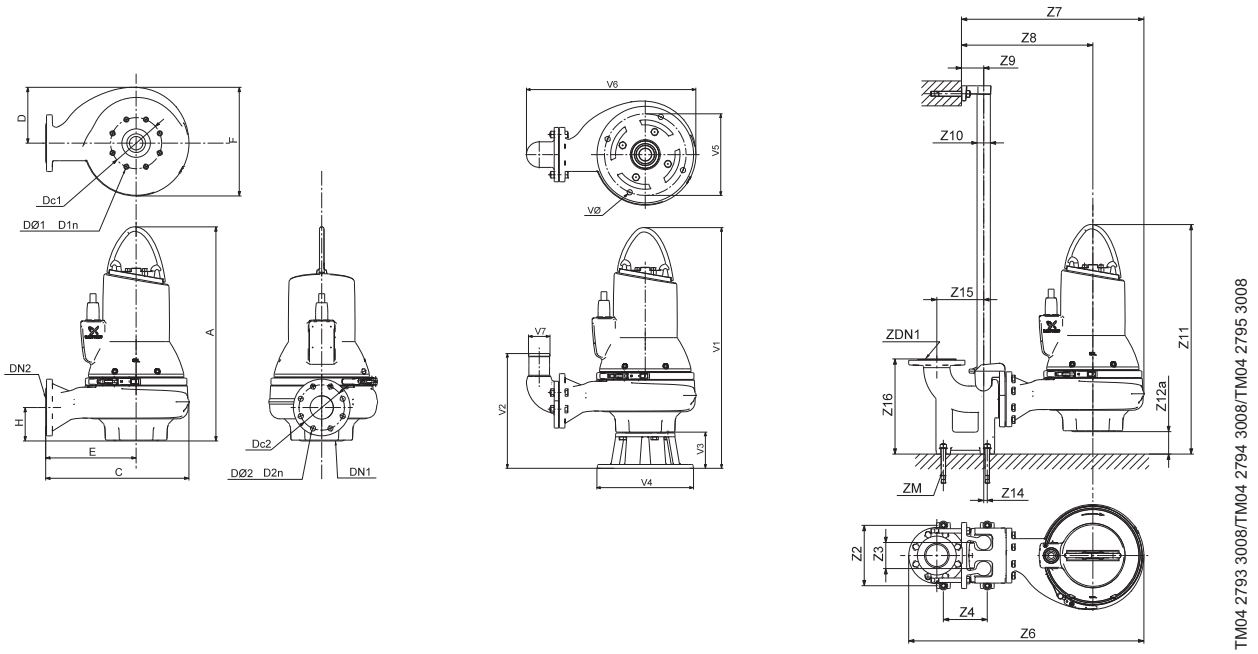
Performance curves SL1.30.A40.100



TM04 7850 2310

Performance curves
Technical data

Dimensional sketches SL1.30.A40.100



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	32.205	20.866	8.543	12.913	16.654	4.646	4	7.5	8xM16	4	7.5	8x0.75	437.8
[mm]	818	530	217	328	423	118	100	190.5	8xM16	100	190.50	8x19.1	198.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	38.27	29.41	21.46	4.33	2.0"	37.01	4.803	0	8.66	16.260	4	4XM16
[mm]	260	110	220	972	747	545	110	2.0"	940	122	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	37.323	15.551	5.118	13.976	11.811	26.457	3.937	0.748
[mm]	948	395	130	355	300	672	100	19

Electrical data

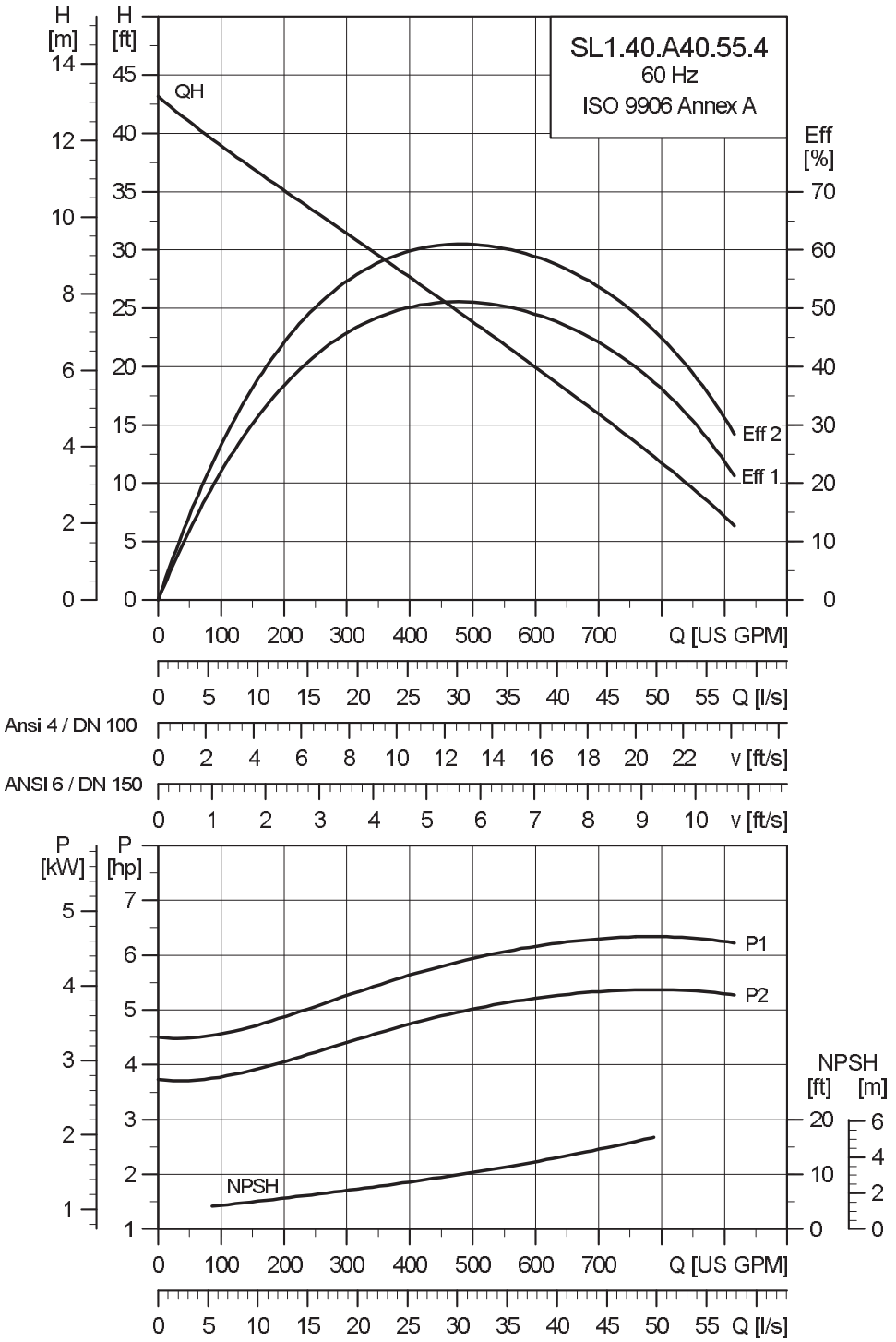
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.30.A40.100.4.61J	3x208-230V D / 460V Y	11.5 (8.6)	10.0 (7.5)	4	1760	SD	26.6	174	85.6	86.9	86.4	0.80	0.86	0.89	1.15	3.18 (0.13400)	75.23 (102)
SL1.30.A40.100.4.61L	3x575V D	11.5 (8.6)	10.0 (7.5)	4	1760	SD	10.2	81.2	85.3	87.4	87.9	0.74	0.83	0.86	1.15	3.18 (0.13400)	104.73 (142)
SL1.30.A40.100.4.61H	3x460V D	11.5 (8.6)	10.0 (7.5)	4	1765	SD	13.0	111	85.0	87.6	88.1	0.70	0.80	0.85	1.15	3.18 (0.13400)	114.32 (155)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

SL1.40.A40

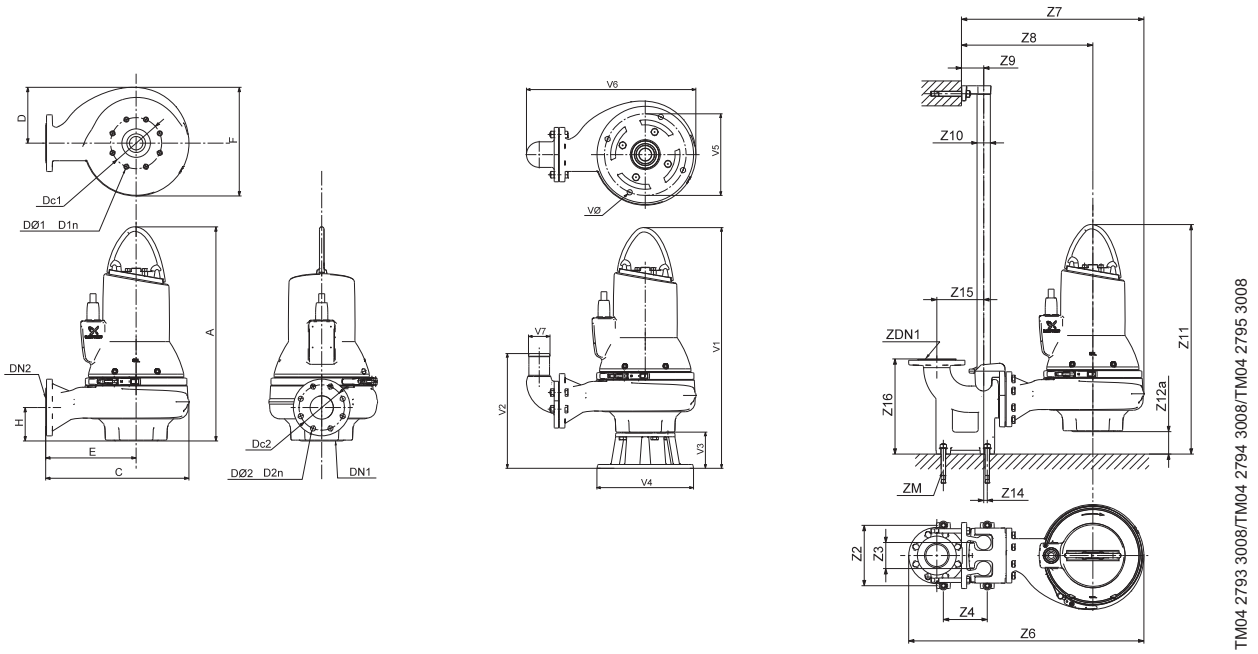
Performance curves SL1.40.A40.55



TM04 7851 2310

Performance curves
Technical data

Dimensional sketches SL1.40.A40.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.724	21.299	7.874	12.598	17.244	4.528	6	9.5	8xM20	4	7.5	8x0.75	349.2
[mm]	755	541	200	320	438	115	150	241.3	8xM20	100	190.50	8x19.1	158.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	38.70	29.84	21.14	4.33	2.0"	34.61	4.921	0	8.66	16.260	6	4XM16
[mm]	260	110	220	983	758	537	110	2.0"	879	125	0	220	413	150	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	37.047	17.520	7.323	17.717	15.748	27.992	3.937	0.866
[mm]	941	445	186	450	400	711	100	22

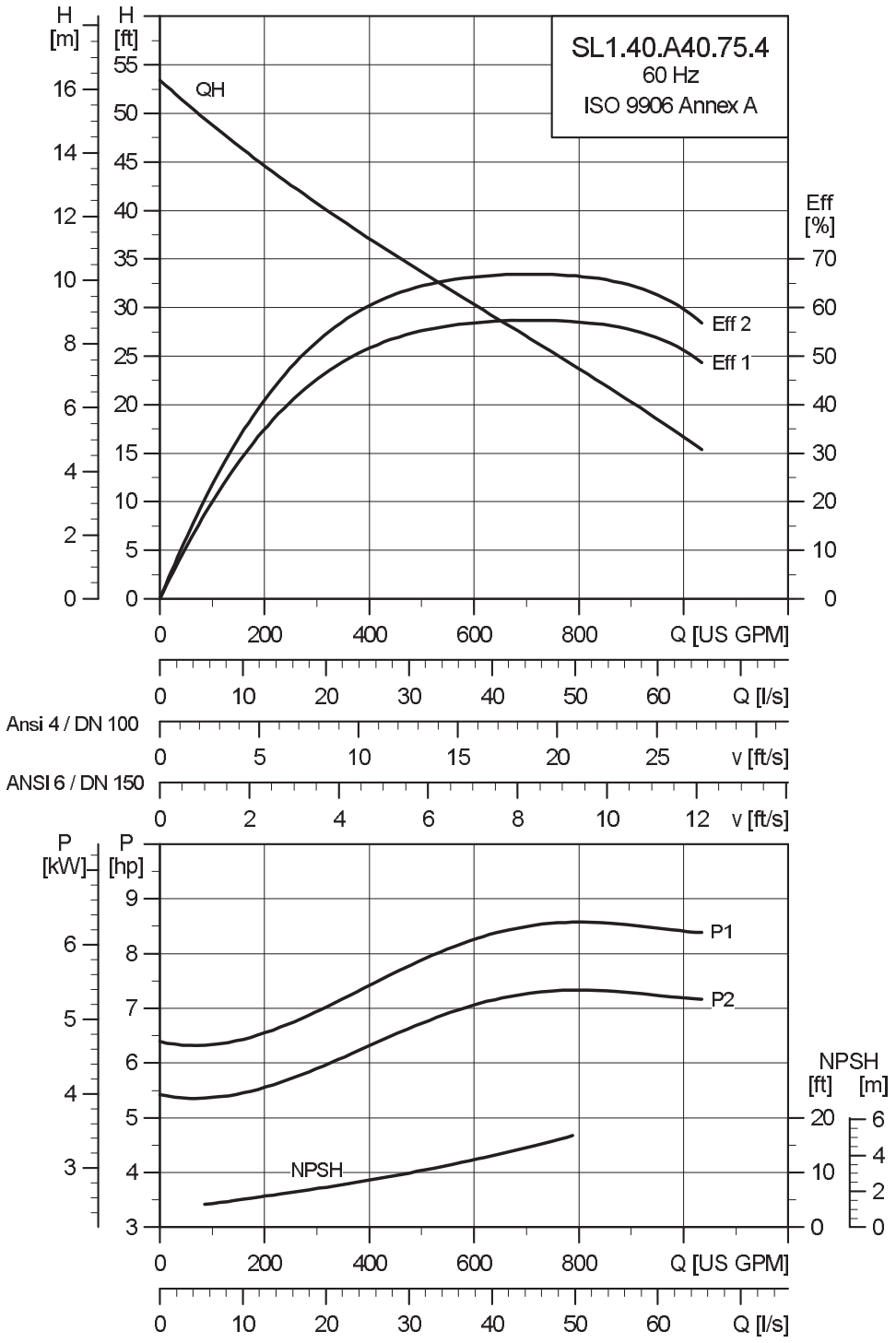
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.40.A40.55.4.61J	3x208-230V D / 460V Y	6.4 (4.8)	5.5 (4.0)	4	1760	SD	16.1	79.4	79.9	83.3	83.9	0.61	0.74	0.80	1.15	2.18 (0.09200)	81.87 (111)
SL1.40.A40.55.4.61L	3x575V D	6.4 (4.8)	5.5 (4.0)	4	1765	SD	6.5	37.5	79.2	83.3	84.7	0.54	0.67	0.75	1.15	2.18 (0.09200)	68.59 (93)
SL1.40.A40.55.4.61H	3x460V D	6.4 (4.8)	5.5 (4.0)	4	1770	SD	8.5	51.5	78.3	82.6	84.4	0.50	0.64	0.72	1.15	2.18 (0.09200)	74.49 (101)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

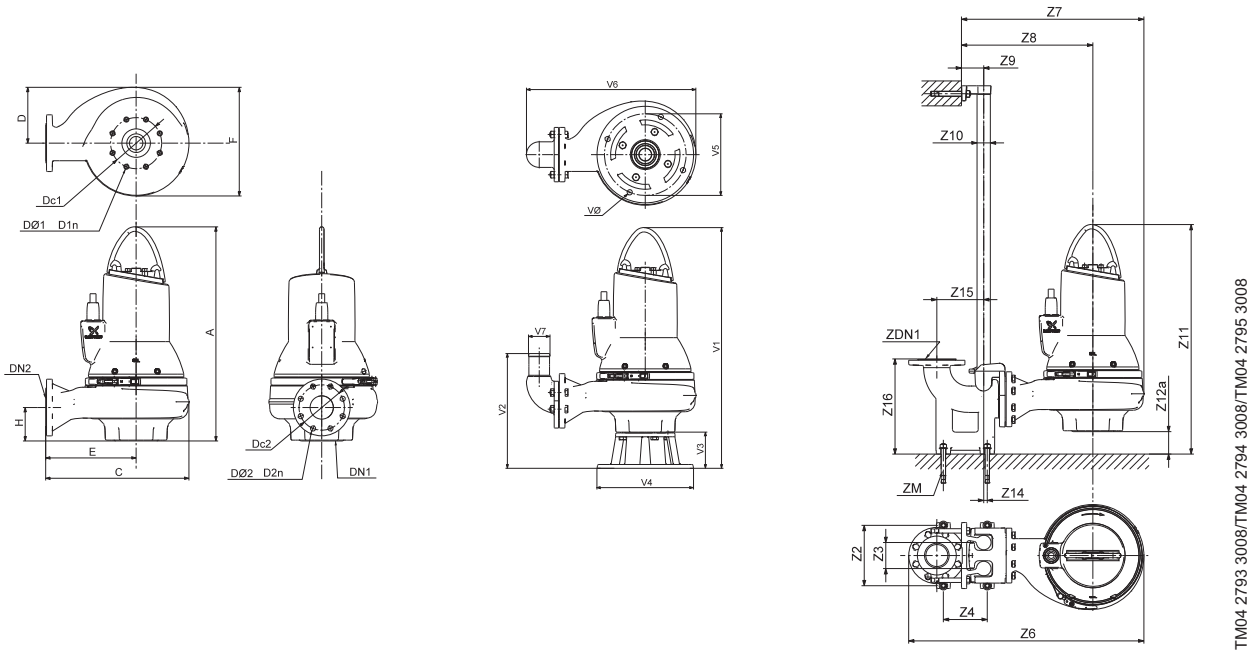
Performance curves SL1.40.A40.75



TM04 7852 2310

Performance curves
Technical data

Dimensional sketches SL1.40.A40.75



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	30	21.299	7.874	12.598	17.244	4.528	6	9.5	8xM20	4	7.5	8x0.75	364.4
[mm]	762	541	200	320	438	115	150	241.3	8xM20	100	190.50	8x19.1	165.3

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	38.70	29.84	21.14	4.33	2.0"	34.88	4.921	0	8.66	16.260	6	4XM16
[mm]	260	110	220	983	758	537	110	2.0"	886	125	0	220	413	150	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	37.323	17.520	7.323	17.717	15.748	27.992	3.937	0.866
[mm]	948	445	186	450	400	711	100	22

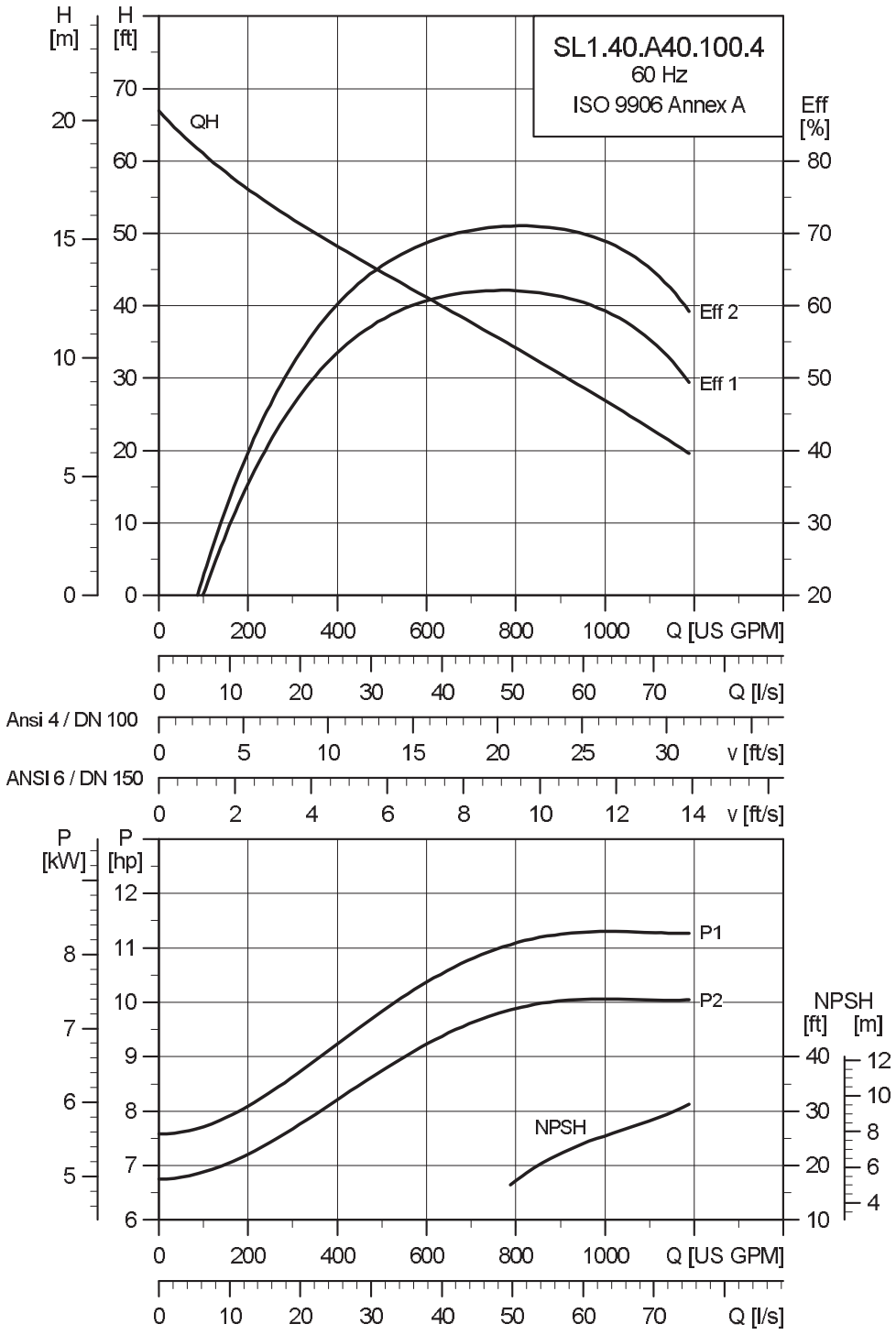
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.40.A40.75.4.61J	3x208-230V D / 460V Y	8.6 (6.4)	7.5 (5.5)	4	1760	SD	20.0	126	83.2	85.6	85.8	0.77	0.84	0.87	1.15	2.69 (0.11356)	90.72 (123)
SL1.40.A40.75.4.61L	3x575V D	8.6 (6.4)	7.5 (5.5)	4	1765	SD	7.8	59.3	83.5	86.6	87.3	0.69	0.79	0.84	1.15	2.69 (0.11356)	75.97 (103)
SL1.40.A40.75.4.61H	3x460V D	8.6 (6.4)	7.5 (5.5)	4	1770	SD	10.0	81.4	82.9	86.3	87.2	0.65	0.75	0.81	1.15	2.69 (0.11356)	83.34 (113)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

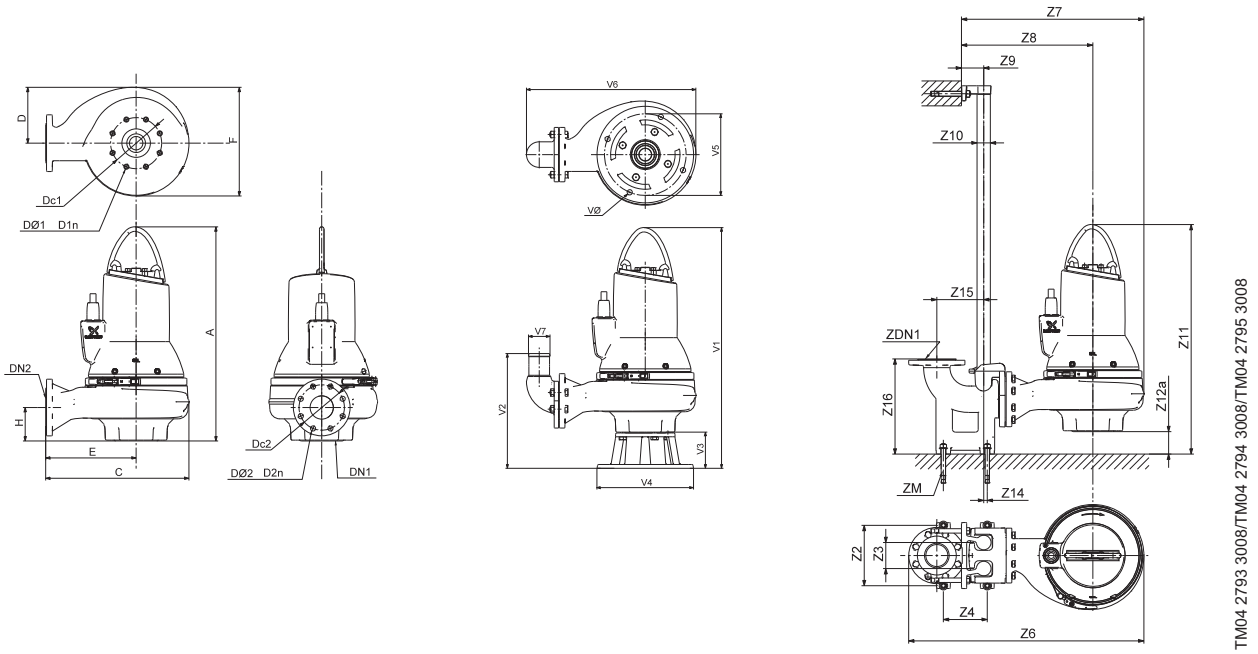
Performance curves SL1.40.A40.100



TM04 7853 2310

Performance curves
Technical data

Dimensional sketches SL1.40.A40.100



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	32.559	21.299	8.543	12.283	18.189	4.528	6	9.5	8xM20	4	7.5	8x0.75	449.7
[mm]	827	541	217	312	462	115	150	241.3	8xM20	100	190.50	8x19.1	204.0

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	38.70	29.84	20.83	4.33	2.0"	37.44	4.921	0	8.66	16.260	6	4XM16
[mm]	260	110	220	983	758	529	110	2.0"	951	125	0	220	413	150	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	39.882	17.520	7.323	17.717	15.748	27.795	3.937	0.866
[mm]	1.013	445	186	450	400	706	100	22

Electrical data

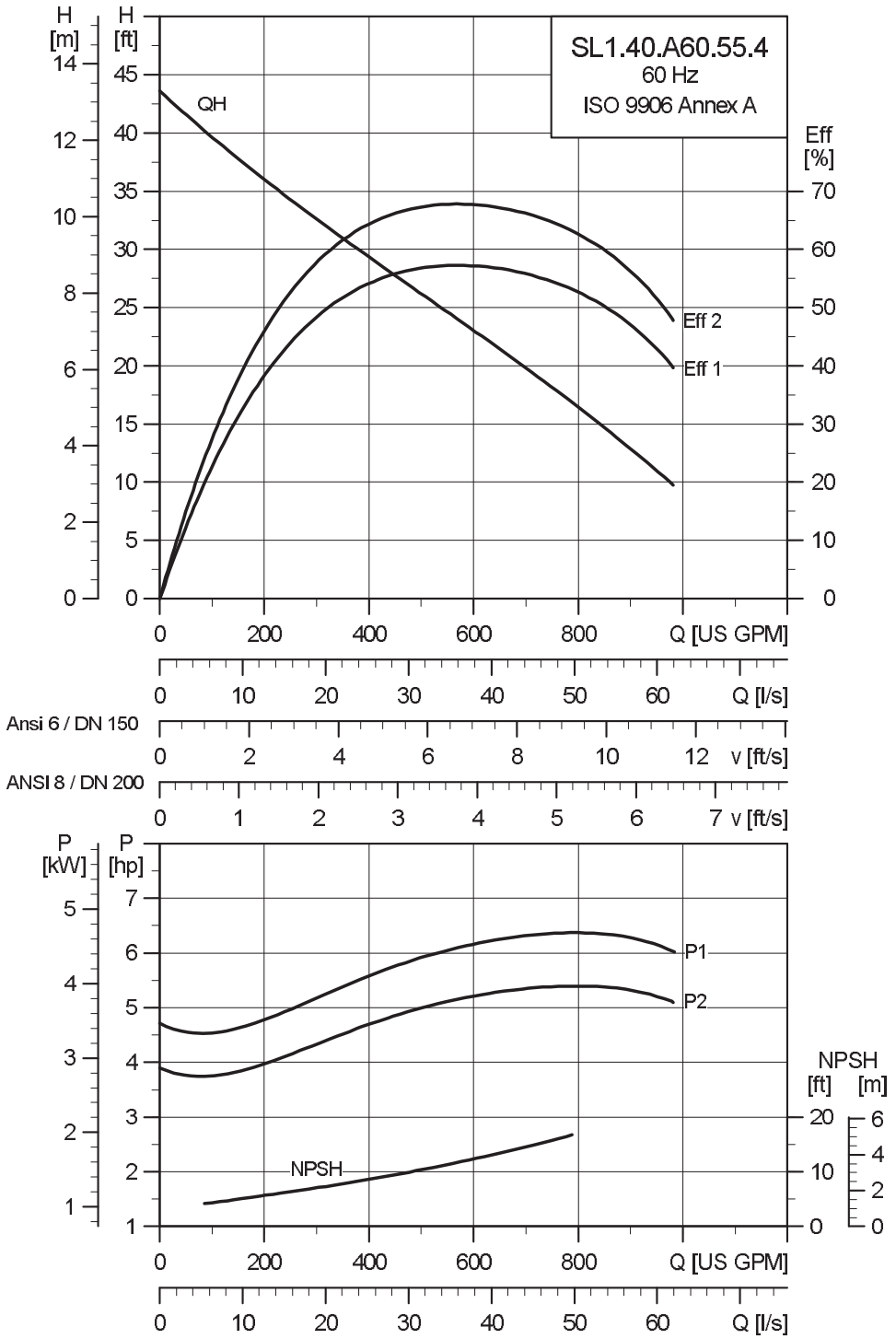
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.40.A40.100.4.61J	3x208-230V D / 460V Y	11.5 (8.6)	10.0 (7.5)	4	1760	SD	26.6	174	85.6	86.9	86.4	0.80	0.86	0.89	1.15	3.16 (0.13300)	75.23 (102)
SL1.40.A40.100.4.61L	3x575V D	11.5 (8.6)	10.0 (7.5)	4	1760	SD	10.2	81.2	85.3	87.4	87.9	0.74	0.83	0.86	1.15	3.16 (0.13300)	104.73 (142)
SL1.40.A40.100.4.61H	3x460V D	11.5 (8.6)	10.0 (7.5)	4	1765	SD	13.0	111	85.0	87.6	88.1	0.70	0.80	0.85	1.15	3.16 (0.13300)	114.32 (155)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

SL1.40.A60

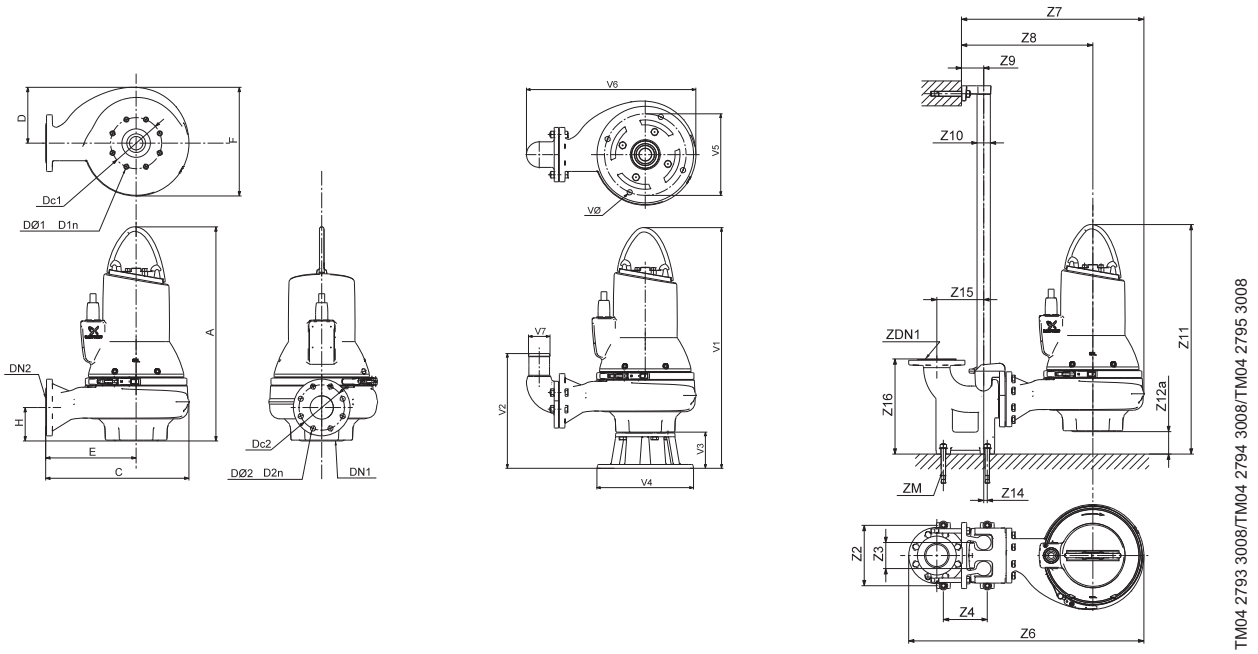
Performance curves SL1.40.A60.55



TM04 7854 2310

Performance curves
Technical data

Dimensional sketches SL1.40.A60.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.724	21.299	7.874	12.598	17.323	5.630	6	9.5	8xM20	6	9.5	8x0.88	353.8
[mm]	755	541	200	320	440	143	150	241.3	8xM20	150	241.50	8x22.2	160.5

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	11.81	4.33	11.03	43.03	30.71	22.01	4.33	2.0"	36.18	6.457	0	11.02	17.717	6	4XM16
[mm]	300	110	280	1.093	780	559	110	2.0"	919	164	0	280	450	150	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	37.047	21.850	7.323	17.717	15.748	31.772	5.906	0.866
[mm]	941	555	186	450	400	807	150	22

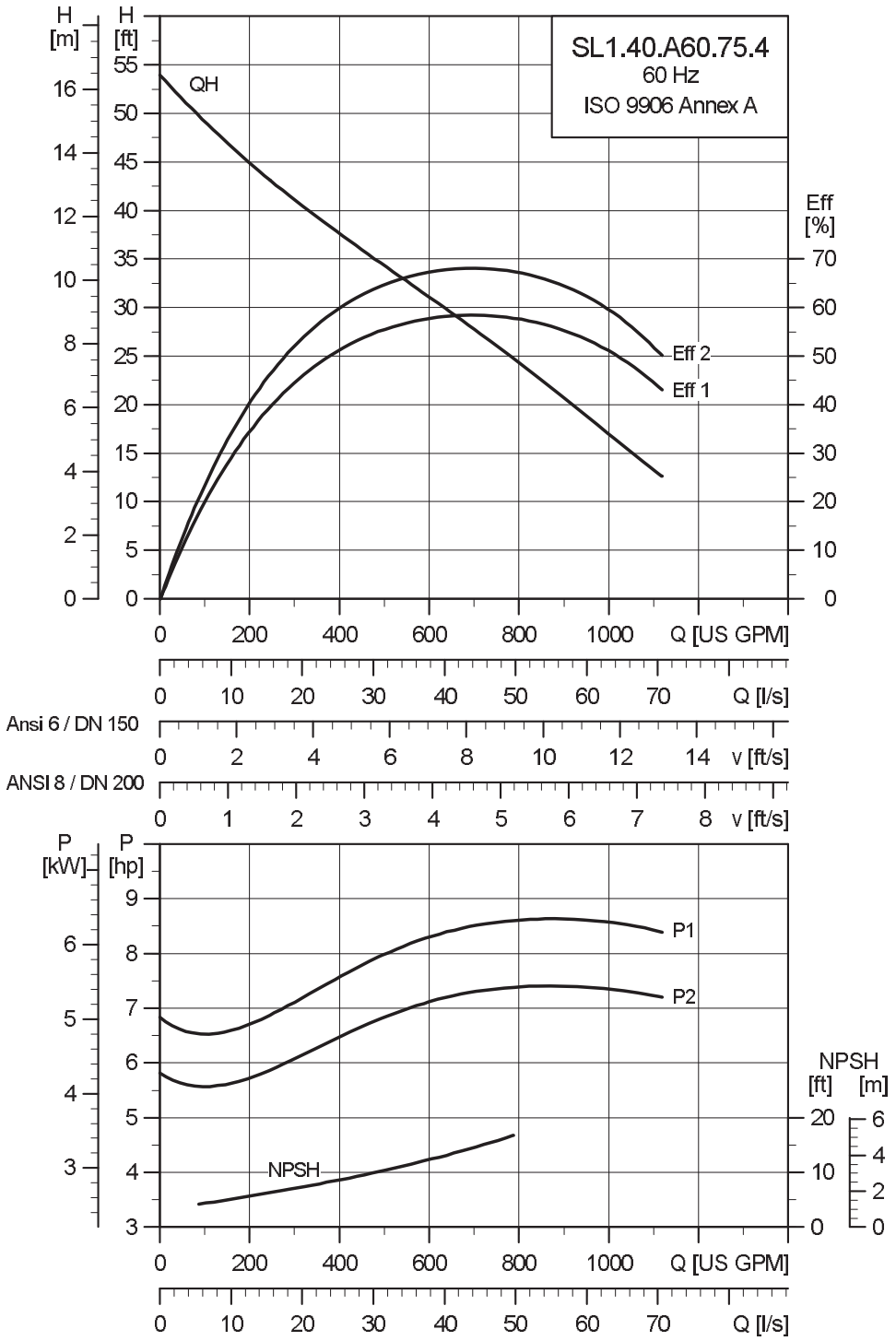
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.40.A60.55.4.61J	3x208-230V D / 460V Y	6.4 (4.8)	5.5 (4.0)	4	1760	SD	16.1	79.4	79.9	83.3	83.9	0.61	0.74	0.80	1.15	2.18 (0.09200)	81.87 (111)
SL1.40.A60.55.4.61L	3x575V D	6.4 (4.8)	5.5 (4.0)	4	1765	SD	6.5	37.5	79.2	83.3	84.7	0.54	0.67	0.75	1.15	2.18 (0.09200)	68.59 (93)
SL1.40.A60.55.4.61H	3x460V D	6.4 (4.8)	5.5 (4.0)	4	1770	SD	8.5	51.5	78.3	82.6	84.4	0.50	0.64	0.72	1.15	2.18 (0.09200)	74.49 (101)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

