

SE and SL pumps

9-30 kW

50 Hz



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1. Introduction

This data booklet deals with Grundfos heavy-duty wastewater pumps SE and SL, 9-30 kW.



Fig. 1 SE and SL pump

Grundfos SE and SL pumps are specifically designed for pumping sewage and wastewater in a wide range of municipal, private and industrial applications.

To meet your requirements when transporting wastewater, Grundfos SE and SL 9-30 kW pumps feature two different types of hydraulics: SuperVortex and closed S-tube®.

SE pumps are equipped with an internal closed-loop cooling system, which enables them to be dry installed.

SL pumps do not have a cooling system as they are used for submersible installations only.

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

The pumps are fitted with IEC and IE3 efficiency motor components. The motors are either 2-, 4- or 6-pole motors, depending on the motor size.

The free passage in the pumps is 75 to 125 mm.

The pumps are available for:

- freestanding submerged installation on a ring stand
- submersible installation on an auto coupling with fully submerged motor
- submersible installation on an auto coupling with liquid covering the pump housing
- vertical dry installation
- horizontal dry installation.

Applications

Transfer of liquids such as:

- drainage and surface water
- domestic wastewater
- municipal wastewater
- industrial wastewater
- process and cooling water.

SE and SL pumps are ideal for pumping the above liquids from places such as:

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

Closed S-tube® impeller

Grundfos SE and SL pumps fitted with closed S-tube® hydraulics are named SE1, SE2, SL1 and SL2.

The key to the S-tube® design is simplicity, with no cutting or moving functions that can get worn over time, thereby ensuring constant, superior efficiency. The closed S-tube® impeller is a tube-shaped channel impeller placed in a pump housing that matches the smooth tube shape leaving no obstructions or dead zones.

A unique balancing method of the impeller ensures minimum vibration in the pump, thus reducing the load on the shaft seal, shaft and bearings.

The closed S-tube® impeller is a no-compromise solution providing free spherical passage through the impeller and pump housing and creating a natural extension of the pipes connected to the pump. This ensures optimum hydraulic efficiency without compromising solids handling. The simple design means lower life cycle costs because abrasive wear is reduced and fewer clogging incidents occur.

Product features

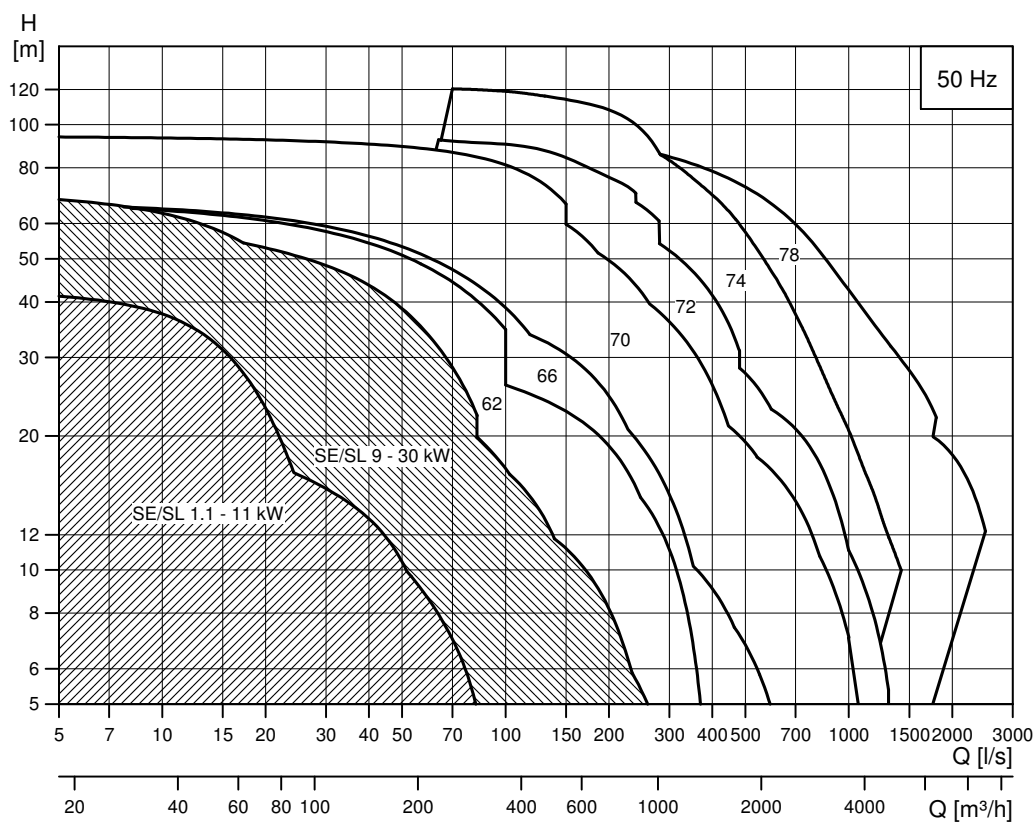
Grundfos SE and SL wastewater pumps have been designed with our customers' needs and requirements in mind.

Grundfos SE and SL pumps offer the following benefits:

- optimised high-efficiency and self-cleaning hydraulics to minimise the risk of clogging
- moisture-tight sealed cable entry at the motor top compartment made of corrosion-resistant stainless steel
- double mechanical cartridge shaft seals, fully assembled and tested at the factory, for reliable sealing between the liquid in the pump housing and the motor
- integrated sensors for continuous monitoring and protection of the pump during operation
- SmartTrim system allowing easy adjustment of the impeller clearance without disassembly of the pump, maintaining maximum performance throughout the life of the pump
- high-efficiency electrical motors built on IE3 motor components and fulfilling the latest standards
- explosion-proof pumps for applications involving a high risk of ignition.

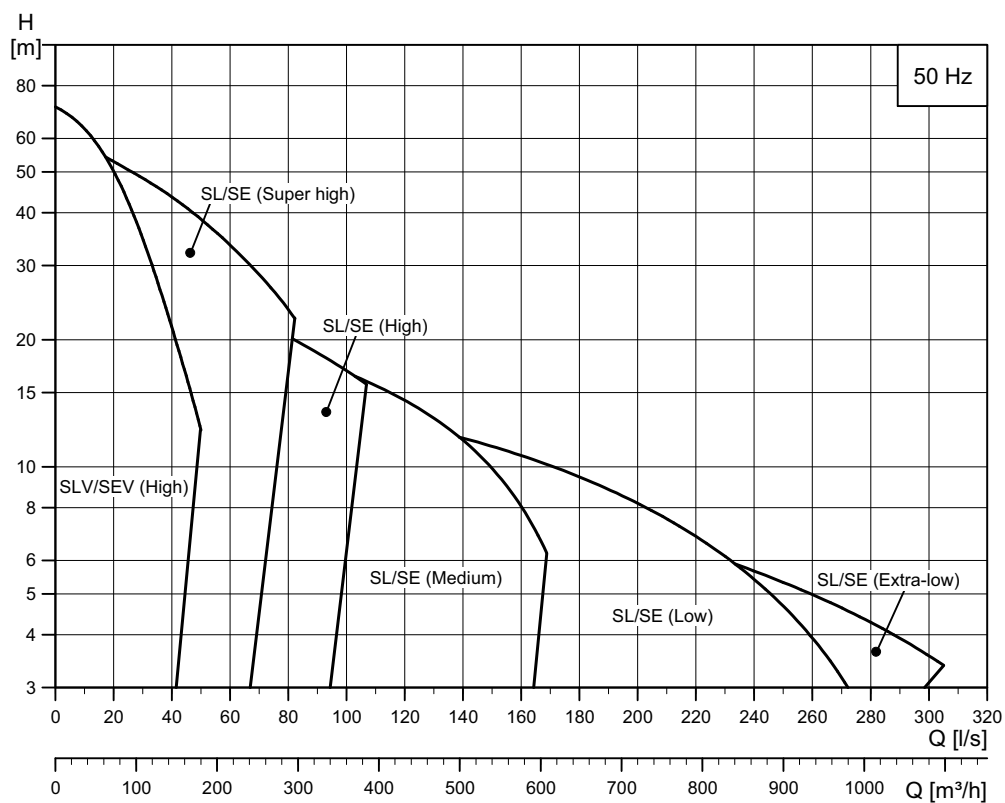
2. Performance range

Performance range, SE, SL and S pumps



TM05 3391 1119

Performance range, SE and SL pumps



TM07 5959 1020

List of pump curves

SLV and SEV pumps with SuperVortex impeller

Pump type	Pressure range	Curve chart on page
SLV/SEV.80.80.130.2.52H	High	40
SLV/SEV.80.80.150.2.52H		41
SLV/SEV.80.80.170.2.52H		42
SLV/SEV.80.80.185.2.52H		43
SLV/SEV.80.80.200.2.52H		44
SLV/SEV.80.80.220.2.52H		45
SLV/SEV.80.80.240.2.52H		46
SLV/SEV.80.80.265.2.52H		47

SL and SE pumps with closed S-tube® impeller

Pump type	Pressure range	Curve chart on page
SL1/SE1.75.100.130.2.52S	Super-high	48
SL1/SE1.75.100.150.2.52S		49
SL1/SE1.75.100.170.2.52S		50
SL1/SE1.75.100.185.2.52S		51
SL1/SE1.80.100.200.2.52S		52
SL1/SE1.80.100.220.2.52S		53
SL1/SE1.80.100.240.2.52S		54
SL1/SE1.80.100.265.2.52S		55
SL1/SE1.85.100.100.4.52H	High	56
SL1/SE1.85.100.110.4.52H		57
SL1/SE1.85.100.130.4.52H		58
SL1/SE1.85.100.150.4.52H		59
SL1/SE1.85.100.170.4.52H		60
SL1/SE1.85.100.185.4.52H		61
SL1/SE1.95.100.200.4.52H		62
SL1/SE1.95.100.220.4.52H		63
SL1/SE1.85.150.100.4.52H		64
SL1/SE1.85.150.110.4.52H		65
SL1/SE1.85.150.130.4.52H		66
SL1/SE1.85.150.150.4.52H		67
SL1/SE1.85.150.170.4.52H		68
SL1/SE1.85.150.185.4.52H		69
SL1/SE1.95.150.200.4.52H		70
SL1/SE1.95.150.220.4.52H		71
SL1/SE1.110.200.100.4.52M		72
SL1/SE1.110.200.110.4.52M		73
SL1/SE1.110.200.130.4.52M	Medium	74
SL1/SE1.110.200.150.4.52M		75
SL1/SE1.110.200.170.4.52M		76
SL1/SE1.110.200.185.4.52M		77
SL1/SE1.110.200.200.4.52M		78
SL1/SE1.110.200.220.4.52M		79
SL2/SE2.110.250.100.4.52L	Low	80
SL2/SE2.110.250.130.4.52L		81
SL2/SE2.110.250.150.4.52L		82
SL2/SE2.110.250.170.4.52L		83
SL2/SE2.110.250.185.4.52L		84
SL2/SE2.110.250.200.4.52L		85
SL2/SE2.110.250.220.4.52L		86
SL2/SE2.125.300.110.6.52E	Extra-low	87
SL2/SE2.125.300.130.6.52E		88
SL2/SE2.125.300.160.6.52E		89
SL2/SE2.125.300.180.6.52E		90

3. Identification

Nameplate

All pumps can be identified by means of the nameplate on the motor top cover.

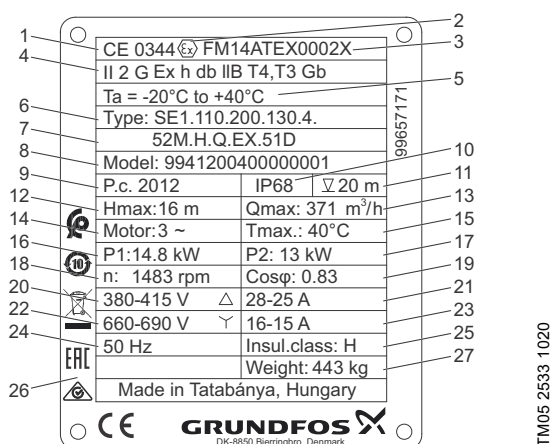


Fig. 2 Nameplate example for Ex-proof pump

Pos.	Description
1	Approvals
2	EU explosion-proof motor Ex symbol
3	Explosion protection certificate no.
4	Ex description
5	Ambient temperature
6	Pump type designation
7	Pump type designation (line 2)
8	Model number
9	Production code (year and week)
10	Enclosure class
11	Maximum installation depth
12	Maximum head
13	Maximum flow rate
14	Number of phases
15	Maximum liquid temperature
16	Rated power input P1
17	Rated power output P2
18	Rated speed
19	Cos φ, 1/1-load
20	Rated voltage, D
21	Rated current, D
22	Rated voltage, Y
23	Rated current, Y
24	Frequency
25	Insulation class
26	Approval
27	Weight without cable

Type key

Example: **SL1.110.200.245.4.52M.S.EX.6.1G.A**

Code	Explanation	Designation
SE	Sewage pump with cooling jacket	Pump type
SL	Sewage pump without cooling jacket	
1	Closed one channel S-tube [®] impeller	Impeller type
2	Closed two channel S-tube [®] impeller	
V	SuperVortex (free-flow) impeller	
110	Maximum solids size	Pump free passage [mm]
200	Nominal diameter of pump outlet	Pump outlet [mm]
245	24.5 kW; P2 / 10	Power [kW]
[]	Standard pump or standard Ex pump	
A	Sensor version 1 or sensor version 1, Ex pump	Sensor version
B	Sensor version 2 or sensor version 2, Ex pump	
2	2-pole motor	Number of poles
4	4-pole motor	
6	6-pole motor	
52	Frame size of the pump	Frame size
S	Super-high pressure	Pressure range
H	High pressure	
M	Medium pressure	
L	Low pressure	
E	Extra-low pressure	
S	Sewage pump without cooling jacket for vertical, submerged installation (SL)	Installation type
C	Sewage pump with cooling jacket for vertical, submerged installation (SE)	
D	Sewage pump with cooling jacket for vertical, dry installation (SE)	
H	Sewage pump with cooling jacket for horizontal, dry installation (SE)	
[]	Cast-iron pump housing; cast-iron impeller; cast-iron motor housing	Material code for pump housing; impeller; motor housing
Q	Cast-iron pump housing; stainless-steel impeller; cast-iron motor housing	
N	Pump without ATEX, Ex or FM approval	Pump version
Ex	Pump with ATEX, Ex or FM approval	
5	50 Hz	Frequency
1D	380-415D, 660-690Y (Standard)	Voltage [V] with 50 Hz
1E	220-240D, 380-415Y	
1N	500-550D	
[]	Thermal switches	Thermal protection
T	PTC thermistor	
[]	1st generation	Generation code
A	2nd generation	
Z	Custom-built product	Customisation

* Only for 2- and 4-pole motors.

** Only for 6-pole motors.

4. Product selection

For sizing and selection of Grundfos SE and SL pumps, go to Grundfos Product Center on www.grundfos.com or use this data booklet.

Consider the following:

- The type of liquid to be pumped, see [Pumped liquids](#) on page 9
- Inflow requirement
- Total head requirement
 - After a few months, the typical surface roughness in pipes is 0.5 to 1 mm.
- Size of the pipe on the discharge side of the pump
 - For a self-cleaning effect in the pipes, the flow velocity must exceed 1 m/s.
- Are standby pumps needed?
 - To avoid sedimentation, the pumps must be started at least twice a day.
- Inlet conditions to the pump in order to avoid cavitation

Select the pump at its best-efficiency point to minimise the energy consumption.

Consider additionally:

- The installation type of the pump, see [Operating conditions](#) on page 31
- Customisation of the pump, see [Variants of customised pumps](#) on page 12
- Accessories to be supplied with the pump, see [Accessories](#) from page 91.

If sizing and selection is done via Grundfos Product Center in www.grundfos.com, the selection recommendations may list one or more standard pumps, for example:

Product name: SE1.85.100.130.4

- To identify the pump, use the [Type key](#) shown on page 7.

Pumped liquids

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

Pump types and hydraulics	Impeller material / recommended material variant	SE1, SL1 with 1-channel closed S-tube®	SE2, SL2 with 2-channel closed S-tube®	SEV, SLV with Super-vortex	
Pumped liquid					
Surface water					
Drainage water	Grey cast iron	•	•	•	Observe the operating conditions when selecting the optimal hydraulic variant Observe the free passage through the pump, or consider pre-screening of the water
River water	Grey cast iron	•	•	•	
Storm water	Grey cast iron	•	•	•	
Wastewater					
Domestic wastewater from buildings	Grey cast iron	•	•	•	Observe local legislation and the free passage through the pump e.g. EN 12050
Untreated municipal wastewater	Grey cast iron	•	•	•	Observe local legislation and the free passage through the pump e.g. EN 16932:2018
Wastewater with fibrous material	Grey cast iron			•	
Wastewater with abrasive / suspended solids (dry-matter content up to 3 %)	Grey cast iron	•	•	•	Consider operational time and hydraulic efficiency
Wastewater with abrasive / suspended solids (dry-matter content up to 5 %)	Grey cast iron			•	Consider operational time and hydraulic efficiency Consider a ceramic-coated pump (optional)
	Stainless steel (Q variant)			•	
Sludge					
Raw sludge with dry-matter content up to 4 % (un-screened)	Grey cast iron	•	•	•	Observe the operating conditions when selecting the optimal hydraulic variant
Digested sludge with dry-matter content up to 4-5 %, depending on screening	Grey cast iron			•	
Activated sludge with dry-matter content up to 4-5 %, depending on screening	Grey cast iron			•	
Industrial wastewater containing:					
Suspensions like paint, lacquer and varnish	Grey cast iron	•	•	•	Consider operational time and hydraulic efficiency Consider a ceramic-coated cast-iron pump (optional) Consider alternative shaft-seal face materials. Contact Grundfos.
	Stainless steel (Q variant)	•	•	•	
Acidic wastewater (down to pH 6.5)	Grey cast iron	•	•	•	Consider operational time and hydraulic efficiency Consider a ceramic-coated cast-iron pump (optional) Consider alternative shaft-seal face materials. Contact Grundfos.
	Stainless steel (Q variant)	•	•	•	
Basic wastewater (up to pH 14)	Grey cast iron	•	•	•	Consider operational time and hydraulic efficiency Consider a ceramic-coated cast-iron pump (optional) Consider alternative shaft-seal face materials. Contact Grundfos.
	Stainless steel (Q variant)	•	•	•	

Pump types and hydraulics	Impeller material / recommended material variant	SE1, SL1 with 1-channel closed S-tube®	SE2, SL2 with 2-channel closed S-tube®	SEV, SLV with Super-vortex	
Pumped liquid					
Highly abrasive industrial effluent causing wear (chemically neutral)					
Lime water	Grey cast iron	•	•	•	Consider operational time and hydraulic efficiency Consider a ceramic-coated cast-iron pump (optional)
	Stainless steel (Q variant)	•	•	•	Consider alternative shaft-seal face materials. Contact Grundfos.
Lime milk containing quartz and pigment suspensions	Grey cast iron			•	Consider operational time and hydraulic efficiency Consider a ceramic-coated cast-iron pump (optional)
	Stainless steel (Q variant)	•	•	•	Consider alternative shaft-seal face materials. Contact Grundfos.
Effluent industrial wastewater containing solids	Grey cast iron	•	•	•	Consider operational time and hydraulic efficiency Consider a ceramic-coated cast-iron pump (optional)
	Stainless steel (Q variant)	•	•	•	Consider alternative shaft-seal face materials. Contact Grundfos.
Effluent industrial wastewater containing a high amount of dust and ashes	Grey cast iron			•	Consider operational time and hydraulic efficiency Consider a ceramic-coated cast-iron pump (optional)
	Stainless steel (Q variant)			•	Consider alternative shaft-seal face materials. Contact Grundfos.
Additional water types					
Brackish water	Grey cast iron	•	•	•	Observe temperature and chloride content of the water. See also "GRUNDFOS SL, SE, S PUMP VARIANTS, 1.1 - 520 kW" (97745765) LINK.
	Stainless steel (Q variant)	•	•	•	Consider cathodic protection and coating of the pump.
Sea water	Grey cast iron	•	•	•	Observe temperature and chloride content of the water. See also "GRUNDFOS SL, SE, S PUMP VARIANTS, 1.1 - 520 kW" (97745765) LINK.
	Stainless steel (Q variant)	•	•	•	Consider cathodic protection and coating of the pump.

- Standard solution

Basic pump configuration

- See [Type key](#) on page 7 to identify the pump specification.

Example: Product name	SE	1.	85.	100.	130.	4
Pump type: Sewage pump with cooling jacket						
Impeller type: 1-channel closed S-tube®						
Pump free passage: 85 mm						
Pump outlet: DN 100						
Power: 13 kW						
Sensor version: Standard pump or standard Ex pump						
Number of poles: 4 pole motor						

Features of a standard pump:

- 10 m cable
- paint: NCS 9000N, RAL 9005 (black), average thickness 150 µm
- three thermal switches, one in each phase, or three thermal sensors (PTC)
- one moisture switch below the motor top cover
- one leakage switch in leakage chamber (standard pump) or in bottom of stator housing (standard Ex pump)
- tested according to ISO 9906:2017, grade 3B.

For selection of a standard pump, see [Performance curves and technical data](#) on page 40.

Note: Technical data of the pump can also be seen in Grundfos Product Center using the product number.

Pump options

The SE and SL pumps can be customised to meet individual requirements. The following pump features and options are available:

- Sensor variant
 - Standard: pump fitted with standard sensors
 - A: pump fitted with sensor version 1*
 - B: pump fitted with sensor version 2*
 - * Grundfos recommends screened cables to ensure optimal data communication with the pump.
- Pressure range, see [Performance range, SE and SL pumps](#) on page 5
 - 52S: super-high head
 - 52H: high head
 - 52M: medium head
 - 52L: low head
 - 52E: extra-low head
- Material
 - Standard: cast-iron pump housing, cast-iron impeller, cast-iron motor housing
 - Q: cast-iron pump housing, EN 1.4408 impeller, cast-iron motor housing
- Pump version
 - N: pump without ATEX approval
 - Ex: pump with ATEX approval
- Supply voltage
 - 51D: star/delta starting, 3 x 380-415 V (D), 660-690 V (Y)
 - 51E: star/delta starting, 3 x 220-240 V (D), 380-415 V (Y)
 - 51N: 3 x 500-550 V (D)
- Thermal protection
 - Standard: thermal switches
 - T: thermistor (PTC), including 15 m power cable

For variants be see [Variants of customised pumps](#) on page 12. For requirements or designs not included in the list, please contact Grundfos.

Variants of customised pumps

Motor

Various cable lengths	Length of cable depends on motor size and power supply	10 m
		15 m
		25 m
		30 m
		50 m
EMC power cables	Screened power cables for variable-speed drives. Length of cable depends on motor size and power supply. See notification on EMC cables, see Product description on page 28.	10 m
		15 m
		25 m
		30 m
		50 m
Special motor	Special voltage available on request	Contact Grundfos
PTC thermistors in windings		

Motor protection

Thermal switch / PTC + moisture switch	Standard
Thermal switch / PTC + moisture switch	Standard Ex. version
Thermal switch / PTC + moisture switch + Pt1000	Sensor version 1
Thermal switch / PTC + moisture switch + Pt1000	Sensor Ex. version 1
Thermal switch / PTC + moisture switch + Pt1000 + PVS3 + SM 113 and IO 113*	Sensor version 2
Thermal switch / PTC + moisture switch + Pt1000 + PVS3 + SM 113 and IO 113*	Sensor Ex. version 2

* IO 113 is not part of the pump delivery. It must be ordered separately.

Tests *

Test at specified duty point based on standard impeller/curve	
Trimmed impeller for specified duty test	(Only SuperVortex impellers)
Duty point verification report (according to ISO 9906:2017 grade 3B)	Duty point verification test guaranteed by Grundfos
Duty point verification report (according to ISO 9906:2017 grade 2B and 2U)	Duty point verification test guaranteed by Grundfos
Duty point verification report (according to ISO 9906:2017 grade 1B and 1U)	Duty point verification test guaranteed by Grundfos
Performance test report (according to grade 3B)	9-30 kW
Performance test report (according to grade 2B and 2U)	9-30 kW
Performance test report (according to grade 1B, 1E and 1U)	9-30 kW
Witness test	

Note: All requests regarding tests must be specified when ordering the pump.

* For tests and test reports, contact Grundfos.

Certificates *

ATEX-approved-pump report	Special Grundfos report
Certificate of compliance with order	According to EN10204 2.1
Impeller balancing certificate	
Pump certificate	According to EN10204 2.2
Inspection certificate	According to EN10204 3.1
Material specification report	According to EN10204 3.1B
Material report with certificate	According to EN10204 3.2
Hydrostatic pressure test certificate	
Painting certificate (including verification of painting thickness)	
Electric motor test report certificate	
Inspection certificate, Lloyds Register	According to EN10204 3.2
Inspection certificate, DNV (Det Norske Veritas)	According to EN10204 3.2
Inspection certificate, Germanischer 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 Agenture	According to EN10204 3.2
Other third-party test certificates	
IECEX approved pump	
IECEX approved report (special Grundfos report)	

* For certificates, contact Grundfos.

Miscellaneous *

Duplex stainless-steel impeller according to EN1.4517	• Increased resistance to abrasive liquids.
FKM sealing (optional)	• Resistant to acids • Resistant to mineral oils and vegetable oils • Resistant to most solvents (toluene, petrol, trichloroethylene etc.)
Cable protection hose	• Resistant to acids • Resistant to most oils • Resistant to most solvents etc.
Ceramic coating of impeller and pump housing	• Reduced wear rate of cast-iron parts • Increased corrosion resistance • Beneficial in case of low number of operating hours
Extra epoxy coating, 300 µm or 450 µm	• Increased corrosion resistance
Top coating (black RAL9005, red RAL 3000 and other colours)	
Special packaging	
Special nameplate	
Other variants	

* For miscellaneous variants, contact Grundfos.

5. Construction

Sectional drawings, motors

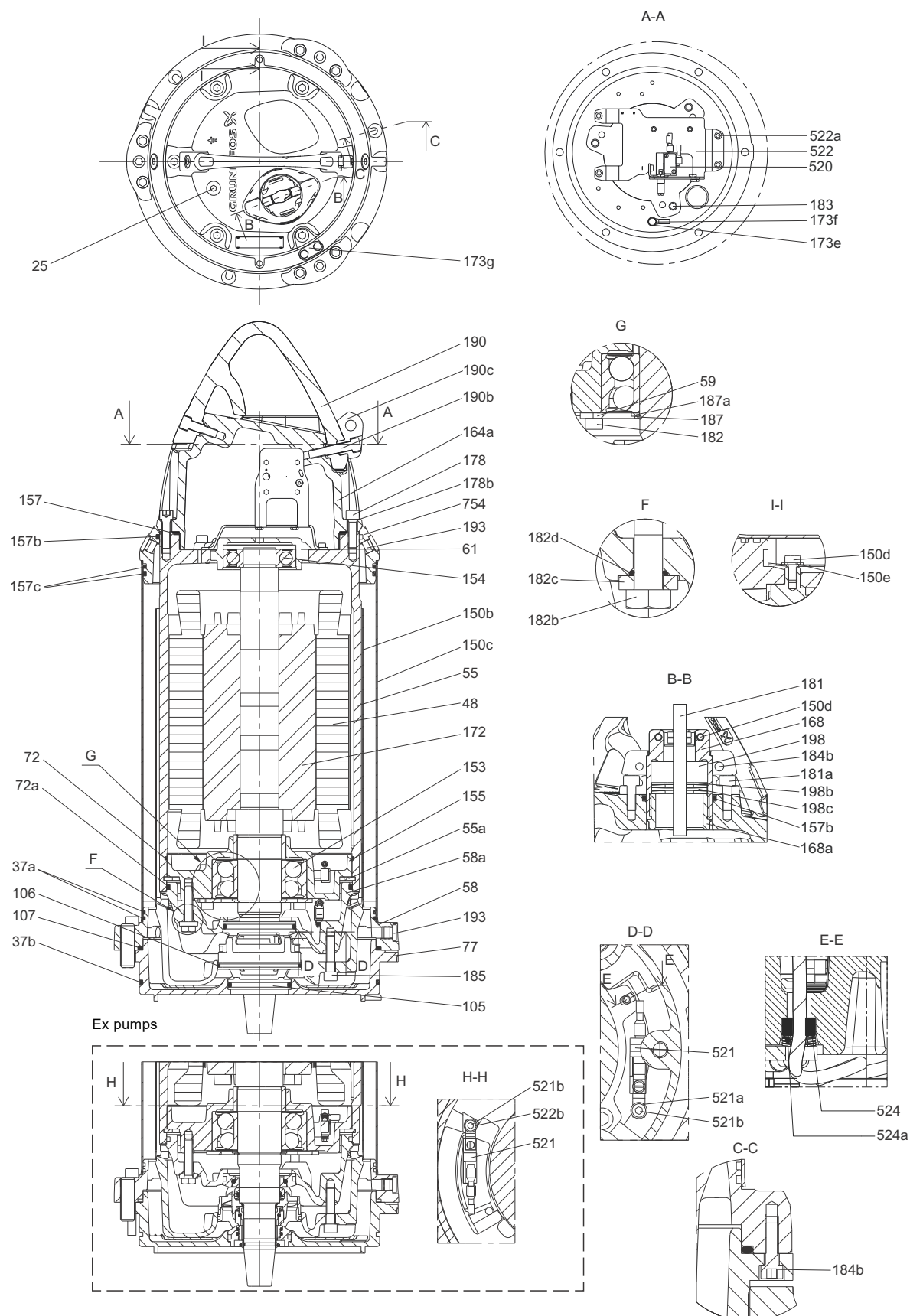
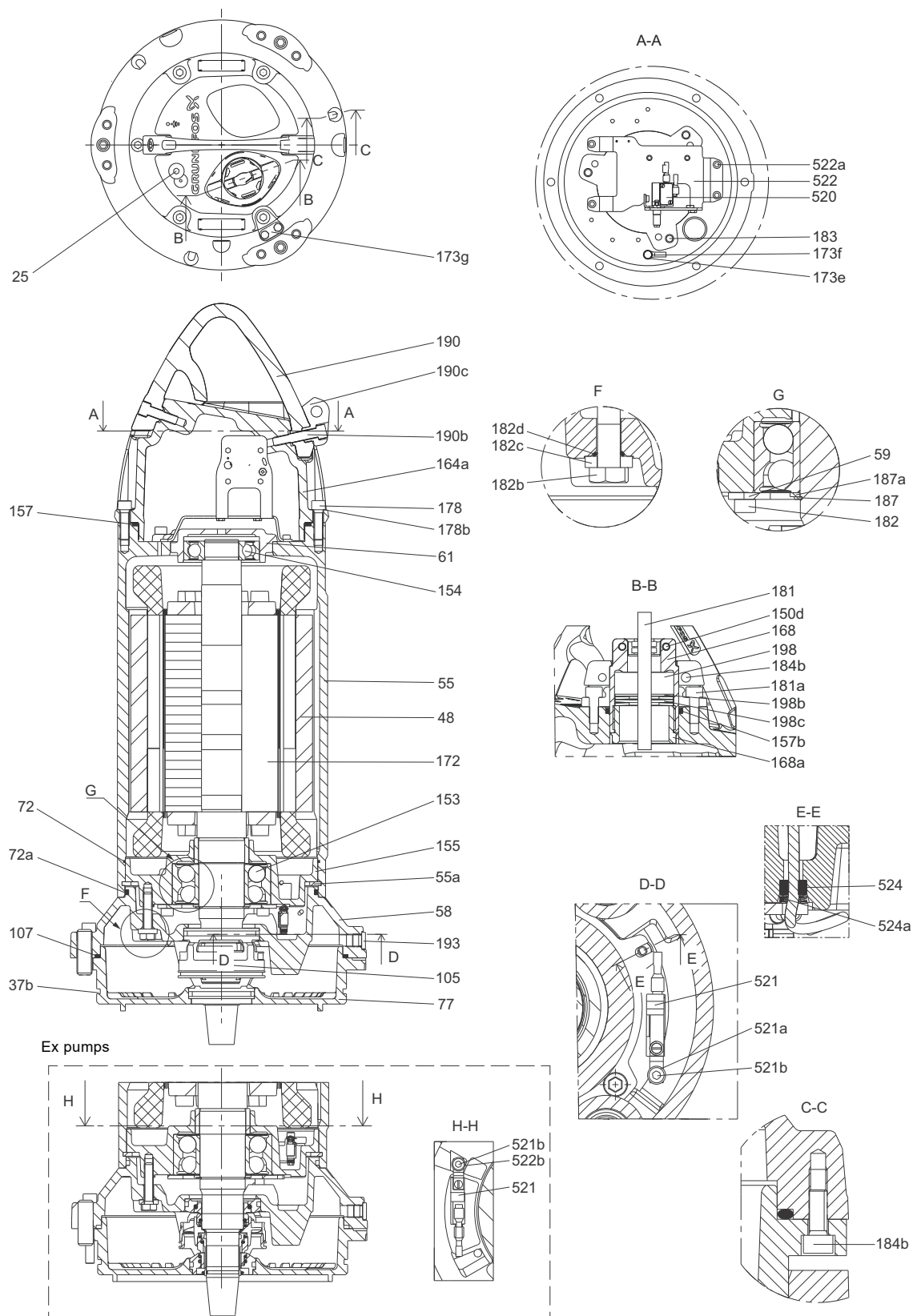


Fig. 3 SE pump, with cooling jacket (2- and 4-pole motors) (H-H: Explosion proof version)



TM07 6054 0220

Fig. 4 SL pump, without cooling jacket (2- and 4-pole motors) (H-H: Explosion proof version)

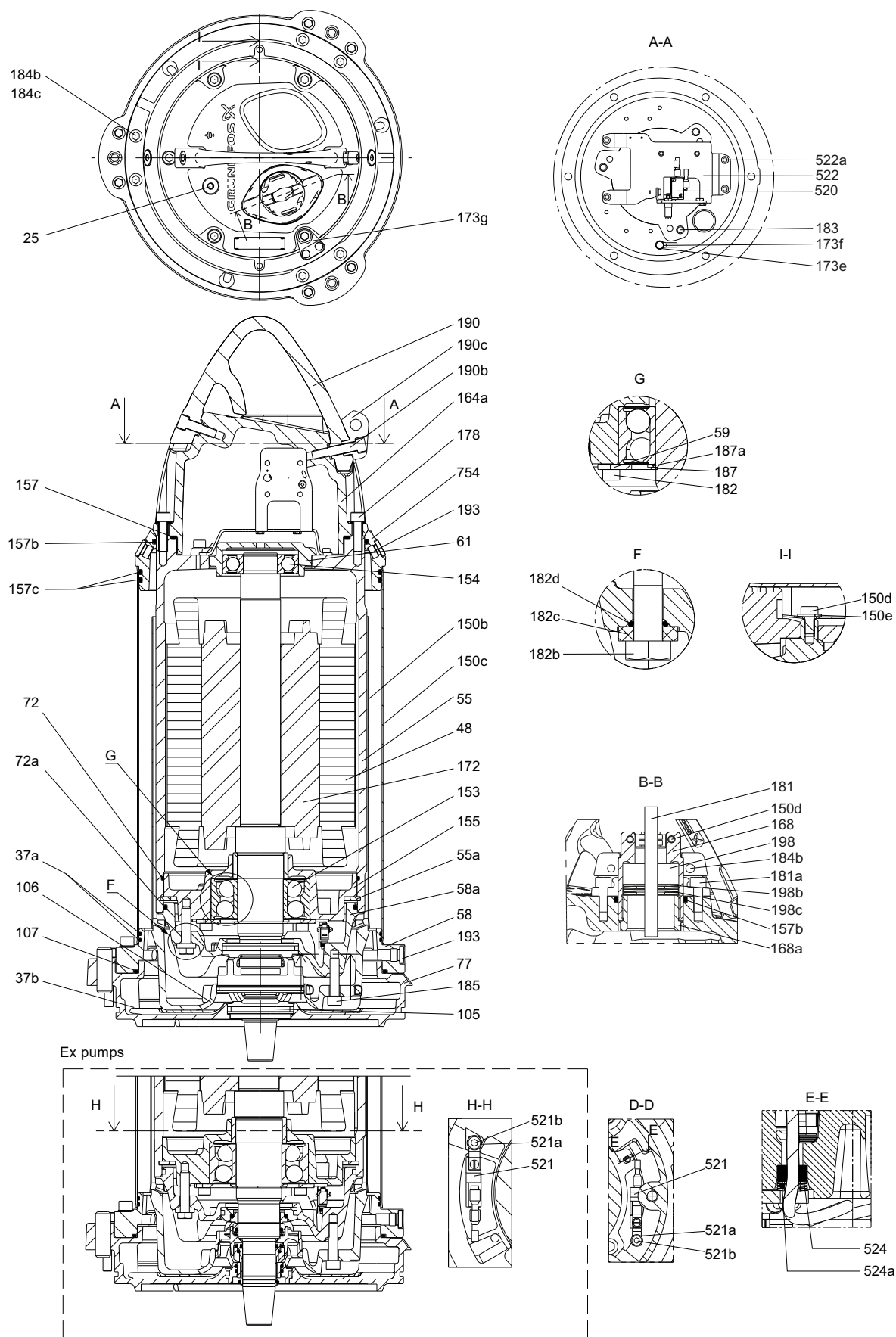


Fig. 5 SE pump, with cooling jacket (6-pole motors) (H-H: Explosion proof version)