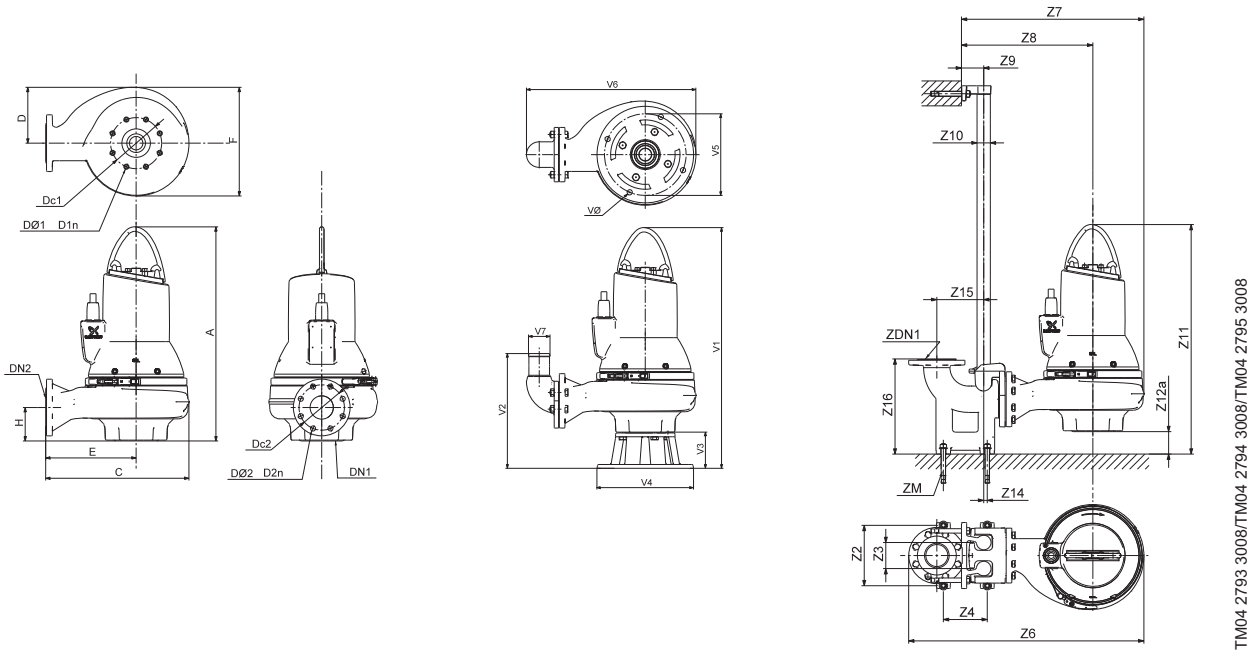
Performance curves SL1.40.A60.75



TM04 7855 2310

Performance curves
Technical data

Dimensional sketches SL1.40.A60.75



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	30	21.299	7.874	12.598	17.323	5.63	6	9.5	8xM20	6	9.5	8x0.88	369.1
[mm]	762	541	200	320	440	143	150	241.3	8xM20	150	241.5	8x22.2	167.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	11.81	4.33	11.03	43.03	30.71	22.01	4.33	2.0"	36.46	6.457	0	11.02	17.717	6	4XM16
[mm]	300	110	280	1.093	780	559	110	2.0"	926	164	0	280	450	150	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	37.323	21.850	7.323	17.717	15.748	31.772	5.906	0.866
[mm]	948	555	186	450	400	807	150	22

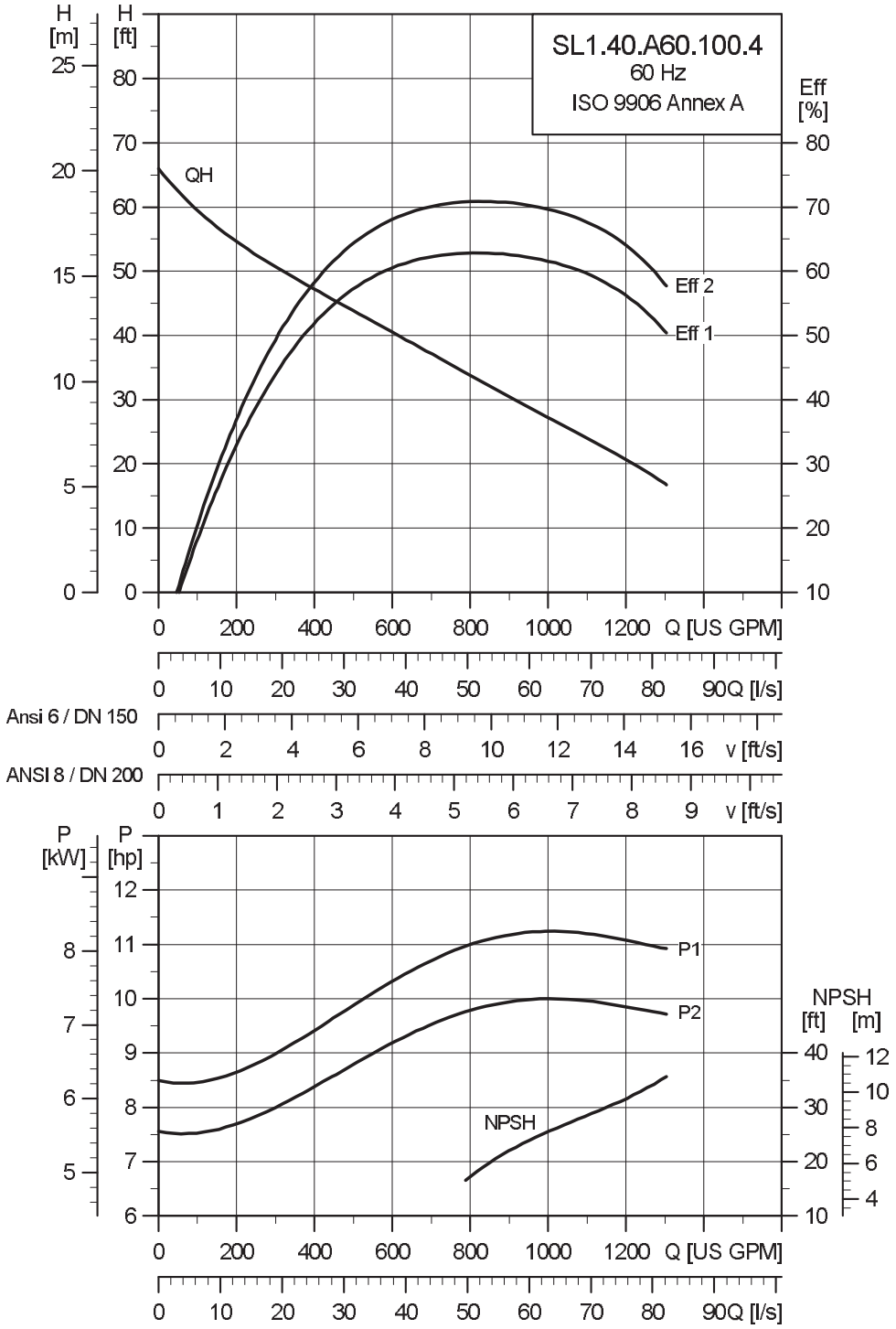
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.40.A60.75.4.61J	3x208-230V D / 460V Y	8.6 (6.4)	7.5 (5.5)	4	1760	SD	20.0	126	83.2	85.6	85.8	0.77	0.84	0.87	1.15	2.69 (0.11356)	90.72 (123)
SL1.40.A60.75.4.61L	3x575V D	8.6 (6.4)	7.5 (5.5)	4	1765	SD	7.8	59.3	83.5	86.6	87.3	0.69	0.79	0.84	1.15	2.69 (0.11356)	75.97 (103)
SL1.40.A60.75.4.61H	3x460V D	8.6 (6.4)	7.5 (5.5)	4	1770	SD	10.0	81.4	82.9	86.3	87.2	0.65	0.75	0.81	1.15	2.69 (0.11356)	83.34 (113)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

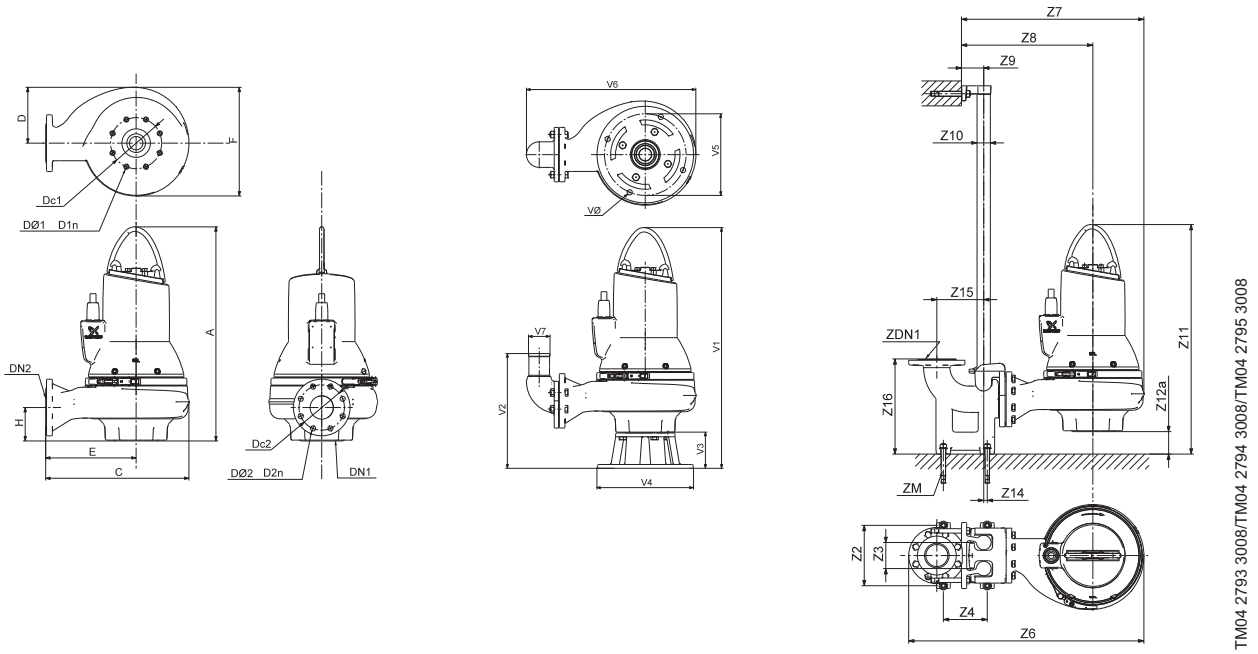
Performance curves SL1.40.A60.100



TM04 7856 2310

Performance curves
Technical data

Dimensional sketches SL1.40.A60.100



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	32.559	21.299	8.543	12.047	18.583	5.630	6	9.5	8xM20	6	9.5	8x0.88	454.4
[mm]	827	541	217	306	472	143	150	241.3	8xM20	150	241.50	8x22.2	206.1

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	11.81	4.33	11.03	43.03	30.71	21.46	4.33	2.0"	39.02	6.457	0	11.02	17.717	6	4XM16
[mm]	300	110	280	1.093	780	545	110	2.0"	991	164	0	280	450	150	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	39.882	21.85	7.323	17.717	15.748	31.614	5.906	0.866
[mm]	1.013	555	186	450	400	803	150	22

Electrical data

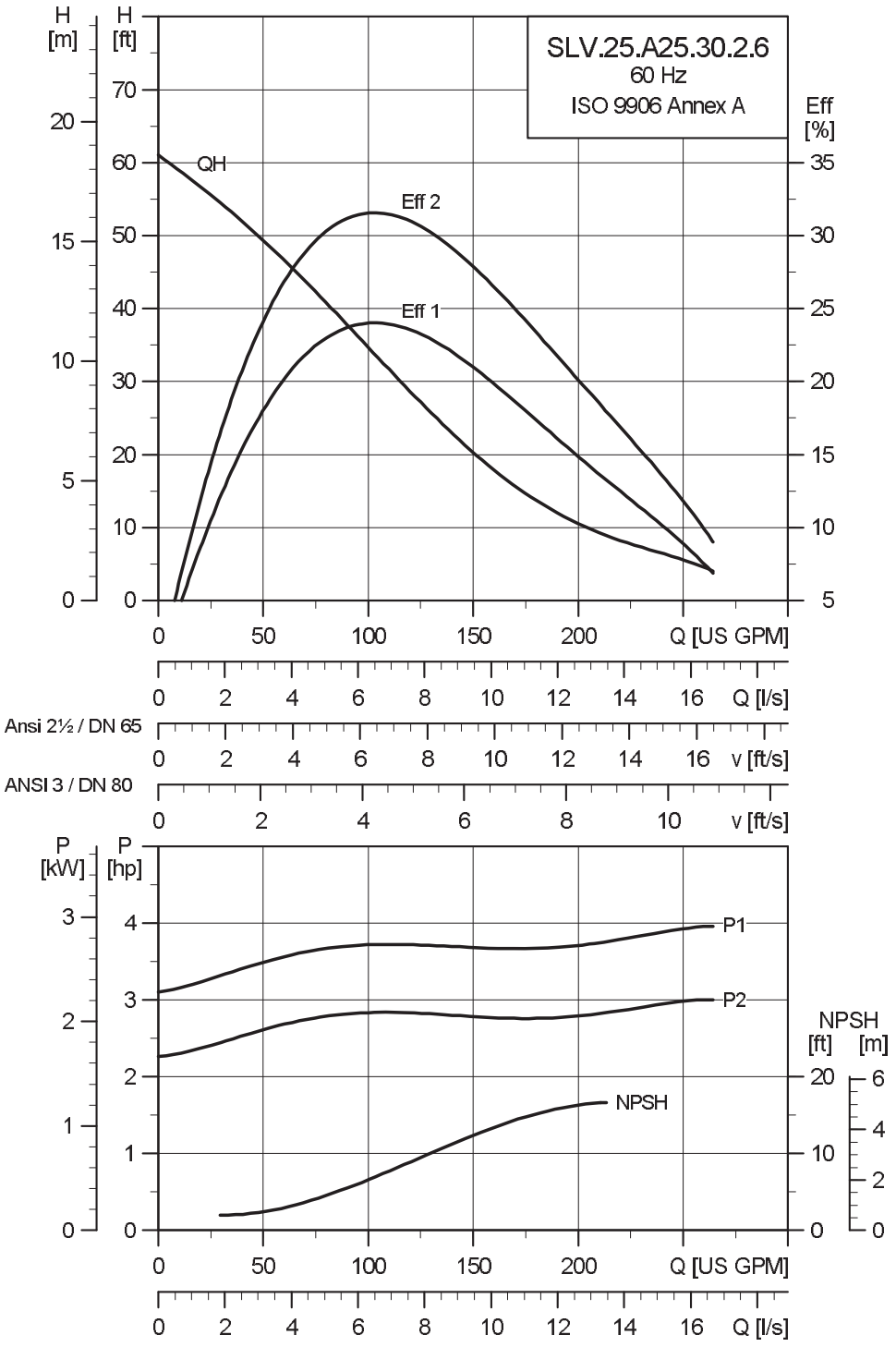
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos φ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SL1.40.A60.100.4.61J	3x208-230V D / 460V Y	11.5 (8.6)	10.0 (7.5)	4	1760	SD	26.6	174	85.6	86.9	86.4	0.80	0.86	0.89	1.15	3.16 (0.13300)	75.23 (102)
SL1.40.A60.100.4.61L	3x575V D	11.5 (8.6)	10.0 (7.5)	4	1760	SD	10.2	81.2	85.3	87.4	87.9	0.74	0.83	0.86	1.15	3.16 (0.13300)	104.73 (142)
SL1.40.A60.100.4.61H	3x460V D	11.5 (8.6)	10.0 (7.5)	4	1765	SD	13.0	111	85.0	87.6	88.1	0.70	0.80	0.85	1.15	3.16 (0.13300)	114.32 (155)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Channel	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

SLV.25.A25

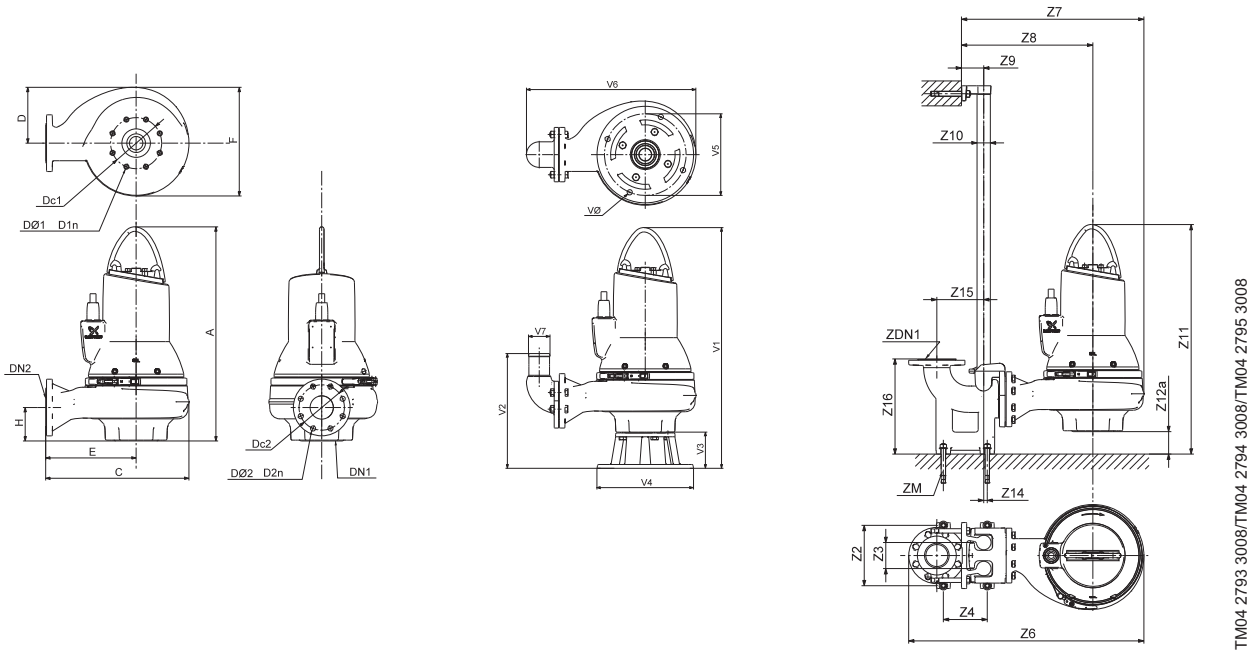
Performance curves SLV.25.A25.30



TM04 7249 1810

Performance curves
Technical data

Dimensional sketches SLV.25.A25.30



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.93	15.59	6.73	9.69	12.64	4.02	3	6	8xM16	2.5	5.5	4x0.75	190.5
[mm]	684	396	171	246	321	102	80	152.4	8xM16	65	139.7	4x19.1	86.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.27	3.74	5.51	28.74	21.38	15.51	3.19	1.5"	29.41	2.48	0.04	6.89	10.47	3	4XM16
[mm]	210	95	140	730	543	394	81	1.5"	747	63	1	175	266	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.97	14.65	5.04	12.99	11.02	20.63	2.560	0.71
[mm]	812	372	128	330	280	524	65	18

Electrical data

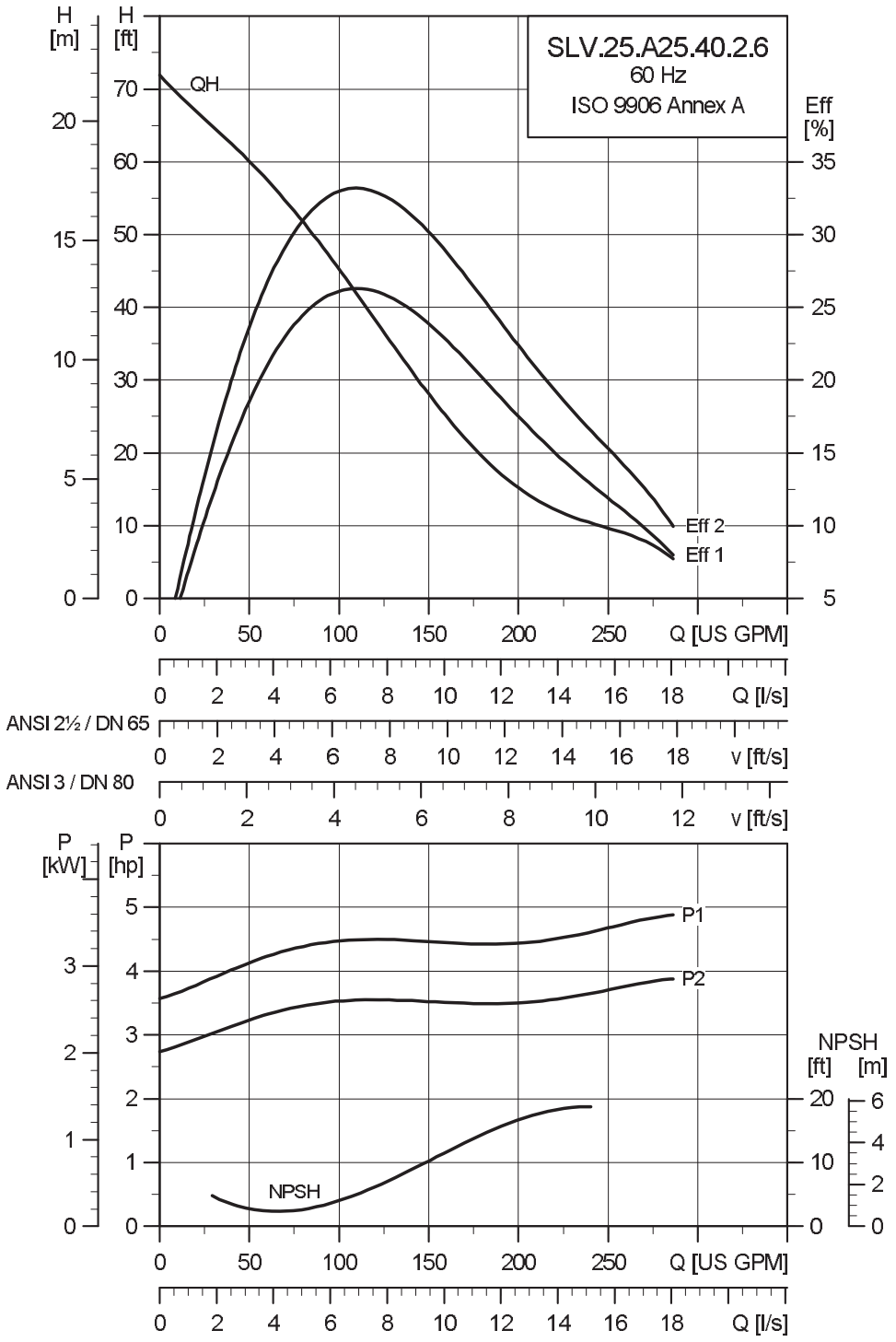
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.25.A25.30.2.61J	3x208-230V D / 460V Y	3.9 (2.9)	3.0 (2.2)	2	3480	SD	8.8	68.7	67.7	72.8	74.3	0.85	0.89	0.91	1.15	0.13 (0.00540)	14.01 (19)
SLV.25.A25.30.2.61H	3x460V D	3.9 (2.9)	3.0 (2.2)	2	3520	SD	4.3	44.0	66.7	73.3	76.1	0.77	0.85	0.88	1.15	0.13 (0.00540)	18.44 (25)
SLV.25.A25.30.2.61L	3x575V D	3.9 (2.9)	3.0 (2.2)	2	3510	SD	3.2	32.1	67.7	73.0	75.8	0.81	0.87	0.89	1.15	0.13 (0.00540)	16.96 (23)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	2.5 / 65	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

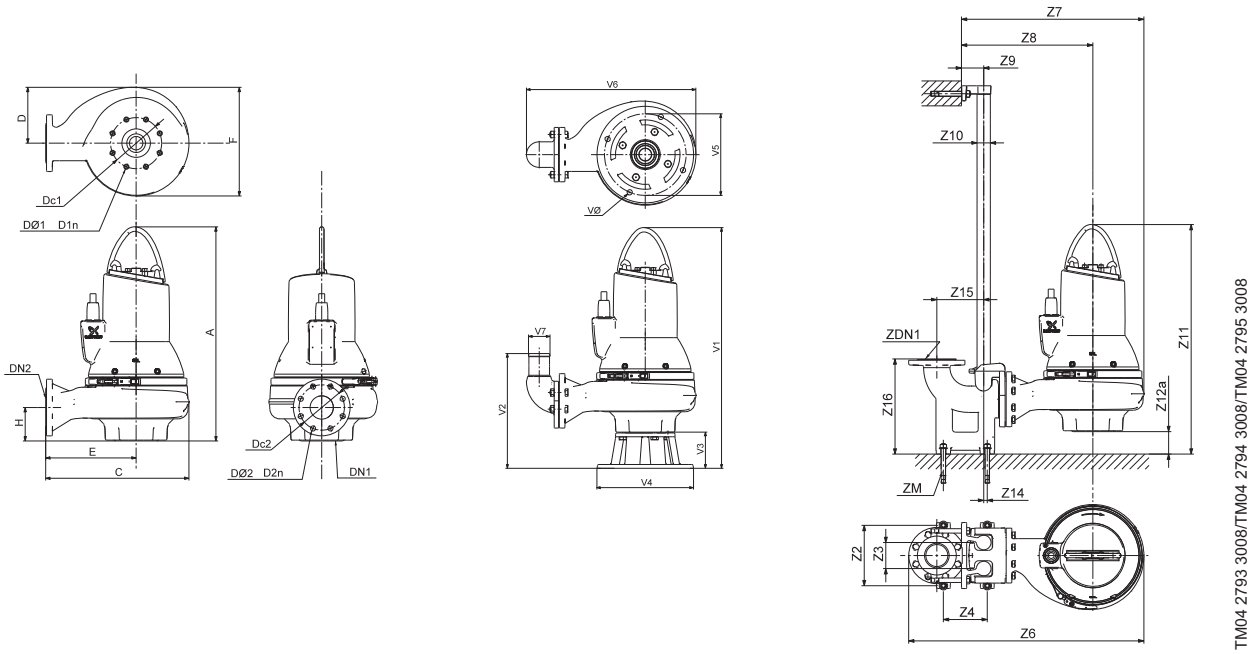
Performance curves SLV.25.A25.40



TM04 7250 1810

Performance curves
Technical data

Dimensional sketches SLV.25.A25.40



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.93	15.59	6.73	9.69	12.640	4.02	3	6	8xM16	2.5	5.5	4x0.75	197.3
[mm]	684	396	171	246	321	102	80	152.4	8xM16	65	139.70	4x19.1	89.5

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.27	3.74	5.51	28.74	21.38	15.51	3.19	1.5"	29.41	2.48	0.04	6.89	10.47	3	4XM16
[mm]	210	95	140	730	543	394	81	1.5"	747	63	1	175	266	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.970	14.650	5.040	12.990	11.020	20.63	2.560	0.710
[mm]	812	372	128	330	280	524	65	18

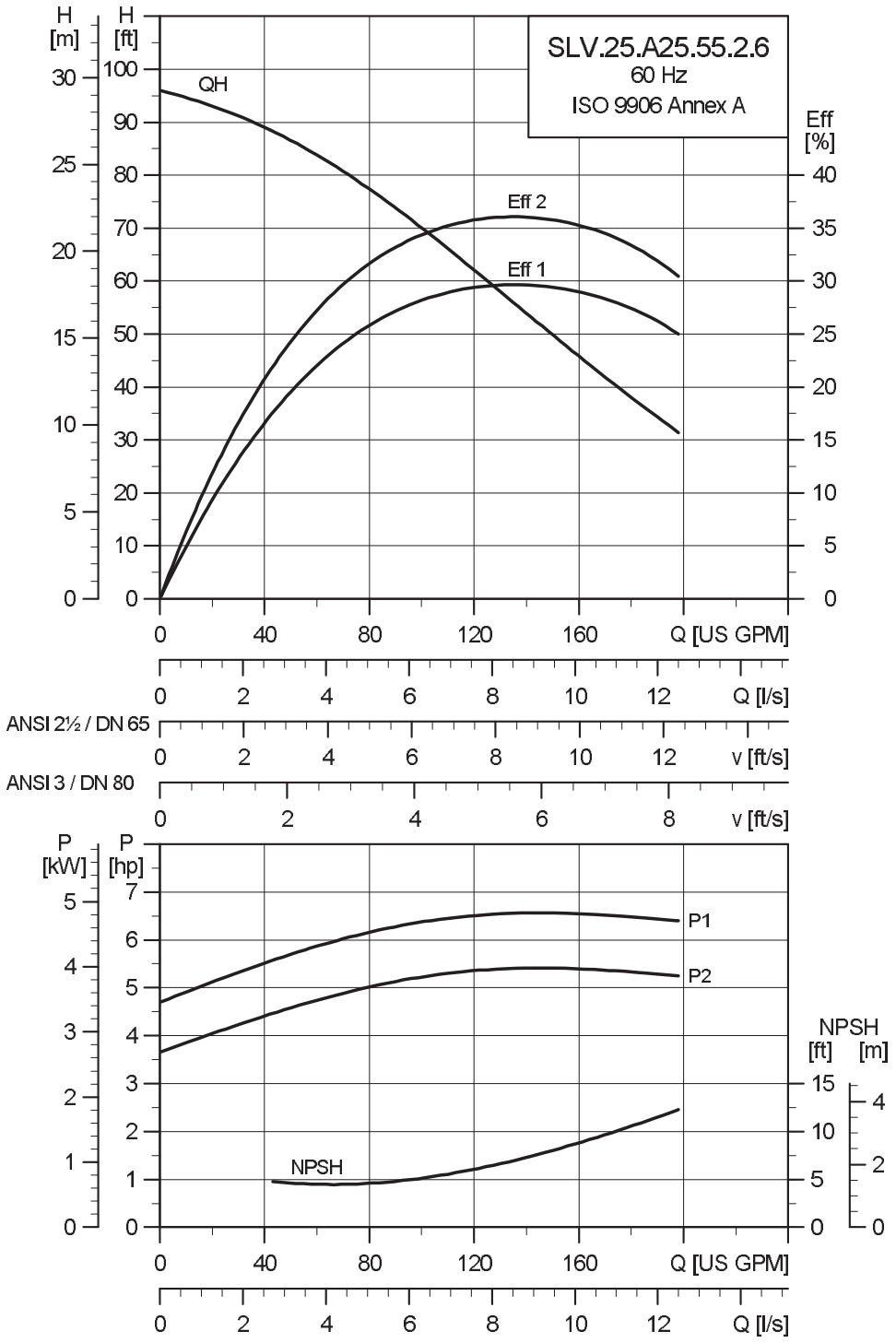
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.25.A25.40.2.61J	3x208-230V D / 460V Y	5.1 (3.8)	4.0 (3.0)	2	3510	SD	11.6	99.5	72.9	77.2	78.4	0.79	0.86	0.89	1.15	0.16 (0.00670)	22.86 (31)
SLV.25.A25.40.2.61L	3x575V D	5.1 (3.8)	4.0 (3.0)	2	3510	SD	4.5	47.9	72.9	77.8	79.6	0.74	0.82	0.87	1.15	0.16 (0.00670)	28.03 (38)
SLV.25.A25.40.2.61H	3x460V D	5.1 (3.8)	4.0 (3.0)	2	3510	SD	5.9	63.5	72.5	77.4	79.7	0.66	0.77	0.83	1.15	0.16 (0.00670)	29.5 (40)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	2.5 / 65	10	20	65 / 20	IP68	H	A	104 / 40	4-10

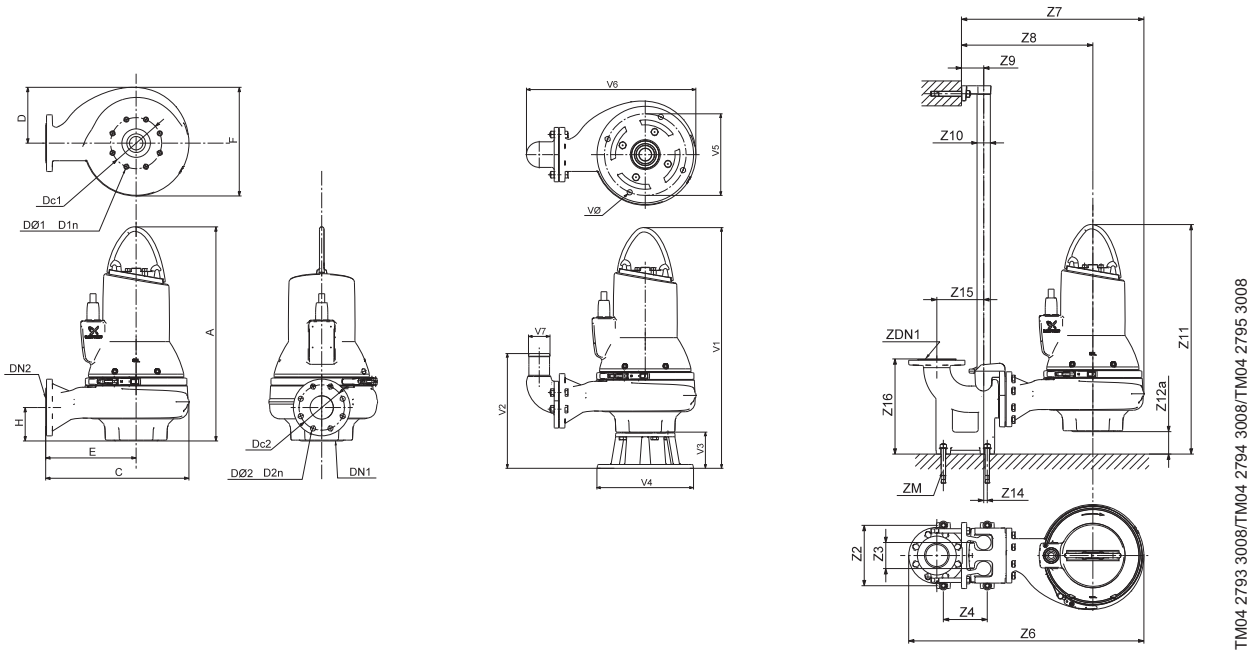
Performance curves SLV.25.A25.55



TM04 7251 1810

Performance curves
Technical data

Dimensional sketches SLV.25.A25.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	28.27	17.95	7.87	10.87	14.96	4.17	3	6	8xM16	2.5	5.5	4x0.75	257.3
[mm]	718	456	200	276	380	106	80	152.4	8xM16	65	139.70	4x19.1	116.7

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.27	3.74	5.51	29.92	23.78	16.69	3.19	1.5"	30.63	2.36	0.04	6.89	10.47	3	4XM16
[mm]	210	95	140	760	604	424	81	1.5"	778	60	1	175	266	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.31	14.8	5.04	12.99	11.02	22.36	2.56	0.71
[mm]	846	376	128	330	280	568	65	18