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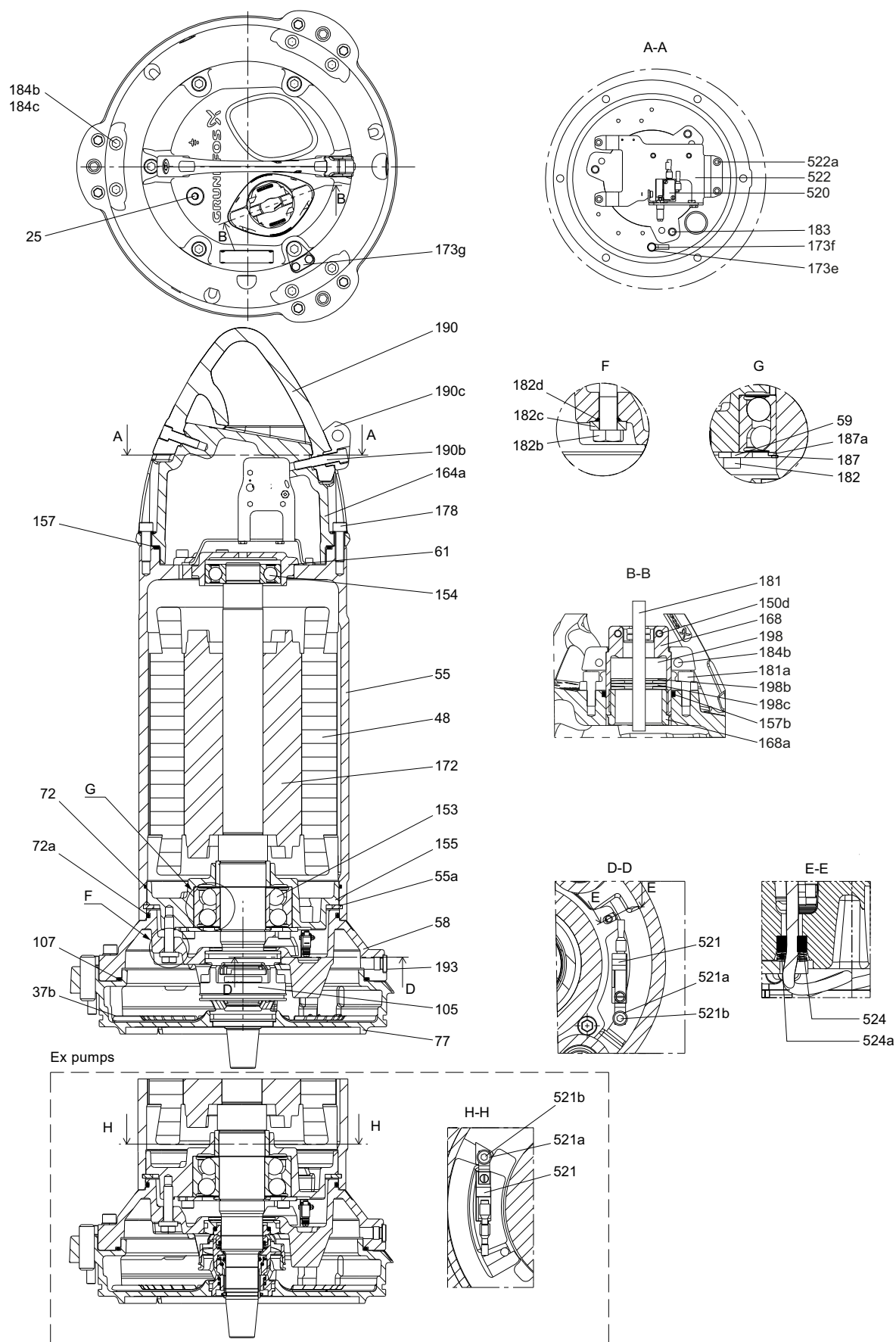


Fig. 6 SL pump, without cooling jacket (6-pole motors) (H-H: Explosion proof version)

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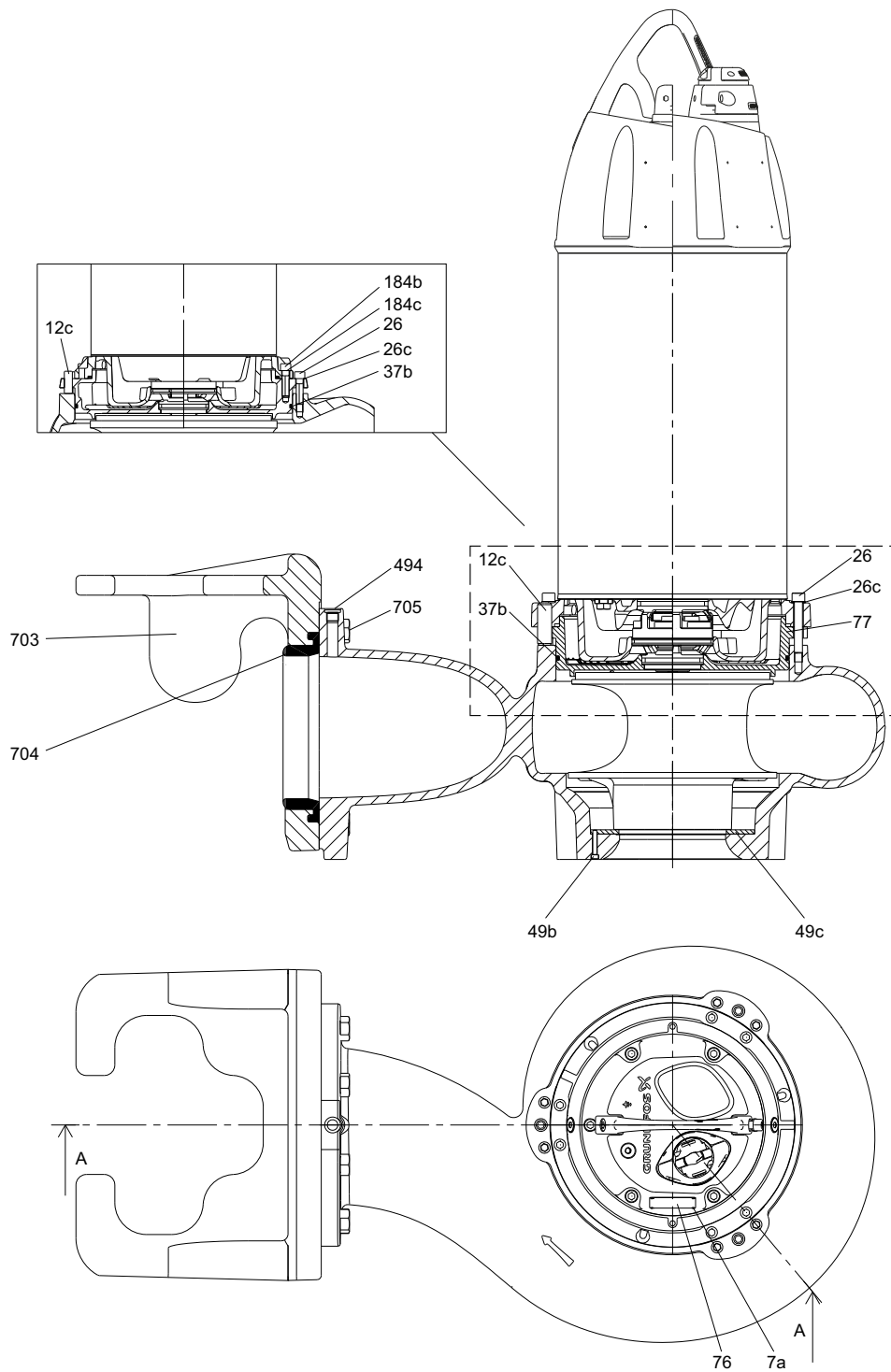


Fig. 7 SE pump, with guide claw (6-pole motors)

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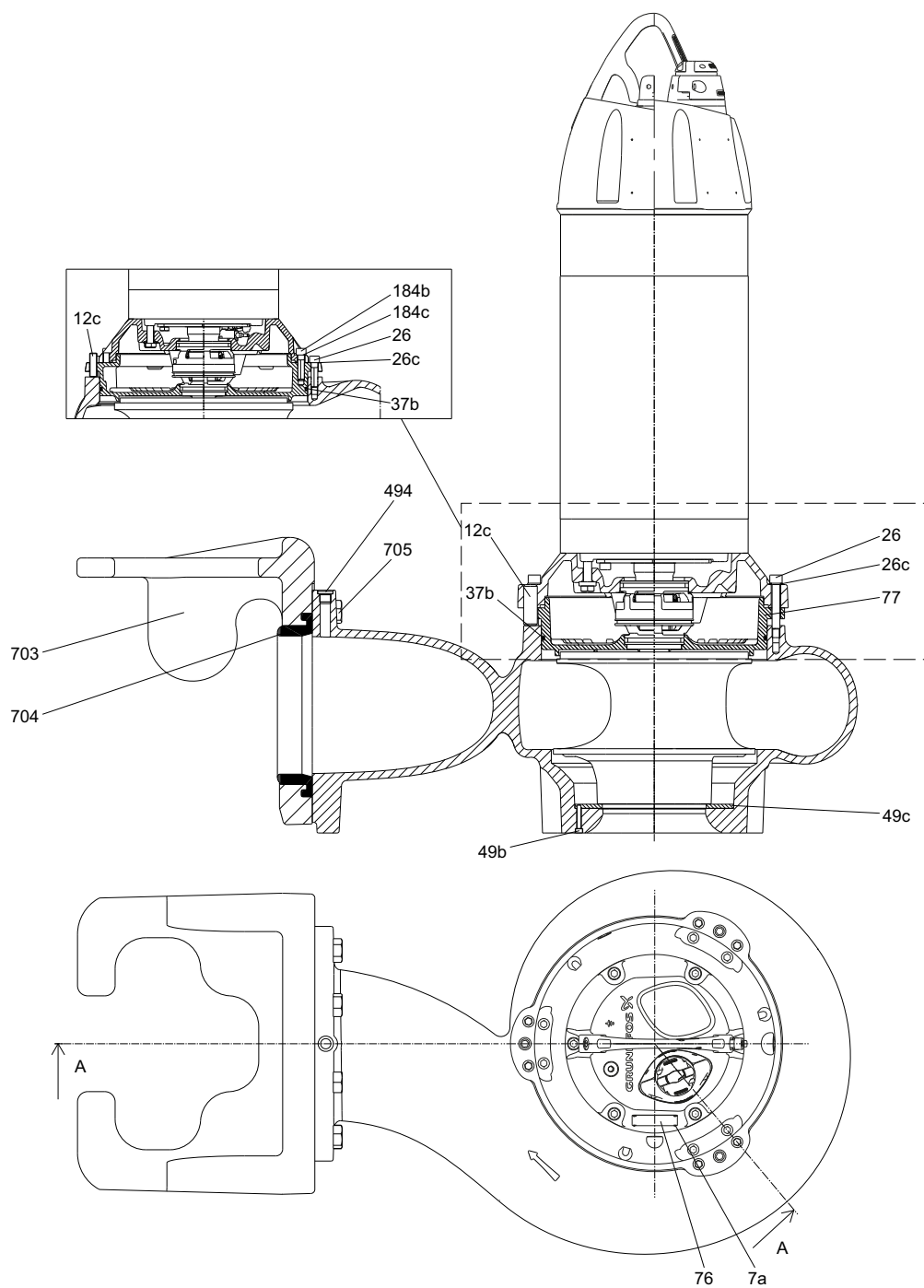


Fig. 8 SL pump, with guide claw (6-pole motors)

TM07 6052 0220

Sectional drawings, pumps

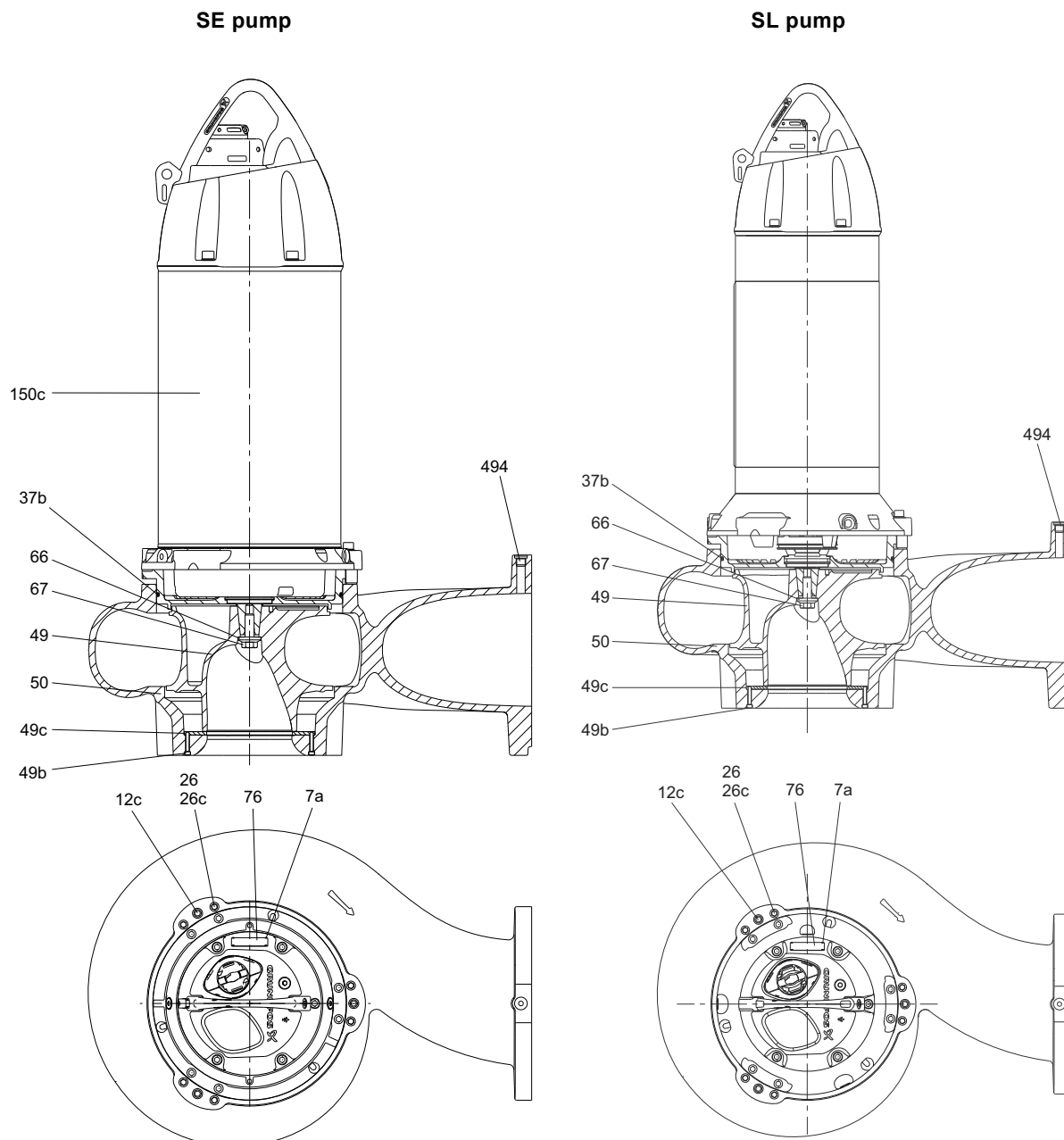
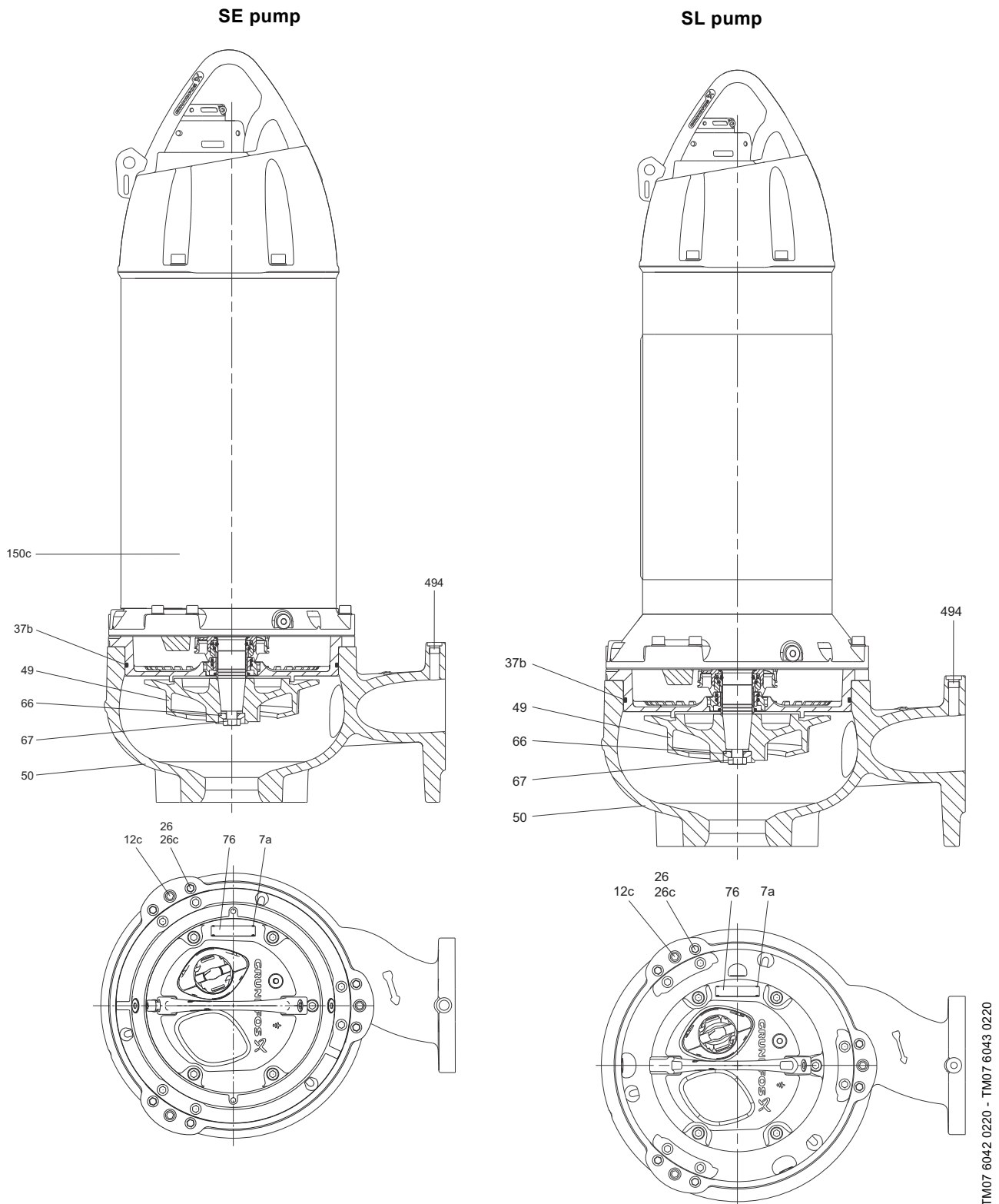