Electrical data

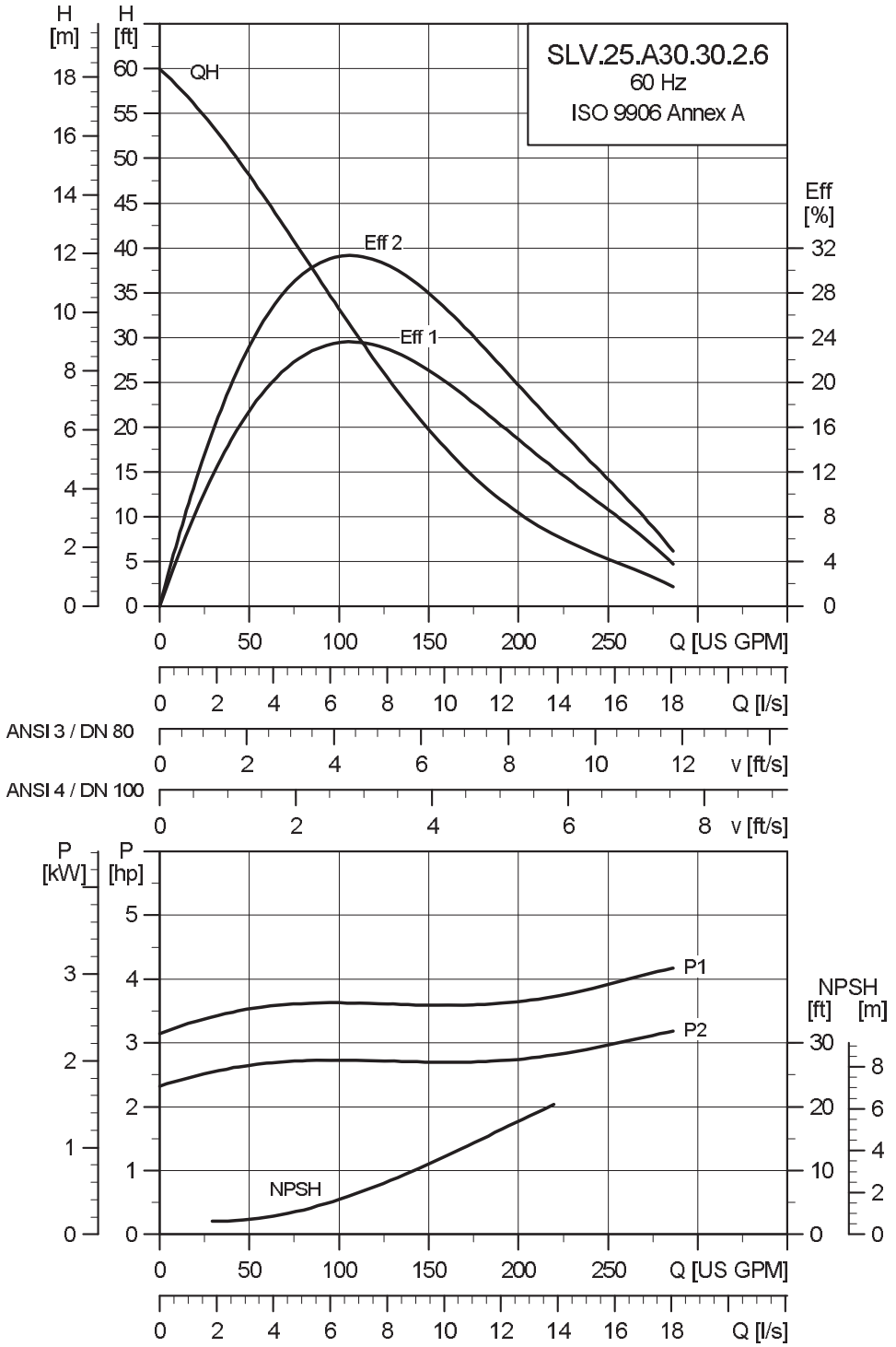
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.25.A25.55.2.61J	3x208-230V D / 460V Y	6.6 (4.9)	5.5 (4.0)	2	3530	SD	14.8	152	75.0	79.9	81.7	0.78	0.86	0.90	1.15	0.38 (0.01590)	53.84 (73)
SLV.25.A25.55.2.61L	3x575V D	6.6 (4.9)	5.5 (4.0)	2	3535	SD	5.8	70.8	74.1	79.6	82.0	0.71	0.82	0.87	1.15	0.38 (0.01590)	44.99 (61)
SLV.25.A25.55.2.61H	3x460V D	6.6 (4.9)	5.5 (4.0)	2	3540	SD	7.4	96.8	73.6	79.2	82.0	0.68	0.80	0.85	1.15	0.38 (0.01590)	37.62 (51)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	2.5 / 65	10	20	65 / 20	IP68	H	A	104 / 40	4-10

SLV.25.A30

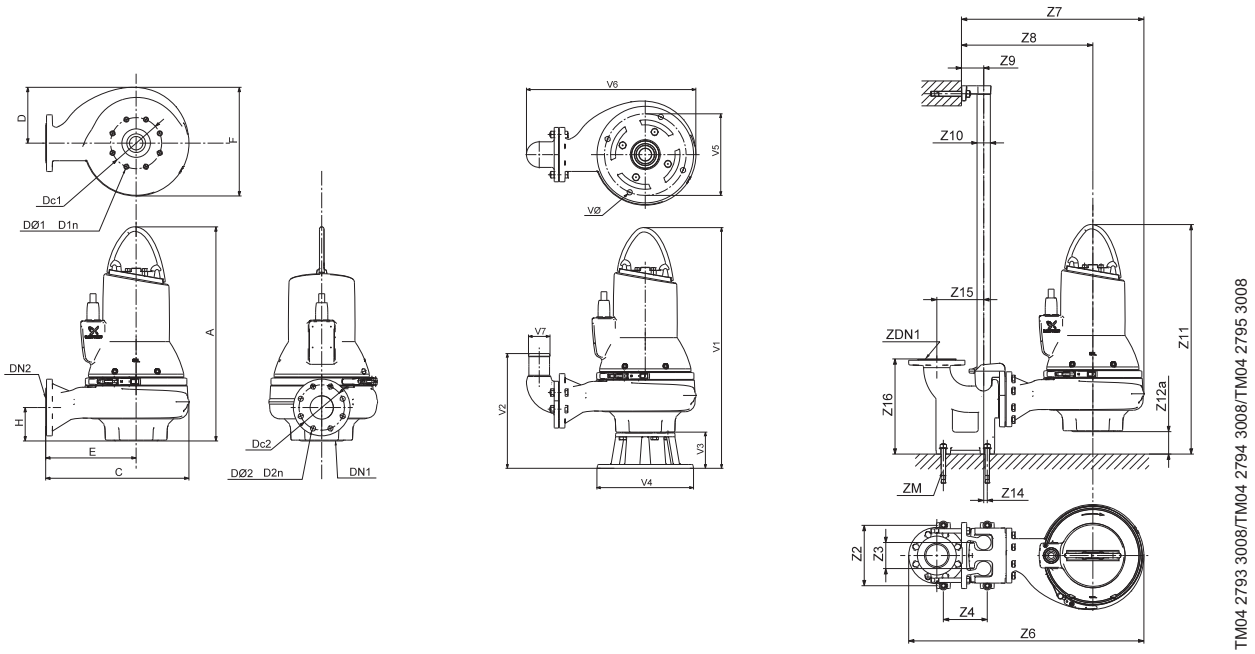
Performance curves SLV.25.A30.30



TM04 7252 1810

Performance curves
Technical data

Dimensional sketches SLV.25.A30.30



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.97	15.63	6.73	9.72	12.64	4.06	3	6	8xM16	3	6	8x0.75	192.9
[mm]	685	397	171	247	321	103	80	152.4	8xM16	80	152.4	8x19.1	87.5

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	29.53	21.93	16.06	3.19	1.5"	30.79	3.82	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	750	557	408	81	1.5"	782	97	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	32.01	14.69	5.04	12.99	11.02	20.87	3.15	0.710
[mm]	813	373	128	330	280	530	80	18

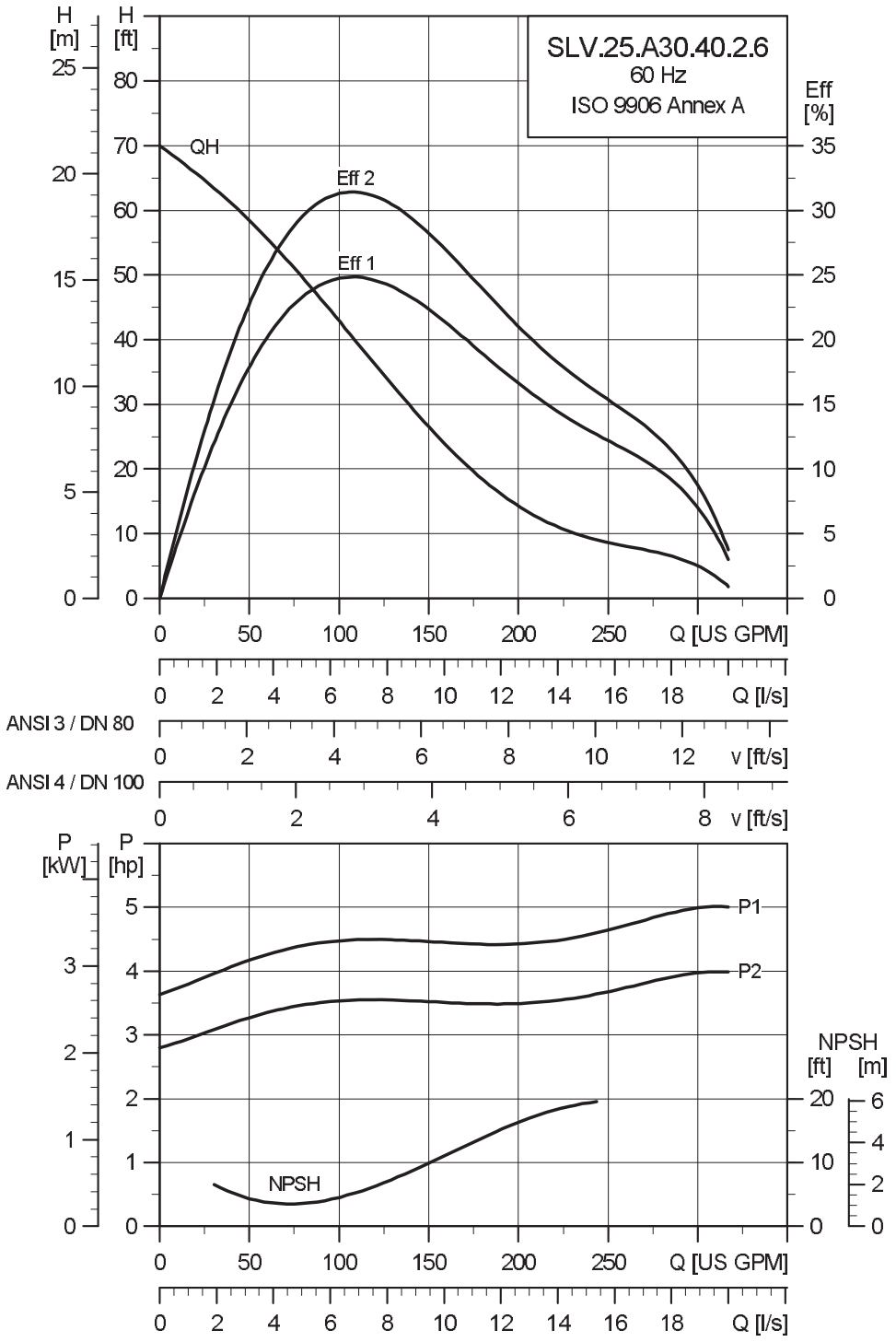
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.25.A30.30.2.61J	3x208-230V D / 460V Y	3.9 (2.9)	3.0 (2.2)	2	3480	SD	8.8	68.7	67.7	72.8	74.3	0.85	0.89	0.91	1.15	0.13 (0.0054	14.01 (19)
SLV.25.A30.30.2.61H	3x460V D	3.9 (2.9)	3.0 (2.2)	2	3520	SD	4.3	44.0	66.7	73.3	76.1	0.77	0.85	0.88	1.15	0.13 (0.0054)	18.44 (25)
SLV.25.A30.30.2.61L	3x575V D	3.9 (2.9)	3.0 (2.2)	2	3510	SD	3.2	32.1	67.7	73.0	75.8	0.81	0.87	0.89	1.15	0.13 (0.0054)	16.96 (23)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	2.5 / 65	10	20	65 / 20	IP68	H	A	104 / 40	4-10

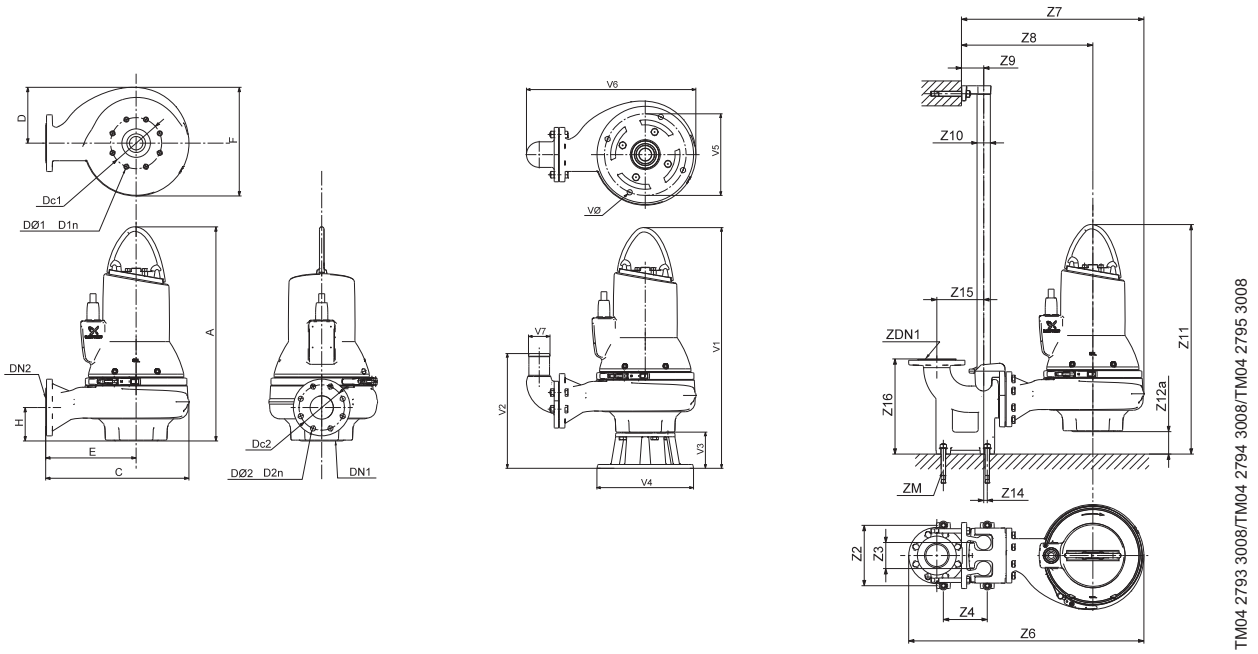
Performance curves SLV.25.A30.40



TM04 7253 1810

Performance curves
Technical data

Dimensional sketches SLV.25.A30.40



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	26.97	15.63	6.73	9.72	12.640	4.06	3	6	8xM16	3	6	8x0.75	199.7
[mm]	685	397	171	247	321	103	80	152.4	8xM16	80	152.4	8x19.1	90.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	29.53	21.93	16.06	3.19	1.5"	30.79	3.82	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	750	557	408	81	1.5"	782	97	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	32.01	14.69	5.04	12.99	11.02	20.87	3.15	0.71
[mm]	813	373	128	330	280	530	80	18

Electrical data

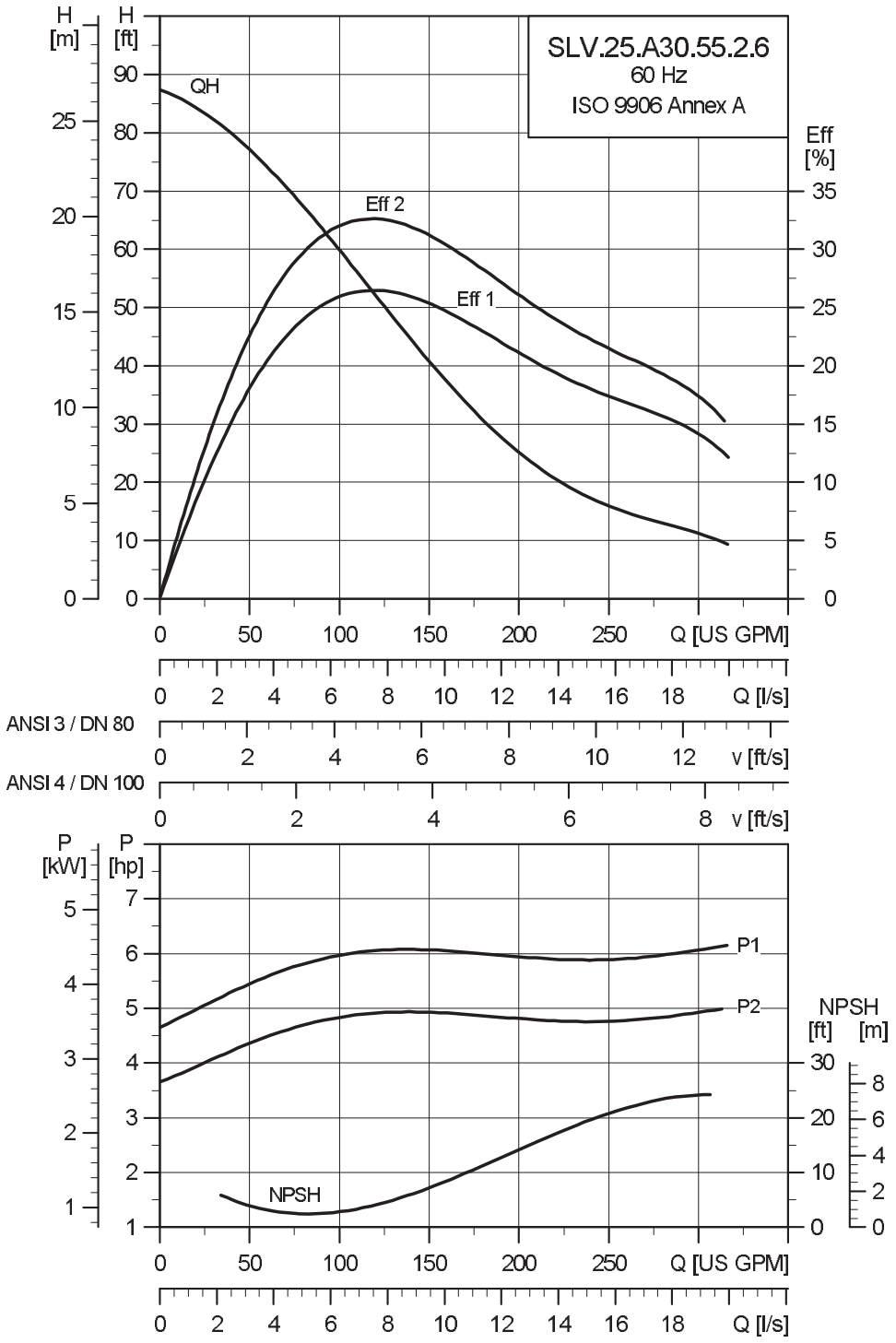
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.25.A30.40.2.61J	3x208-230V D / 460V Y	5.1 (3.8)	4.0 (3.0)	2	3510	SD	11.6	99.5	72.9	77.2	78.4	0.79	0.86	0.89	1.15	0.16 (0.0067)	22.86 (31)
SLV.25.A30.40.2.61L	3x575V D	5.1 (3.8)	4.0 (3.0)	2	3510	SD	4.5	47.9	72.9	77.8	79.6	0.74	0.82	0.87	1.15	0.16 (0.0067)	28.03 (38)
SLV.25.A30.40.2.61H	3x460V D	5.1 (3.8)	4.0 (3.0)	2	3510	SD	5.9	63.5	72.5	77.4	79.7	0.66	0.77	0.83	1.15	0.16 (0.0067)	29.5 (40)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	2.5 / 65	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

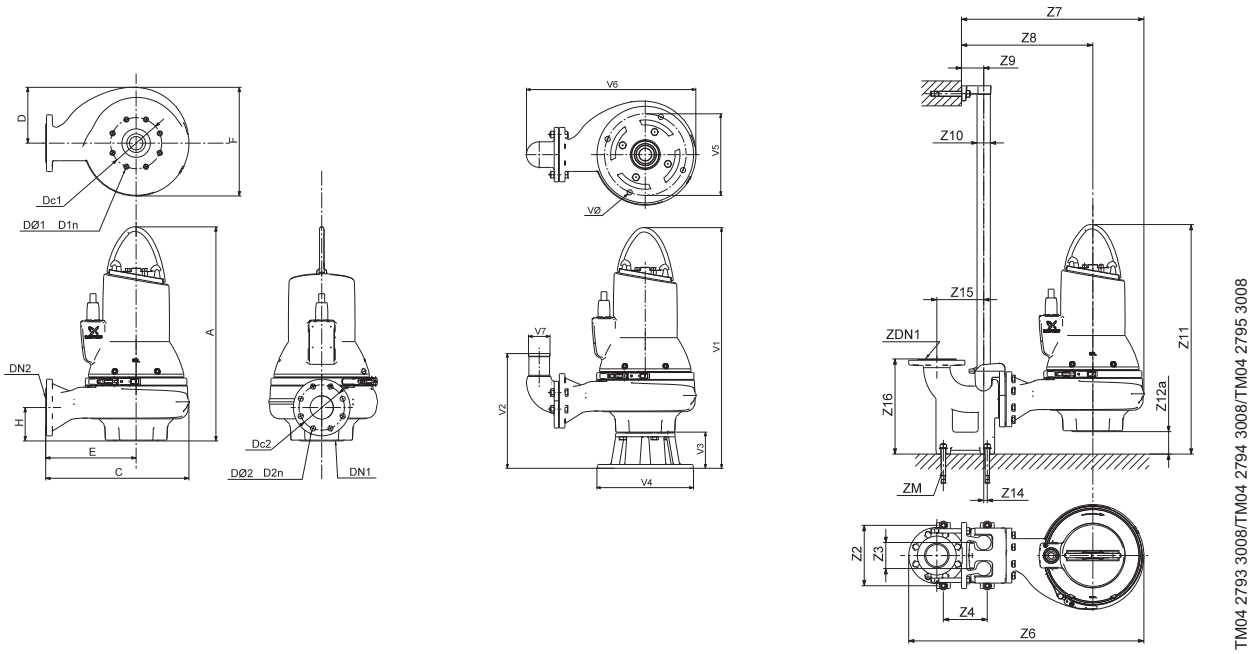
Performance curves SLV.25.A30.55



TM04 7254 1810

Performance curves
Technical data

Dimensional sketches SLV.25.A30.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	28.27	17.91	7.87	10.87	14.92	4.17	3	6	8xM16	3	6	8x0.75	258.4
[mm]	718	455	200	276	379	106	80	152.4	8xM16	80	152.4	8x19.1	117.2

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	31.81	24.25	17.2	3.19	1.5"	31.97	3.7	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	808	616	437	81	1.5"	812	94	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.31	14.8	5.04	12.99	11.02	22.56	3.15	0.71
[mm]	846	376	128	330	280	573	80	18

Electrical data

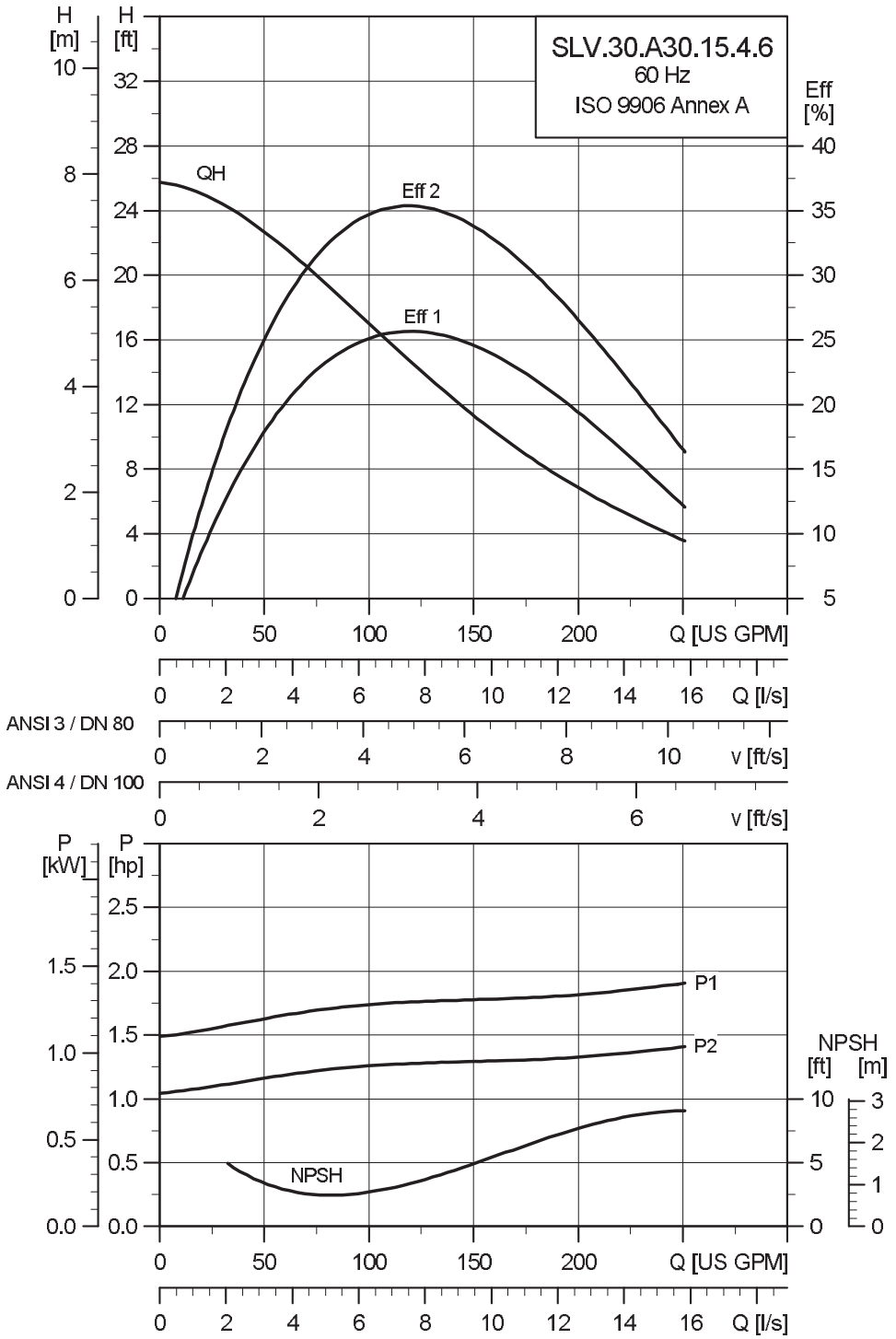
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.25.A30.55.2.61J	3x208-230V D / 460V Y	6.6 (4.9)	5.5 (4.0)	2	3530	SD	14.8	152	75.0	79.9	81.7	0.78	0.86	0.90	1.15	0.35 (0.0149)	53.84 (73)
SLV.25.A30.55.2.61L	3x575V D	6.6 (4.9)	5.5 (4.0)	2	3535	SD	5.8	70.8	74.1	79.6	82.0	0.71	0.82	0.87	1.15	0.35 (0.0149)	44.99 (61)
SLV.25.A30.55.2.61H	3x460V D	6.6 (4.9)	5.5 (4.0)	2	3540	SD	7.4	96.8	73.6	79.2	82.0	0.68	0.80	0.85	1.15	0.35 (0.0149)	37.62 (51)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	2.5 / 65	10	20	65 / 20	IP68	H	A	104 / 40	4-10

SLV.30.A30

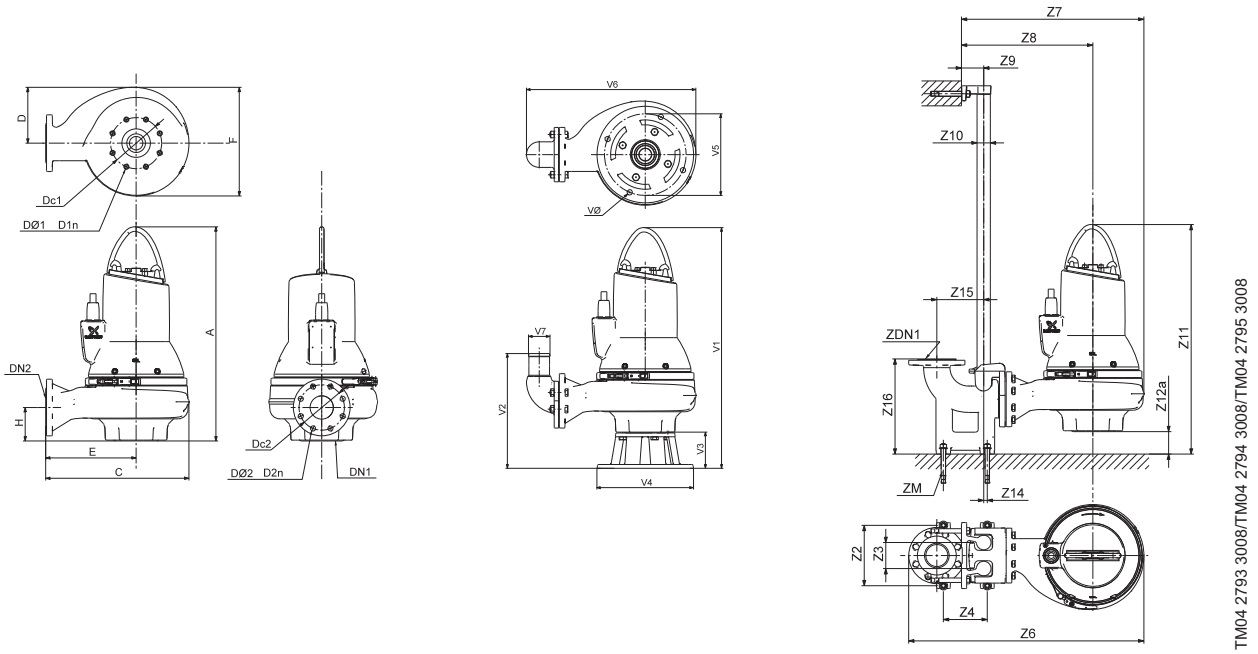
Performance curves SLV.30.A30.15



TM04 7255 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.15



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.99	16.1	6.73	9.49	13.35	4.29	3	6	8xM16	3	6	8x0.75	205.5
[mm]	711	409	171	241	339	109	80	152.4	8xM16	80	152.4	8x19.1	93.2

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	30	22.40	15.83	3.19	1.5"	31.57	3.58	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	762	569	402	81	1.5"	802	91	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.03	14.92	5.04	12.99	11.02	20.75	3.15	0.71
[mm]	839	379	128	330	280	527	80	18

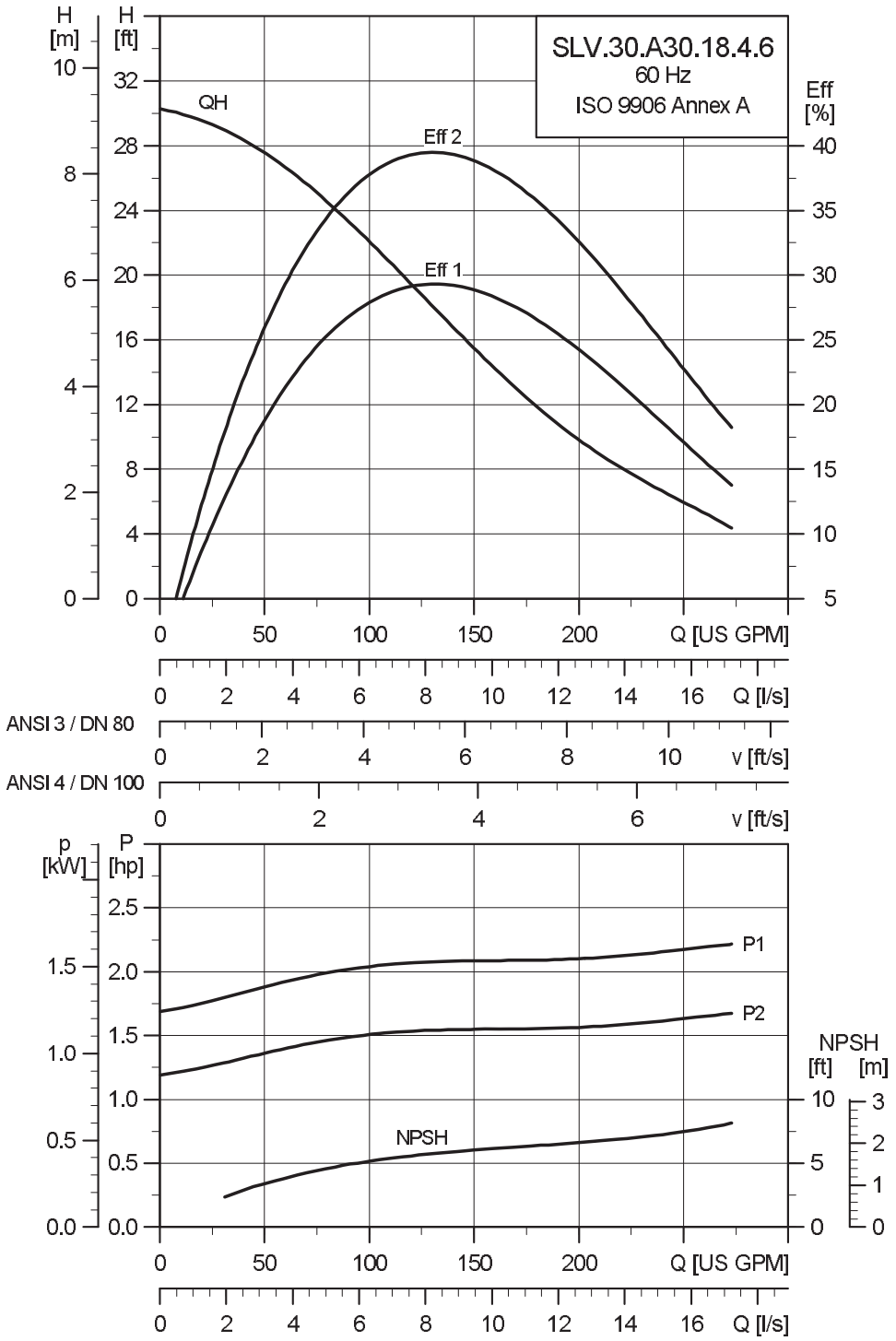
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.15.4.61J	3x208-230V D / 460V Y	2.0 (1.5)	1.5 (1.1)	4	1750	SD	5.1	31.9	66.2	71.5	73.9	0.65	0.74	0.8	1.15	0.33 (0.014	14.01 (19)
SLV.30.A30.15.4.60J	3x208-230V D / 460V Y	2.0 (1.5)	1.5 (1.1)	4	1750	DOL	5.1	31.9	66.2	71.5	73.9	0.65	0.74	0.8	1.15	0.33 (0.014)	14.01 (19)
SLV.30.A30.15.4.60L	3x575V D	2.0 (1.5)	1.5 (1.1)	4	1755	DOL	2.0	14.9	65.0	71.4	74.5	0.59	0.69	0.75	1.15	0.33 (0.014)	16.96 (23)
SLV.30.A30.15.4.61L	3x575V D	2.0 (1.5)	1.5 (1.1)	4	1755	SD	2.0	14.9	65.0	71.4	74.5	0.59	0.69	0.75	1.15	0.33 (0.014)	16.96 (23)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