Fig. 9 SE and SL pump, with closed S-tube® impeller

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TM07 6042 0220 - TM07 6043 0220

Fig. 10 SE and SL pump, with SuperVortex impeller

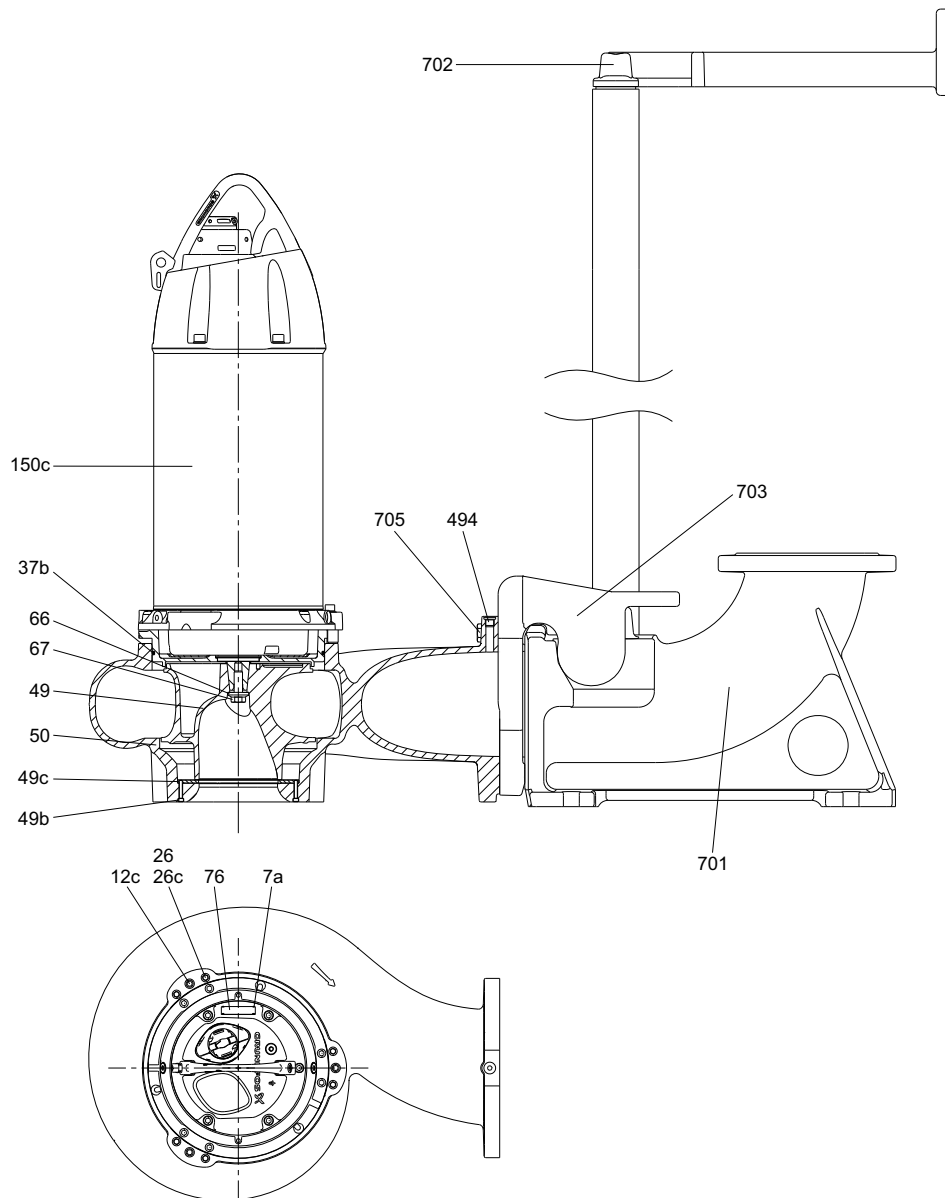


Fig. 11 SE pump, with guide claw for auto coupling

TM07 6044 0220

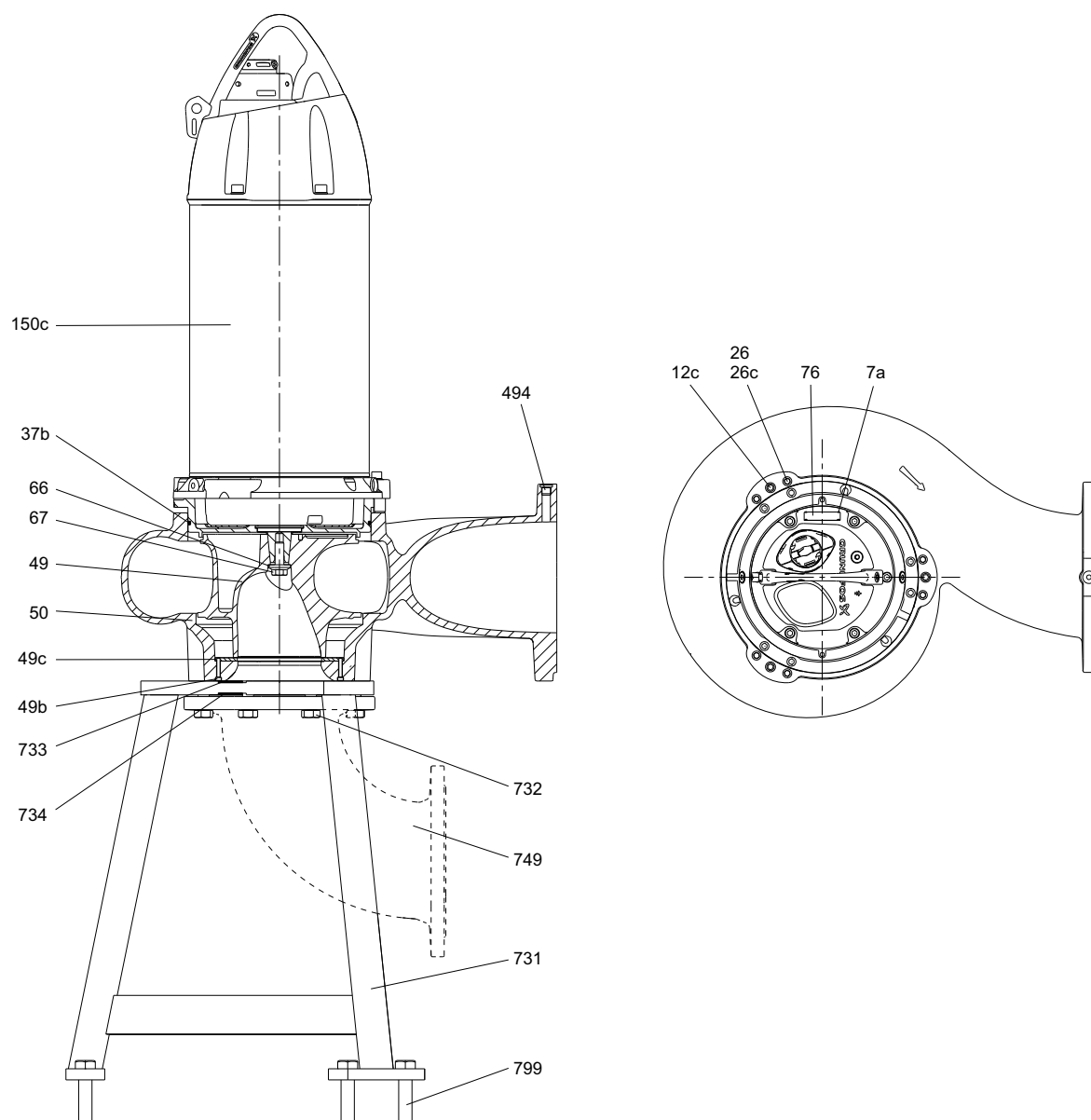


Fig. 12 SE pump, dry installation on vertical base stand (recommended for SE pumps below 15 kW)

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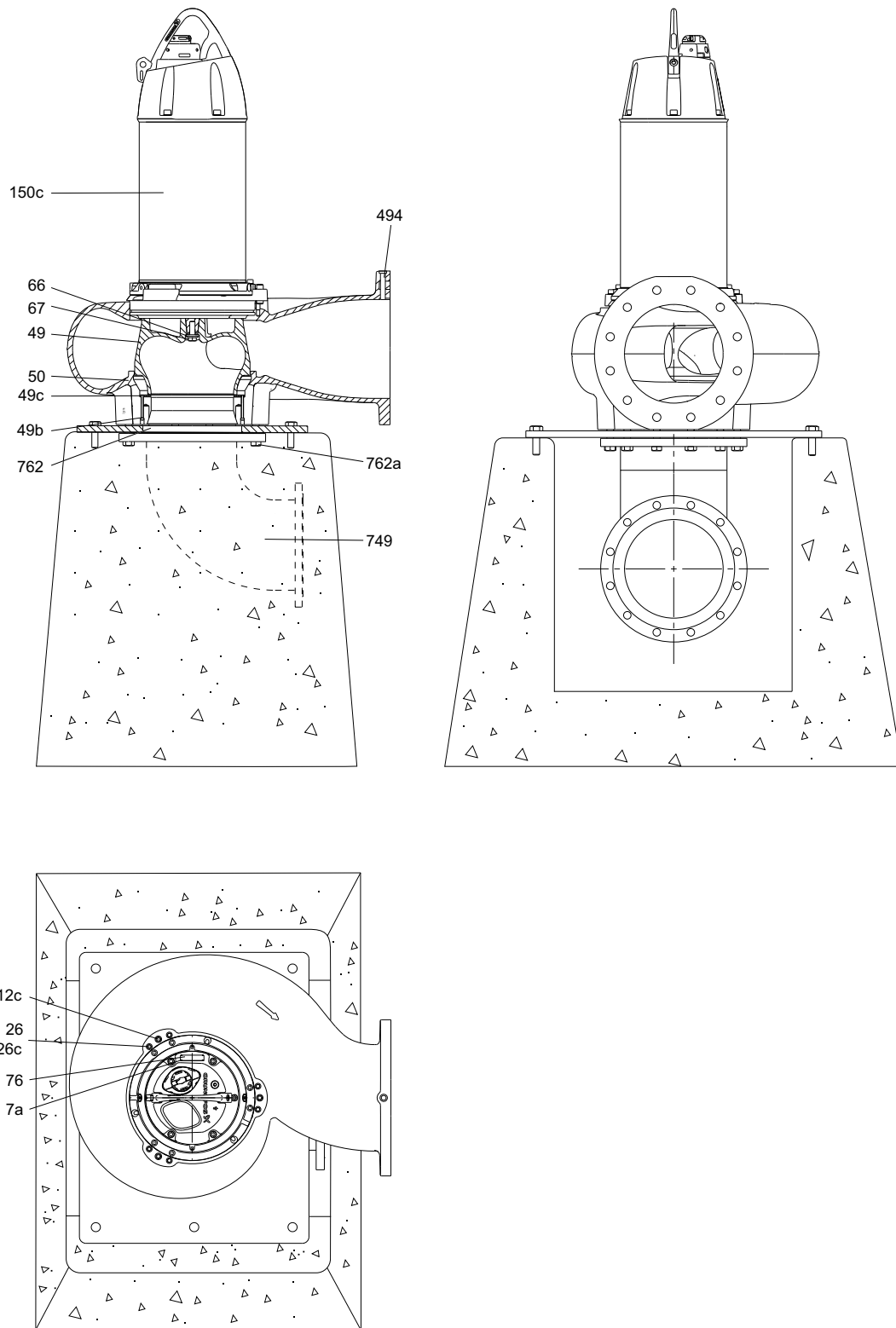
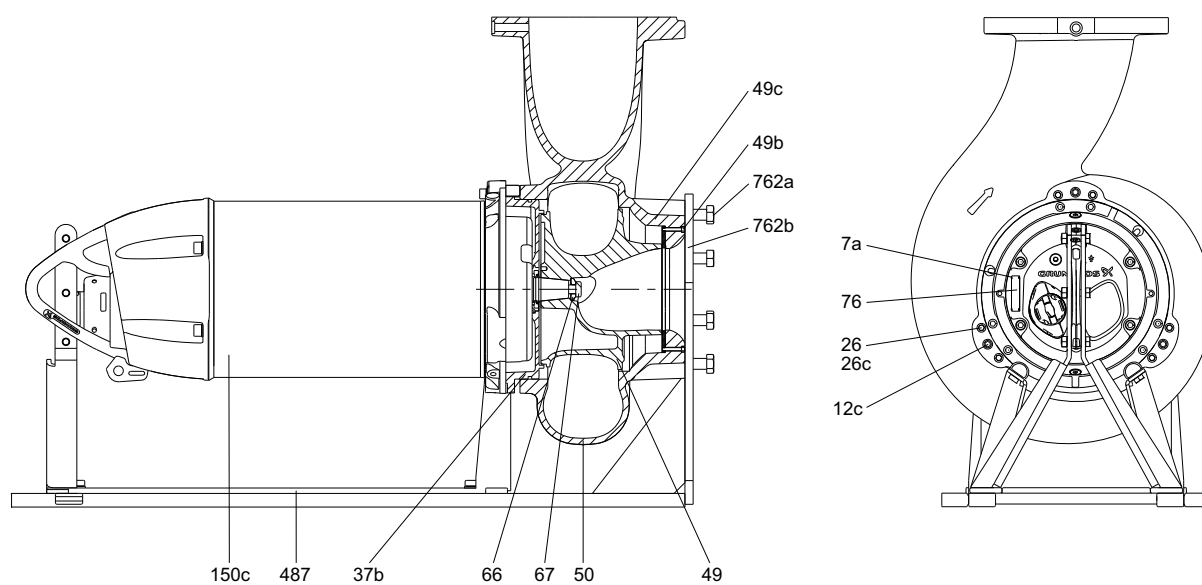


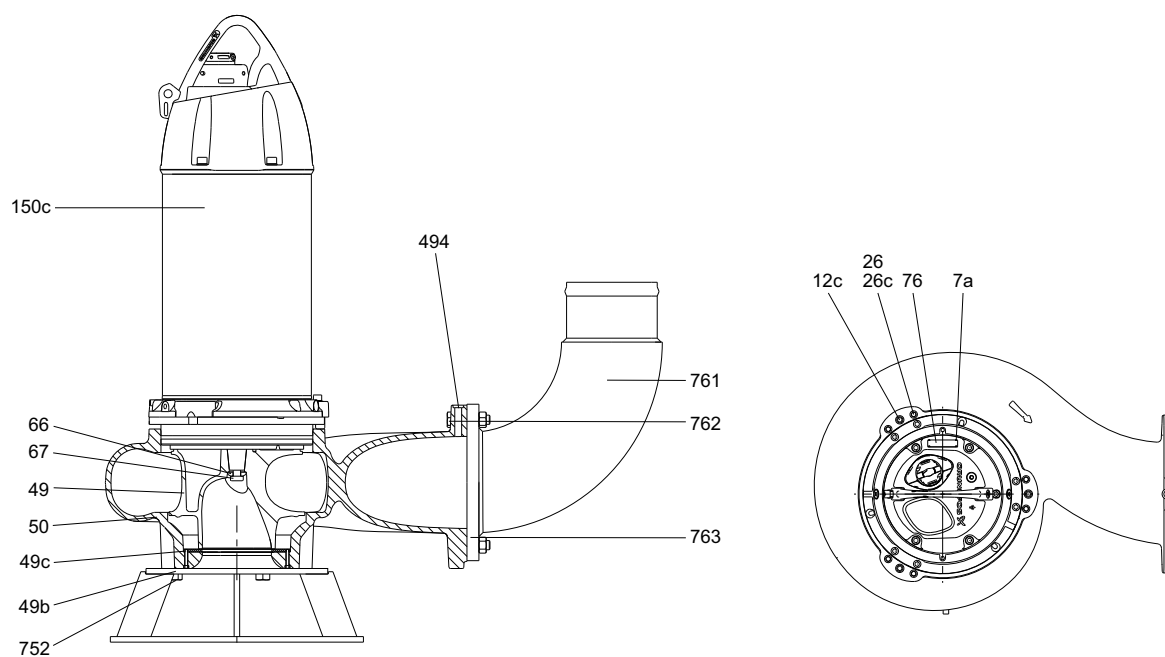
Fig. 13 SE pump, dry installation on concrete foundation (recommended for SE pumps from and above 15 kW)

TM07 6046 0220



TM07 6047 0220

Fig. 14 SE pump, dry installation on horizontal base stand



TM07 6048 0220

Fig. 15 SE pump, on ring stand

Components and material specification

The position numbers in the table below refer to the sectional drawings on the previous pages.

Motor

Pos.	Component	Material	DIN W.-No./ EN standard	AISI/ ASTM
12c	Adjusting screw	Stainless steel	1.4436	316
25	Pressure test plug	Stainless steel	1.4436	316
25a*	Screw	Stainless steel	1.4436	316
25b*	Lock washer	Stainless steel	1.4436	316
26	Screw	Stainless steel	1.4436	316
26c	Washer	Stainless steel	DIN 433	
37a	O-ring	NBR rubber		
37b	O-ring	NBR rubber		
48	Stator lamination			
55	Stator housing	Cast iron	EN-JL-1040	ASTM A48 Class 40B
55a	Circlip	DIN 472		
58	Intermediate seal housing (SE) Upper seal housing	Cast iron	EN-JL-1040	ASTM A48 Class 40B
58a	Upper seal housing cover	Cast iron	EN-JL-1040	ASTM A48 Class 40B
59	Bearing bracket cover	Cast iron	EN-JL-1040	ASTM A48 Class 40B
61	Upper bearing bracket	Cast iron	EN-JL-1040	ASTM A48 Class 40B
66	Impeller washer	Stainless steel	1.4436	316
67	Impeller screw	Stainless steel	1.4436	316
72a	O-ring	NBR rubber		
77	Lower seal housing			
105	Shaft seal cartridge cpl.	SiC/SiC or SiC/carbon A		
105a	Lock ring			
106	O-ring for shaft seal			
107	O-ring	NBR rubber		
150b	Inner cooling jacket			
150d	Screw			
150e	Washer	Stainless steel	DIN 433	
153	Ball bearing	Stainless steel		
154	Ball bearing	Stainless steel		
155	Lower bearing bracket	Cast iron	EN-JL-1040	ASTM A48 Class 40B
157	O-ring	NBR rubber		
157b	O-ring	NBR rubber		
157c	O-ring	NBR rubber		
164a	Motor top cover	Cast iron	EN-JL-1040	ASTM A48 Class 40B
168	Cable entry	PA or cast iron		
168a	Cable entry lower			
168b	Cover for connector			
172	Shaft with rotor	Stainless steel	1.4462	UNS31803
173e	Screw	Stainless steel	1.4436	316
173f	Spring washer	Stainless steel	1.4436	316
173g	External ground connector	Stainless steel	1.4436	316
176a	Terminal block			
176c	Plug housing			
178	Screw	Stainless steel	1.4436	316
178b	Washer	Stainless steel	DIN 433	
181a	Screw	Stainless steel	1.4436	316
181	Cable			

Pos.	Component	Material	DIN W.-No./ EN standard	AISI/ ASTM
181b	EMC cable/shield			
182	Screw	Stainless steel	1.4436	316
182b	Hexagon socket head cap screw	Stainless steel	1.4436	316
182c	Washer			
182d	O-ring			
183	Screw			
184b	Screw	Stainless steel	1.4436	316
184c	Washer	Stainless steel	DIN 433	
185	Screw			
187	Circlip			
187a	Washer	Stainless steel	1.4436	316
190b	Screw	Stainless steel	1.4408	CF8M
190	Lifting bracket	Stainless steel	1.4408	CF8M
193	Plug	Stainless steel	1.4408	CF8M
198	Rubber seal			
198b	Washer			
198a	Washer			
198c	Disc spring			
520a	Screw	Stainless steel	1.4436	316
520	Moisture switch, top			
520c	Screw			
521	Moisture switch, bottom			
521a	Washer	Zn DIN 127		
521b	Screw			
522	Bracket for moisture switch			
522b*	Washer			
522c	Washer lock			
524	Rubber bush			
524a	Disc spring			
754	Cooling jacket ring			

* Only in Ex pumps

Material declaration:

- Grey cast iron is manufactured according to EN 1561:1997.
- Cast stainless steel is manufactured according to EN 10283:2010.
- Conversion to other standards such as AISI/ASTM is normative, and products are not manufactured according to these.