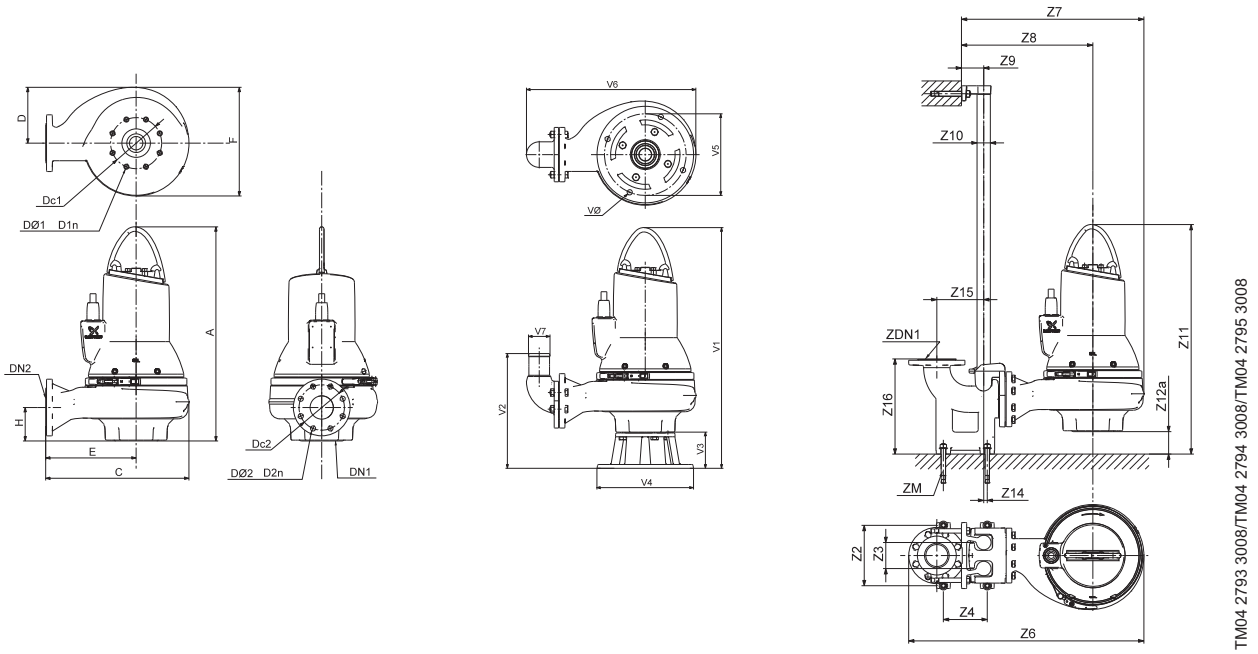
Performance curves SLV.30.A30.18



TM04 7256 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.18



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.99	16.1	6.73	9.49	13.35	4.29	3	6	8xM16	3	6	8x0.75	206.4
[mm]	711	409	171	241	339	109	80	152.4	8xM16	80	152.40	8x19.1	93.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	30	22.40	15.83	3.19	1.5"	31.57	3.58	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	762	569	402	81	1.5"	802	91	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.03	14.92	5.04	12.99	11.02	20.75	3.15	0.710
[mm]	839	379	128	330	280	527	80	18

Electrical data

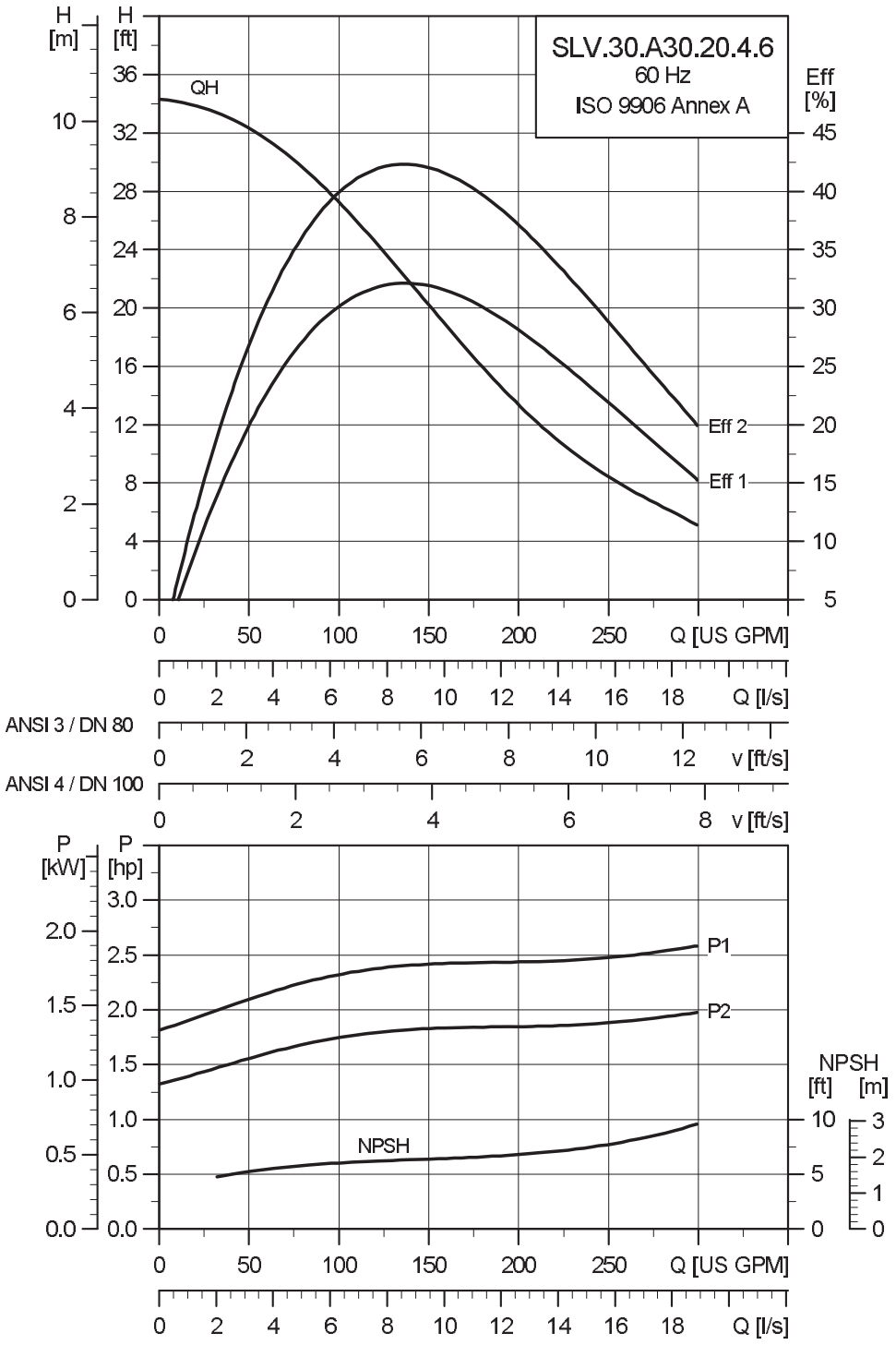
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.18.4.61J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	SD	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.37 (0.01550)	19.18 (26)
SLV.30.A30.18.4.60J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.37 (0.01550)	19.18 (26)
SLV.30.A30.18.4.60L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.37 (0.01550)	22.86 (31)
SLV.30.A30.18.4.61L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	SD	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.37 (0.01550)	22.86 (31)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

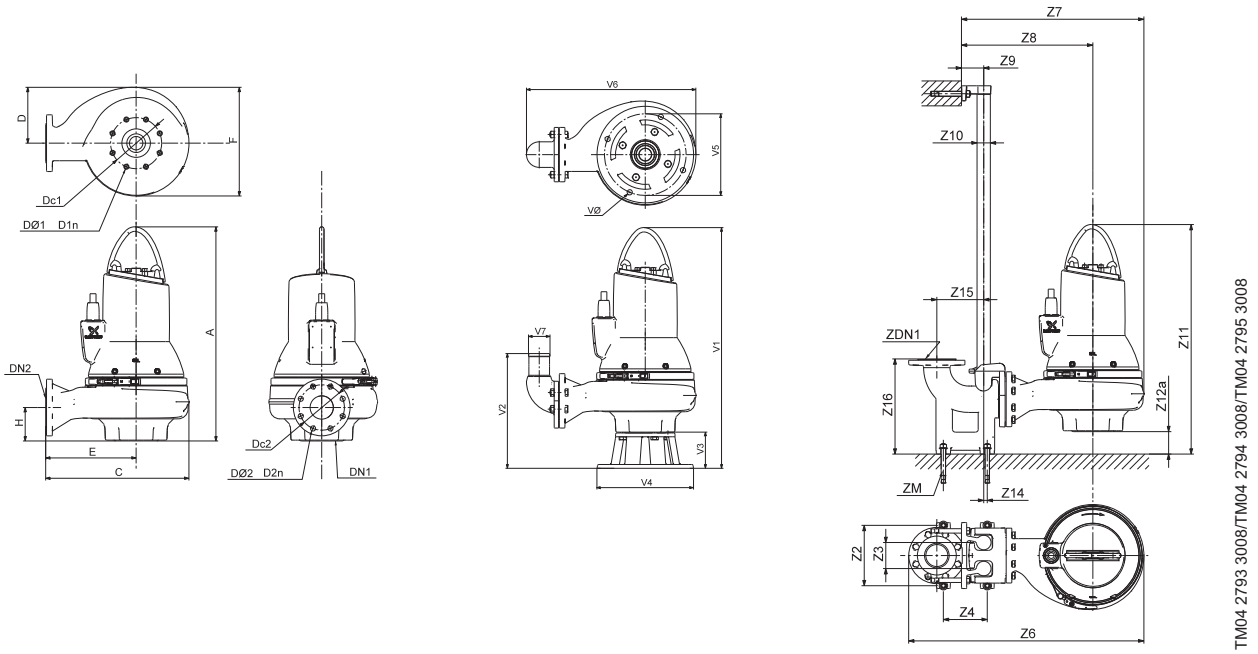
Performance curves SLV.30.A30.20



TM04 7257 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.20



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.99	16.1	6.73	9.49	13.35	4.29	3	6	8xM16	3	6	8x0.75	204.6
[mm]	711	409	171	241	339	109	80	152.4	8xM16	80	152.4	8x19.1	92.8

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	30.00	22.40	15.83	3.19	1.5"	31.57	3.58	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	762	569	402	81	1.5"	802	91	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.03	14.92	5.04	12.99	11.02	20.75	3.15	0.710
[mm]	839	379	128	330	280	527	80	18

Electrical data

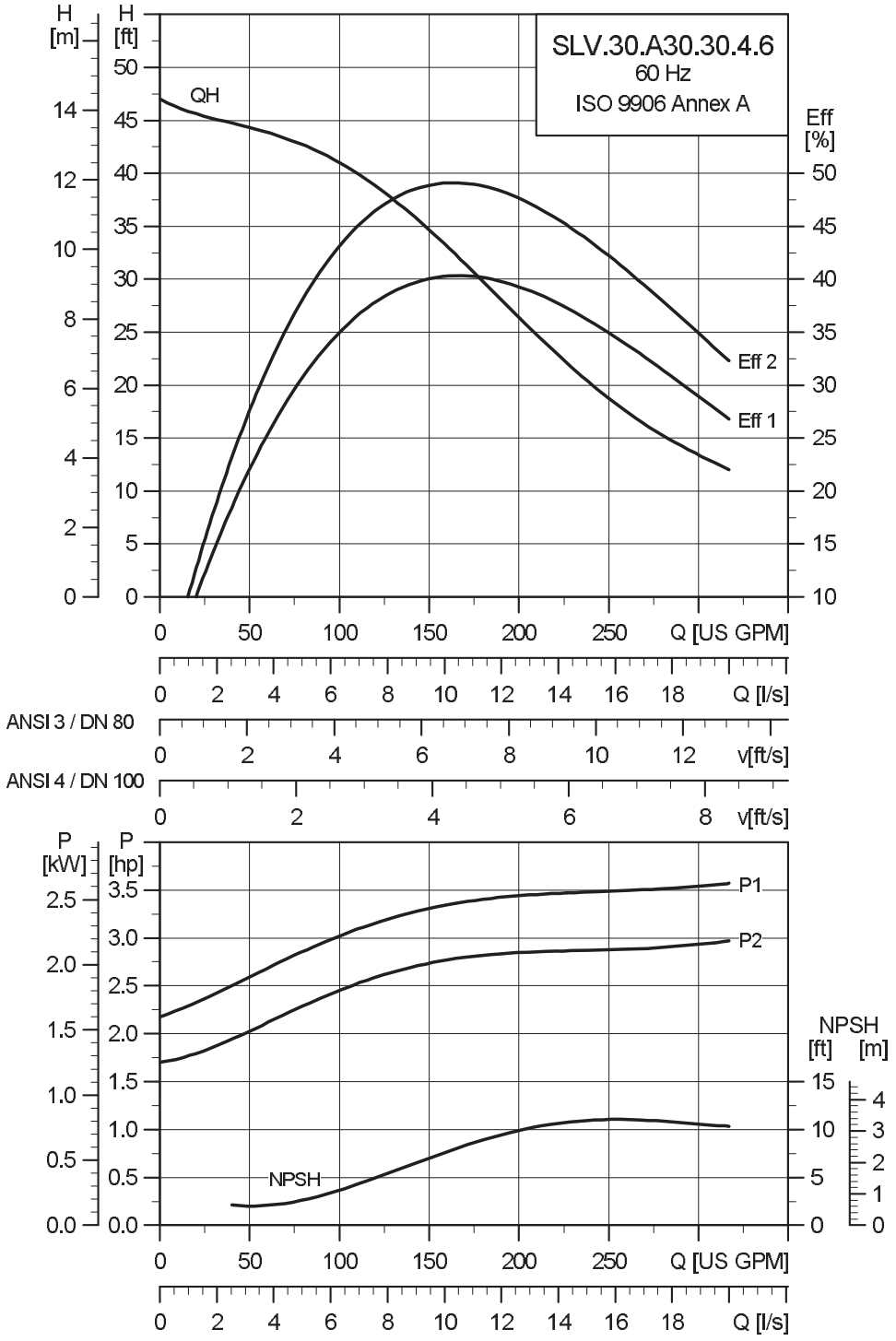
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.20.4.61J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	SD	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.39 (0.01650)	19.18 (26)
SLV.30.A30.20.4.60J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.39 (0.01650)	19.18 (26)
SLV.30.A30.20.4.60L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.39 (0.01650)	22.86 (31)
SLV.30.A30.20.4.61L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	SD	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.39 (0.01650)	22.86 (31)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

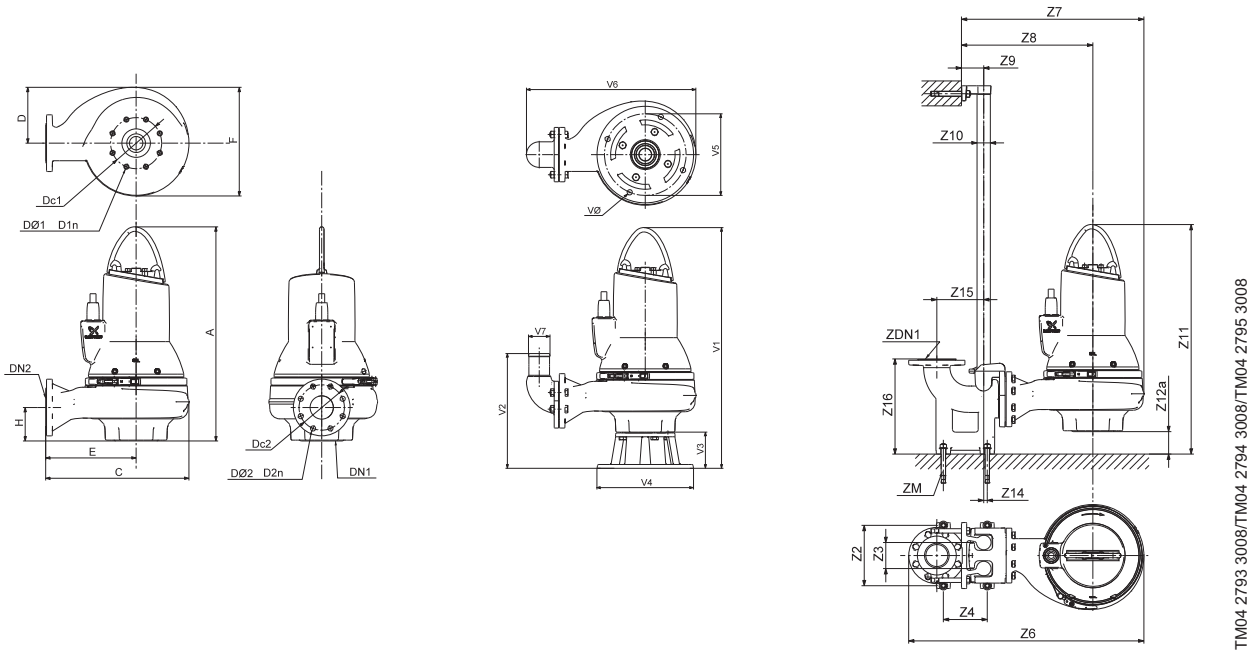
Performance curves SLV.30.A30.30



TM04 7258 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.30



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.99	16.1	6.73	9.49	13.35	4.29	3	6	8xM16	3	6	8x0.75	231.7
[mm]	711	409	171	241	339	109	80	152.4	8xM16	80	152.4	8x19.1	105.1

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	30.00	22.40	15.83	3.19	1.5"	31.57	3.58	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	762	569	402	81	1.5"	802	91	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.03	14.92	5.04	12.99	11.02	20.75	3.15	0.71
[mm]	839	379	128	330	280	527	80	18

Electrical data

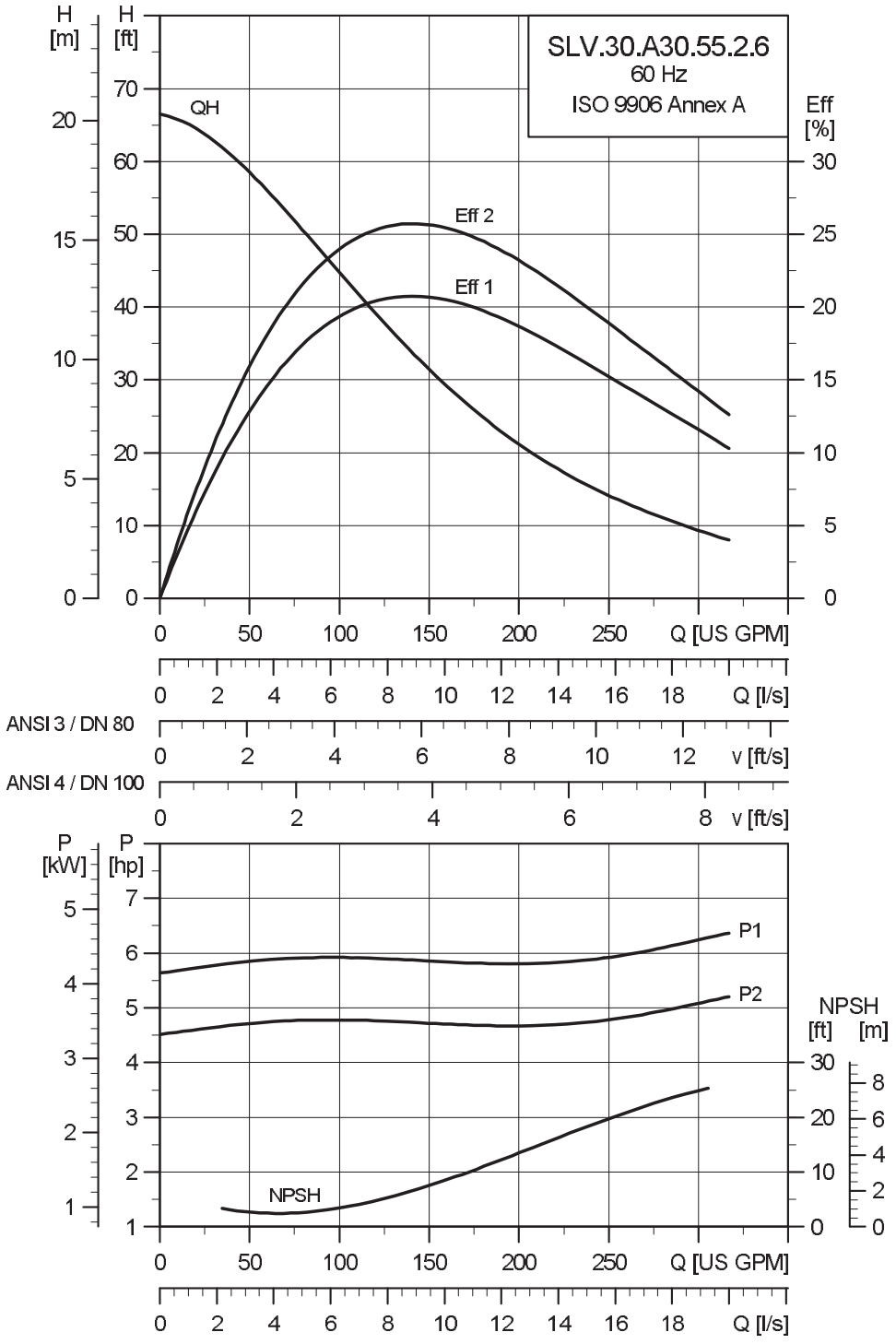
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.30.4.61L	3x575V D	3.6 (2.7)	3.0 (2.2)	4	1760	SD	3.5	29.0	77.5	81.3	82.9	0.62	0.72	0.79	1.15	0.54 (0.02290)	32.45 (44)
SLV.30.A30.30.4.61J	3x208-230V D / 460V Y	3.6 (2.7)	3.0 (2.2)	4	1750	SD	8.7	61.6	78.2	81.5	82.1	0.69	0.78	0.83	1.15	0.54 (0.02290)	26.55 (36)
SLV.30.A30.30.4.61H	3x460V D	3.6 (2.7)	3.0 (2.2)	4	1770	SD	4.5	39.7	76.9	80.7	83.0	0.57	0.69	0.76	1.15	0.54 (0.02290)	35.4 (48)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	2.5 / 65	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

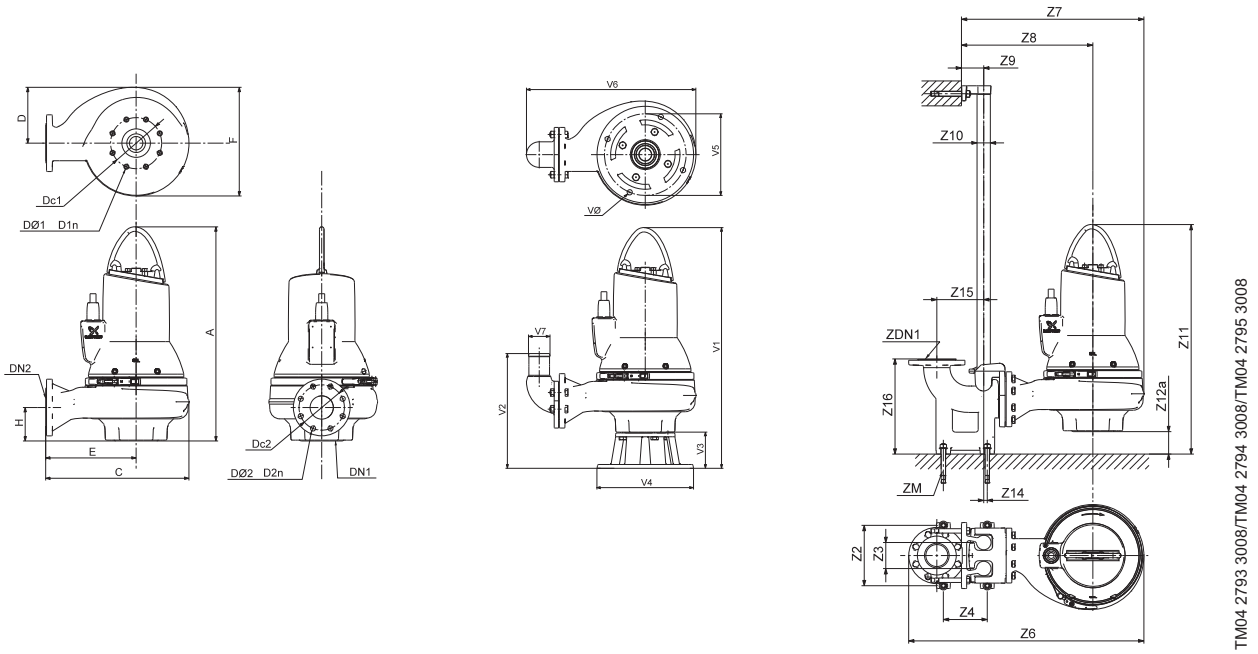
Performance curves SLV.30.A30.55, 2-pole



TM04 7259 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.55, 2-pole



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.45	18.11	7.87	10.51	15.47	4.29	3	6	8xM16	3	6	8x0.75	267.6
[mm]	748	460	200	267	393	109	80	152.4	8xM16	80	152.40	8x19.1	121.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	32.01	24.41	16.85	3.19	1.5"	32.64	3.58	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	813	620	428	81	1.5"	829	91	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.49	14.920	5.04	12.99	11.02	22.76	3.15	0.71
[mm]	876	379	128	330	280	578	80	18

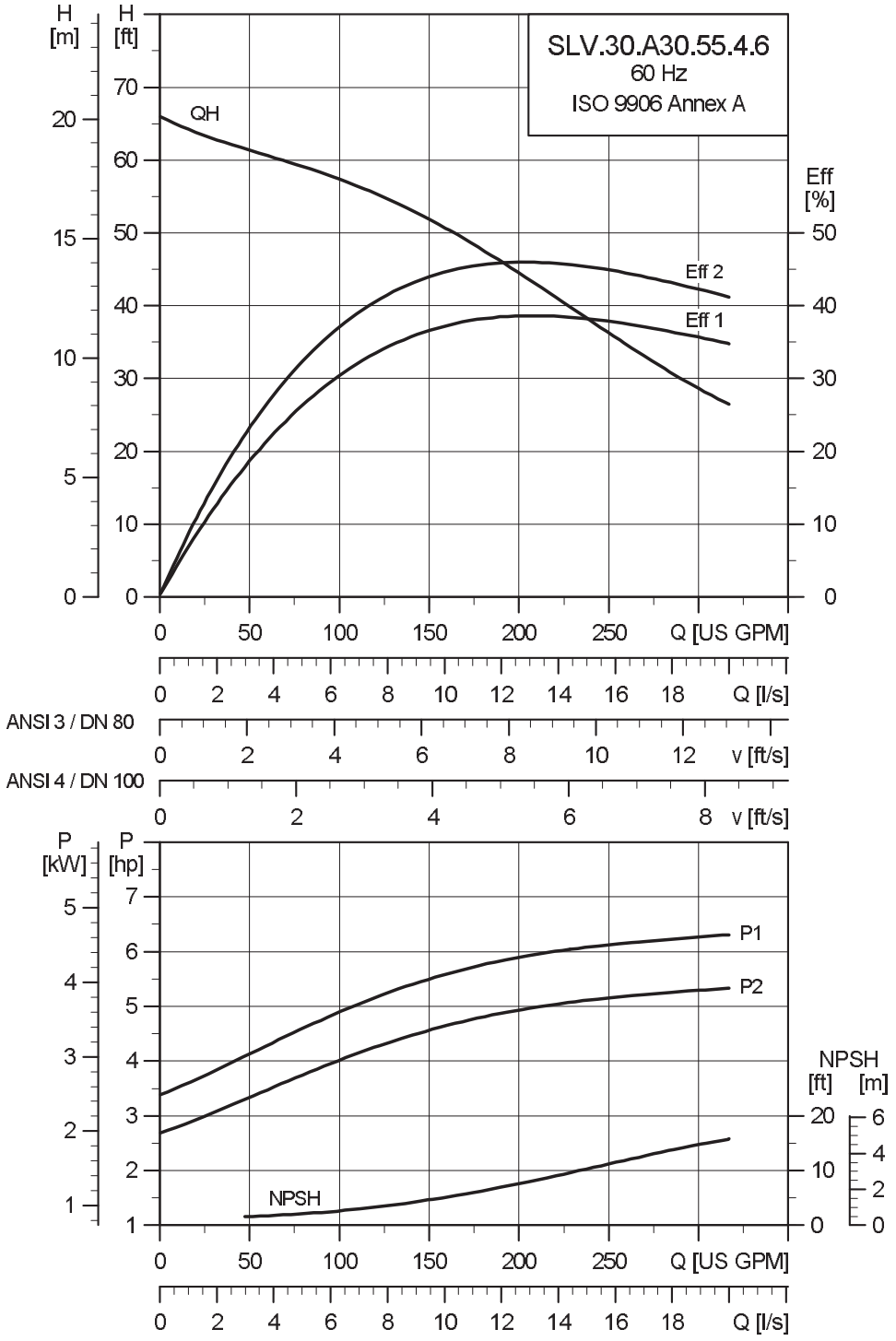
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.55.2.61J	3x208-230V D / 460V Y	6.6 (4.9)	5.5 (4.0)	2	3530	SD	14.8	152	75.0	79.9	81.7	0.78	0.86	0.90	1.15	0.35 (0.01490)	53.84 (73)
SLV.30.A30.55.2.61L	3x575V D	6.6 (4.9)	5.5 (4.0)	2	3535	SD	5.8	70.8	74.1	79.6	82.0	0.71	0.82	0.87	1.15	0.35 (0.01490)	44.99 (61)
SLV.30.A30.55.2.61H	3x460V D	6.6 (4.9)	5.5 (4.0)	2	3540	SD	7.4	96.8	73.6	79.2	82.0	0.68	0.80	0.85	1.15	0.35 (0.01490)	37.62 (51)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

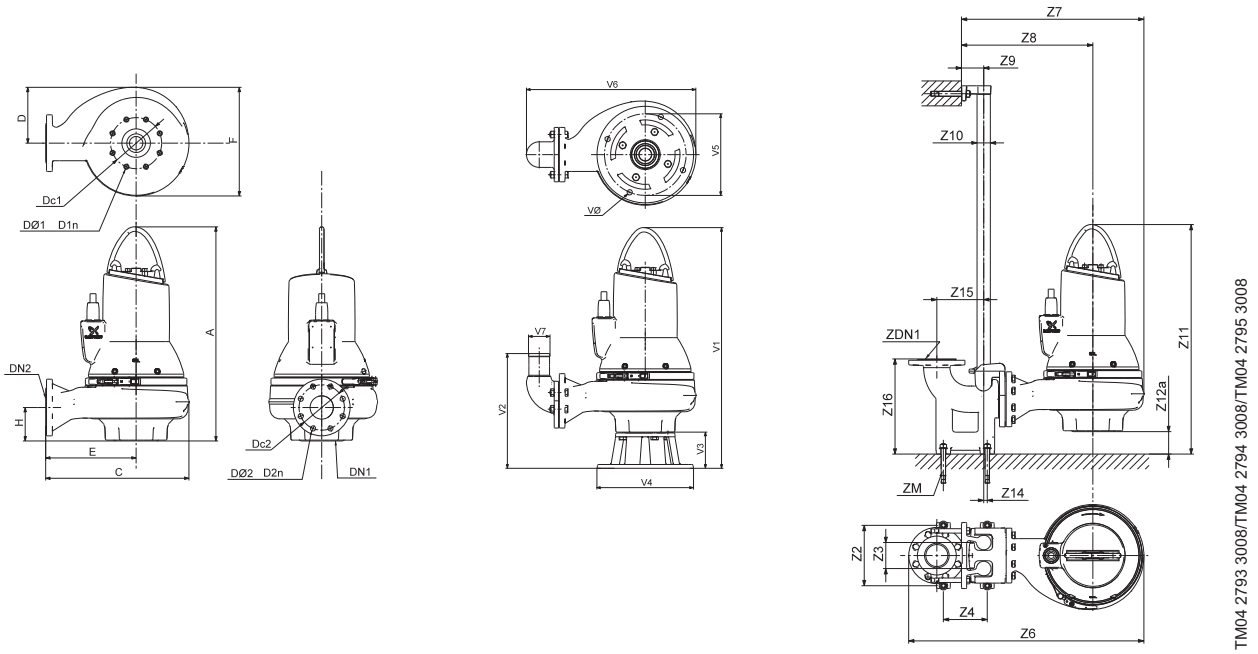
Performance curves SLV.30.A30.55, 4-pole



TM04 7260 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.55, 4-pole



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.29	17.95	7.87	10.87	14.96	4.09	3	6	8xM16	3	6	8x0.75	294.3
[mm]	744	456	200	276	380	104	80	152.4	8xM16	80	152.4	8x19.1	133.5

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	31.85	24.29	17.2	3.19	1.5"	33.07	3.78	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	809	617	437	81	1.5"	840	96	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.33	14.72	5.04	12.99	11.02	22.6	3.15	0.71
[mm]	872	374	128	330	280	574	80	18

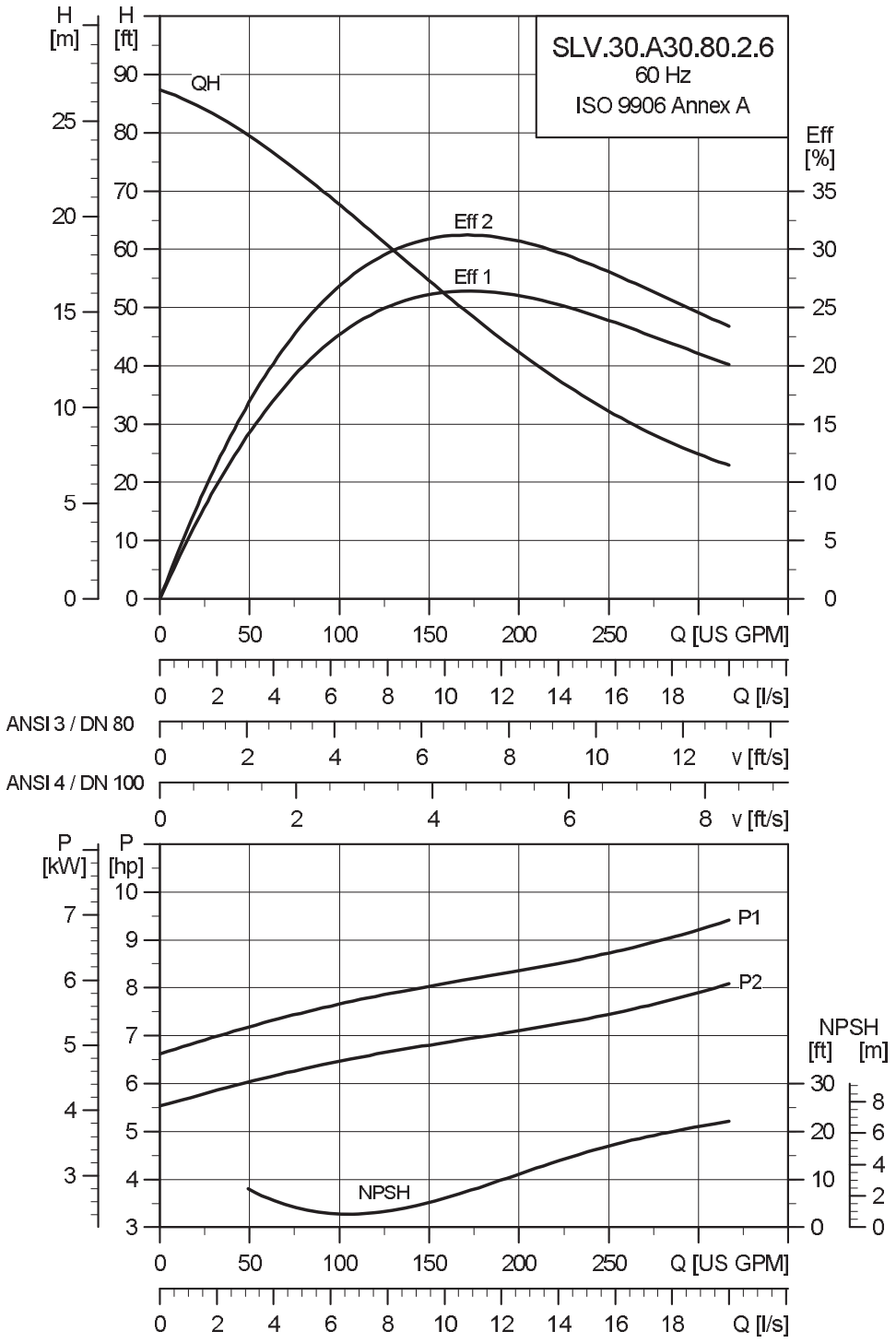
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.55.4.61J	3x208-230V D / 460V Y	6.4 (4.8)	5.5 (4.0)	4	1760	SD	16.1	79.4	79.9	83.3	83.9	0.61	0.74	0.80	1.15	1.28 (0.05400)	81.87 (111)
SLV.30.A30.55.4.61L	3x575V D	6.4 (4.8)	5.5 (4.0)	4	1765	SD	6.5	37.5	79.2	83.3	84.7	0.54	0.67	0.75	1.15	1.28 (0.05400)	68.59 (93)
SLV.30.A30.55.4.61H	3x460V D	6.4 (4.8)	5.5 (4.0)	4	1770	SD	8.5	51.5	78.3	82.6	84.4	0.50	0.64	0.72	1.15	1.28 (0.05400)	74.49 (101)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