Pump

Pos.	Component	Material	DIN W.-No./ EN standard	AISI/ ASTM
7a	Rivet			
9a	Key (for keyway)	Stainless steel	1.4436	316
12c	Adjusting screw	Stainless steel	1.4436	316
26	Screw	Stainless steel	1.4436	316
37	O-ring	NBR rubber		
37b	O-ring	NBR rubber		
49	Impeller (closed S-tube®)	Cast iron	EN-GJL-250	A48 35B
		Stainless steel	1.4408	A351 CF8M
			1.4517	316
	Impeller (SuperVortex)	Cast iron	EN-GJS- 500-7	A536 grade 70- 50-05
		Stainless steel	1.4408	A351 CF8M
			1.4517	316
49b	Screw			
49c	Wear ring	Carbon steel		
50*	Pump housing	Cast iron	EN-JL-1040	ASTM A48 Class 40B
66	Impeller washer	Stainless steel	1.4436	316
67	Impeller screw	Stainless steel	1.4436	316
76	Nameplate			
150c	Outer cooling jacket	Stainless steel	1.4301	304
494	Plug	Stainless steel	1.4436	316

Material declaration:

- Grey cast iron is manufactured according to EN 1561:1997.
- Cast stainless steel is manufactured according to EN 10283:2010.
- Conversion to other standards such as AISI/ASTM is normative, and products are not manufactured according to these.

Accessories

Pos.	Component	Material	DIN W.-No./ EN standard	AISI/ ASTM
487	Base stand, horizontal	Galvanised steel		
701*	Auto-coupling base unit	Cast iron or stainless steel		
702	Guide rail bracket	Cast iron or stainless steel		
703*	Guide claw	Cast iron or stainless steel		
704	Rubber seal	Neoprene 60		
705	Screw	Steel 8.8	DN 933	316
731	Base stand, vertical	Galvanised steel		
732	Screw for base stand	Steel 8.8	DN 933	316
733	Flange seal, upper, for base stand			
734	Flange seal, lower, for base stand			
749	Bend	Cast iron		
751	Ring stand	Galvanised steel		
752	Screw for ring stand	Steel 8.8	DN 933	316
753	Flange seal for ring stand			
761	Hose connector	Cast iron or stainless steel		
762	Base plate			
762a	Screw for hose connector** or base plate connector***	Steel 8.8	DN 933	316
763	Flange seal for hose connector			

* Stainless steel available for DN 80 to DN 150

** For dry, vertical installation on vertical stand

*** For dry, vertical installation on concrete base

6. Product description

Features

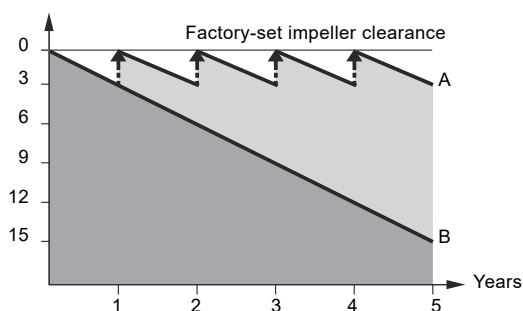
SmartTrim

On conventional pumps, maintaining factory-set impeller clearance is a time-consuming and costly task. The pumps must be disconnected from the pipes and must be totally dismantled, and new parts must be installed in order to maintain full pumping efficiency. Not so with Grundfos SmartTrim!

All Grundfos heavy-duty closed S-tube® impeller pumps, whether for submerged or dry installation, are equipped with the unique SmartTrim impeller clearance adjustment system. This enables you to easily restore the factory-set impeller clearance and maintain peak pumping efficiency. All you need to do is to tighten the adjustment screws on the exterior of the impeller housing. This can be done quickly and easily on site, without dismantling the pump or without using special tools.

For a video presenting the SmartTrim assembly, click here. (<https://youtu.be/QZ6AodFNPBM>)

Efficiency drop in %



TM04 2391 2508

A: With Grundfos SmartTrim impeller clearance adjustment system

B: Without impeller clearance adjustment system

SmartSeal

The Grundfos SmartSeal auto-coupling gasket mounted on the pump outlet flange provides a completely leak-proof connection between the pump and the base unit of the auto coupling. This optimises the efficiency of the entire pumping system and keeps operating costs at a minimum.

Ball bearings

The bearings are greased for life.

Main bearing: Double-row angular sealed contact ball bearing.

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

Shaft seal



Gr-1014783

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 a shorter assembly length compared to conventional shaft seals. Furthermore, this design minimises the risk of incorrect fitting.

The seal faces of the primary shaft seal are SiC/SiC and the seal faces of the secondary shaft seal are carbon A /ceramic.

Motor

SE and SL 9-30 kW motor components are compatible with the IEC, IE3, and NEMA premium efficiency standards.

The motor is a watertight, totally encapsulated motor with:

- insulation class H (180 °C)
- temperature rise class B (80 K)
- enclosure class IP68.

For motor protection and sensors, see [Sensors](#) on page 29.

Power cables

Standard (S1BN8-F)

Cable type [mm ²]	Outer cable diameter [mm]		Minimum bending radius [mm]
	Min.	Max.	
7 x 4 + 5 x 1.5	21.2	22.8	70
7 x 6 + 5 x 1.5	24.5	26.1	80
7 x 10 + 5 x 1.5	25.2	26.8	110

EMC (S1BC4N8-F)

Cable type [mm ²]	Outer cable diameter [mm]		Minimum bending radius [mm]
	Min.	Max.	
3 x 6 + 4 x 2.5 + 5 x 0.5	26.3	28.3	90
3 x 10 + 4 x 2.5 + 5 x 0.5	26.3	28.3	120
3 x 16 + 4 x 4 + 5 x 0.5	26.3	28.3	140

When ordering a pump with an EMC cable, the main supply voltage must always be stated, since connections for correct voltage will be made inside the motor.

The standard cable length is 10 m. Other cable lengths are available on request. See [Variants of customised pumps](#) on page 12.

The cable dimension depends on the motor size.

Surface treatment

Grundfos pumps are given the following surface treatment:

- cathaphoresis treatment of all cast iron parts
- powder painting: NCS 9000N, RAL 9005 (black), gloss code 30, thickness average 150 µm.

Motor liquid

The motor is factory-filled with Grundfos motor liquid SML-3, which is frost-proof down to -20 °C.

Specification of SML-3:

- **Corrosion protection**
Grundfos motor liquid protects metals and alloys in the equipment against all forms of corrosion. The combination of low toxicity and FDA-approved ingredients with a high level of corrosion protection makes Grundfos motor liquid unique in the market. The anti-corrosion performance is demonstrated according to ASTM D 1384.
- **Compatibility and mixability**
Grundfos motor liquid is compatible with most other heat transfer fluids based on mono-propylene glycol. Grundfos motor liquid must only be mixed with clean water. The product can be delivered as a dilution mixed with the proper amount of purified water.
- **Toxicity and safety**
Grundfos motor liquid consists of FDA-approved components for heat transfer fluids with incidental food contact. Neither the Grundfos motor liquid concentrate nor any dilution is classified according to the European Dangerous Preparations Directive.

Cable entry

Watertight stainless-steel cable entry with soft shape and sealing rings to prevent damage of the cable or leaks. The cable entry has a user-friendly design, allowing the user to disconnect the cable in a fast and easy way.

Sensors

SE and SL pumps are available with built-in sensors.

A pump with built-in sensors greatly reduces the risk of downtime and severe damage to your pump as you are informed immediately if a problem occurs.

Sensors can be used for different purposes, depending on pump type and connection. For instance, moisture switches must cut out power in case of water penetrating through the cable entry, cable or shaft seal, while bearing temperature sensors are used for monitoring the temperatures in the bearings.

The standard built-in sensors and the optional sensors are shown in the table below.

	Standard	Sensor version 1	Sensor version 2	Standard Ex	Sensor version 1 Ex	Sensor version 2 Ex
Thermal switch or PTC in windings	•	•	•	•	•	•
Moisture switch in motor top compartment	•	•	•	•	•	•
Leakage switch in leakage chamber	•	•	•			
Leakage switch in bottom of stator housing				•	•	•
Pt1000 in motor winding		•	•		•	•
Pt1000 in upper bearing			•			•
Pt1000 in lower bearing			•			•
PVS3 vibration sensor			•			•
SM 113 sensor module*			•*			•*
IO 113 module**			•**			•**

* For pumps fitted with two power cables, the SM 113 sensor module must be ordered separately and installed in the control cabinet.

** The IO 113 with communication functionality must be chosen and ordered separately.

As standard, the pump is equipped with:

- three thermal switches, one in each phase
- one moisture switch below the motor top cover
- one leakage switch in leakage chamber (standard pump) or in bottom of stator housing (standard Ex pump)

Pumps with sensor version 1 are equipped with:

- all sensors from the "standard pump"
- Pt1000 sensor in stator winding for temperature measurement.

Pumps with sensor version 2 are equipped with:

- all sensors from the "standard pump"
- Pt1000 sensor in stator winding for temperature measurement
- Pt1000 sensor in upper and lower bearing for temperature measurement
- SM 113 sensor module.

IO 113 with communication functionality

Gr-1014619

The IO 113 with communication functionality is a protection module for Grundfos wastewater pumps. The IO 113 with communication functionality has inputs for digital and analog pump sensors and can stop the pump if a sensor indicates a pump fault.

The IO 113 with communication functionality is connected to the Dedicated Controls system and allows advanced monitoring functions:

- motor temperature
- moisture in motor
- insulation resistance.

SM 113 sensor module

Gr-1014621

The SM 113 sensor module is used for collection and transfer of sensor data. The SM 113 sensor module works together with the IO 113 through power line communication using the Grundfos GENIbus protocol.

The SM 113 sensor module can collect data from:

- 3 current sensors, 4-20 mA
- 3 Pt1000 thermal sensors
- 1 PTC thermal sensor
- 1 digital input.

PVS 3 (pump vibration sensor)

TM07 7106 2920

The pump vibration sensor monitors the vibration level of the pump in three axes. A change in the vibration level indicates an irregular situation, which can be caused by a clogged impeller, worn bearings or a closed outlet valve. Service inspection should be carried out to protect the pump and the pipe system from damage.

MP 204

Gr-1015249

MP 204 can be used as a stand-alone motor protector or it can be incorporated in a Grundfos Dedicated Controls system, where it functions as a motor protector. The pump is protected secondarily by measuring the temperature with a Pt100 sensor and a PTC sensor or thermal switch.

Customised sensor options

1. Each motor winding has three built-in thermistors which can be used instead of the normal thermal switches. If used, a relay is needed to disconnect power in case of excess temperature.
2. The stator temperature sensor is an analogue sensor. Especially for versions without a cooling jacket, a temperature sensor in the stator can be used to give a warning well before the stator/bearings or other parts have reached a harmful temperature and well before the built-in thermal protection cuts-out the motor on overtemperature. In this way, customers can operate the pump with the stator housing above liquid level, provided that it is for short periods and with long intervals.
3. The bearing temperature sensors for upper and lower bearing temperature are PT1000 type sensors.
4. The pump vibration sensor is a Grundfos PVS3 vibration sensor (4-20 mA analogue sensor). The vibration sensor monitors the vibration level of the pump. A change in the vibration level indicates an abnormal situation. This can be caused by a clogged impeller, worn bearings, a closed outlet valve etc., indicating that service inspection must be carried out in order to protect the pump or the pipe system from being damaged.
5. The winding resistance can be measured via the Grundfos IO 113 module with communication functionality.

Testing

All pumps are tested before leaving the factory. The factory test report is based on ISO 9906:2017, 3B. Test reports can be ordered directly together with the pump or can be ordered separately based on the pump serial number.

Other tests or third party inspection certificates are available on request. See [Variants of customised pumps](#) on page 12.

Operating conditions

SL1, SL2 and SLV pumps without cooling jacket, submerged installation

- Continuous operation when pump is fully submerged to top of motor, see also page 98.
- Intermittent operation with maximum 20 starts per hour when pump is submerged to middle of motor and with short periods of operation down to the top of the pump housing, see also page 98.

Note: Explosion-proof pumps must always be fully submerged.

SL pump installation types

Grundfos SL pumps can be installed vertically and submerged, either permanently on an auto-coupling system or temporarily on a ring stand.

SE1, SE2 and SEV pumps with cooling jacket, submerged or dry installation

- Continuous and intermittent operation with maximum 20 starts per hour with water level down to the top of the pump housing, see also page 98.

SE pump installation types

Grundfos SE pumps can be installed:

- vertically and submerged, either permanently on an auto-coupling system or temporarily on a ring stand
- vertically and dry, on a base stand (up to 15 kW) or on a concrete foundation (above 15 kW)
- horizontally and dry, on a horizontal base stand.

Frequency converter, CUE



Gr-1031499

Grundfos SE and SL pumps are designed for speed-controlled operation to keep the energy consumption at a minimum.

To avoid the risk of sedimentation in the pipes, operate the speed-controlled pump within a speed range of 30 to 100 % and at a flow rate above 1 m/s.

A frequency converter that is connected to a wastewater pump must be able to deliver a high and constant start torque.

Grundfos offers a range of dedicated Grundfos CUE frequency converters up to 250 kW designed to run wastewater pumps.

A frequency converter offering the possibility to run the wastewater pump in reverse operation is preferable.

For more information, see the installation and operating instructions of the selected frequency converter at www.grundfos.com (Grundfos Product Center).

Pumped liquids

pH value: 6.5 to 14

For fluctuating pH values, the range is pH 4 to 14.

Liquid temperature: 0 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 (maximum 3 min.), a temperature of up to +60 °C is permissible (non-Ex versions only).

Sound pressure

The sound pressure level of the pump is lower than 70 dB.

Motor range

Shaft power [kW]	Number of poles
10	4
11	4 and 6
13	2, 4 and 6
15	2 and 4
16	6
17	2 and 4
18	6
18.5	2 and 4
20	2 and 4
22	2, 4 and 6
24	2
26.5	2

Explosion-proof pumps

Use explosion-proof pumps in potentially explosive environments.

When an explosion-proof pump is operated via frequency converter, the explosion protection classification of the pumps is Ex db IIB T3 Gb.

For a directly driven explosion-proof pump, the explosion protection classification of the pumps is Ex db IIB T4 Gb.

All installations must be approved by the local authorities.

Level controllers

Grundfos offers dedicated pump controllers for monitoring liquid levels in the wastewater collecting tanks to ensure correct operation and protection of the pumps.

Grundfos pump controllers that are ideal to be connected to Grundfos SE and SL pumps include:

- Grundfos Dedicated Controls (DC)
- Grundfos LC controllers

Grundfos DC Controllers



Gi-1016086

Fig. 16 Grundfos Dedicated Controls control cabinet

Grundfos Dedicated Controls (DC) is a control system designed for installation in municipal wastewater transportation, commercial buildings or network pumping stations with up to six wastewater pumps and an optional mixer or a flush valve.

Advanced control and data communication are also possible with the Grundfos Dedicated Controls system. The control cabinets are delivered with a built-in main switch and thermal magnetic circuit breaker.

Features and benefits:

- Advanced Flow Calculation
- Automatic energy optimisation
- Easy installation and configuration
- Configuration wizard
- Electrical overview
- Advanced data communication
- Advanced alarm and warning priority
- Supports several languages
- Daily emptying
- Mixer control or flush valve
- User-defined functions
- Anti-blocking
- Start level variation
- Advanced pump alternation with pump groups
- SMS scheduling
- Communication to SCADA, BMS, GRM or cell phone.

Dedicated Controls is ordered either with or without a built-in communication interface module (CIM).

The communication module enables the possibility for fieldbus protocol (e.g. PROFIBUS DP, Modbus RTU and PROFINET IO/Modbus TCP) and the communication line.

For further information about Grundfos Dedicated Controls, please see Grundfos Product Center:

- Grundfos Dedicated Controls, brochure <http://net.grundfos.com/qr/i/96925597>
- Grundfos iSolutions, brochure <http://net.grundfos.com/qr/i/99249771>
- Grundfos Controls Guide, product guide <http://net.grundfos.com/qr/i/97954965>
- Grundfos Dedicated Controls, data booklet net.grundfos.com/qr/i/98672840.

Additional features, CUE or VFD

The CUE/VFD (optional), which is either a Grundfos variable frequency drive CUE or a general variable frequency drive VFD, offers better pump protection and a more steady flow through the pipe system.

In addition, Grundfos CUE or variable frequency drive VFD offers these features and benefits:

- anti-blocking
 - automatic energy optimisation
 - specific-energy test
 - output frequency
 - monitoring of:
 - voltage*
 - current*
 - phase sequence*
 - power*
 - energy*
 - torque*
 - reverse start**
 - run flushing
 - stop flushing
 - PID control.
- * These functions are only available with a Grundfos CUE.
- ** We do not recommend reversing at full speed at any time. When reduced reverse operation settings are set, make sure constant torque is enabled in Variable Frequency Drive (VFD) (i.e. Grundfos CUE, Siemens Simatic, ABB, Schneider Electric etc.) to have maximum torque available when reversing.

Grundfos LC controllers

The LC 231 pump controller is designed for level control, monitoring and protection of Grundfos pumping stations featuring one pump or two pumps, starting direct-on-line. The LC 231 controller is build into a polymer cabinet.

The LC 241 is a modular pump controller that has a metal or polymer cabinet and can be customised according to your needs.

It is designed for level control, monitoring and protection of Grundfos pumping stations featuring one pump or two pumps, starting direct-on-line with 0-23 A, star-delta with 0-59 A or soft starter with 0-72 A.