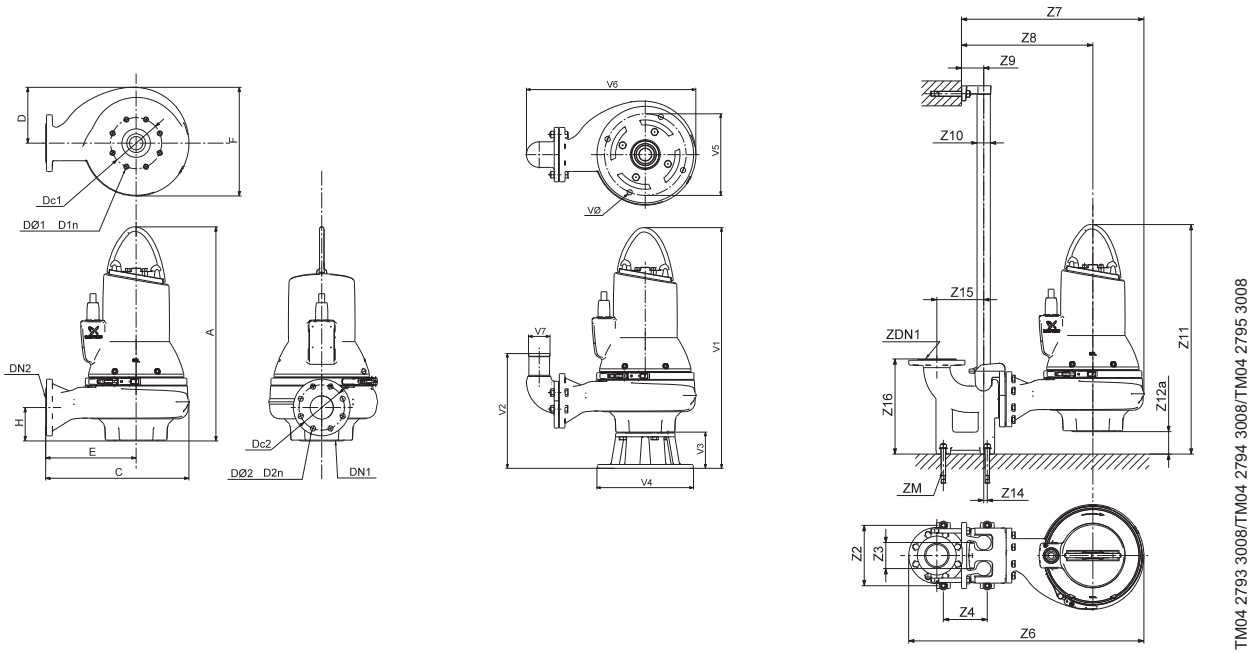
Performance curves SLV.30.A30.80



TM04 7261 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.80



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.57	17.95	7.87	10.87	14.96	4.09	3	6	8xM16	3	6	8x0.75	305.6
[mm]	751	456	200	276	380	104	80	152.4	8xM16	80	152.40	8x19.1	138.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	31.85	24.29	17.2	3.19	1.5"	33.35	3.78	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	809	617	437	81	1.5"	847	96	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.61	14.72	5.04	12.99	11.02	22.6	3.15	0.71
[mm]	879	374	128	330	280	574	80	18

Electrical data

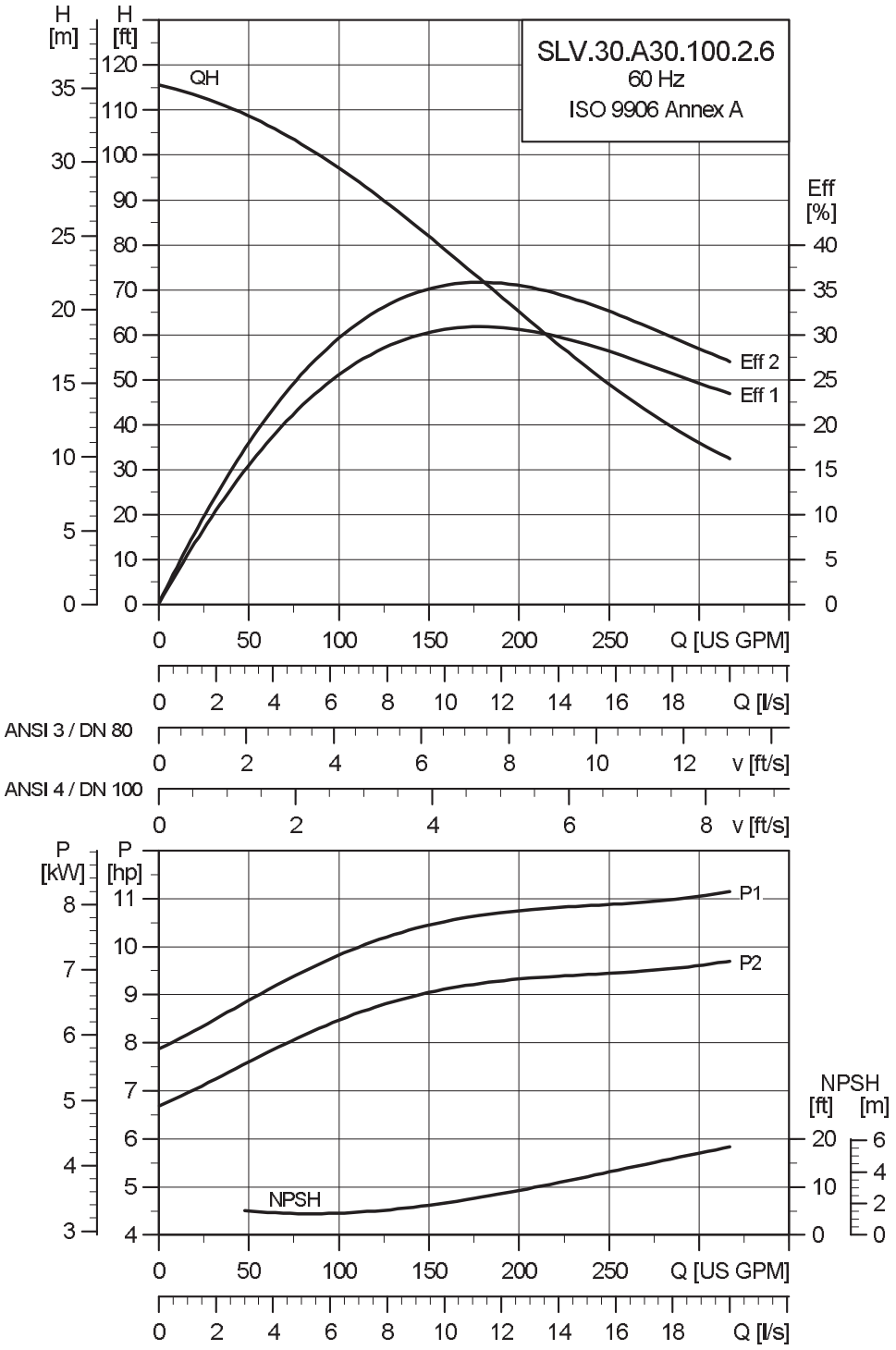
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.80.2.61J	3x208-230V D / 460V Y	11.7 (8.7)	10.0 (7.5)	2	3520	SD	26.5	191	83.0	85.2	85.4	0.82	0.88	0.90	1.15	0.45 (0.01900)	70.81 (96)
SLV.30.A30.80.2.61L	3x575V D	11.7 (8.7)	10.0 (7.5)	2	3525	SD	10.2	89.0	82.9	86.0	86.8	0.76	0.84	0.88	1.15	0.45 (0.01900)	59.74 (81)
SLV.30.A30.80.2.61H	3x460V D	11.7 (8.7)	10.0 (7.5)	2	3550	SD	13.2	116	0.8	0.8	0.9	0.73	0.81	0.86	1.15	0.45 (0.01900)	65.64 (89)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	B	104 / 40	4-10

Performance curves
Technical data

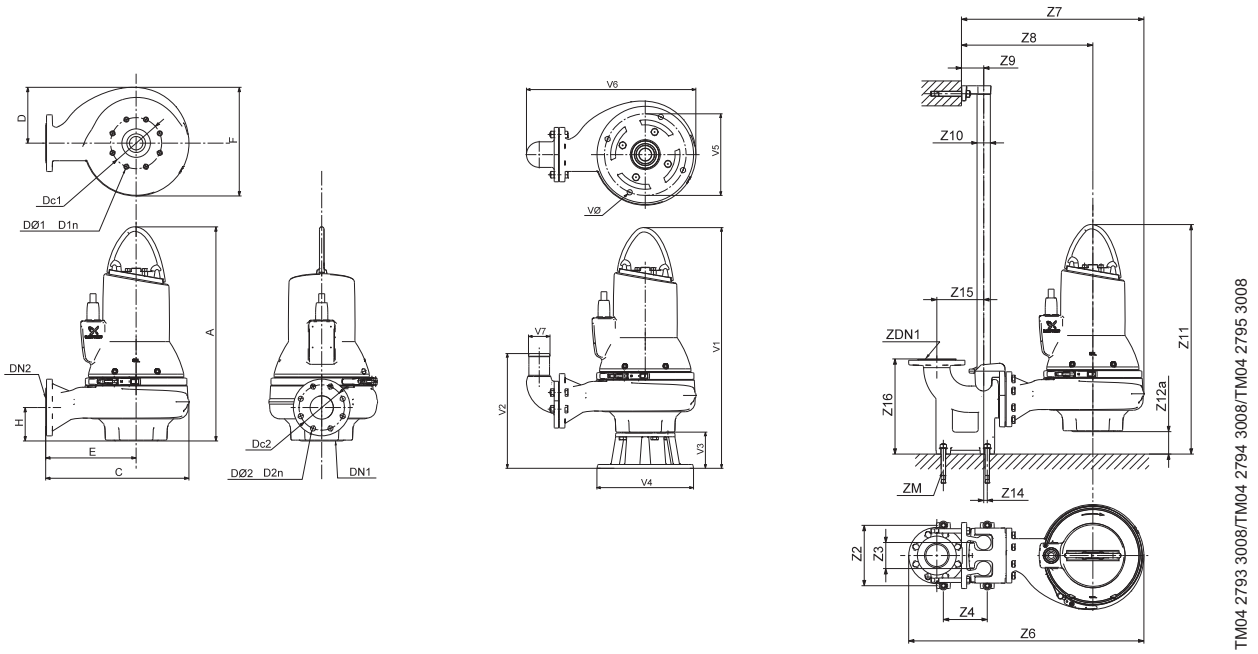
Performance curves SLV.30.A30.100



TM04 7262 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.100



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.57	17.95	7.87	10.87	14.96	4.09	3	6	8xM16	3	6	8x0.75	306.7
[mm]	751	456	200	276	380	104	80	152.4	8xM16	80	152.4	8x19.1	139.1

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	31.85	24.29	17.2	3.19	1.5"	33.35	3.78	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	809	617	437	81	1.5"	847	96	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.61	14.72	5.04	12.99	11.02	22.6	3.15	0.71
[mm]	879	374	128	330	280	574	80	18

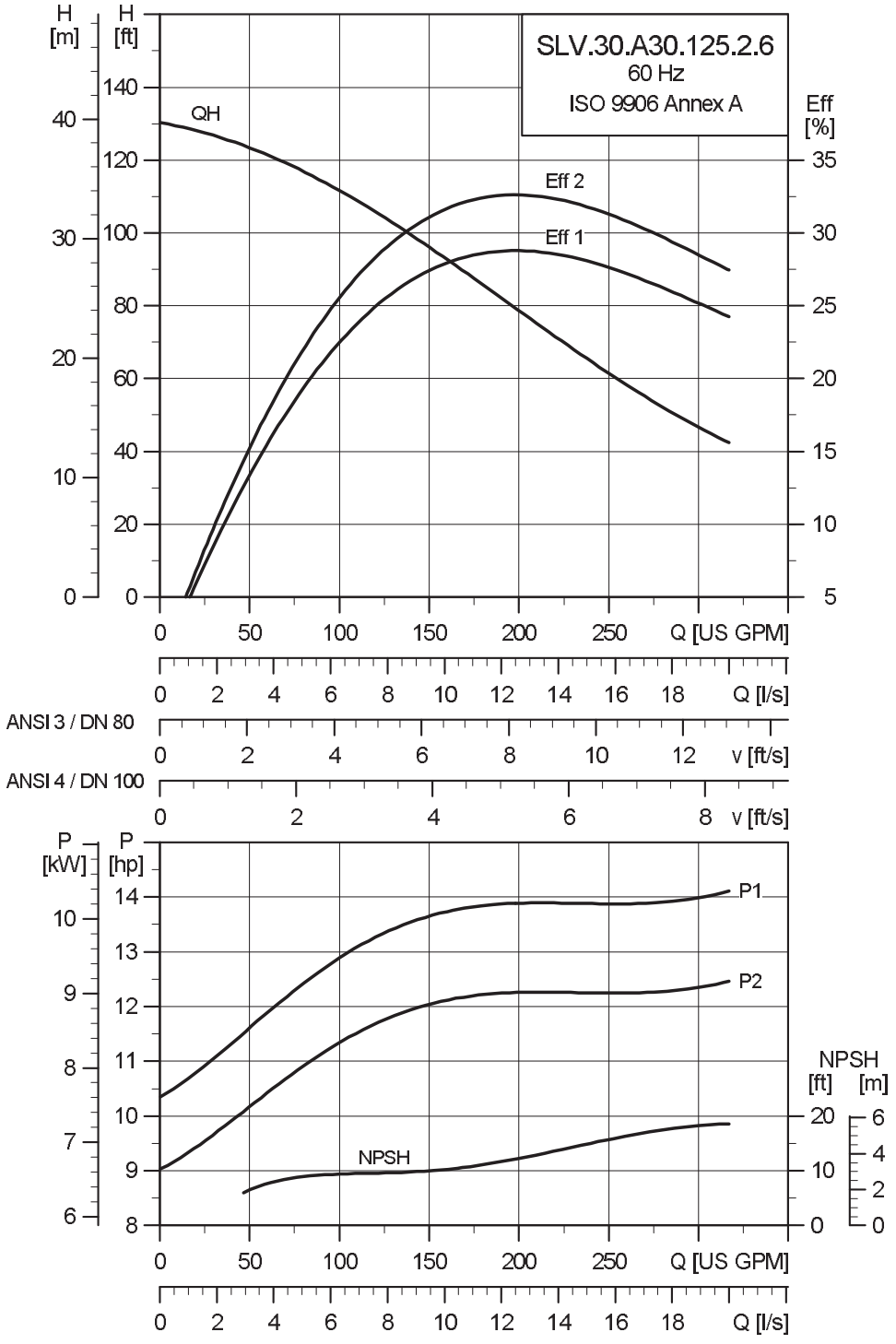
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.100.2.61J	3x208-230V D / 460V Y	11.7 (8.7)	10.0 (7.5)	2	3520	SD	26.5	191	83.0	85.2	85.4	0.82	0.88	0.90	1.15	0.52 (0.02200)	70.81 (96)
SLV.30.A30.100.2.61L	3x575V D	11.7 (8.7)	10.0 (7.5)	2	3525	SD	10.2	89.0	82.9	86.0	86.8	0.76	0.84	0.88	1.15	0.52 (0.02200)	59.74 (81)
SLV.30.A30.100.2.61H	3x460V D	11.7 (8.7)	10.0 (7.5)	2	3550	SD	13.2	116	0.8	0.8	0.9	0.73	0.81	0.86	1.15	0.52 (0.02200)	65.64 (89)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	**B**	104 / 40	4-10

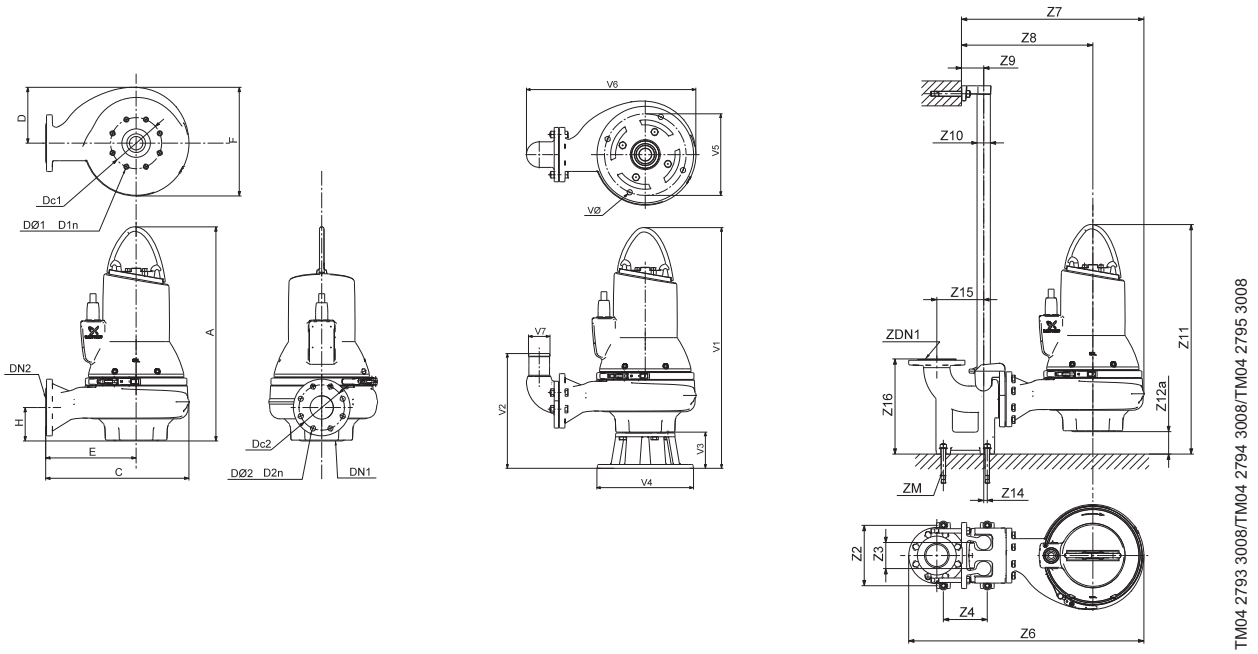
Performance curves SLV.30.A30.125



TM04 7263 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.125



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	30.79	19.25	8.54	11.54	16.26	4.84	3	6	8xM16	3	6	8x0.75	399.9
[mm]	782	489	217	293	413	123	80	152.4	8xM16	80	152.40	8x19.1	181.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	33.15	25.59	17.87	3.19	1.5"	33.78	3.03	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	842	650	454	81	1.5"	858	77	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	35.83	15.47	5.04	12.99	11.02	23.9	3.15	0.71
[mm]	910	393	128	330	280	607	80	18

Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.125.2.61J	3x208-230V D / 460V Y	17.0 (12.7)	15.0 (11.0)	2	3545	SD	38.2	251	85.6	87.3	87.0	0.84	0.89	0.90	1.15	1.21 (0.051)	79.66 (108)
SLV.30.A30.125.2.61L	3x575V D	17.0 (12.7)	15.0 (11.0)	2	3550	SD	14.5	115	85.8	88.1	88.5	0.80	0.86	0.89	1.15	1.21 (0.051)	67.12 (91)
SLV.30.A30.125.2.61H	3x460V D	17.0 (12.7)	15.0 (11.0)	2	3550	SD	18.2	157	85.9	88.1	88.7	0.77	0.85	0.88	1.15	1.21 (0.051)	73.02 (99)

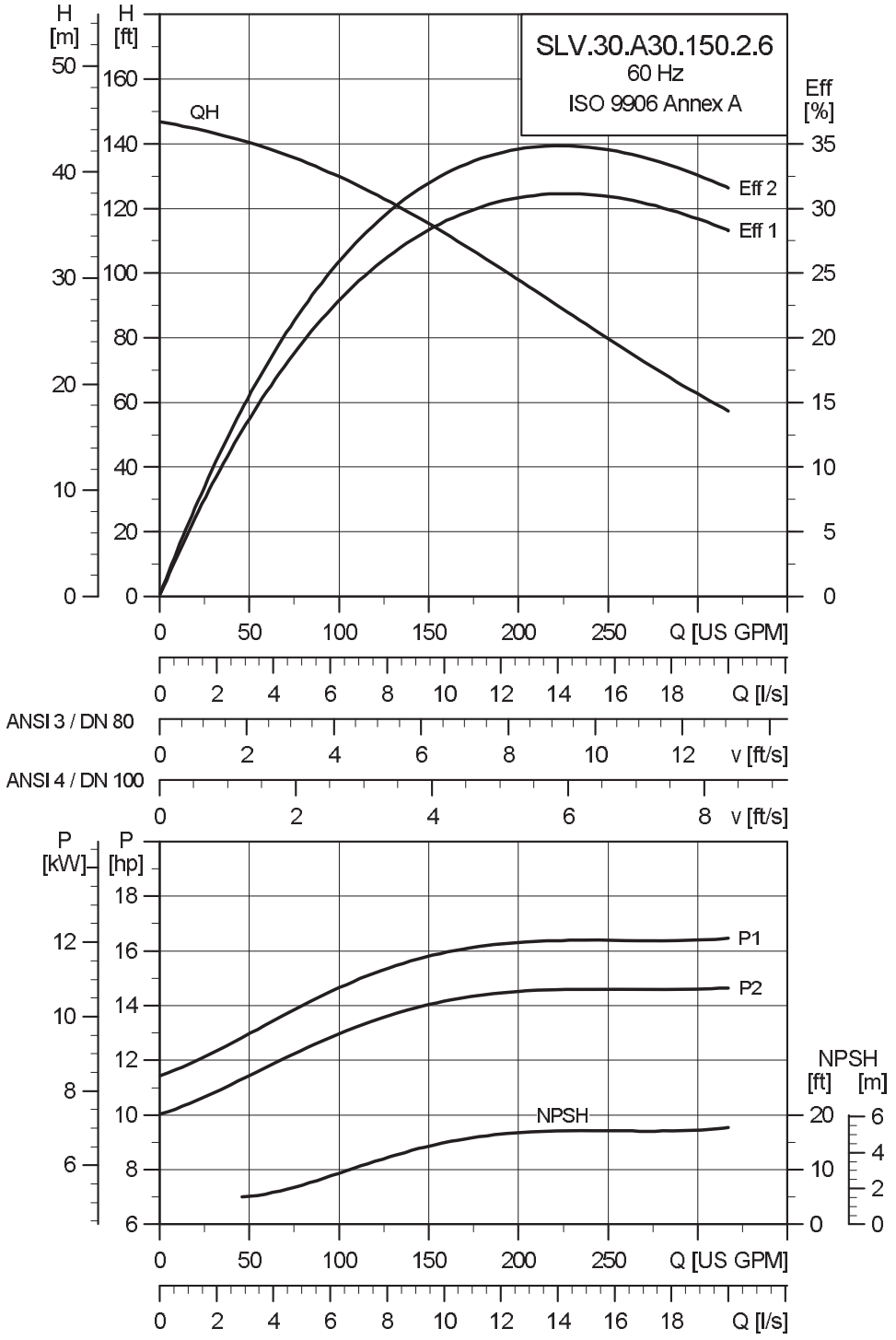
Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A (B)*	104 / 40	4-10

*SLV.30.A30.125.2.61H are temperature rise class B

Performance curves
Technical data

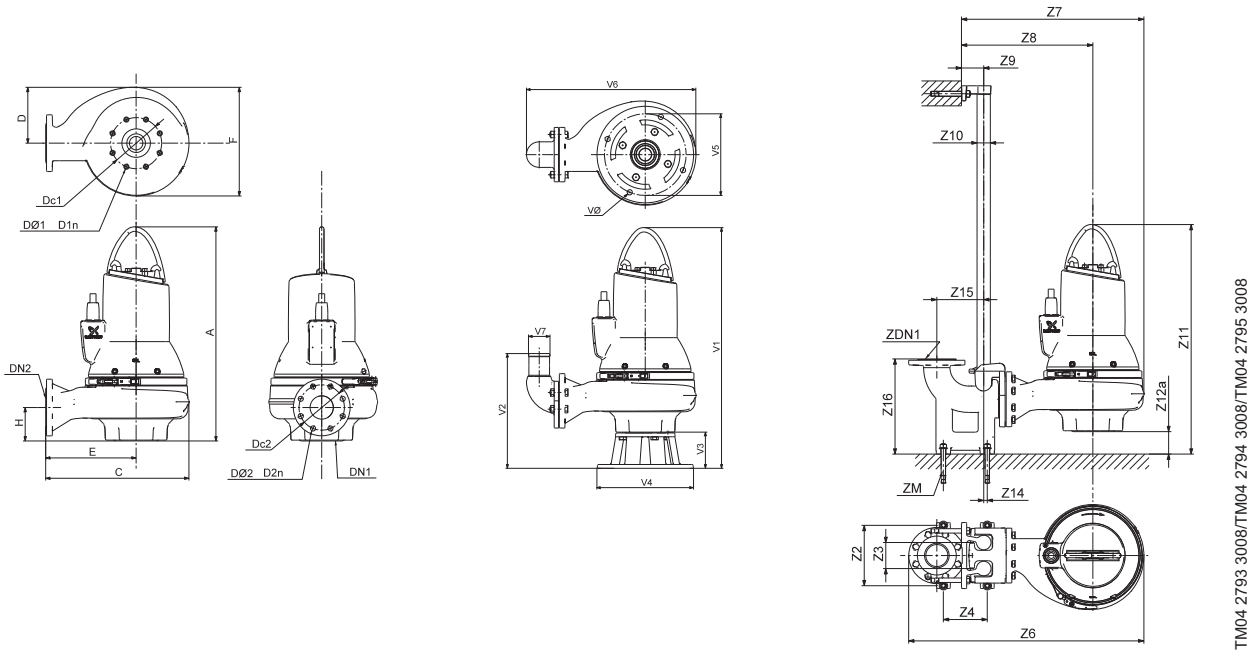
Performance curves SLV.30.A30.150



TM04 7264 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A30.150



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	30.79	19.25	8.54	11.54	16.26	4.84	3	6	8xM16	3	6	8x0.75	400.4
[mm]	782	489	217	293	413	123	80	152.4	8xM16	80	152.40	8x19.1	181.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	8.66	3.74	6.3	33.15	25.59	17.87	3.19	1.5"	33.78	3.03	0.51	6.73	13.58	3	4XM16
[mm]	220	95	160	842	650	454	81	1.5"	858	77	13	171	345	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	35.83	15.47	5.04	12.99	11.02	23.9	3.15	0.71
[mm]	910	393	128	330	280	607	80	18

Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos φ 1/2	Cos φ 3/4	Cos φ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A30.150.2.61J	3x208-230V D / 460V Y	17.0 (12.7)	15.0 (11.0)	2	3545	SD	38.2	251	85.6	87.3	87.0	0.84	0.89	0.90	1.15	1.26 (0.053)	79.66 (108)
SLV.30.A30.150.2.61L	3x575V D	17.0 (12.7)	15.0 (11.0)	2	3550	SD	14.5	115	85.8	88.1	88.5	0.80	0.86	0.89	1.15	1.26 (0.053)	67.12 (91)
SLV.30.A30.150.2.61H	3x460V D	17.0 (12.7)	15.0 (11.0)	2	3550	SD	18.2	157	85.9	88.1	88.7	0.77	0.85	0.88	1.15	1.26 (0.053)	73.02 (99)

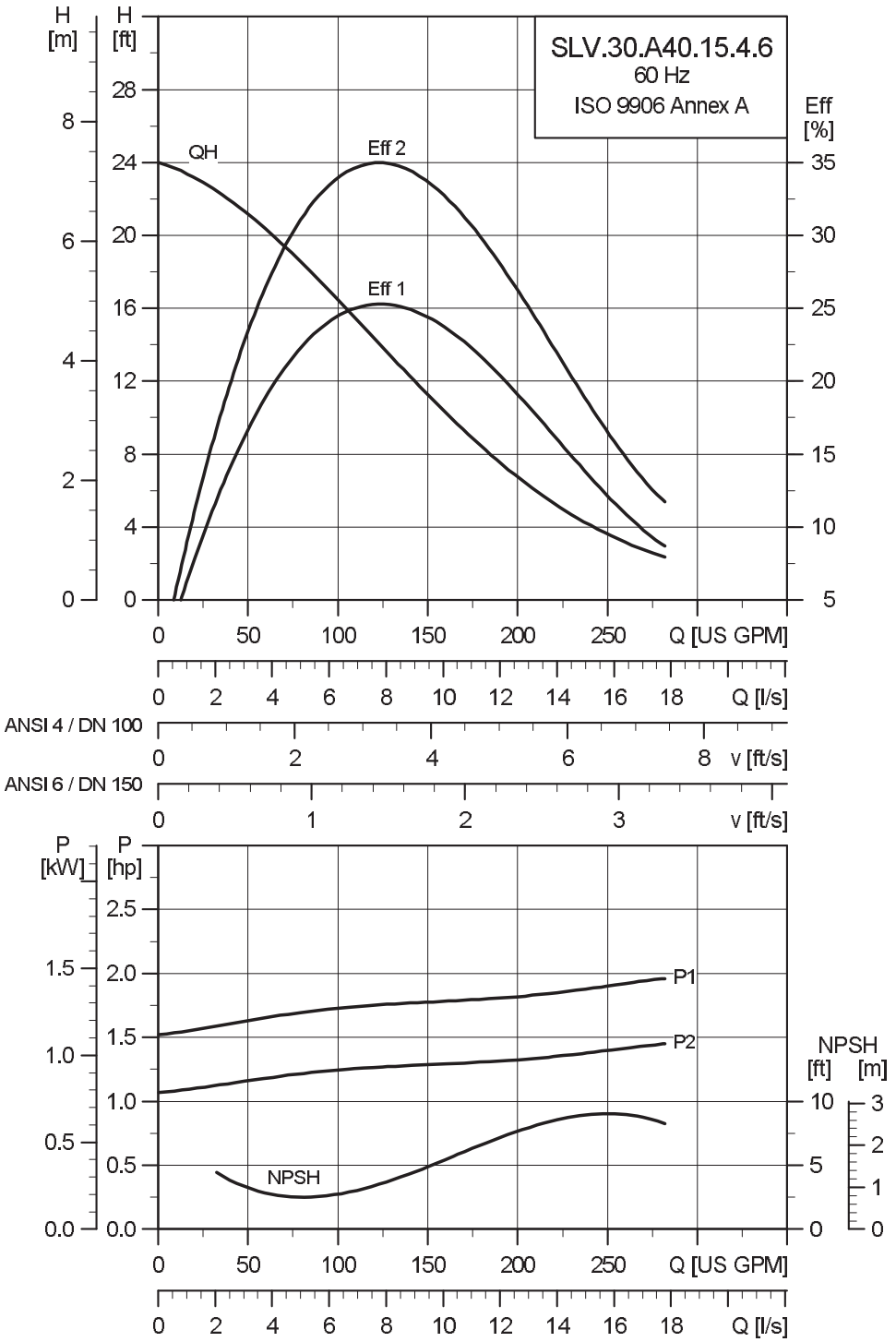
Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A (B)*	104 / 40	4-10

*SLV.30.A30.150.2.61H are temperature rise class B

SLV.30.A40

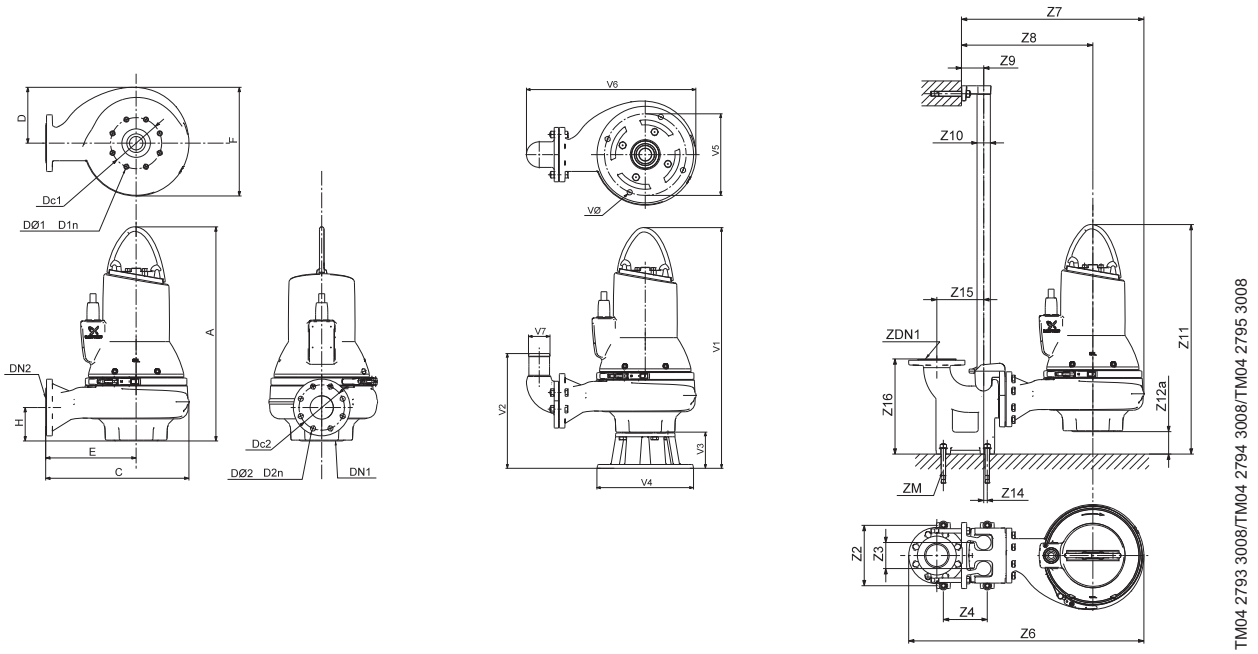
Performance curves SLV.30.A40.15



TM04 7260 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.15



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.99	16.02	6.73	9.49	13.25	4.29	3	6	8xM16	4	7.5	8x0.75	207.7
[mm]	711	407	171	241	337	109	80	152.4	8xM16	100	190.50	8x19.1	94.2

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	33.46	24.57	18.03	4.33	2.0"	33.15	5.16	0.00	8.66	16.260	3	4XM16
[mm]	260	110	220	850	624	458	110	2.0"	842	131	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	33.03	13.94	5.04	12.99	11.02	21.6	3.94	0.71
[mm]	839	354	128	330	280	549	100	18

Electrical data

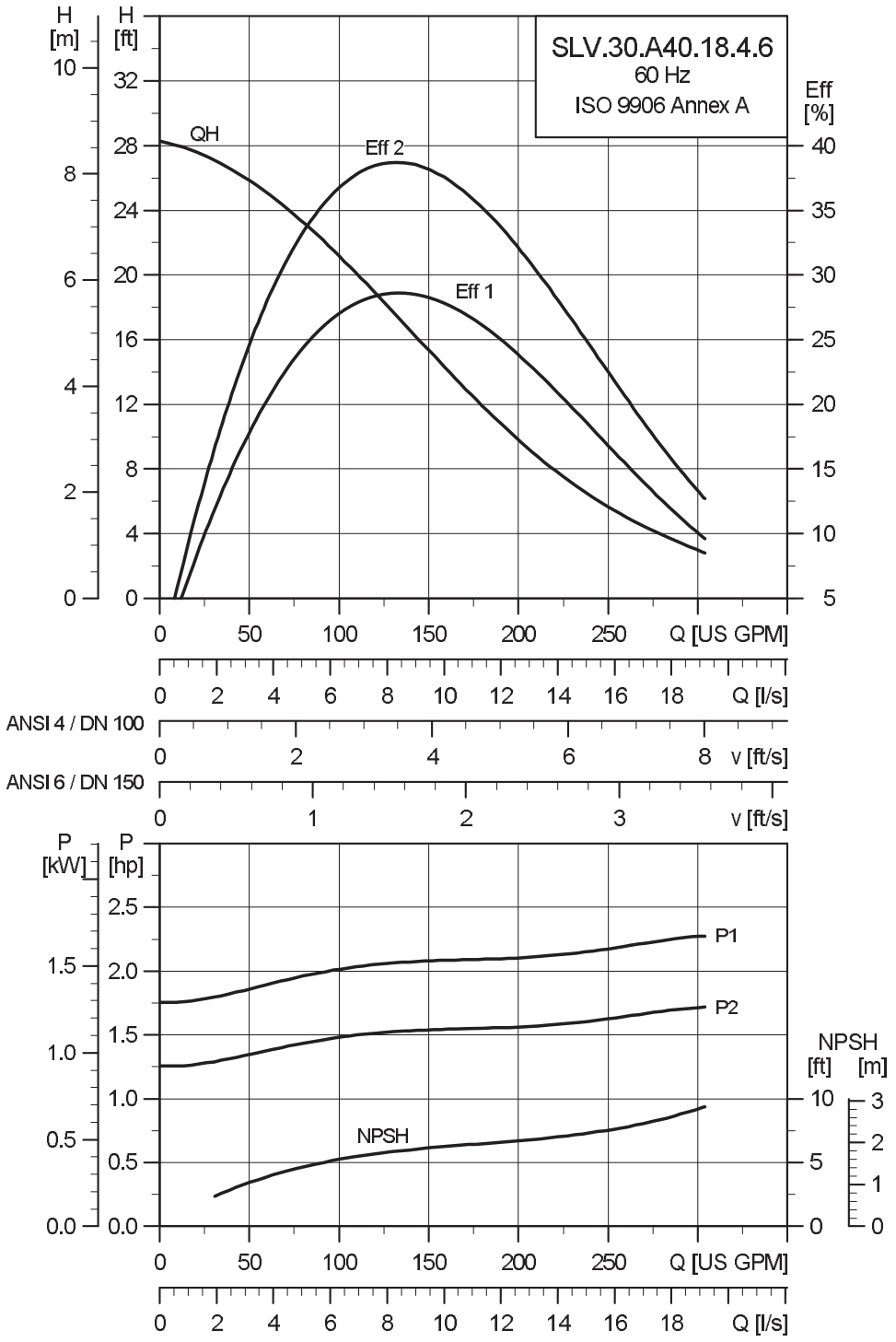
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.15.4.61J	3x208-230V D / 460V Y	2.0 (1.5)	1.5 (1.1)	4	1750	SD	5.1	31.9	66.2	71.5	73.9	0.65	0.74	0.8	1.15	0.33 (0.014)	14.01 (19)
SLV.30.A40.15.4.60J	3x208-230V D / 460V Y	2.0 (1.5)	1.5 (1.1)	4	1750	DOL	5.1	31.9	66.2	71.5	73.9	0.65	0.74	0.8	1.15	0.33 (0.014)	14.01 (19)
SLV.30.A40.15.4.60L	3x575V D	2.0 (1.5)	1.5 (1.1)	4	1755	DOL	2.0	14.9	65.0	71.4	74.5	0.59	0.69	0.75	1.15	0.33 (0.014)	16.96 (23)
SLV.30.A40.15.4.61L	3x575V D	2.0 (1.5)	1.5 (1.1)	4	1755	SD	2.0	14.9	65.0	71.4	74.5	0.59	0.69	0.75	1.15	0.33 (0.014)	16.96 (23)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