Wiring diagrams

Single-cable, star-delta connection

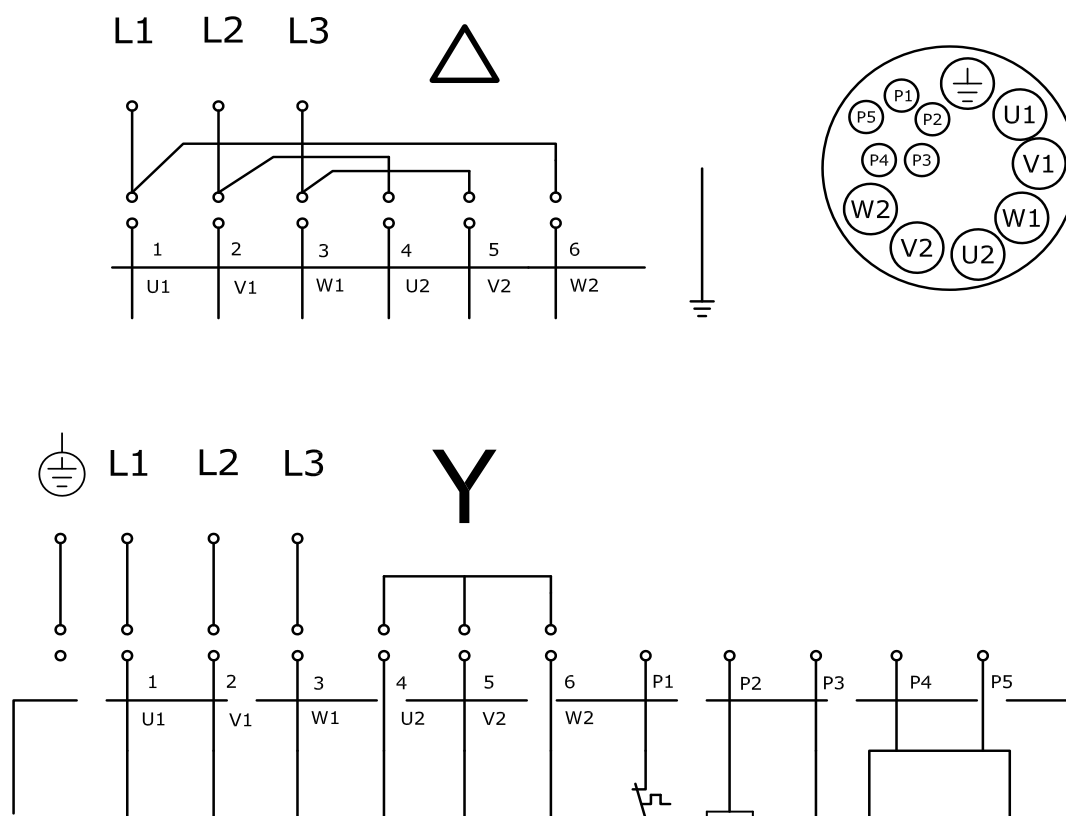


Fig. 17 12-wire, star-delta connections (Y/D)

TM05 2695 0412

EMC single-cable or double-cable



The supply voltage must be stated when ordering the pump, because the pump is connected at the factory according to this information.

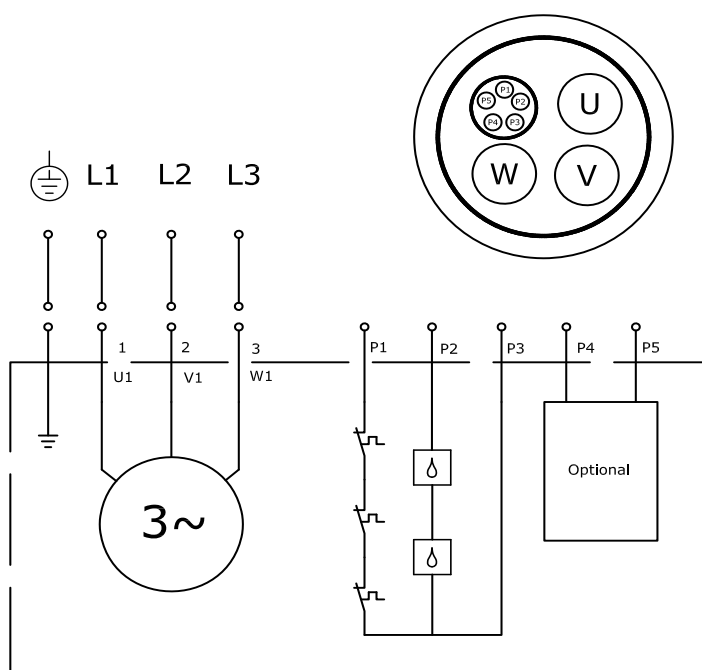


Fig. 18 8-wire, EMC cable

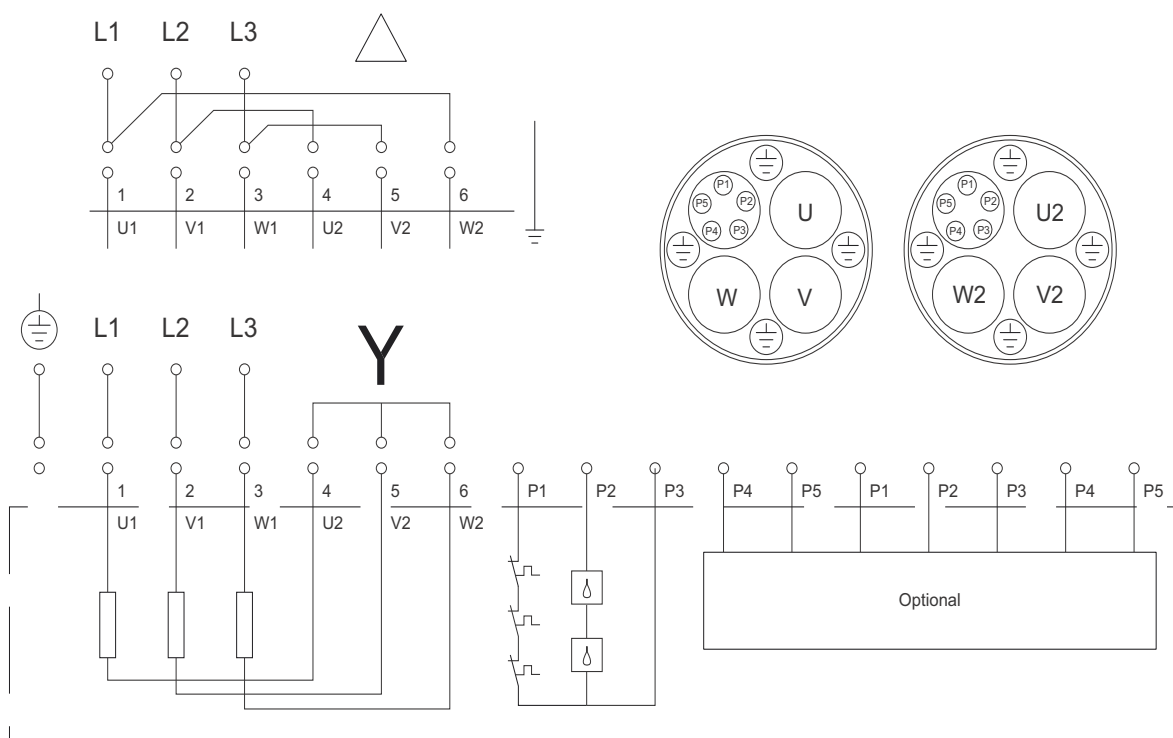


Fig. 19 18-wire / EMC double-cable

TM05 2694 0412

TM07 4220 2919

Sensor wiring

Sensor wiring schematics for single-cable pumps

For sensor versions see [Sensors](#) on page 29.

Standard, single-cable

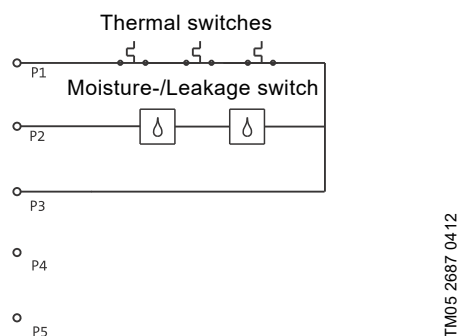


Fig. 20 Standard and Standard Ex, single-cable

Sensor version 1, single-cable

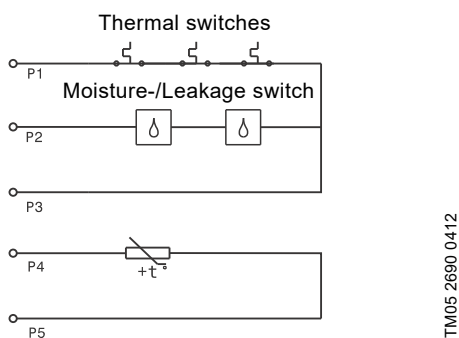


Fig. 21 Sensor version 1 and sensor version 1 Ex, single-cable

Sensor version 2, single-cable

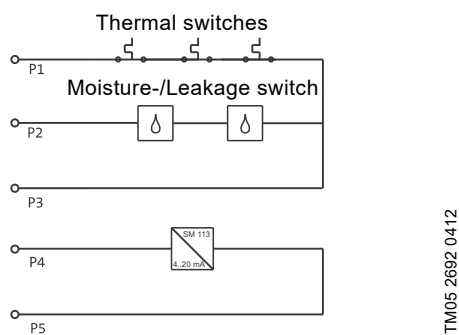


Fig. 22 Sensor version 2 and sensor version 2 Ex, single-cable

Sensor wiring schematics for double-cable pumps

For sensor versions see [Sensors](#) on page 29.

Standard, double-cable

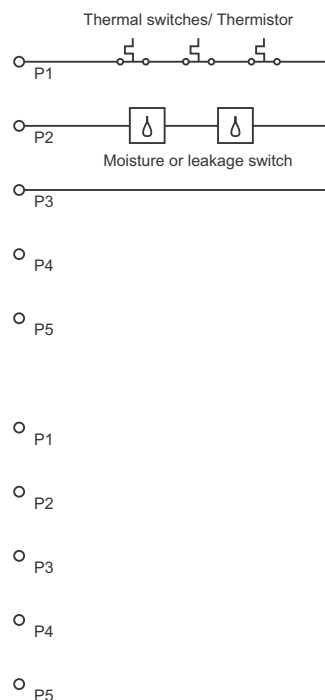


Fig. 23 Standard and Standard Ex, double-cable

Sensor version 1, double-cable

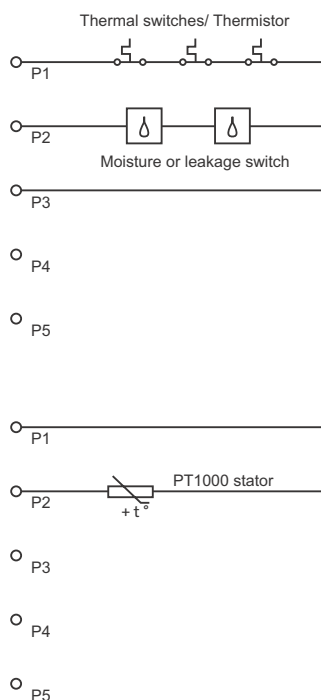


Fig. 24 Sensor version 1 and Sensor version 1 Ex, double-cable

Sensor version 2, double-cable

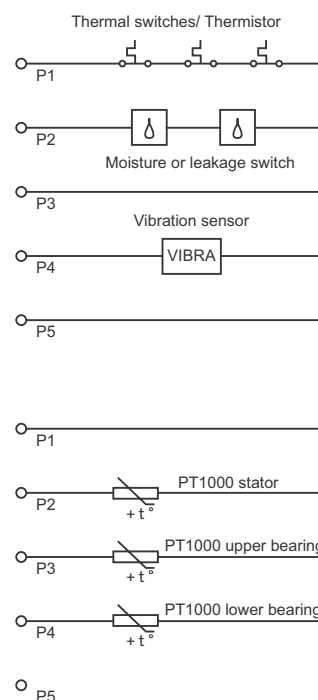
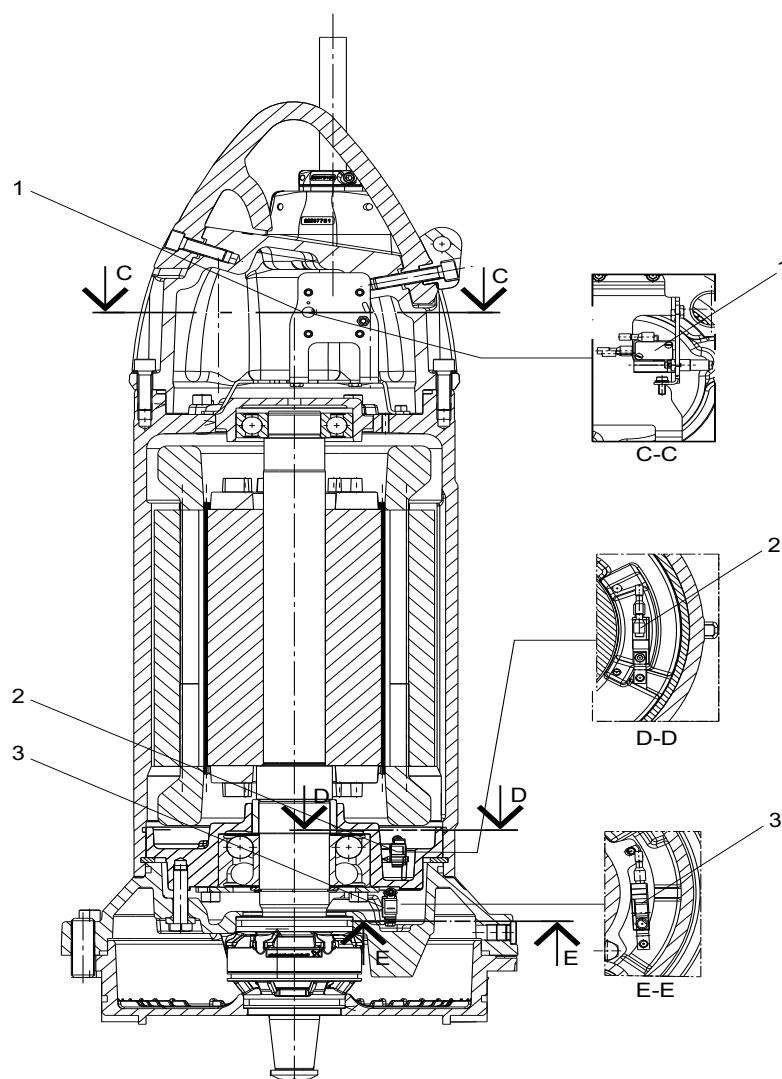


Fig. 25 Sensor version 2 and Sensor version 2 Ex, double-cable



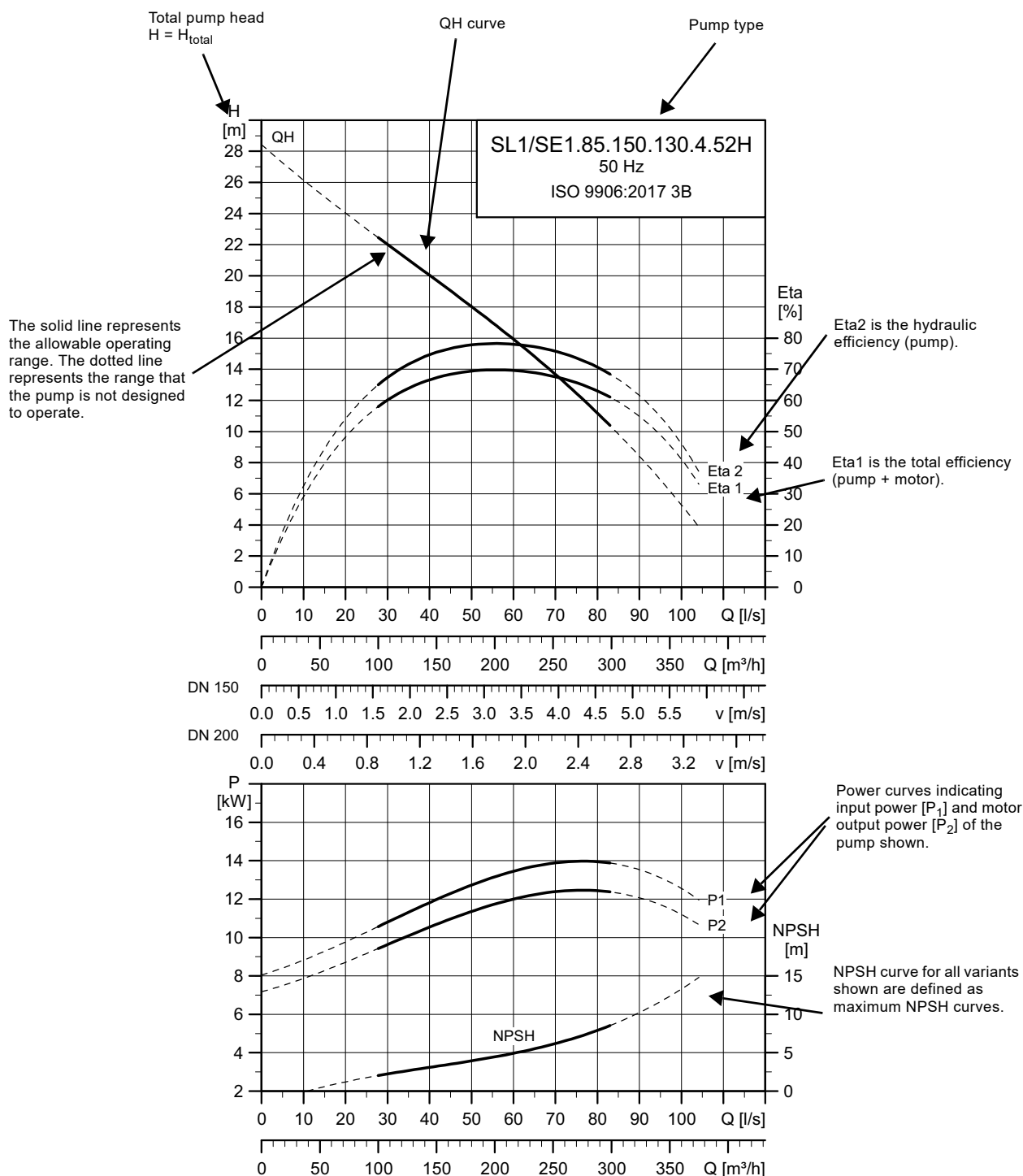
TM05 4342 0420

Fig. 26 Sensor positions

Pos.	View	Description
1	C-C	Moisture switch
2	D-D	Leakage switch in stator housing, for Ex motors
3	E-E	Leakage switch in leakage chamber, for standard motors

7. Curve charts and technical data

How to read the curve charts



TM05 3627 1419

Note: Pumps are tested according to ISO 9906:2017 grade 3B tolerances. Testing equipment and measuring instruments are designed and calibrated according to the standards mentioned. The pumps are approved according to tolerances for the entire curve, specified in grade 3B.

Curve conditions

The guidelines below apply to the curves shown in the performance charts on pages 40-90.

- Tolerances according to: ISO 9906:2017, grade 3B.
- The curves show pump performance with different impeller diameters at rated speed.
- The curves apply to the pumping of airless water at a temperature of +20 °C and a kinematic viscosity of 1 mm²/s (1 cSt).
- **ETA:** The lines show the hydraulic efficiency values of the pump for the different impeller diameters.
- **NPSH:** The curves show maximum NPSH values according to ISO 9906:2017.
- In case of densities other than 1000 kg/m³, the outlet pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m³, 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.

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

H_{geo} : Height difference between measuring points.

H_{stat} : Differential head between the inlet and the outlet side of the pump.

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

Performance tests

The requested duty point for every pump is tested according to ISO 9906:2017, grade 3B, 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 rate of the published performance curve which is related to the ordered impeller diameter (according to ISO 9906:2017, grade 3B).

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 as follows:

- certificate of compliance with the order (EN 10204 - 2.1)
- pump test sheet.

Witness test

When the pumps are being tested or are tested with a certification, the customer is able to witness the testing procedure according to ISO 9906:2017.

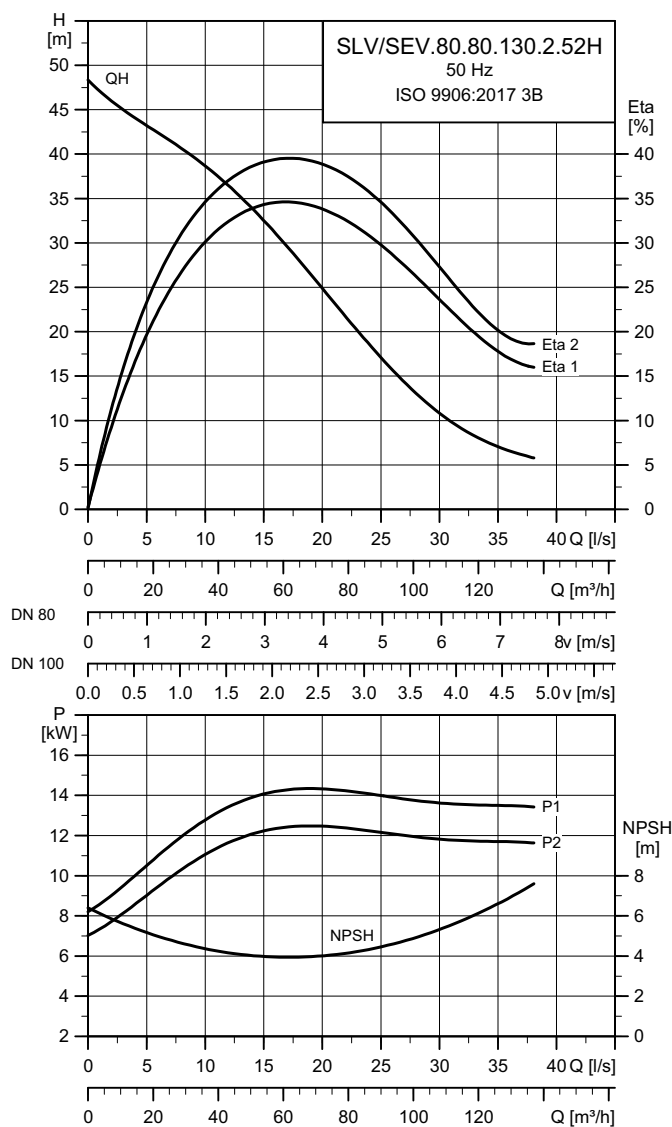
The witness test is not a certificate and will not result in a written statement from Grundfos. The witness test only guarantees that everything is carried out as prescribed in the testing procedure.

If the customer wants to carry out a witness test of the pump performance, such request must be indicated on the order.

8. Performance curves and technical data

SuperVortex impeller

SLV/SEV.80.80.130.2.52H



TM05 3639 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \varphi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SLV/SEV.80.80.130.2.52H	380-415 660-690	15	13	2	2947	Y/D	27-25 16-15	245 138	79 82 86	0.72 0.81 0.86	0.0490	137

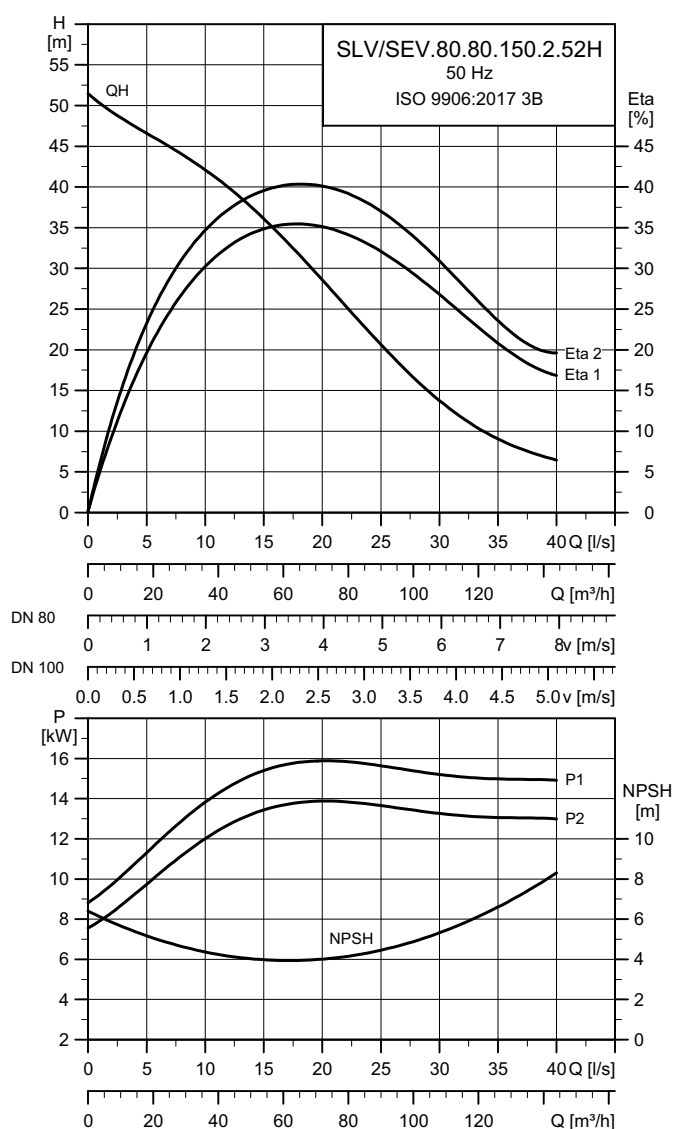
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SLV/SEV.80.80.130.2.52H	221.5	80	10	20

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.80.80.150.2.52H



TM05 3638 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SLV/SEV.80.80.150.2.52H	380-415 660-690	17	15	2	2947	Y/D	30-28 18-17	245 138	80 84 88	0.75 0.84 0.88	0.0490	137

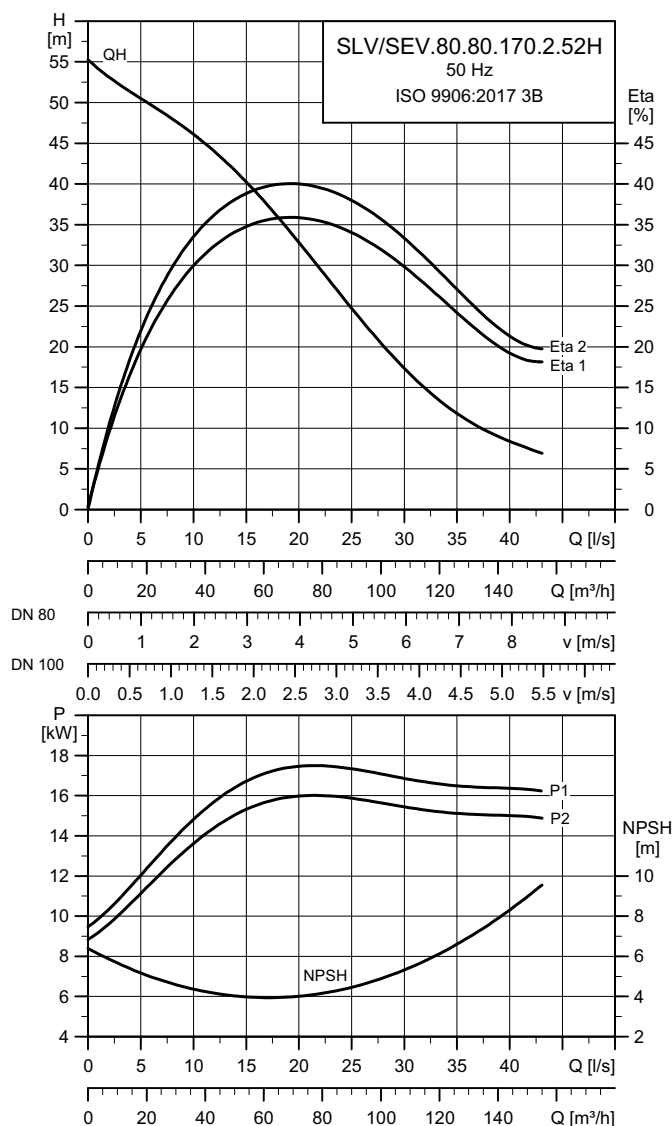
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SLV/SEV.80.80.150.2.52H	228	80	10	20

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.80.80.170.2.52H



TM05 3620 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SLV/SEV.80.80.170.2.52H	380-415 660-690	19	17	2	2950	Y/D	34-32 20-19	318 175	84 88 88	0.73 0.82 0.86	0.0580	210

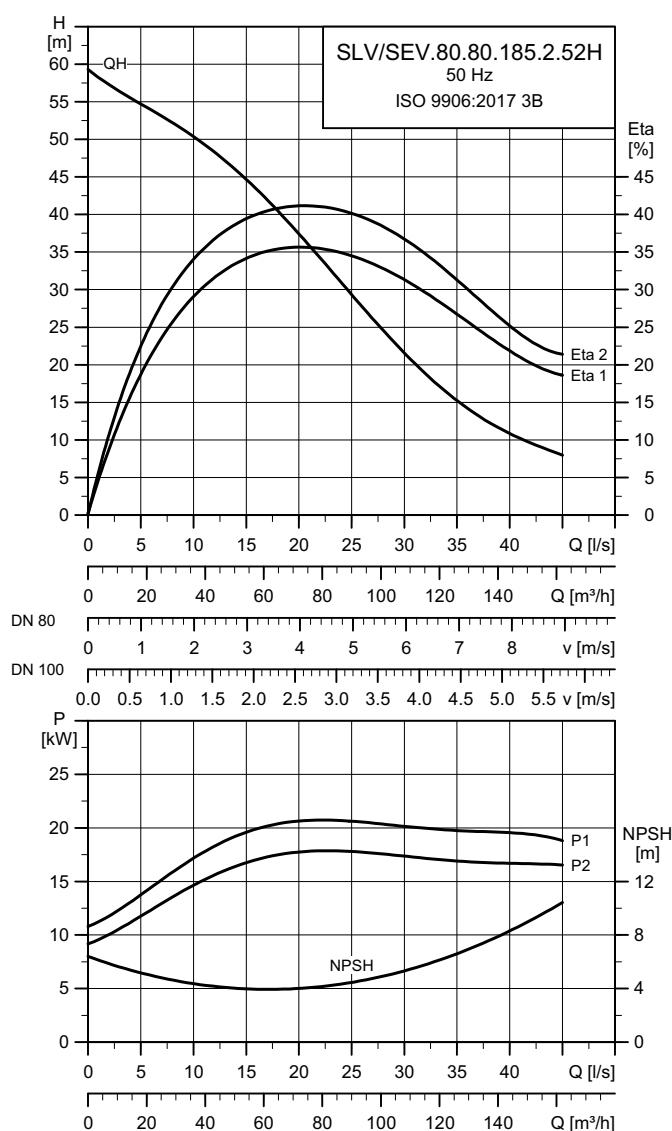
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SLV/SEV.80.80.170.2.52H	235	80	10	20

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.80.80.185.2.52H



TM05 3600 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			$\eta_{motor} [\%]$			$\cos \phi$			Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.80.80.185.2.52H	380-415 660-690	21	18.5	2	2950	Y/D	38-35 22-21	318 175		85	88	88	0.75	0.84	0.86				0.0580	210

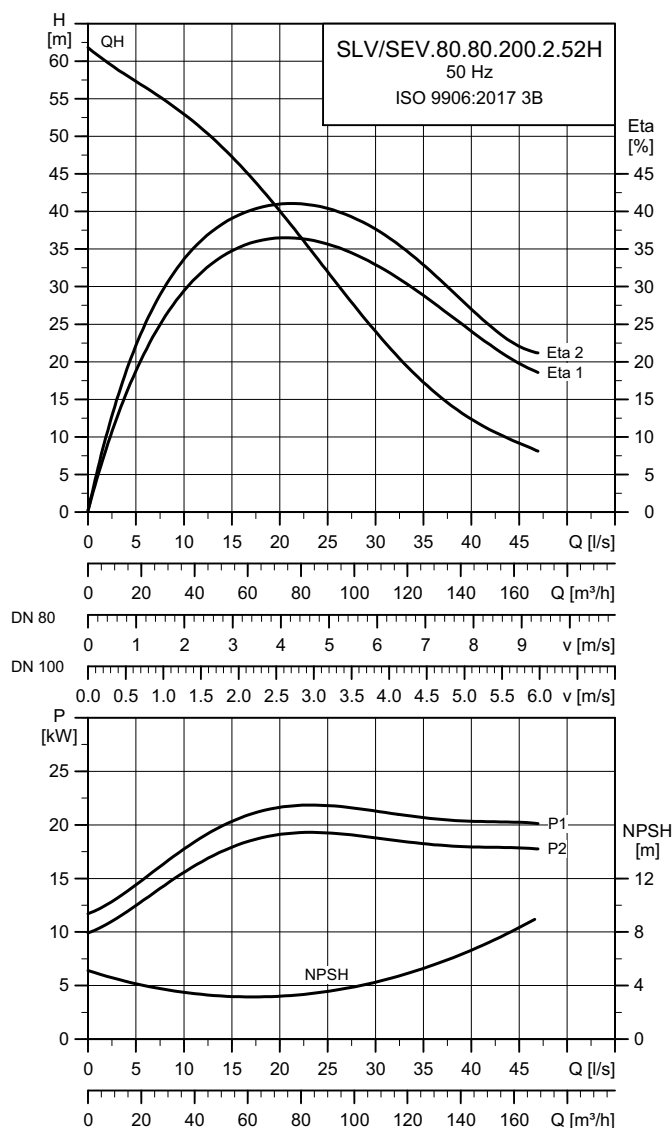
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SLV/SEV.80.80.185.2.52H	242	80	10	20

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.80.80.200.2.52H



TM05 3619 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SLV/SEV.80.80.200.2.52H	380-415 660-690	23	20	2	2937	Y/D	39-36 23-22	388 213	85 88 88	0.79 0.86 0.89	0.0650	228

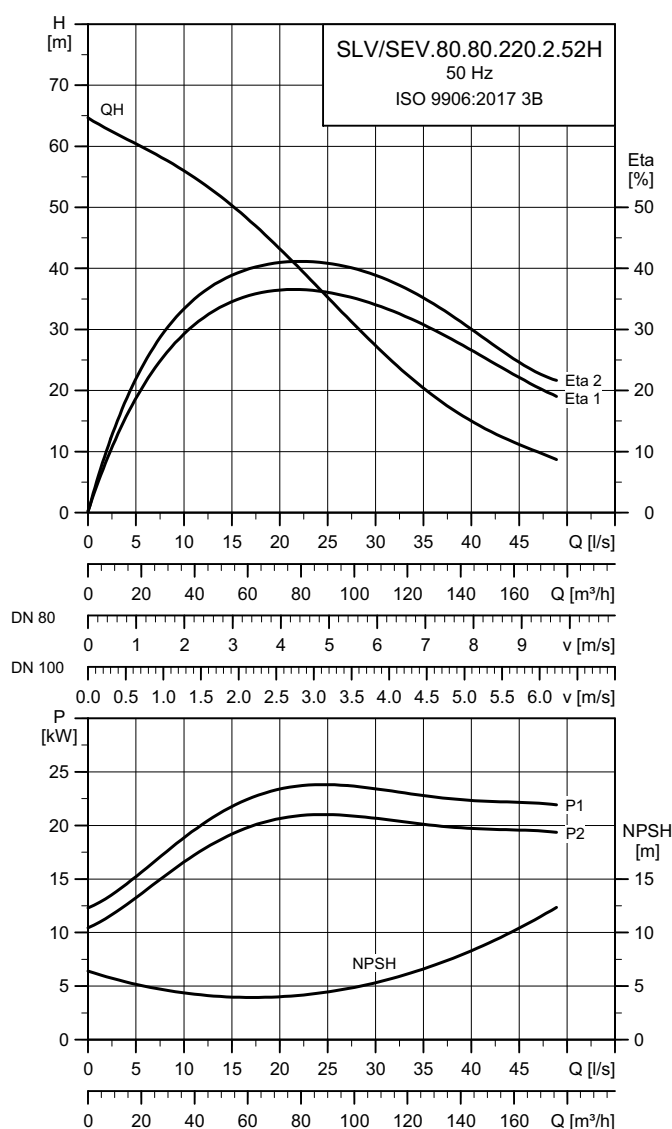
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SLV/SEV.80.80.200.2.52H	247	80	10	20

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.80.80.220.2.52H



TM05 3599 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \phi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.80.80.220.2.52H	380-415 660-690	25	22	2	2937	Y/D	43-40 25-24	388 213		86	88	88	0.81	0.87	0.89				0.0650	228