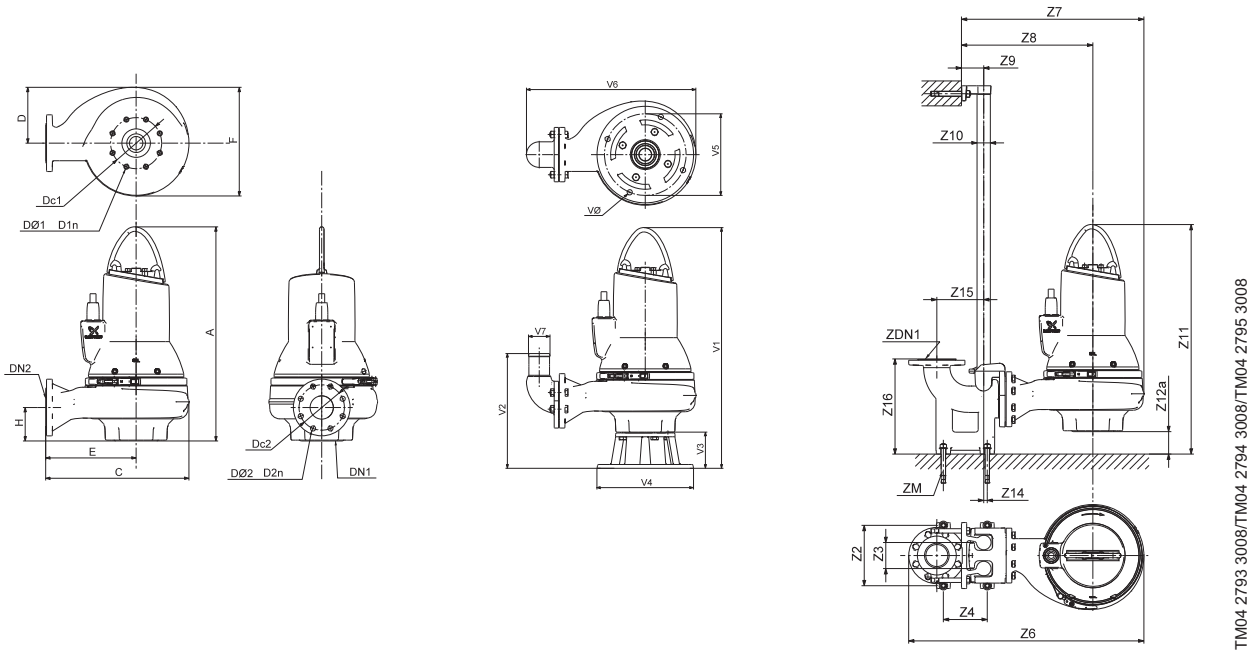
Performance curves SLV.30.A40.18



TM04 7266 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.18



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.99	16.02	6.73	9.49	13.25	4.29	3	6	8xM16	4	7.5	8x0.75	206.4
[mm]	711	407	171	241	337	109	80	152.4	8xM16	100	190.5	8x19.1	93.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	33.46	24.57	18.03	4.33	2.0"	33.15	5.16	0	8.66	16.26	3	4XM16
[mm]	260	110	220	850	624	458	110	2.0"	842	131	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.97	14.53	5.12	13.98	11.81	23.27	3.94	0.71
[mm]	812	369	130	355	300	591	100	18

Electrical data

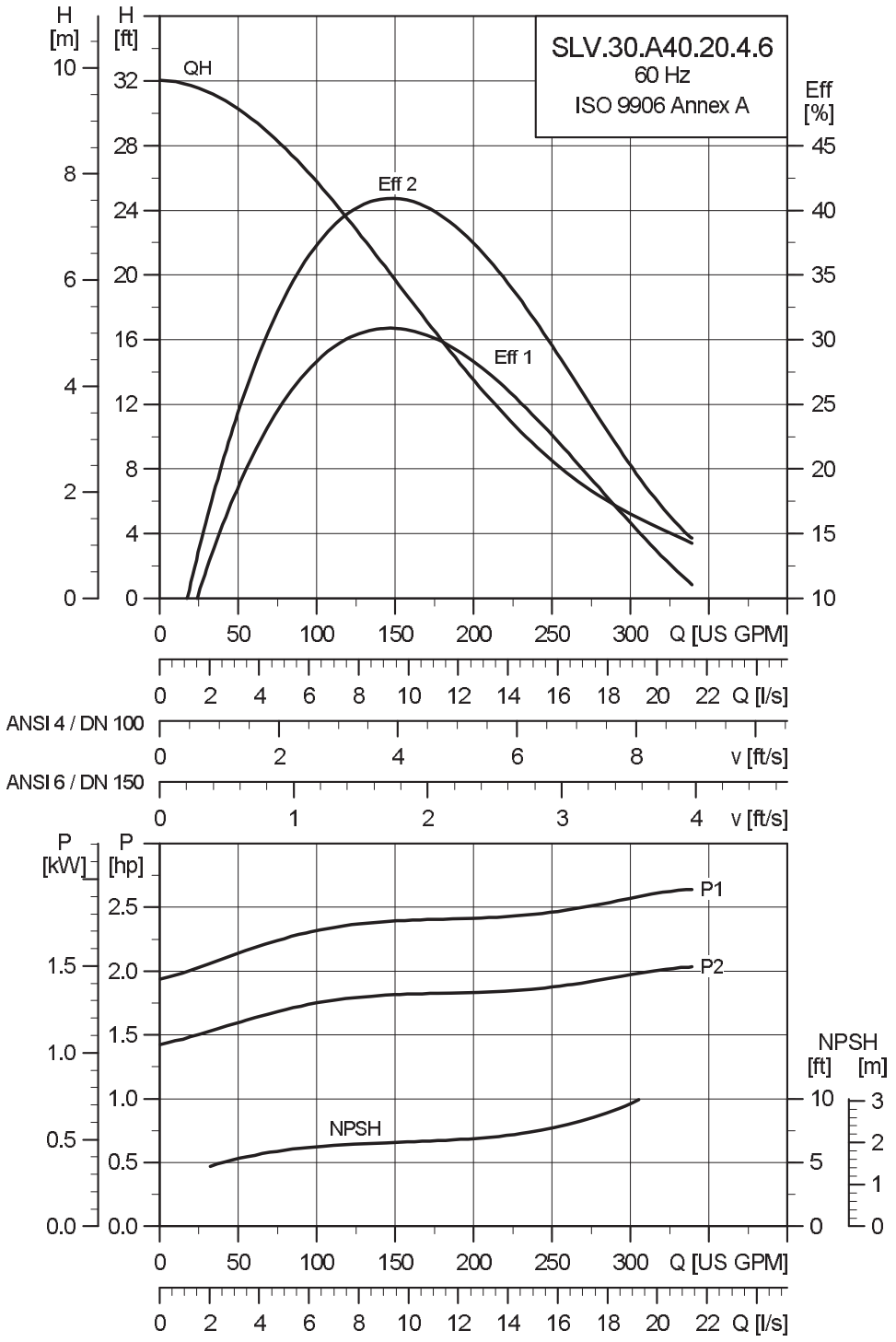
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.18.4.61J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	SD	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.37 (0.0155)	19.18 (26)
SLV.30.A40.18.4.60J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.37 (0.0155)	19.18 (26)
SLV.30.A40.18.4.60L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.37 (0.0155)	22.86 (31)
SLV.30.A40.18.4.61L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	SD	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.37 (0.0155)	22.86 (31)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

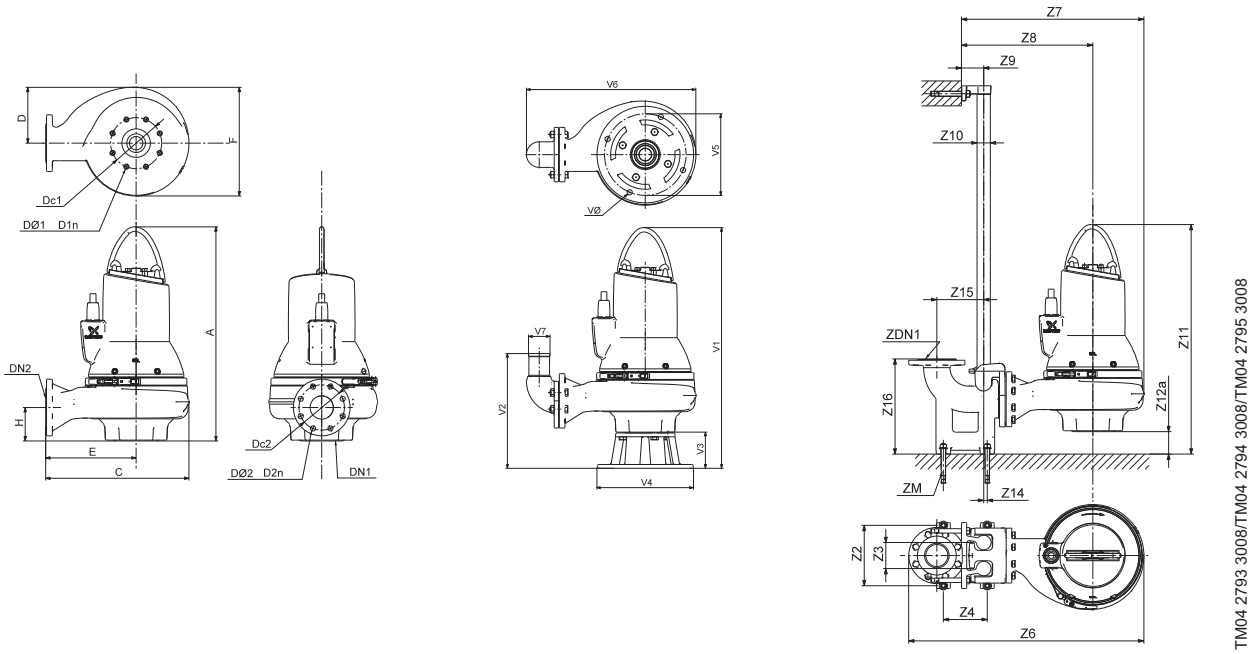
Performance curves SLV.30.A40.20



TM04 7267 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.20



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.99	16.02	6.73	9.49	13.25	4.29	3	6	8xM16	4	7.5	8x0.75	206.8
[mm]	711	407	171	241	337	109	80	152.4	8xM16	100	190.50	8x19.1	93.8

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	33.46	24.57	18.03	4.33	2.0"	33.15	5.16	0.00	8.66	16.260	3	4XM16
[mm]	260	110	220	850	624	458	110	2.0"	842	131	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.97	14.53	5.12	13.98	11.81	23.27	3.94	0.71
[mm]	812	369	130	355	300	591	100	18

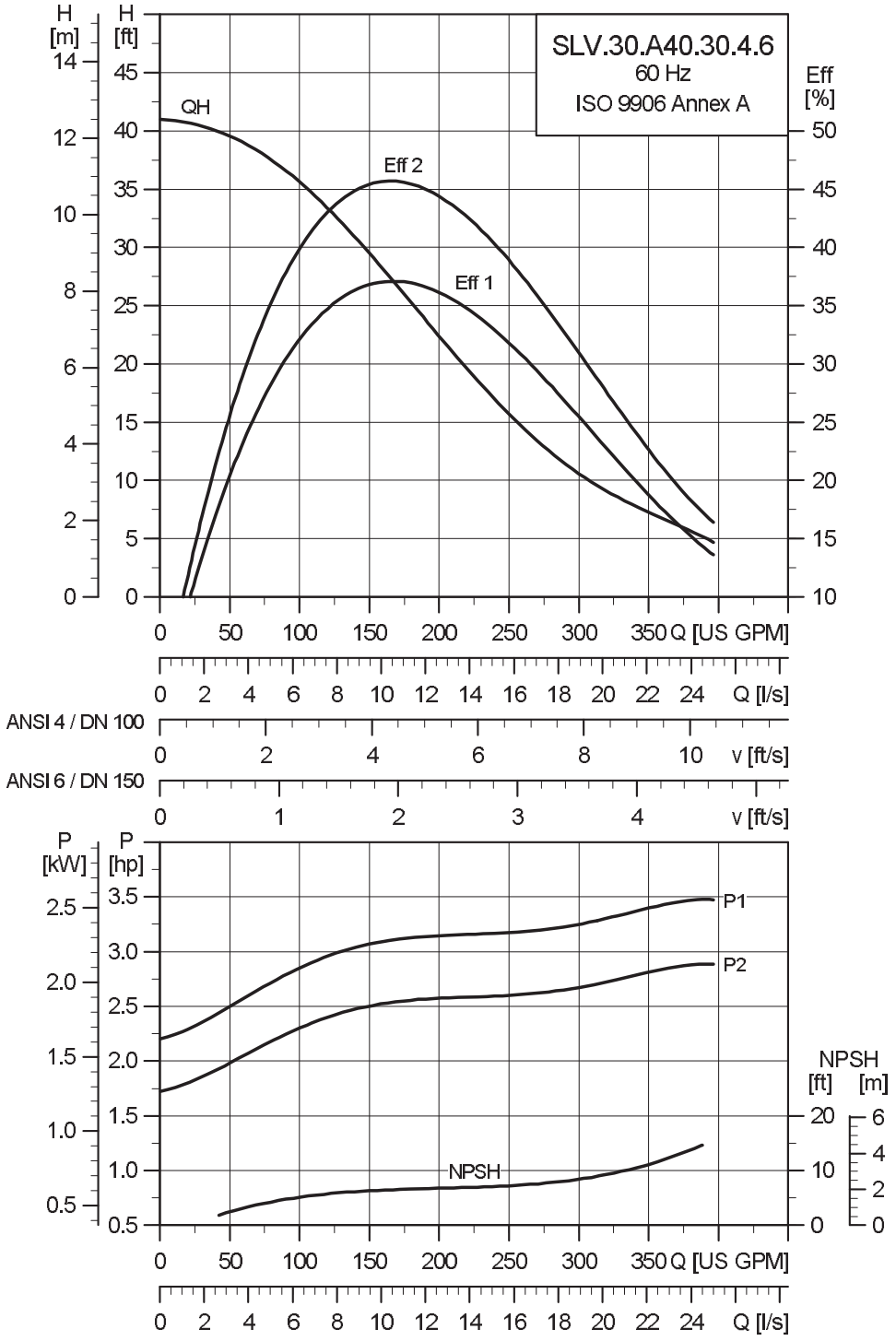
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.20.4.61J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	SD	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.39 (0.01650)	19.18 (26)
SLV.30.A40.20.4.60J	3x208-230V D / 460V Y	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	6.6	42.5	69.6	74.4	76.2	0.65	0.75	0.80	1.15	0.39 (0.01650)	19.18 (26)
SLV.30.A40.20.4.60L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	DOL	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.39 (0.01650)	22.86 (31)
SLV.30.A40.20.4.61L	3x575V D	2.5 (1.9)	2.0 (1.5)	4	1750	SD	2.6	20.0	68.7	74.4	77.0	0.59	0.69	0.76	1.15	0.39 (0.01650)	22.86 (31)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

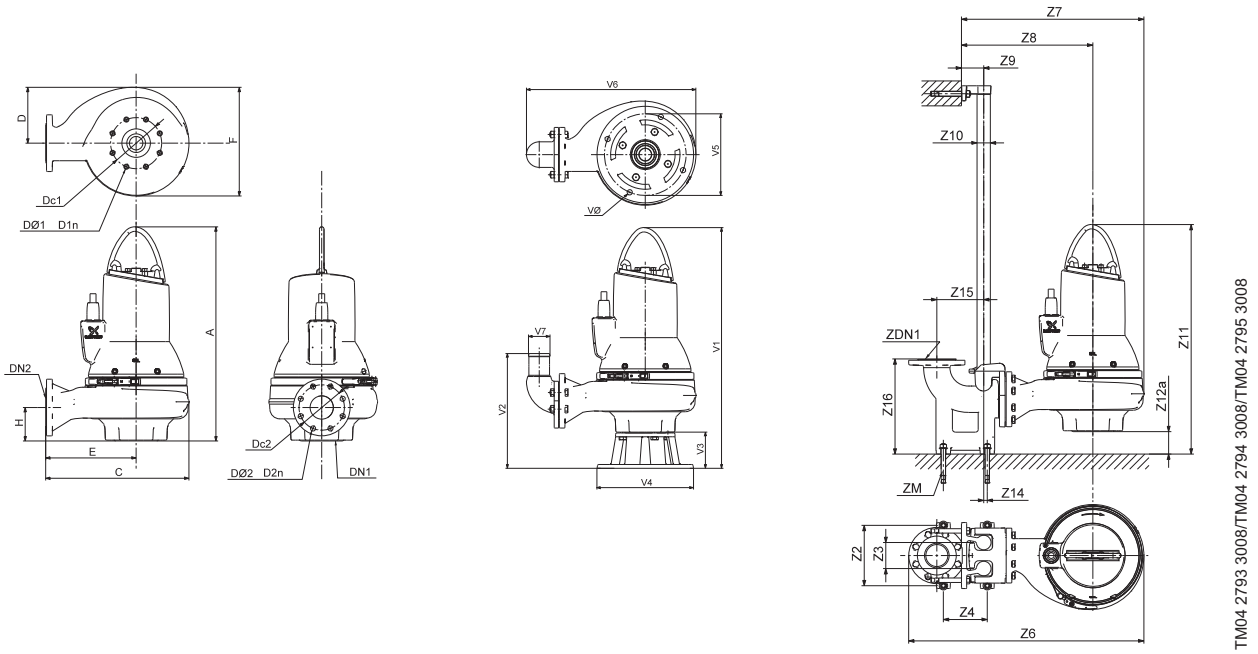
Performance curves SLV.30.A40.30



TM04 7268 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.30



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	27.99	16.02	6.73	9.49	13.250	4.29	3	6	8xM16	4	7.5	8x0.75	233.7
[mm]	711	407	171	241	337	109	80	152.4	8xM16	100	190.50	8x19.1	106.0

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	33.46	24.57	18.03	4.33	2.0"	33.15	5.16	0	8.66	16.26	3	4XM16
[mm]	260	110	220	850	624	458	110	2.0"	842	131	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	31.97	14.53	5.12	13.98	11.81	23.27	3.94	0.71
[mm]	812	369	130	355	300	591	100	18

Electrical data

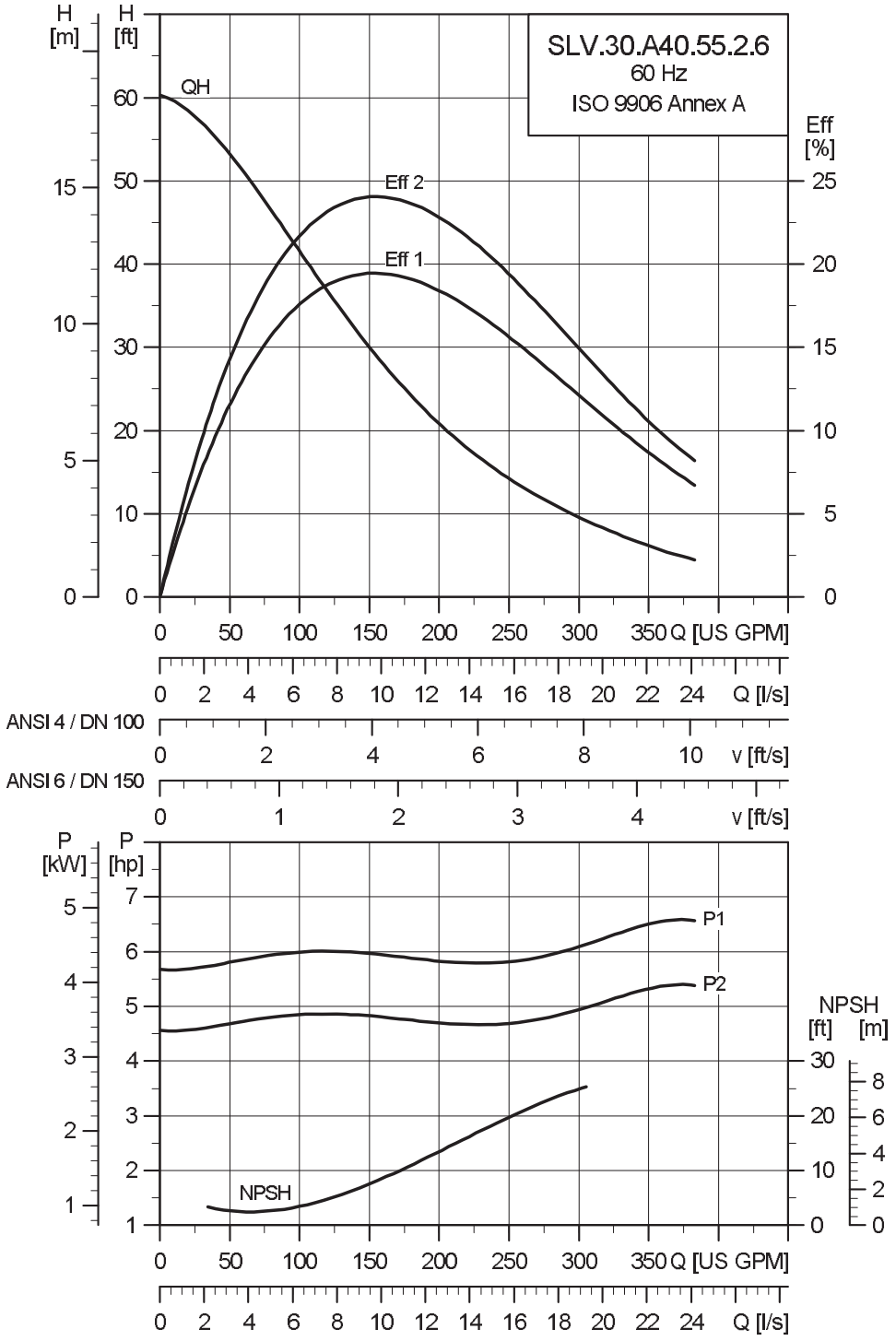
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.30.4.61L	3x575V D	3.6 (2.7)	3.0 (2.2)	4	1760	SD	3.5	29.0	77.5	81.3	82.9	0.62	0.72	0.79	1.15	0.54 (0.02290)	32.45 (44)
SLV.30.A40.30.4.61J	3x208-230V D / 460V Y	3.6 (2.7)	3.0 (2.2)	4	1750	SD	8.7	61.6	78.2	81.5	82.1	0.69	0.78	0.83	1.15	0.54 (0.02290)	26.55 (36)
SLV.30.A40.30.4.61H	3x460V D	3.6 (2.7)	3.0 (2.2)	4	1770	SD	4.5	39.7	76.9	80.7	83.0	0.57	0.69	0.76	1.15	0.54 (0.02290)	35.4 (48)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

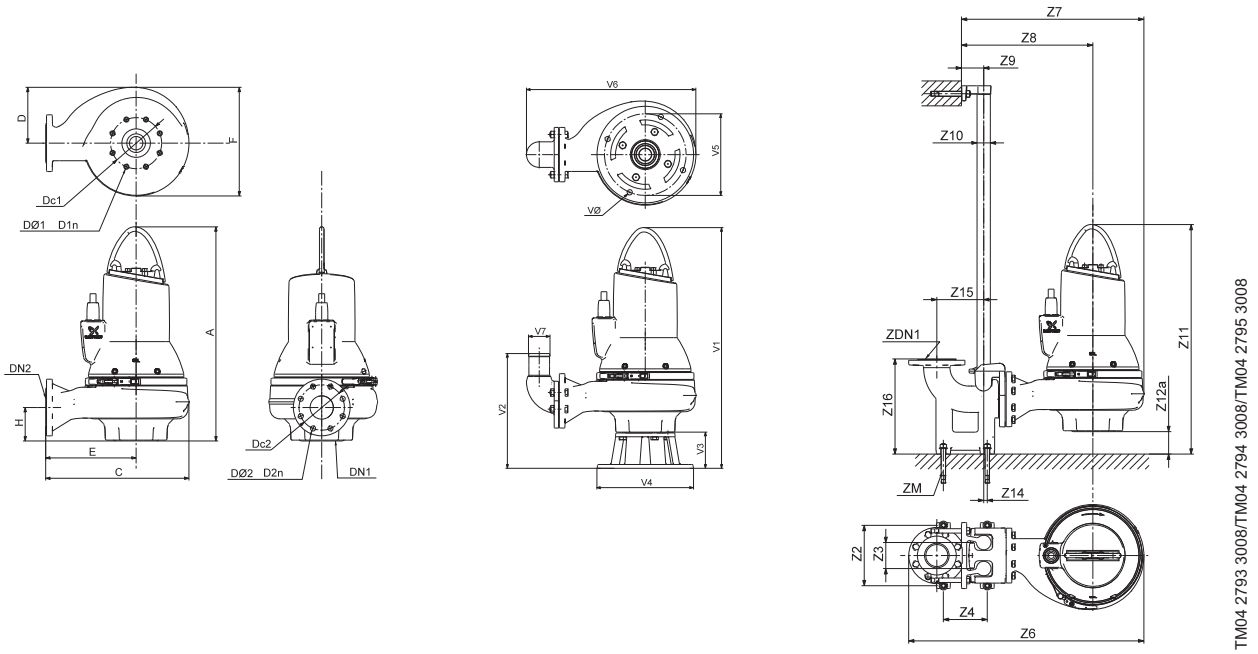
Performance curves SLV.30.A40.55, 2-pole



TM04 7269 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.55, 2-pole



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.45	18.03	7.87	10.51	15.39	4.29	3	6	8xM16	4	7.5	8x0.75	269.8
[mm]	748	458	200	267	391	109	80	152.4	8xM16	100	190.50	8x19.1	122.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	35.47	26.57	19.06	4.33	2.0"	33.74	4.29	0	8.66	16.26	3	4XM16
[mm]	260	110	220	901	675	484	110	2.0"	857	109	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.49	13.94	5.04	12.99	11.02	23.62	3.94	0.71
[mm]	876	354	128	330	280	600	100	18

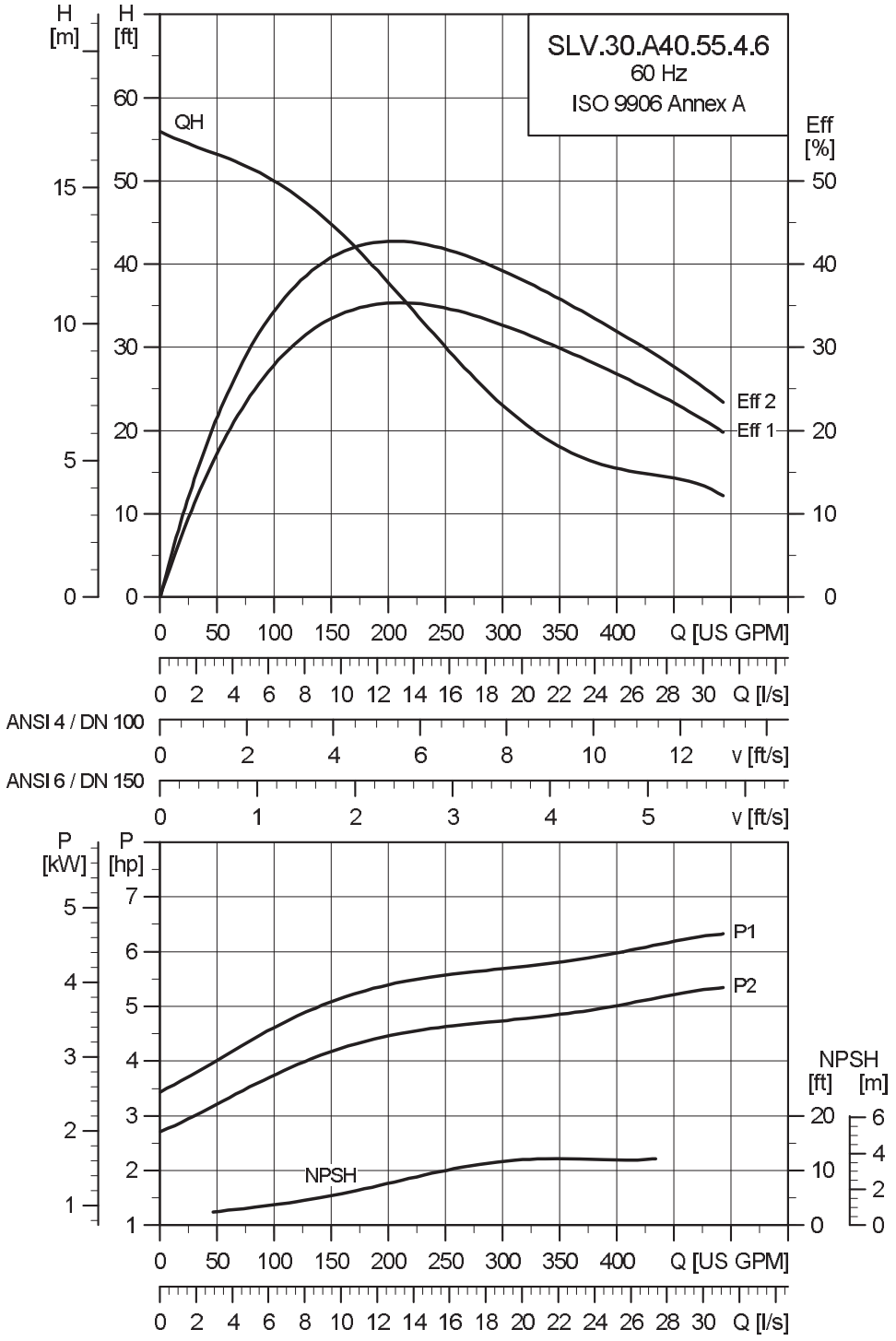
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.55.2.61J	3x208-230V D / 460V Y	6.6 (4.9)	5.5 (4.0)	2	3530	SD	14.8	152	75.0	79.9	81.7	0.78	0.86	0.90	1.15	0.35 (0.0149)	53.84 (73)
SLV.30.A40.55.2.61L	3x575V D	6.6 (4.9)	5.5 (4.0)	2	3535	SD	5.8	70.8	74.1	79.6	82.0	0.71	0.82	0.87	1.15	0.35 (0.0149)	44.99 (61)
SLV.30.A40.55.2.61H	3x460V D	6.6 (4.9)	5.5 (4.0)	2	3540	SD	7.4	96.8	73.6	79.2	82.0	0.68	0.80	0.85	1.15	0.35 (0.0149)	37.62 (51)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

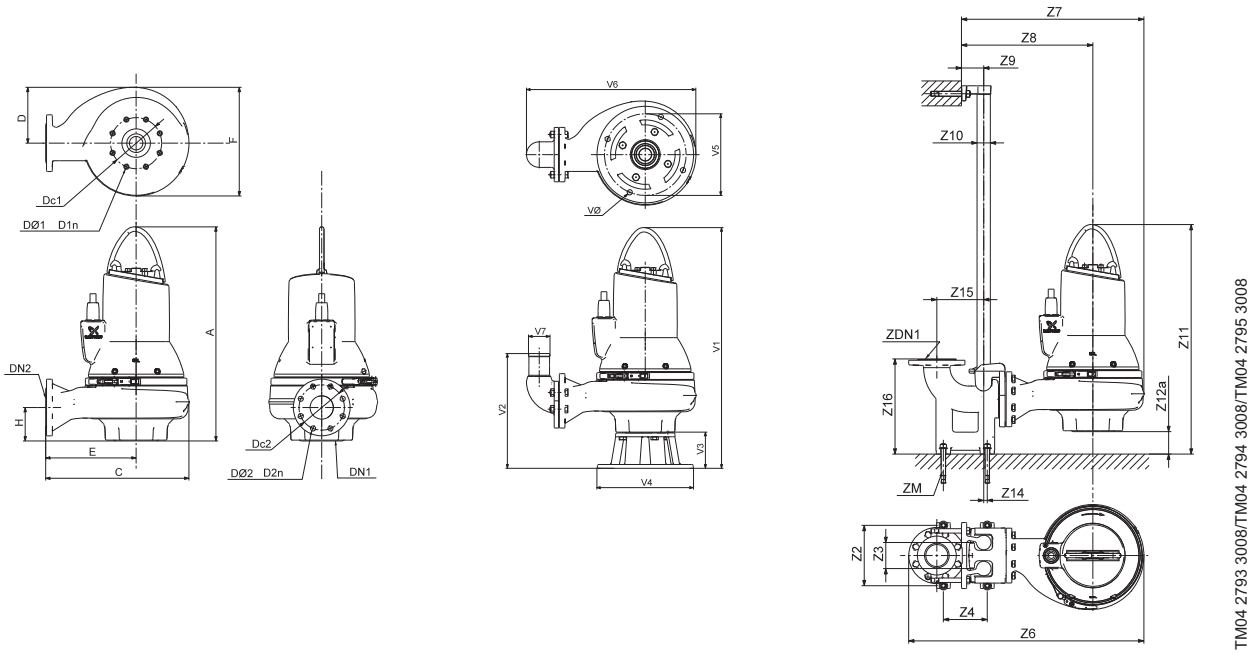
Performance curves SLV.30.A40.55, 4-pole



TM04 7270 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.55, 4-pole



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.29	18.35	7.87	11.26	14.96	4.25	3	6	8xM16	4	7.5	8x0.75	296.5
[mm]	744	466	200	286	380	108	80	152.4	8xM16	100	190.5	8x19.1	134.5

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	35.79	26.89	19.80	4.33	2.0"	34.49	5.20	0	8.66	16.260	3	4XM16
[mm]	260	110	220	909	683	503	110	2.0"	876	132	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.57	15.55	5.12	13.98	11.81	25.47	3.94	0.71
[mm]	878	395	130	355	300	647	100	18

Electrical data

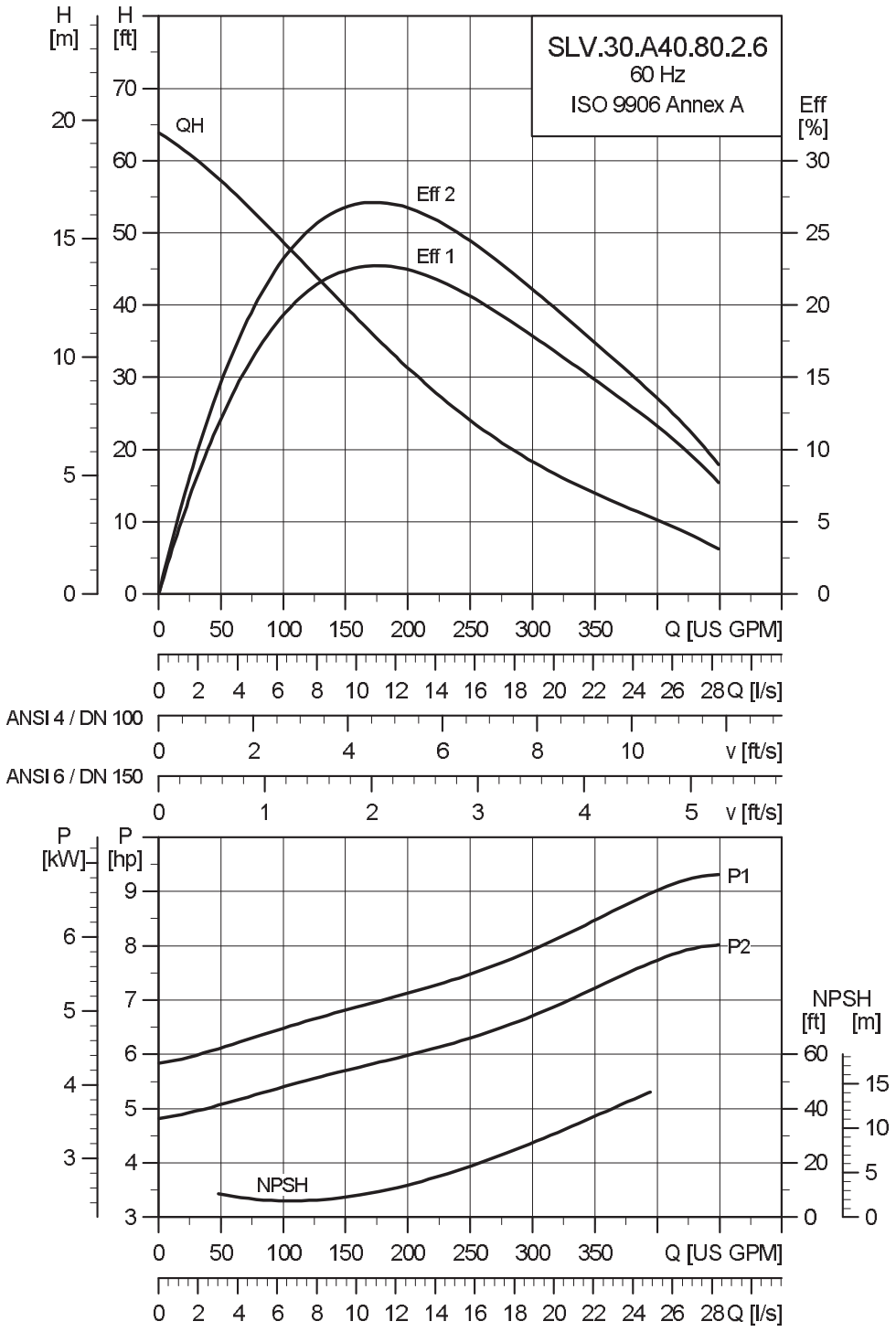
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.55.4.61J	3x208-230V D / 460V Y	6.4 (4.8)	5.5 (4.0)	4	1760	SD	16.1	79.4	79.9	83.3	83.9	0.61	0.74	0.80	1.15	1.28 (0.054)	81.87 (111)
SLV.30.A40.55.4.61L	3x575V D	6.4 (4.8)	5.5 (4.0)	4	1765	SD	6.5	37.5	79.2	83.3	84.7	0.54	0.67	0.75	1.15	1.28 (0.054)	68.59 (93)
SLV.30.A40.55.4.61H	3x460V D	6.4 (4.8)	5.5 (4.0)	4	1770	SD	8.5	51.5	78.3	82.6	84.4	0.50	0.64	0.72	1.15	1.28 (0.054)	74.49 (101)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Performance curves
Technical data

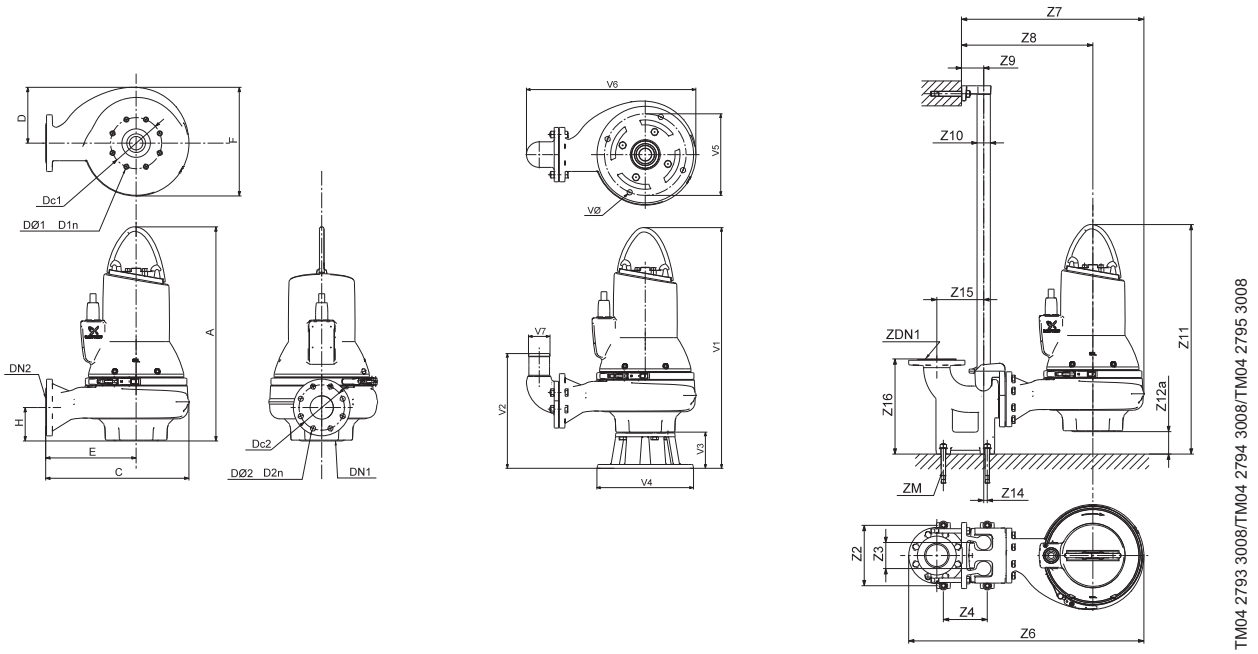
Performance curves SLV.30.A40.80



TM04 7271 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.80



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.57	18.35	7.87	11.26	14.96	4.25	3	6	8xM16	4	7.5	8x0.75	307.5
[mm]	751	466	200	286	380	108	80	152.4	8xM16	100	190.5	8x19.1	139.5

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	35.79	26.89	19.80	4.33	2.0"	34.76	5.20	0	8.66	16.26	3	4XM16
[mm]	260	110	220	909	683	503	110	2.0"	883	132	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.61	13.9	5.04	12.99	11.02	23.54	3.94	0.71
[mm]	879	353	128	330	280	598	100	18

Electrical data

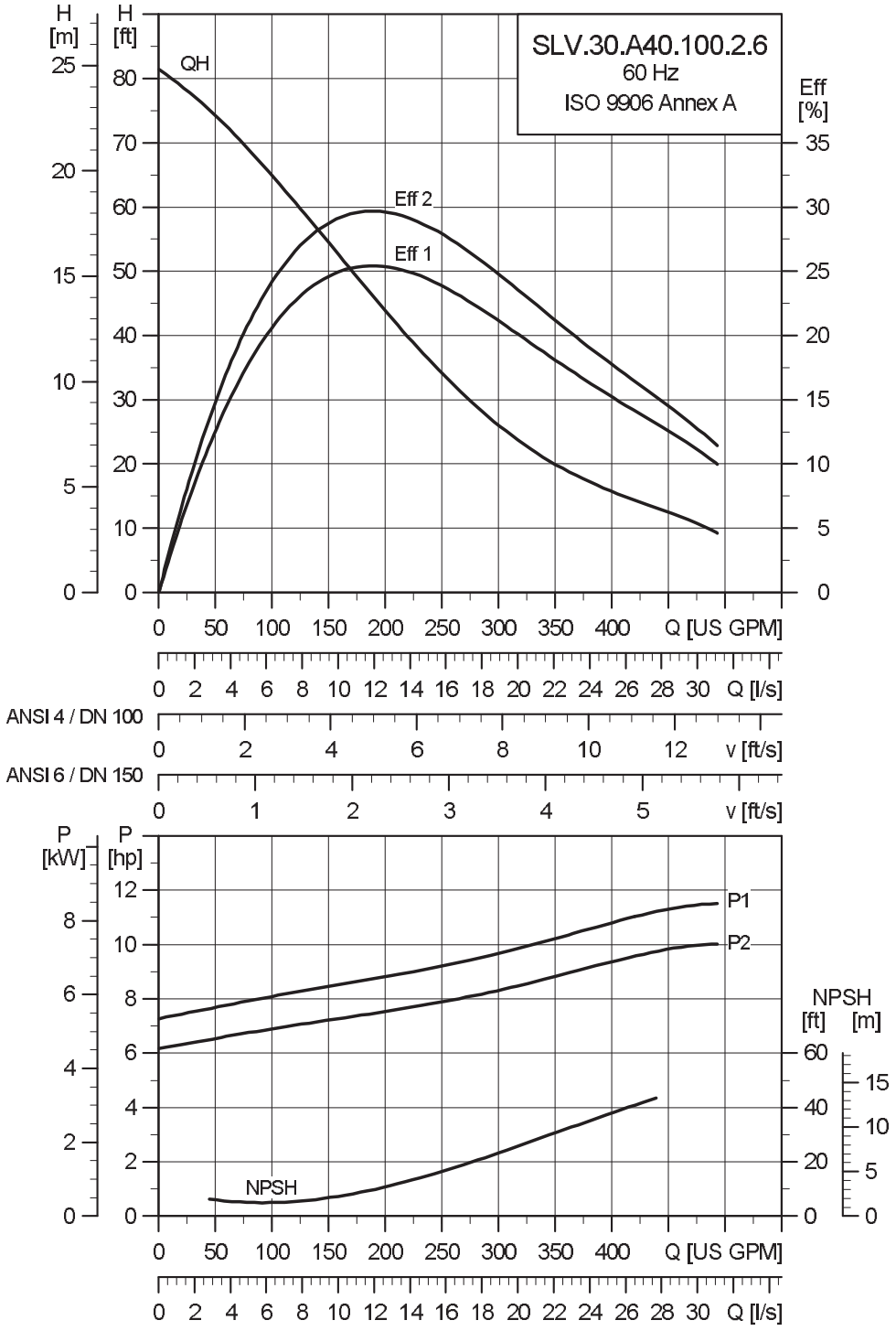
Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.80.2.61J	3x208-230V D / 460V Y	11.7 (8.7)	10.0 (7.5)	2	3520	SD	26.5	191	83.0	85.2	85.4	0.82	0.88	0.90	1.15	0.45 (0.019)	70.81 (96)
SLV.30.A40.80.2.61L	3x575V D	11.7 (8.7)	10.0 (7.5)	2	3525	SD	10.2	89.0	82.9	86.0	86.8	0.76	0.84	0.88	1.15	0.45 (0.019)	59.74 (81)
SLV.30.A40.80.2.61H	3x460V D	11.7 (8.7)	10.0 (7.5)	2	3550	SD	13.2	116	0.8	0.8	0.9	0.73	0.81	0.86	1.15	0.45 (0.019)	65.64 (89)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	B	104 / 40	4-10

Performance curves
Technical data

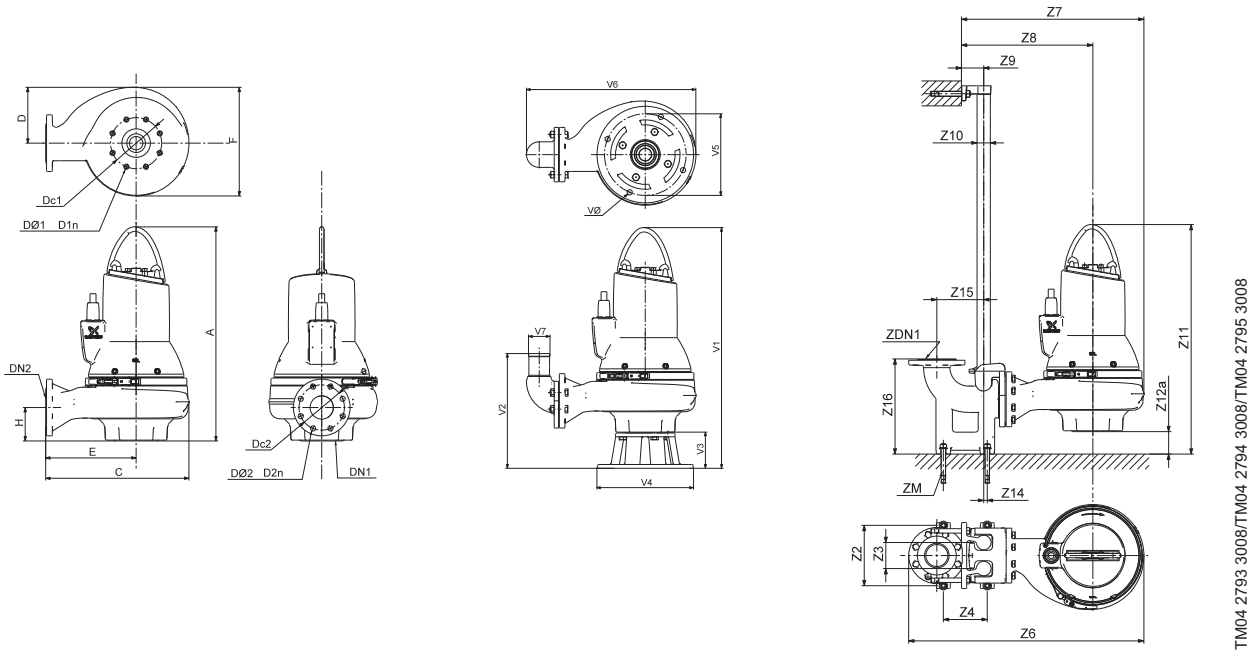
Performance curves SLV.30.A40.100



TM04 7272 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.100



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	30.79	19.65	8.54	11.93	16.26	4.84	3	6	8xM16	4	7.5	8x0.75	308
[mm]	782	499	217	303	413	123	80	152.4	8xM16	100	190.5	8x19.1	139.7

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	37.09	28.19	20.47	4.33	2.0"	35.39	4.61	0	8.66	16.26	3	4XM16
[mm]	260	110	220	942	716	520	110	2.0"	899	117	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.61	13.9	5.04	12.99	11.02	23.54	3.94	0.71
[mm]	879	353	128	330	280	598	100	18

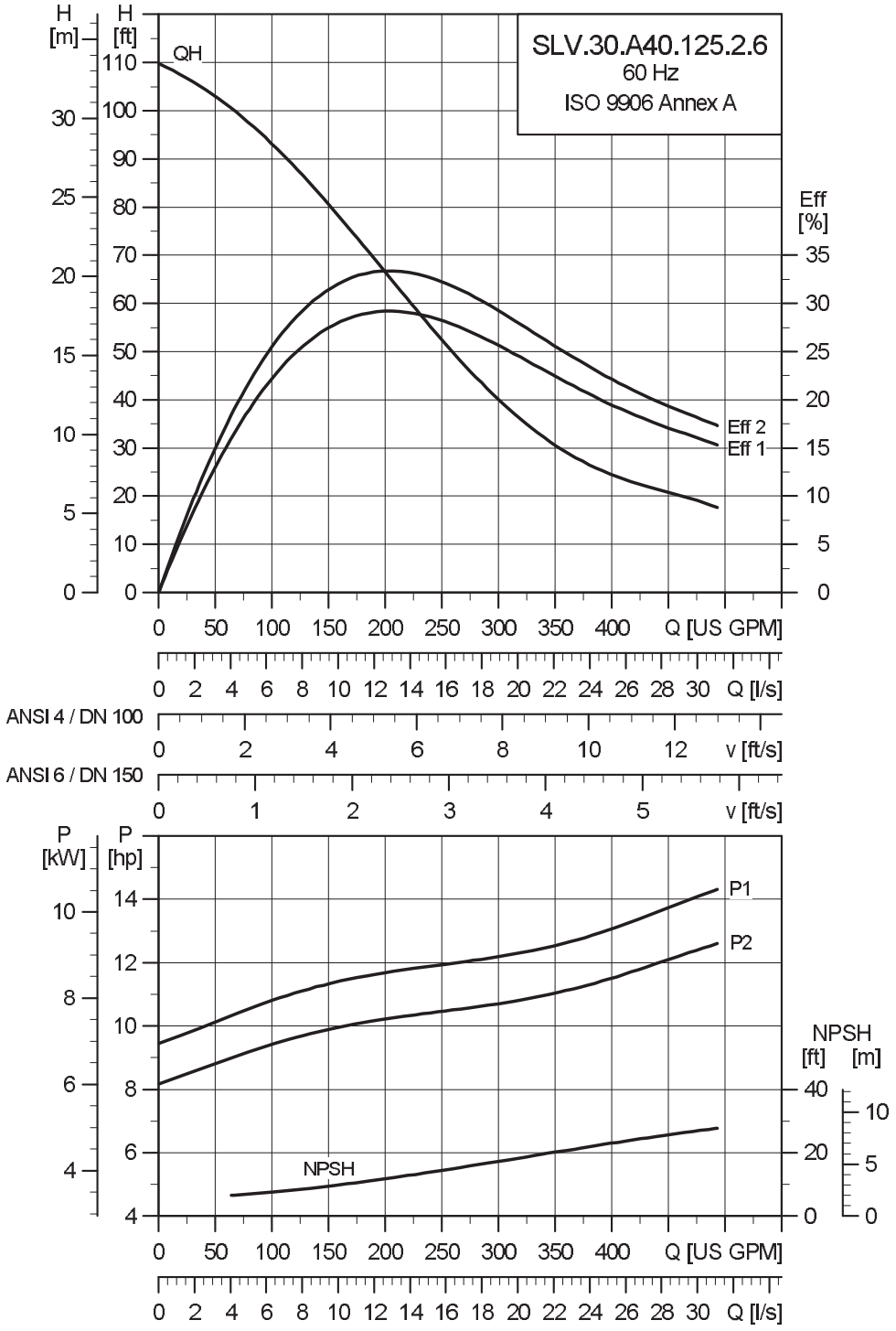
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.100.2.61J	3x208-230V D / 460V Y	11.7 (8.7)	10.0 (7.5)	2	3520	SD	26.5	191	83.0	85.2	85.4	0.82	0.88	0.90	1.15	0.52 (0.02)	70.81 (96)
SLV.30.A40.100.2.61L	3x575V D	11.7 (8.7)	10.0 (7.5)	2	3525	SD	10.2	89.0	82.9	86.0	86.8	0.76	0.84	0.88	1.15	0.52 (0.022)	59.74 (81)
SLV.30.A40.100.2.61H	3x460V D	11.7 (8.7)	10.0 (7.5)	2	3550	SD	13.2	116	0.8	0.8	0.9	0.73	0.81	0.86	1.15	0.52 (0.022)	65.64 (89)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	B	104 / 40	4-10

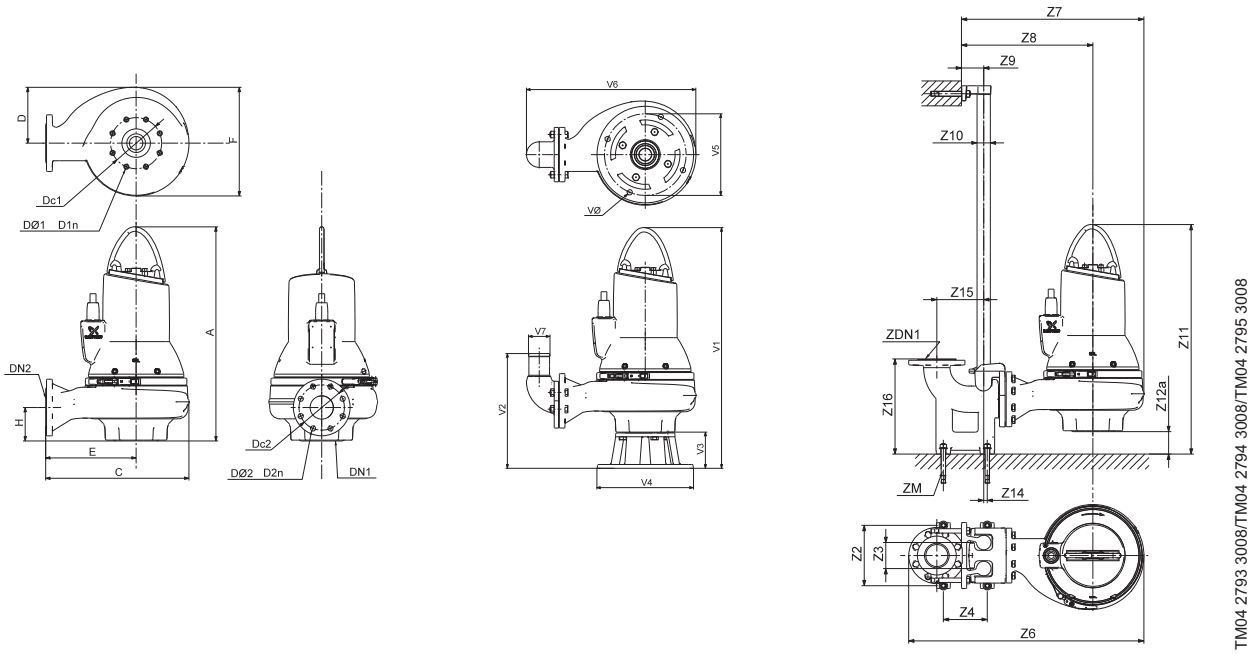
Performance curves SLV.30.A40.125



TM04 7273 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.125



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	30.79	19.65	8.54	11.93	16.260	4.84	3	6	8xM16	4	7.5	8x0.75	401.5
[mm]	782	499	217	303	413	123	80	152.4	8xM16	100	190.50	8x19.1	182.1

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	37.09	28.19	20.47	4.33	2.0"	35.39	4.61	0	8.66	16.260	3	4XM16
[mm]	260	110	220	942	716	520	110	2.0"	899	117	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	35.83	14.49	5.04	12.99	11.02	25.24	3.94	0.71
[mm]	910	368	128	330	280	641	100	18

Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos φ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.125.2.61J	3x208-230V D / 460V Y	17 (12.7)	15 (11)	2	3545	SD	38.2	251	85.6	87.3	87.0	0.84	0.89	0.90	1.15	1.21 (0.051)	79.66 (108)
SLV.30.A40.125.2.61L	3x575V D	17 (12.7)	15 (11)	2	3550	SD	14.5	115	85.8	88.1	88.5	0.80	0.86	0.89	1.15	1.21 (0.051)	67.12 (91)
SLV.30.A40.125.2.61H	3x460V D	17 (12.7)	15 (11)	2	3550	SD	18.2	157	85.9	88.1	88.7	0.77	0.85	0.88	1.15	1.21 (0.051)	73.02 (99)

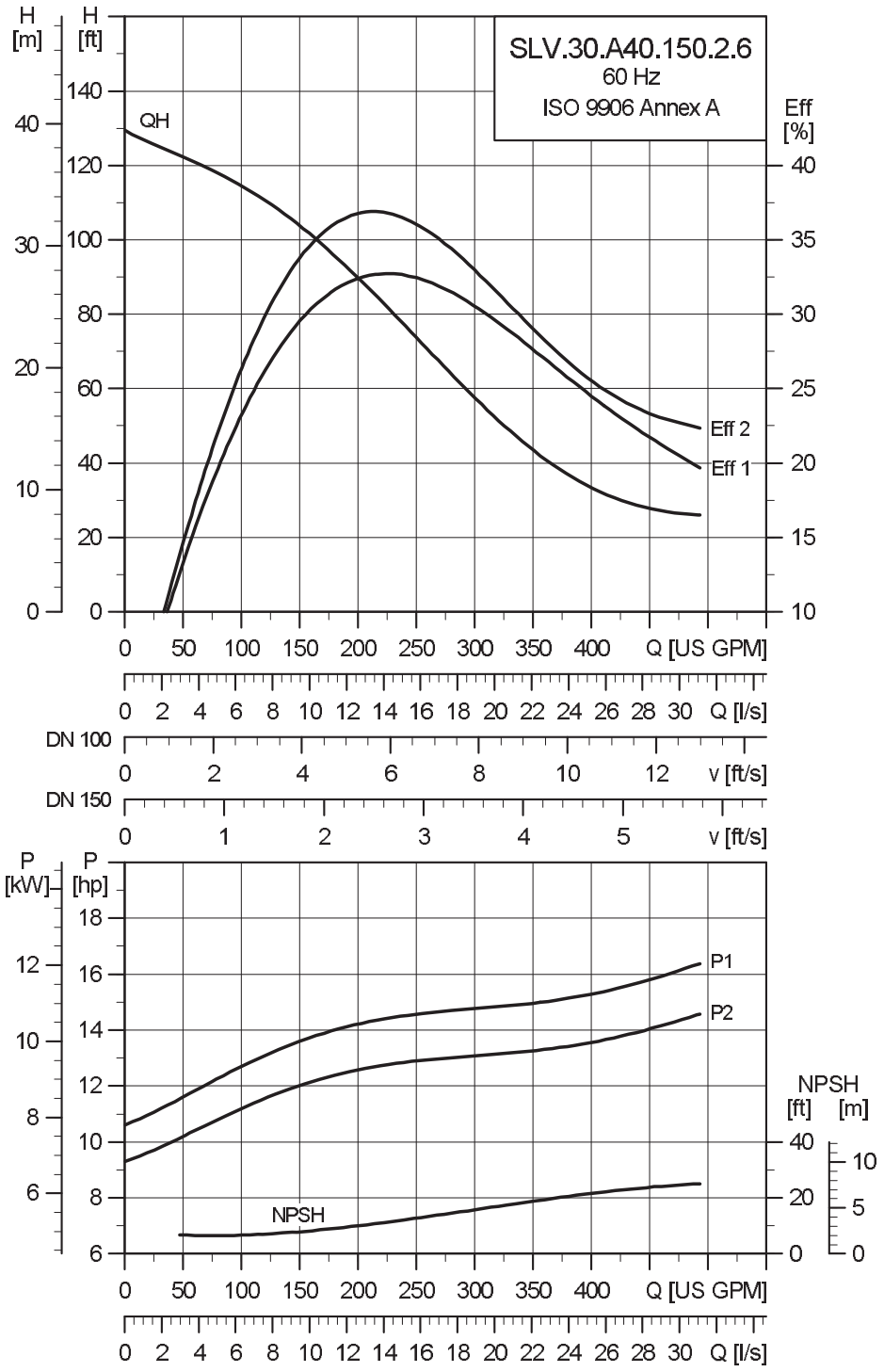
Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A (B)*	104 / 40	4-10

*SLV.30.A40.125.2.61H are temperature rise class B

Performance curves
Technical data

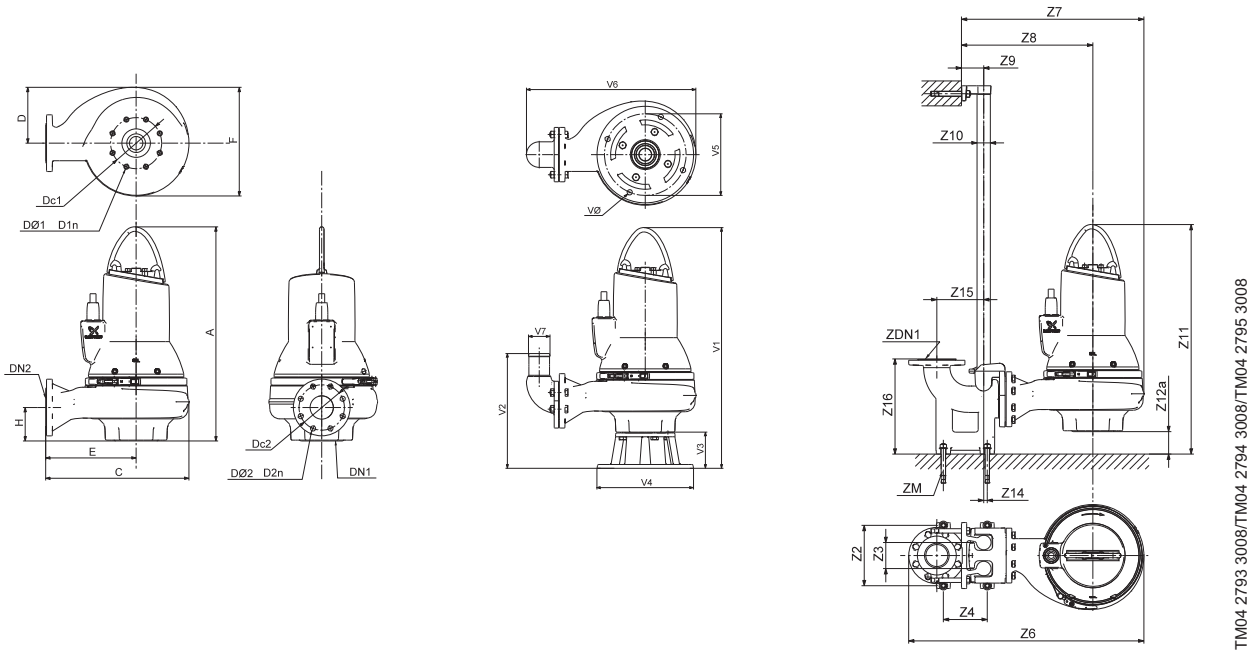
Performance curves SLV.30.A40.150



TM04 7274 1810

Performance curves
Technical data

Dimensional sketches SLV.30.A40.150



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	30.79	19.65	8.54	11.93	16.26	4.84	3	6	8xM16	4	7.5	8x0.75	402.1
[mm]	782	499	217	303	413	123	80	152.4	8xM16	100	190.50	8x19.1	182.4

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	37.09	28.19	20.47	4.33	2.0"	35.39	4.61	0.00	8.66	16.260	3	4XM16
[mm]	260	110	220	942	716	520	110	2.0"	899	117	0	220	413	80	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	35.83	14.49	5.04	12.99	11.02	25.24	3.94	0.71
[mm]	910	368	128	330	280	641	100	18

Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos ϕ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.30.A40.150.2.61J	3x208-230V D / 460V Y	17 (12.7)	15 (11)	2	3545	SD	38.2	251	85.6	87.3	87.0	0.84	0.89	0.90	1.15	1.26 (0.053)	79.66 (108)
SLV.30.A40.150.2.61L	3x575V D	17 (12.7)	15 (11)	2	3550	SD	14.5	115	85.8	88.1	88.5	0.80	0.86	0.89	1.15	1.26 (0.053)	67.12 (91)
SLV.30.A40.150.2.61H	3x460V D	17 (12.7)	15 (11)	2	3550	SD	18.2	157	85.9	88.1	88.7	0.77	0.85	0.88	1.15	1.26 (0.053)	73.02 (99)

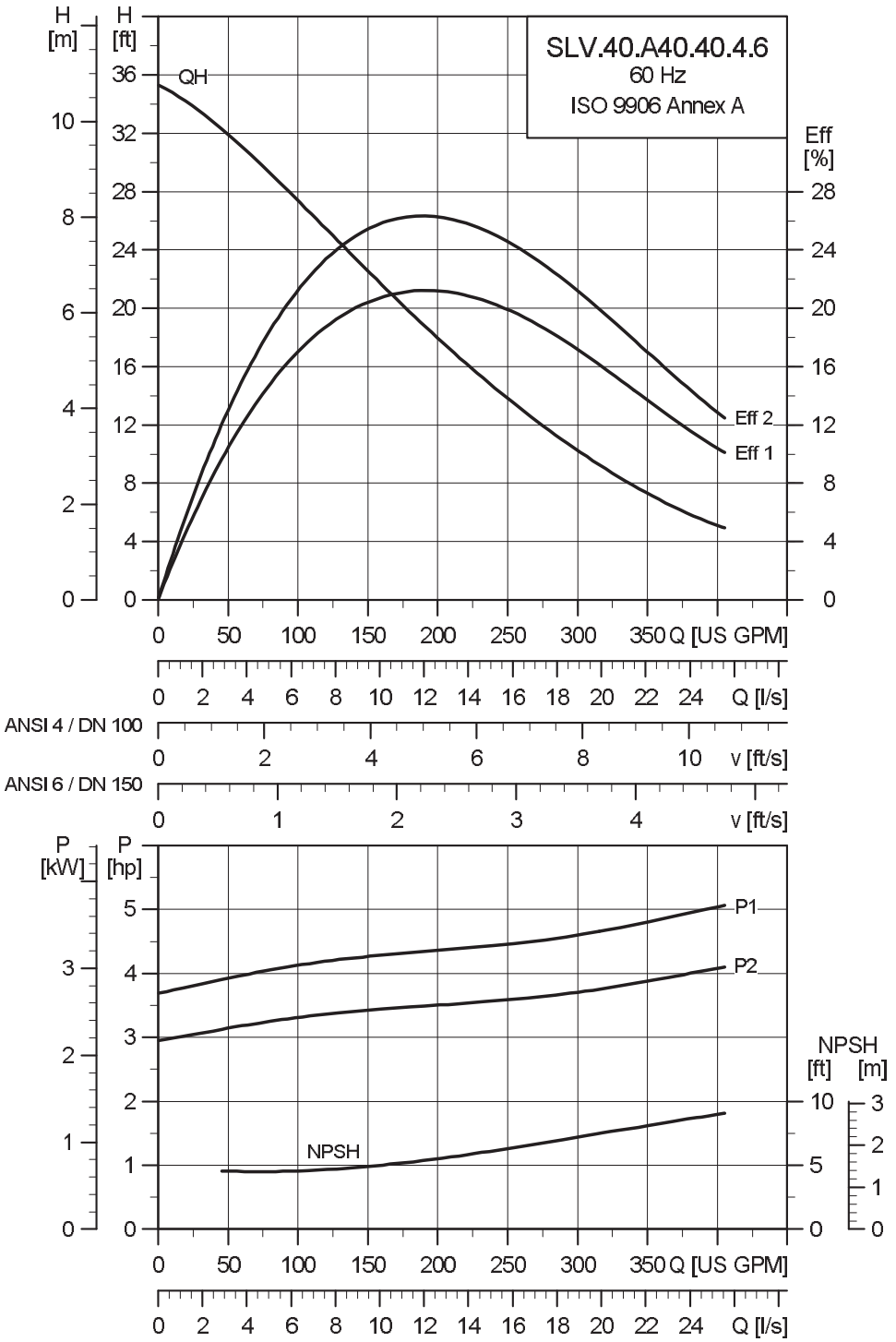
Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	3 / 80	10	20	65 / 20	IP68	H	A (B)*	104 / 40	4-10

*SLV.30.A40.150.2.61H are temperature rise class B

SLV.40.A40

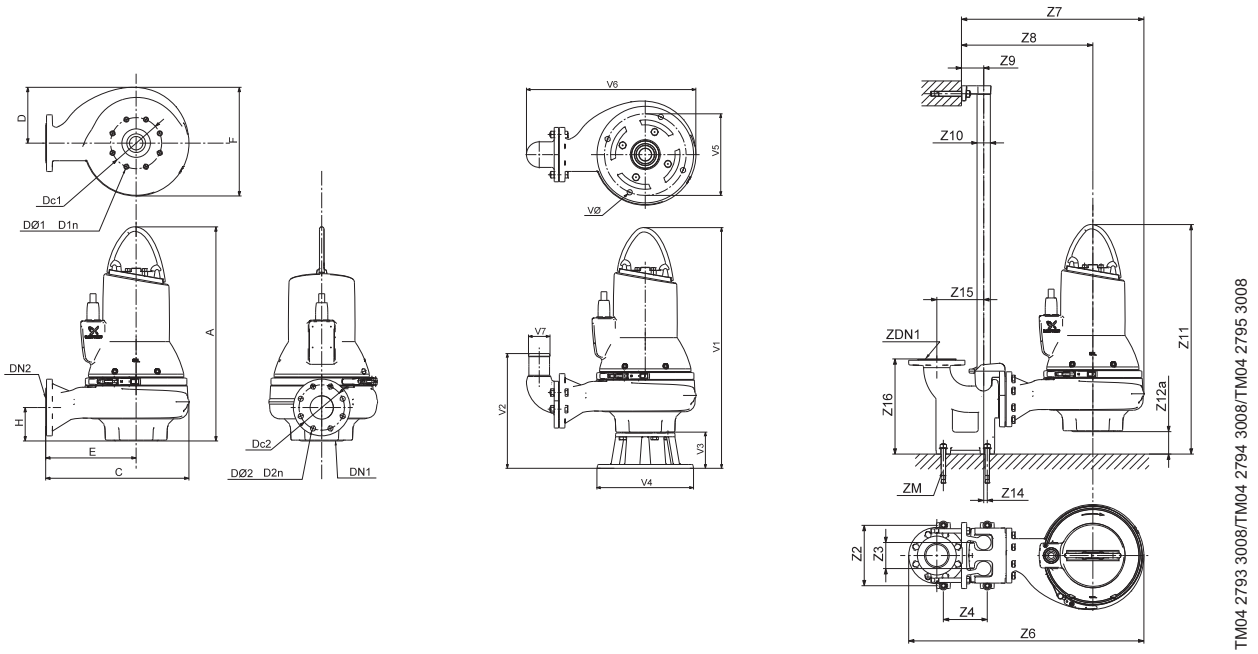
Performance curves SLV.40.A40.40



TM04 7275 1810

Performance curves
Technical data

Dimensional sketches SLV.40.A40.40



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.02	17.99	7.87	10.91	14.96	5.28	4	7.5	8xM16	4	7.5	8x0.75	274.5
[mm]	737	457	200	277	380	134	100	190.5	8xM16	100	190.5	8x19.1	124.5

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	35.43	26.54	19.45	4.33	2.0"	33.23	4.17	0	8.66	16.26	4	4XM16
[mm]	260	110	220	900	674	494	110	2.0"	844	106	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	34.13	16.18	5.12	13.98	11.81	23.58	3.94	0.75
[mm]	867	411	130	355	300	599	100	19

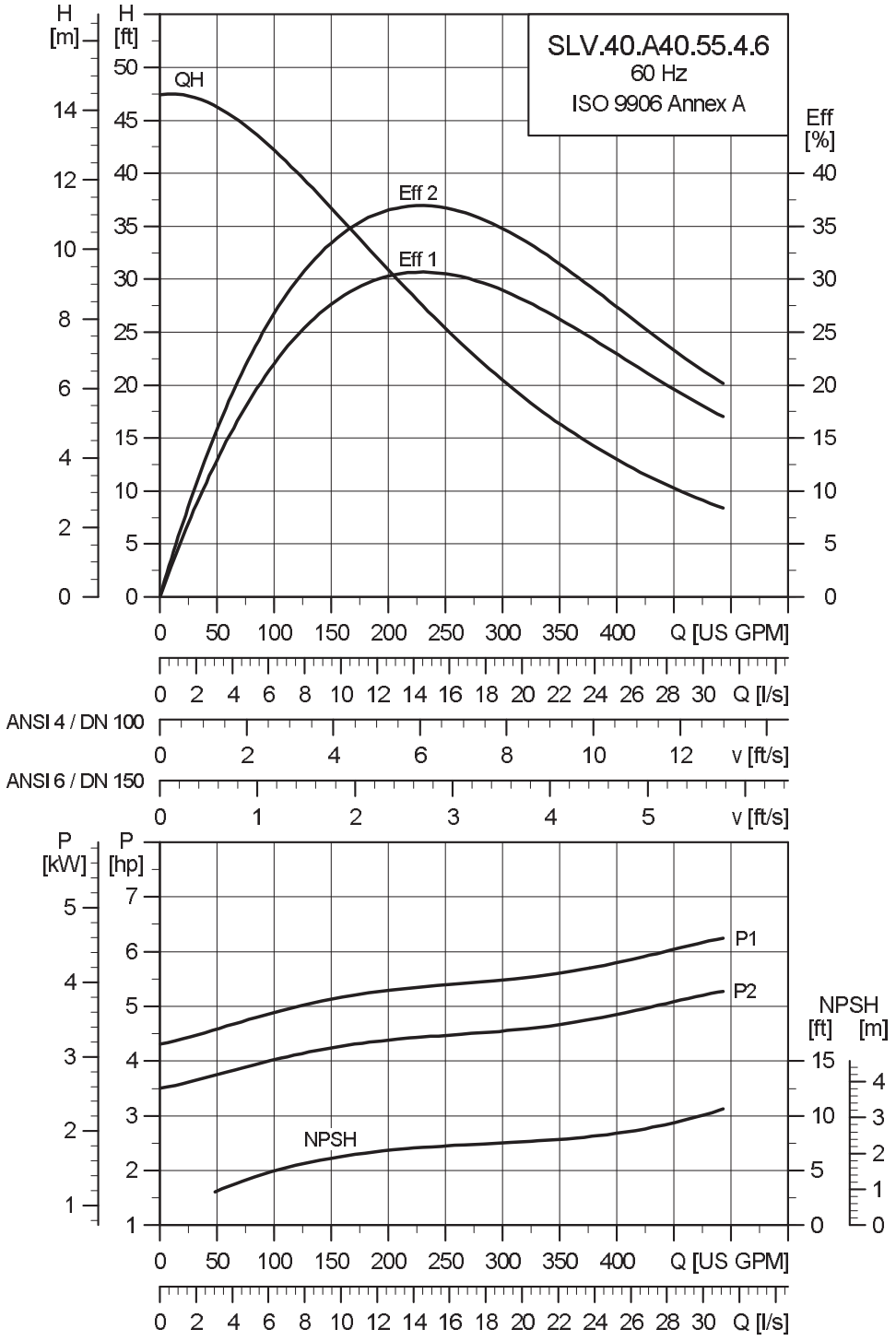
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.40.A40.40.4.61J	3x208-230V D / 460V Y	5.0 (3.7)	4.0 (3.0)	4	1760	SD	12.0	79.5	76.0	79.8	80.2	0.69	0.80	0.84	1.15	1.11 (0.0469)	38.35 (52)
SLV.40.A40.40.4.61L	3x575V D	5.0 (3.7)	4.0 (3.0)	4	1750	SD	4.8	37.5	75.0	79.4	81.4	0.61	0.72	0.80	1.15	1.11 (0.0469)	46.47 (63)
SLV.40.A40.40.4.61H	3x460V D	5.0 (3.7)	4.0 (3.0)	4	1760	SD	6.2	51.5	74.6	79.7	81.5	0.56	0.68	0.77	1.15	1.11 (0.0469)	50.89 (69)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

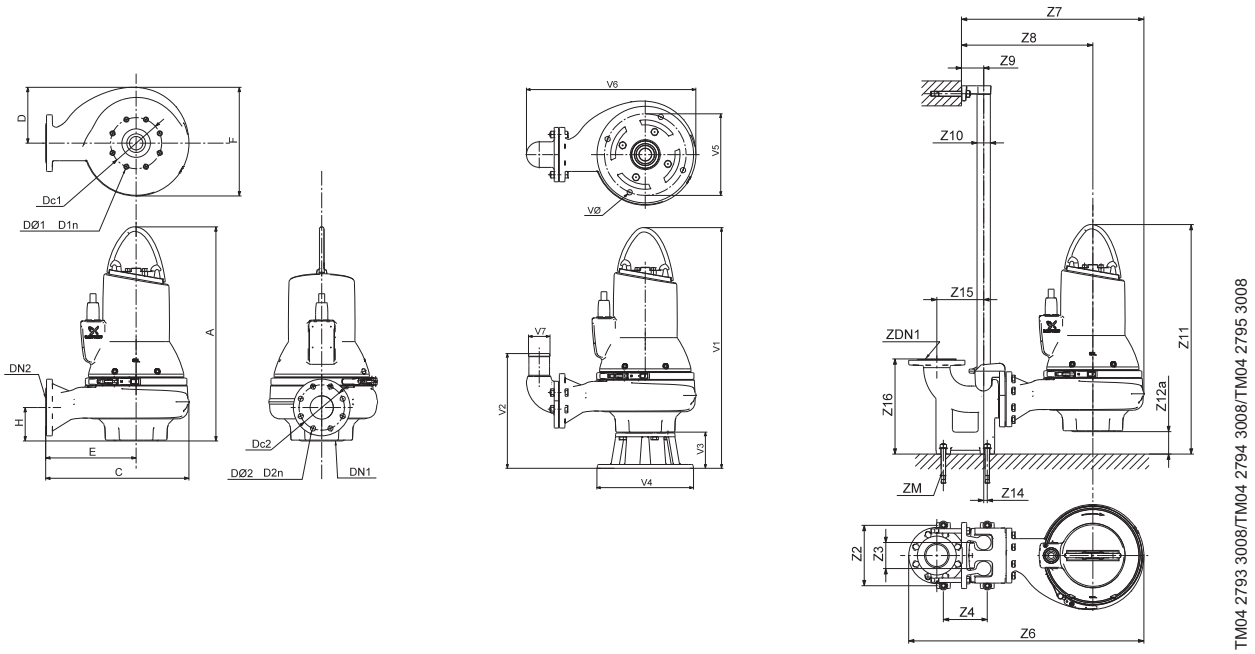
Performance curves SLV.40.A40.55



TM04 7276 1810

Performance curves
Technical data

Dimensional sketches SLV.40.A40.55



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	29.88	17.99	7.87	10.91	14.96	5.28	4	7.5	8xM16	4	7.5	8x0.75	283.7
[mm]	759	457	200	277	380	134	100	190.5	8xM16	100	190.5	8x19.1	128.7

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	35.43	26.54	19.45	4.33	2.0"	34.09	4.17	0	8.66	16.260	4	4XM16
[mm]	260	110	220	900	674	494	110	2.0"	866	106	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	35	16.18	5.12	13.98	11.81	23.58	3.94	0.75
[mm]	889	411	130	355	300	599	100	19

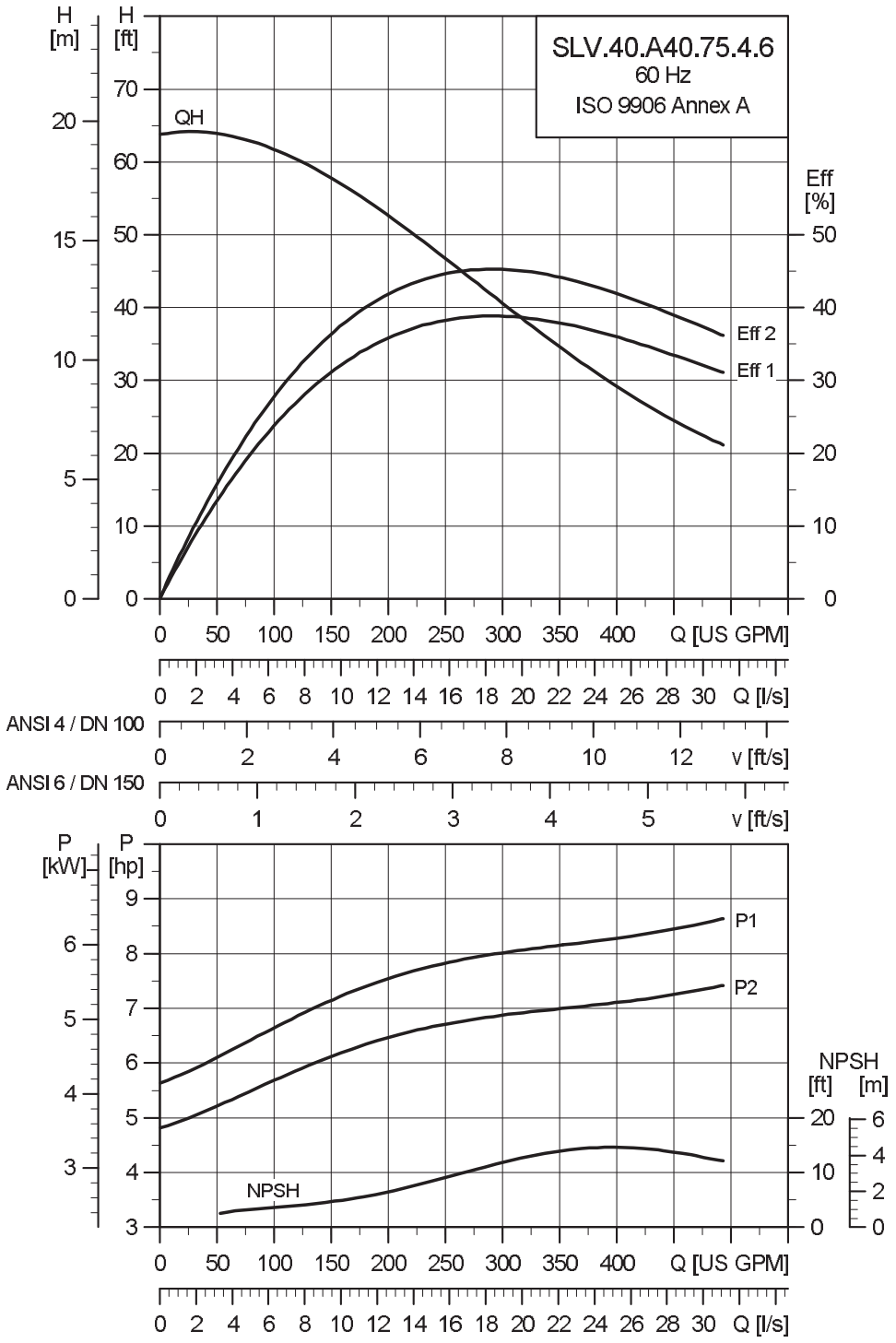
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.40.A40.55.4.61J	3x208-230V D / 460V Y	6.4 (4.8)	5.5 (4.0)	4	1760	SD	16.1	79.4	79.9	83.3	83.9	0.61	0.74	0.80	1.15	1.31 (0.055)	81.87 (111)
SLV.40.A40.55.4.61L	3x575V D	6.4 (4.8)	5.5 (4.0)	4	1765	SD	6.5	37.5	79.2	83.3	84.7	0.54	0.67	0.75	1.15	1.31 (0.055)	68.59 (93)
SLV.40.A40.55.4.61H	3x460V D	6.4 (4.8)	5.5 (4.0)	4	1770	SD	8.5	51.5	78.3	82.6	84.4	0.50	0.64	0.72	1.15	1.31 (0.055)	74.49 (101)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

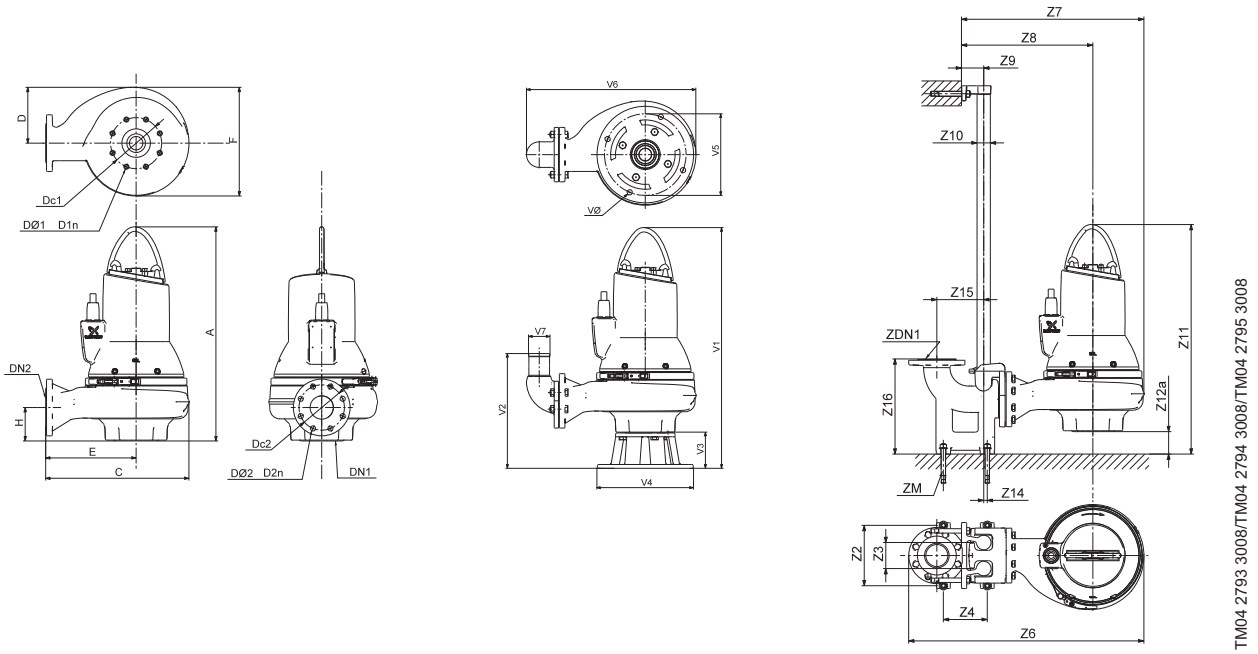
Performance curves SLV.40.A40.75



TM04 7277 1810

Performance curves
Technical data

Dimensional sketches SLV.40.A40.75



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	30.16	17.99	7.87	10.91	14.96	5.28	4	7.5	8xM16	4	7.5	8x0.75	297.8
[mm]	766	457	200	277	380	134	100	190.5	8xM16	100	190.50	8x19.1	135.1

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	35.43	26.54	19.45	4.33	2.0"	34.37	4.17	0	8.66	16.260	4	4XM16
[mm]	260	110	220	900	674	494	110	2.0"	873	106	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	35.28	16.18	5.12	13.98	11.81	23.58	3.94	0.75
[mm]	896	411	130	355	300	599	100	19

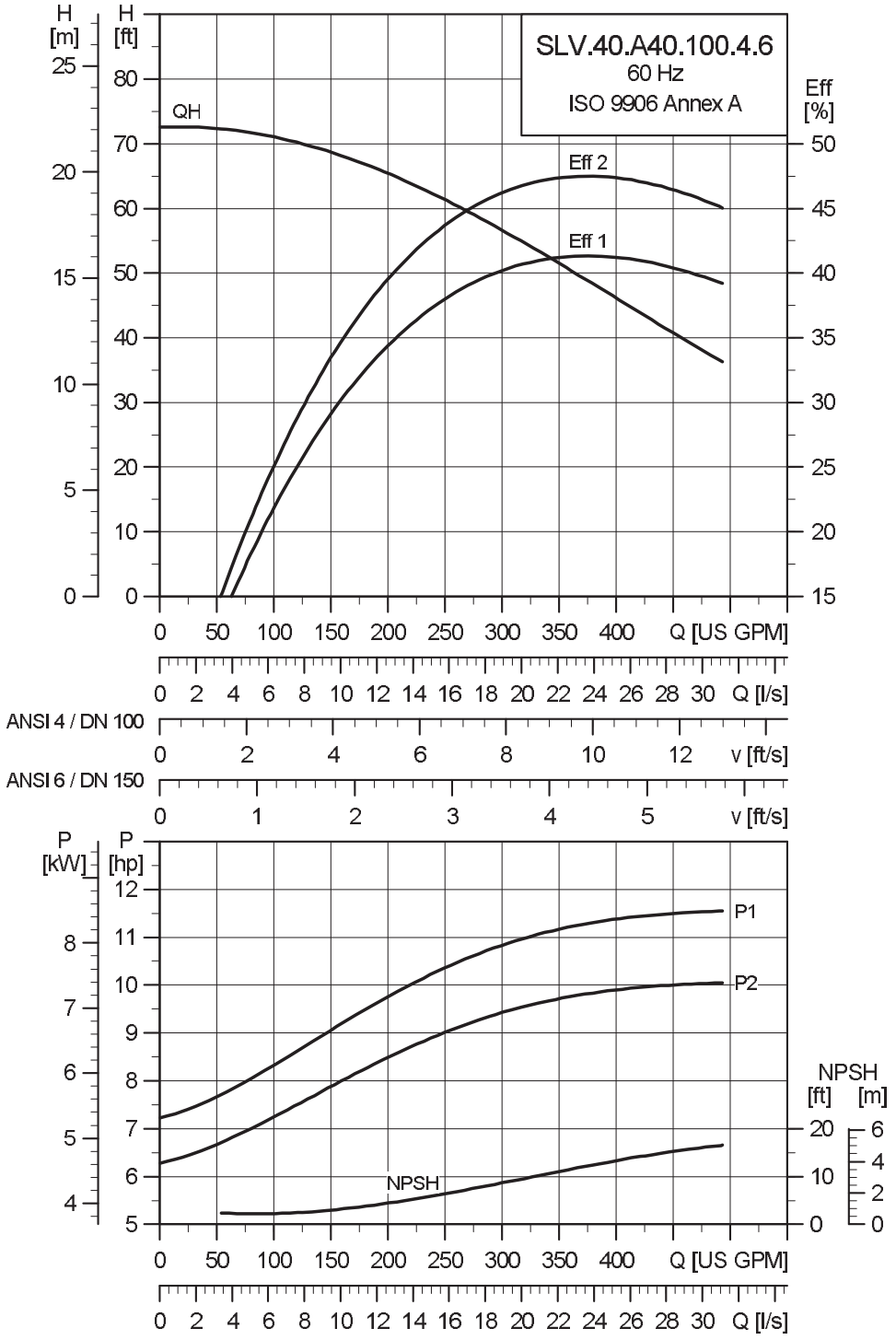
Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos ϕ 1/2	Cos ϕ 3/4	Cos ϕ 1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.40.A40.75.4.61J	3x208-230V D / 460V Y	8.6 (6.4)	7.5 (5.5)	4	1760	SD	20.0	126	83.2	85.6	85.8	0.77	0.84	0.87	1.15	1.58 (0.06656)	90.72 (123)
SLV.40.A40.75.4.61L	3x575V D	8.6 (6.4)	7.5 (5.5)	4	1765	SD	7.8	59.3	83.5	86.6	87.3	0.69	0.79	0.84	1.15	1.58 (0.06656)	75.97 (103)
SLV.40.A40.75.4.61H	3x460V D	8.6 (6.4)	7.5 (5.5)	4	1770	SD	10.0	81.4	82.9	86.3	87.2	0.65	0.75	0.81	1.15	1.58 (0.06656)	83.34 (113)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

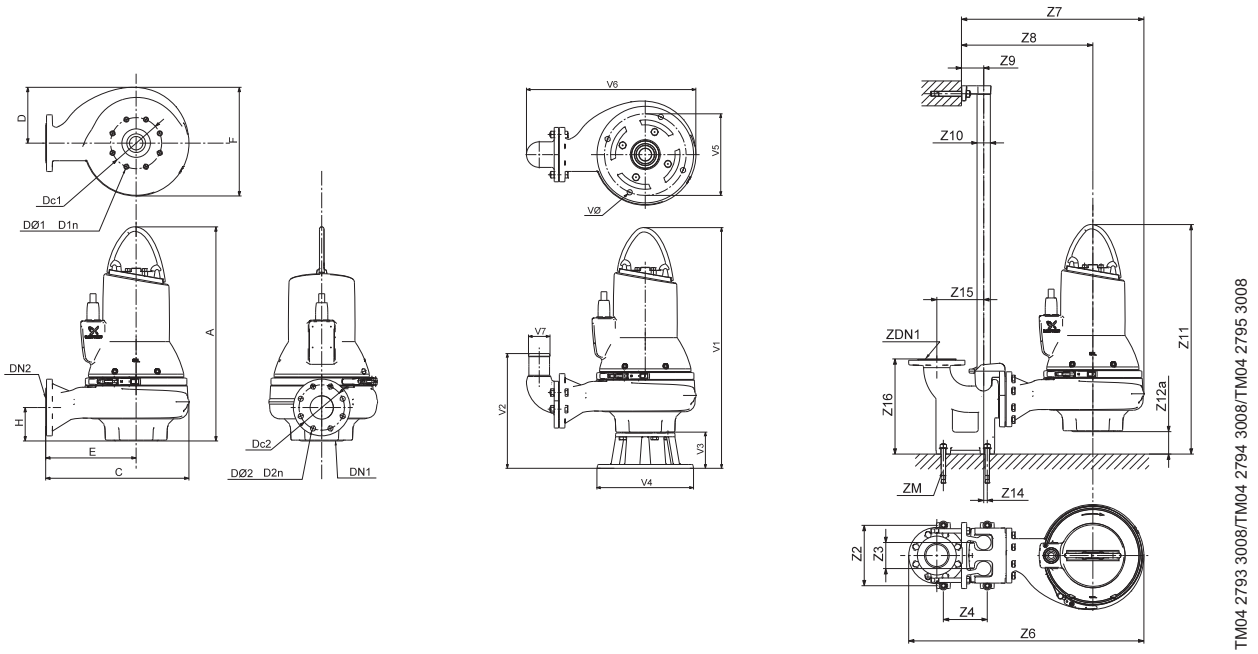
Performance curves SLV.40.A40.100



TM04 7278 1810

Performance curves
Technical data

Dimensional sketches SLV.40.A40.100



	A	C	D	E	F	H	DN1	Dc1	DØ1 D1n	DN2	Dc2	DØ2 D2n	Weight [lb/kg]
[inch]	33.15	19.29	8.54	11.57	16.26	5.71	4	7.5	8xM16	4	7.5	8x0.75	391.5
[mm]	842	490	217	294	413	145	100	190.5	8xM16	100	190.5	8x19.1	177.6

	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z14	Z15	Z16	ZDN1	ZM
[inch]	10.24	4.33	8.66	36.73	27.83	20.12	4.33	2.0"	36.93	3.74	0	8.66	16.26	4	4XM16
[mm]	260	110	220	933	707	511	110	2.0"	938	95	0	220	413	100	4XM16

	V1	V2	V3	V4	V5	V6	V7	VØ
[inch]	38.27	16.61	5.12	13.98	11.81	24.88	3.94	0.75
[mm]	972	422	130	355	300	632	100	19

Electrical data

Pump type	Voltage [V]	P1 [kW]	P2 [kW]	No of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos φ 1/2	3/4	1/1	SF	Moment of inertia [lb*ft^2 (kgm^2)]	Breakdown torque M_{max} [lbf*ft (Nm)]
SLV.40.A40.100.4.61J	3x208-230V D / 460V Y	11.5 (8.6)	10.0 (7.5)	4	1760	SD	26.6	174	85.6	86.9	86.4	0.80	0.86	0.89	1.15	1.92 (0.081)	75.23 (102)
SLV.40.A40.100.4.61L	3x575V D	11.5 (8.6)	10.0 (7.5)	4	1760	SD	10.2	81.2	85.3	87.4	87.9	0.74	0.83	0.86	1.15	1.92 (0.081)	104.73 (142)
SLV.40.A40.100.4.61H	3x460V D	11.5 (8.6)	10.0 (7.5)	4	1765	SD	13.0	111	85.0	87.6	88.1	0.70	0.80	0.85	1.15	1.92 (0.081)	114.32 (155)

Pump data

Impeller type	Max. solids size [Inch / mm]	Pump housing pressure PN	Max . number of starts per hour	Max. installation depth [Feet / m]	Enclosure class	Insulation class	Temperature rise class	Max. liquid temperature [°F / °C]	pH
Vortex	4 / 100	10	20	65 / 20	IP68	H	A	104 / 40	4-10

Accessories

Installation systems

No.	Picture	Description	Dimensions	SL1.20.A25	SL1.20.A30	SL1.30.A30	SL1.30.A40	SL1.40.A40	SL1.40.A60	SLV.25.A25	SLV.25.A30	SLV.30.A30	SLV.30.A40	Product number
1	 TM04 4490 1409	Complete auto-coupling system, including guide claw, base plate and upper guide rail bracket. Cast iron, epoxy-coated. With bolts, nuts and gaskets.	DN65 2.5"	•						•				97626234
			DN80 3"		•	•					•	•	•	97626236
			DN80/DN65 3"/2.5"	•						•				97626237
			DN100 4"			•	•							97626238
			DN100/DN80 4"/3"		•	•					•	•	•	97626239
			DN150 6"						•					97626240
			DN150/DN100 6"/4"				•	•						97626241
			DN150/125 6"/5"											97626242
			DN200 8"											97506541
			DN250 10"											97510048
			DN300 12"											97510049
			DN500 20"											97510050
			DN600 24"											97510081
2		Ring stand with flanged 90 ° elbow and hose connection. Cast iron, epoxy-coated. With bolts, nuts, gaskets and anchor bolts.	DN 65 / DN 65 / 2 1/2"	•										97632115
			DN 65 / DN 80 / 3"		•									97632165
			DN 80 / DN 65 / 2 1/2"							•				97632219
			DN 80 / DN 80 / 3"								•	•	•	97632227
			DN80 / DN100 / 4"											97632281
			DN 100 / DN 80 / 3"			•								97632229
			DN 100 / DN 100 / 4"				•							97632278
			DN 150 / DN 100 / 4", Galvanized steel					•						97632370
			DN 150 / DN 150 / 6", Galvanized steel						•					97632372
			DN80/DN150/ 6"											97632374
			DN125/DN150/ 6"											97632375
	TM04 6086 4809	Ring stand with flanged 90 ° elbow and outside thread connection. Cast iron, epoxy-coated. With bolts, nuts, gaskets and anchor bolts.	DN 65 / DN 65 / R 2 1/2	•										97632119
			DN 65 / DN 80 / R 3		•									97632166
			DN 80 / DN 65 / R 2 1/2"							•				97632226
			DN 80 / DN 80 / R 3								•	•	•	97632228
			DN80/DN100/R 4											97632283
			DN 100 / DN 80 / R 3			•								97632241
			DN 100 / DN 100 / R 4				•							97632280
			DN 150 / DN 100 / R 4, Galvanised steel					•						97632371
			DN 150/DN 150/R 6, Galvanised steel						•					97632373

Accessories

Other accessories

No.	Picture	Description	Dimensions	SL1.20.A25	SL1.20.A30	SL1.30.A30	SL1.30.A40	SL1.40.A40	SL1.40.A60	SLV.25.A25	SLV.25.A30	SLV.30.A30	SLV.30.A40	SLV.40.A40	Product number
3	 TM01 7177	Galvanised-steel lifting chain with lifting link and safety hook. With certificates.	13.1 ft (4 m)	•	•	•	•	•	•	•	•	•	•	•	96735550
			19.7 ft (6 m)	•	•	•	•	•	•	•	•	•	•	•	96735553
			26.3 ft (8 m)	•	•	•	•	•	•	•	•	•	•	•	96735554
			32.8 ft (10 m)	•	•	•	•	•	•	•	•	•	•	•	96735556
			39.4 ft (12 m)	•	•	•	•	•	•	•	•	•	•	•	96735557
		Stainless-steel lifting chain with lifting link and safety hook. With certificates.	13.1 ft (4 m)	•	•	•	•	•	•	•	•	•	•	•	96735559
			19.7 ft (6 m)	•	•	•	•	•	•	•	•	•	•	•	96735564
			26.3 ft (8 m)	•	•	•	•	•	•	•	•	•	•	•	96735566
			32.8 ft (10 m)	•	•	•	•	•	•	•	•	•	•	•	96735567
			39.4 ft (12 m)	•	•	•	•	•	•	•	•	•	•	•	96735569

Accessories

Level controllers

Grundfos offers a wide range of pump controllers to keep a watchful eye on liquid levels in the wastewater collecting tank, ensuring correct operation and protection of the pumps.

Controller ranges:

- Dedicated Controls, DC

The DC are designed for one to six-pump installations.

Dedicated Controls

Grundfos Dedicated Controls is a control system that can control and monitor one to six Grundfos wastewater pumps and a mixer or a flushing valve.

Dedicated Controls are used in installations requiring advanced control and data communication.

The main components of the Dedicated Controls system are

- CU 361 control unit
- IO 351B module (general I/O module).

Dedicated Controls is available either as separate components or as control cabinets.

The control system can be operated by

- float switches
- a level sensor
- a level sensor and safety float switches.

The control cabinet is available for the following pump sizes and starting methods:

- pumps up to and including 12 hp (9 kW), direct-on-line starting
- pumps up to and including 40 hp (30 kW), star-delta starting
- pumps up to and including 40 hp (30 kW), soft starter.

The separate control unit and modules can be built for practically any size of system.

GrA6270

Fig. 21 Dedicated Controls control panel

The DC control cabinets can be fitted with various units:

- The CU 361 control unit, which is the 'brain' of the Dedicated Controls system, is fitted in the cabinet front. The CU 361 can be fitted with one of the Grundfos CIM communication modules mentioned below, depending on the monitoring needs or the SCADA system:
  - The CIM 200 is a Grundfos communication module used for the Modbus RTU fieldbus protocol.
  - The CIM 250 is a communication module used for GSM/GPRS communication. The CIM 250 establishes communication between the CU 361 and a SCADA system, thereby allowing the application to be monitored and controlled remotely. This module also offers SMS messaging, for example status and alarm messages.
  - The CIM 270 is a communication module for the Grundfos Remote Management system (GRM). The CIM 270 establishes communication between the CU 361 and the GRM, thereby allowing the application to be monitored and controlled remotely.
- The IO 351B module, which is a general I/O module. The IO 351B communicates with the CU 361 via GENIbus.
- The MP 204 motor protector (optional), which provides many electrical status values, for example voltage, current, power, insulation resistance and energy. The MP 204 offers better protection of the pumps than a conventional motor protection device.
- The CUE/VFD (optional), which is either a Grundfos variable-frequency converter or a general variable-frequency converter, also offers better pump protection and a more steady flow through the pit pipes, so the pumps are treated well and the energy consumption is kept at a minimum.

For further information, see the data booklet or installation and operating instructions for Dedicated Controls on www.Grundfos.com (WebCAPS).

Accessories

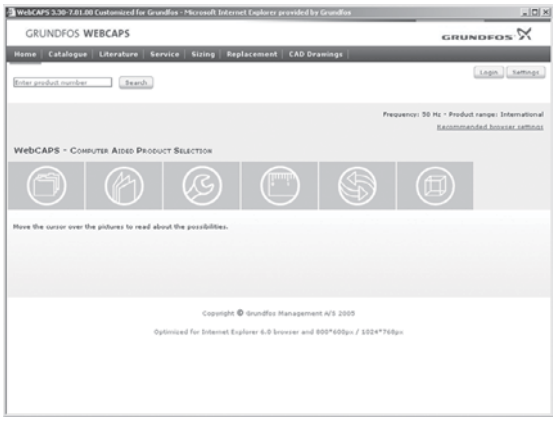
Name		DC
Application		
	One pump	•
	Two pumps (up to six pumps)	•
	Mixer	•
	Battery back-up	•
Level sensor		
	Float switch	•
	Electrodes	
	Air bell	
	Pressure sensor	•
	Ultrasonic sensor	•
	Analog level sensor with safety float switches	•
Starting method		
	Direct-on-line starting (DOL)	•
	Star-delta starting	•
	Soft starter	•
Basic functions		
	Start and stop of pump(s)	•
	Pump alternation	•
	High-level alarm	•
	Dry-running levels alarm	•
	Flow measurement (calculated or via flow sensor)	•
	Pump statistics	•
	Conflicting level alarm	•
Advanced functions		
	Start and stop delays (prevent water hammering)	•
	Motor temperature sensor	•
	Test run/anti-seizing	•
	Daily emptying (emptying the pit once a day)	•
	Water-in-oil sensor input	•
Communication		
	SMS messaging	• [2]
	SCADA communication (GSM/GPRS)	• [2]
User interface		
	Level indication	•
	Graphical display	•
	PC Tool WW Controls	•

[1] If an SMS module is fitted.

[2] If a CIM 250 GSM/GPRS module is fitted in the CU 361.

Further product documentation

WebCAPS

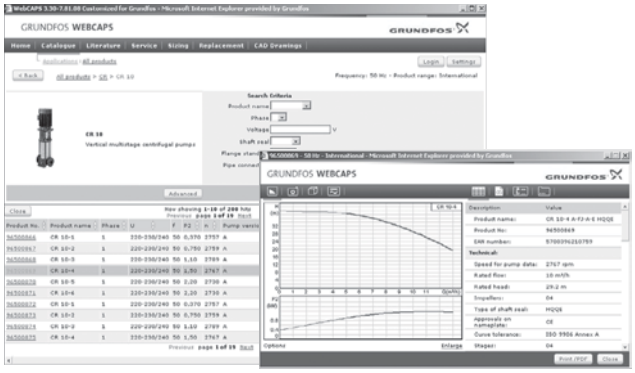


WebCAPS is a **Web**-based **C**omputer **A**ided **P**roduct **S**election program available on www.grundfos.com.

WebCAPS contains detailed information on more than 185,000 Grundfos products in more than 20 languages.

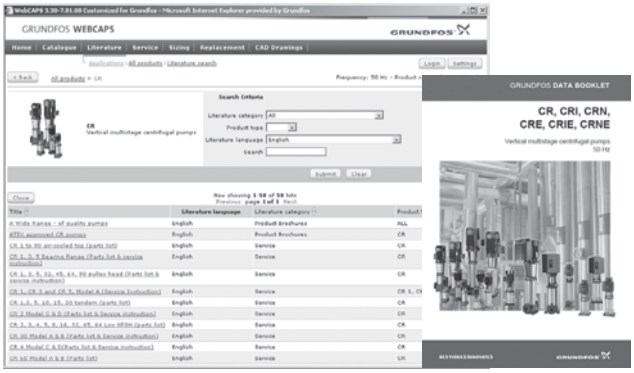
In WebCAPS, all information is divided into 6 sections:

- Catalogue
- Literature
- Service
- Sizing
- Replacement
- CAD drawings.



Catalogue

This section is based on fields of application and pump types, and contains
- technical data
- curves (QH, Eta, P1, P2, etc) which can be adapted to the density and viscosity of the pumped liquid and show the number of pumps in operation
- product photos
- dimensional drawings
- wiring diagrams
- quotation texts, etc.



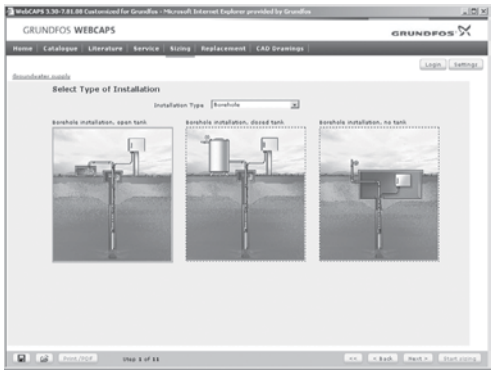
Literature

In this section you can access all the latest documents of a given pump, such as
- data booklets
- installation and operating instructions
- service documentation, such as Service kit catalogue and Service kit instructions
- quick guides
- product brochures.

Service

This section contains an easy-to-use interactive service catalogue. Here you can find and identify service parts of both existing and discontinued Grundfos pumps.
Furthermore, this section contains service videos showing you how to replace service parts.

Further product documentation



Sizing

This section is based on different fields of application and installation examples, and gives easy step-by-step instructions in how to
- select the most suitable and efficient pump for your installation
- carry out advanced calculations based on energy consumption, payback periods, load profiles, life cycle costs, etc.
- analyse your selected pump via the built-in life cycle cost tool
- determine the flow velocity in wastewater applications, etc.

Replacement

In this section you find a guide to selecting and comparing replacement data of an installed pump in order to replace the pump with a more efficient Grundfos pump.
The section contains replacement data of a wide range of pumps produced by other manufacturers than Grundfos.

Based on an easy step-by-step guide, you can compare Grundfos pumps with the one you have installed on your site. When you have specified the installed pump, the guide will suggest a number of Grundfos pumps which can improve both comfort and efficiency.

CAD drawings

In this section it is possible to download 2-dimensional (2D) and 3-dimensional (3D) CAD drawings of most Grundfos pumps.

These formats are available in WebCAPS:

2-dimensional drawings:
- .dxf, wireframe drawings
- .dwg, wireframe drawings.

3-dimensional drawings:
- .dwg, wireframe drawings (without surfaces)
- .stp, solid drawings (with surfaces)
- .eprt, E-drawings.

WinCAPS

Fig. 22 WinCAPS CD-ROM

WinCAPS is a **Win**dows-based **C**omputer **A**ided **P**roduct **S**election program containing detailed information on more than 185,000 Grundfos products in more than 20 languages.

The program contains the same features and functions as WebCAPS, but is an ideal solution if no Internet connection is available.

WinCAPS is available on CD-ROM and updated once a year.