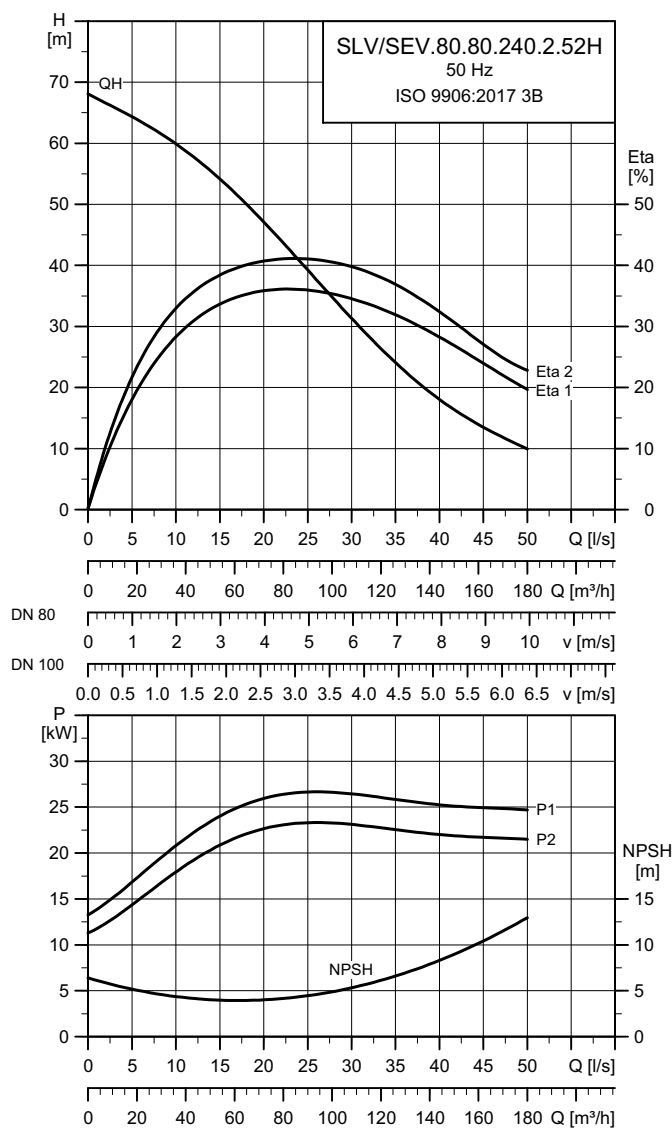
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SLV/SEV.80.80.220.2.52H	253	80	10	20

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.80.80.240.2.52H



TM05 3618 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N		I_{start}		η_{motor} [%]			$\cos \varphi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.80.80.240.2.52H	380-415 660-690	27	24	2	2955	Y/D	51-47 30-28	582 320	84	86	88	0.69	0.77	0.82			0.0650	228

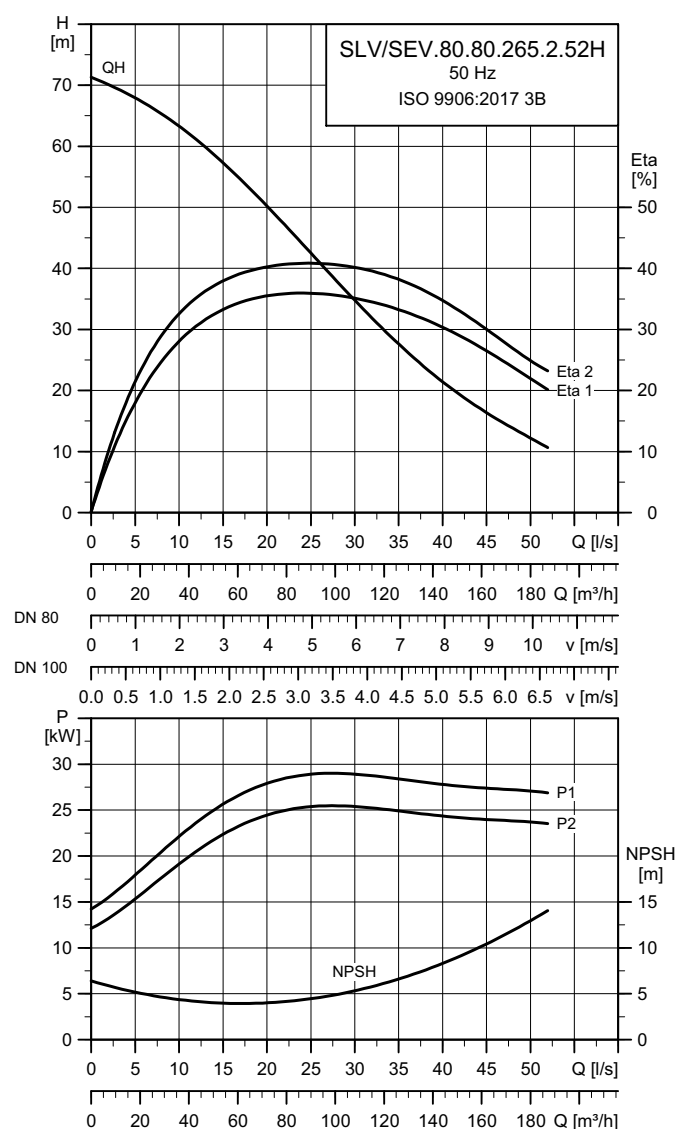
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SLV/SEV.80.80.240.2.52H	262	80	10	20

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.80.80.265.2.52H



TM05 3598 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]	Cos φ	Moment of inertia [kgm²]	Breakdown torque M _{max} [Nm]
SLV/SEV.80.80.265.2.52H	380-415 660-690	30	26.5	2	2955	Y/D	56-51 32-31	582 320	85 87 88	0.71 0.79 0.83	0.0650	228

Note: Enclosure class: IP68

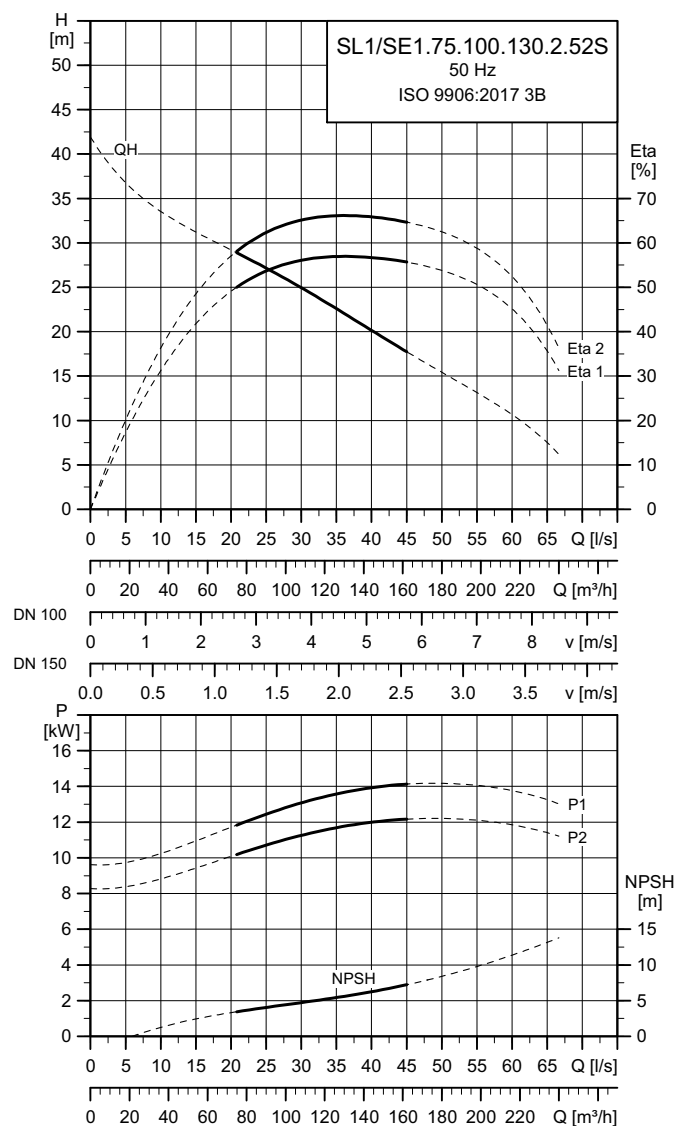
Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SLV/SEV.80.80.265.2.52H	271	80	10	20

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

S-tube® impeller

SL1/SE1.75.100.130.2.52S



TM05 3624 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL1/SE1.75.100.130.2.52S	380-415 660-690	15	13	2	2973	Y/D	27-25 16-15	245 138	79 82 86	0.72 0.81 0.86	0.0490	137

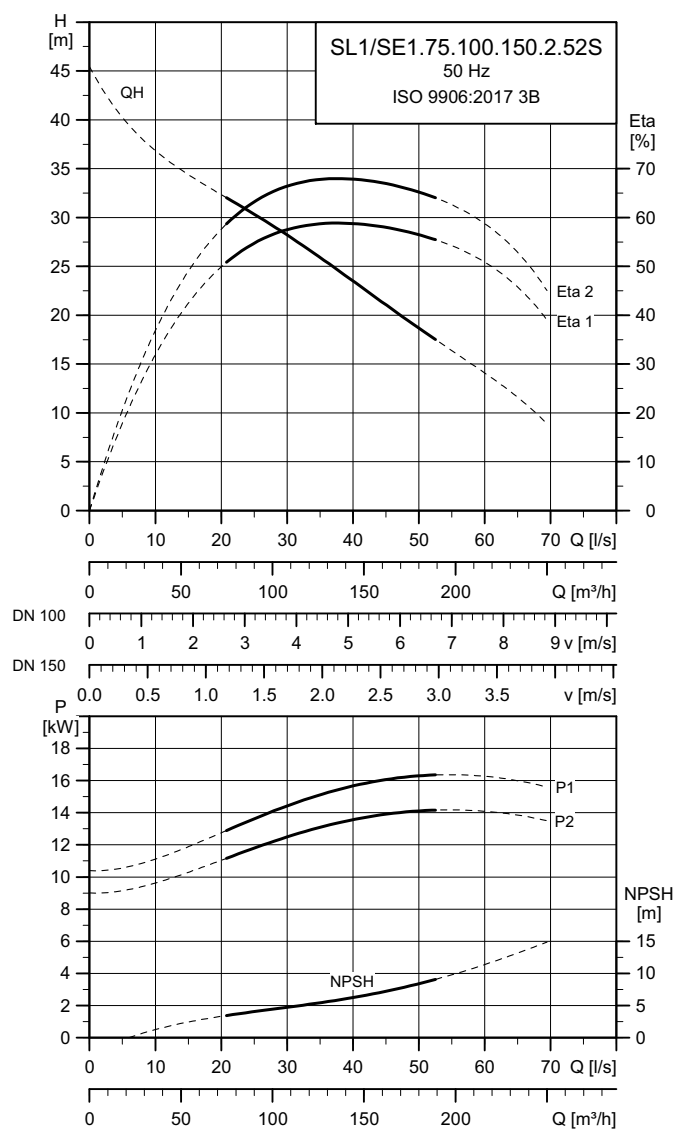
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.75.100.130.2.52S	178	75	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.75.100.150.2.52S



TM05 3604 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL1/SE1.75.100.150.2.52S	380-415 660-690	17	15	2	2966	Y/D	30-28 18-17	245 138	80 84 88	0.75 0.84 0.88	0.0490	137

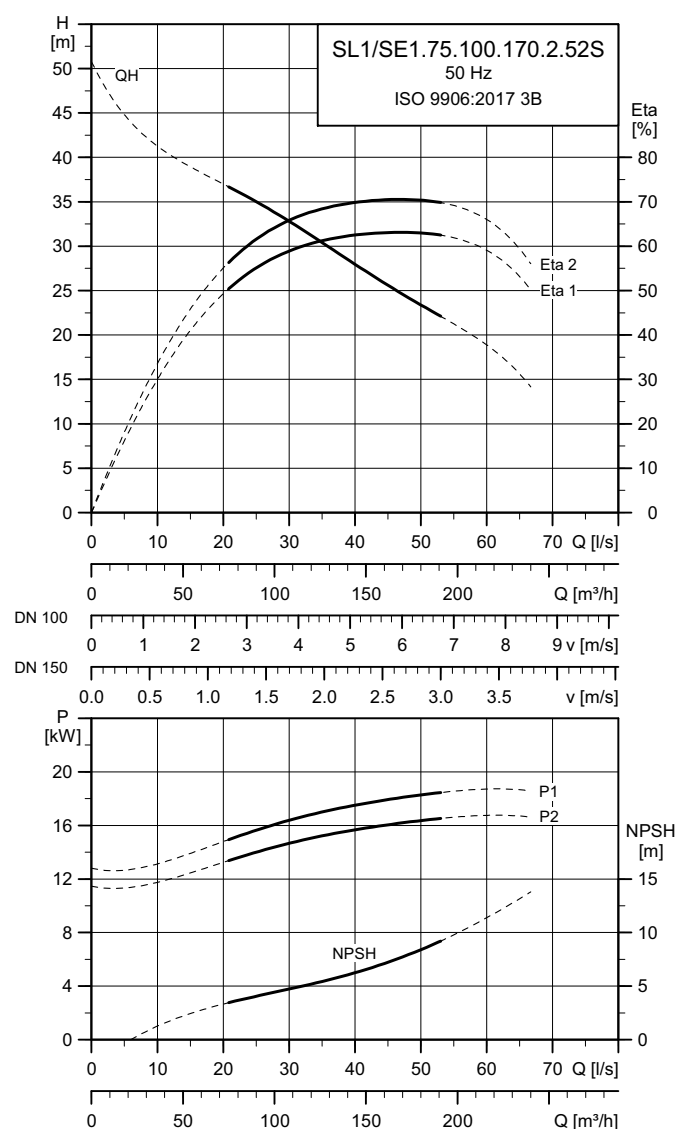
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.75.100.150.2.52S	182	75	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.75.100.170.2.52S



Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N	I _{start}	η _{motor} [%]					Cos φ			Moment of inertia [kgm ²]	Breakdown torque M _{max} [Nm]
							[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1				
SL1/SE1.75.100.170.2.52S	380-415 660-690	19	17	2	2969	Y/D	34-32 20-19	318 175	84	88	88	0.73	0.82	0.86	0.0580	210		

Note: Enclosure class: IP68

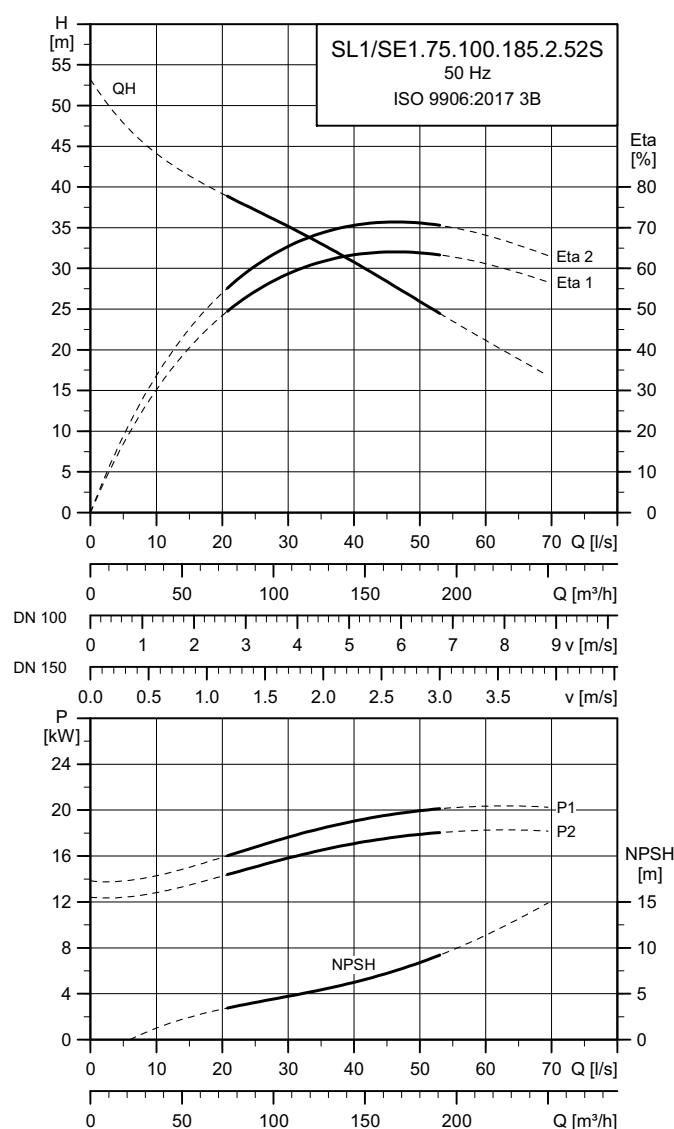
Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.75.100.170.2.52S	186.5	75	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

TM05 3623 3720

SL1/SE1.75.100.185.2.52S



TM05 3603 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL1/SE1.75.100.185.2.52S	380-415 660-690	21	18.5	2	2964	Y/D	38-35 22-21	318 175	85 88 88	0.75 0.84 0.86	0.0580	210

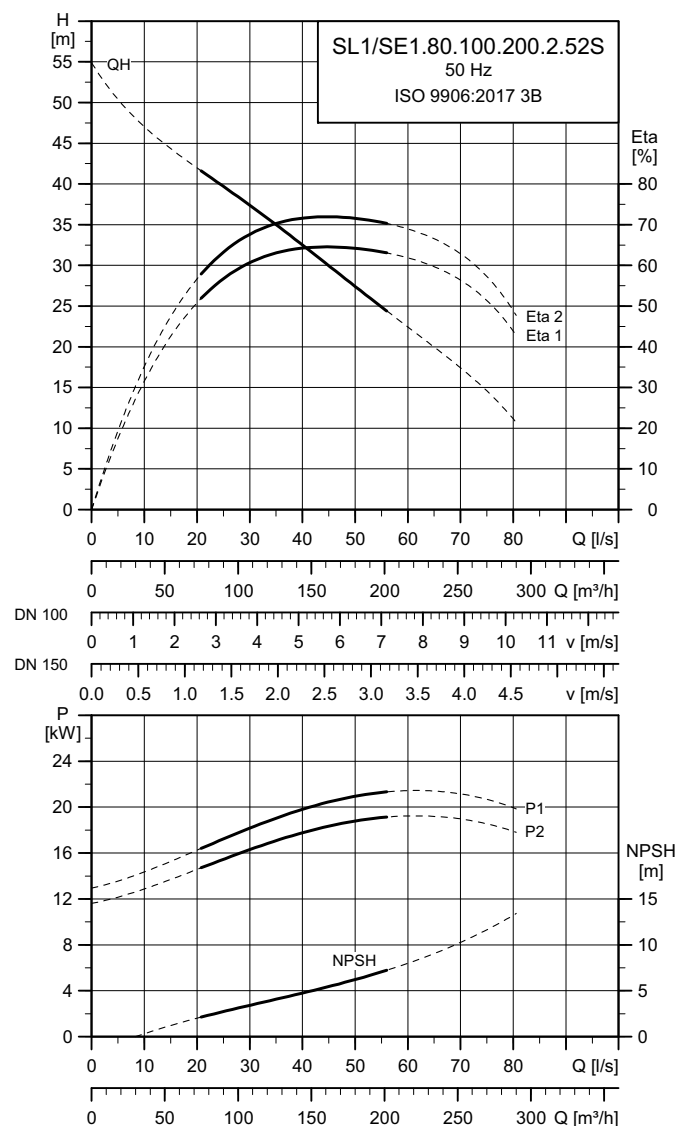
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.75.100.185.2.52S	192	80	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.80.100.200.2.52S



TM05 3622 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL1/SE1.80.100.200.2.52S	380-415 660-690	23	20	2	2968	Y/D	39-36 23-22	388 213	85 88 88	0.79 0.86 0.89	0.0650	228

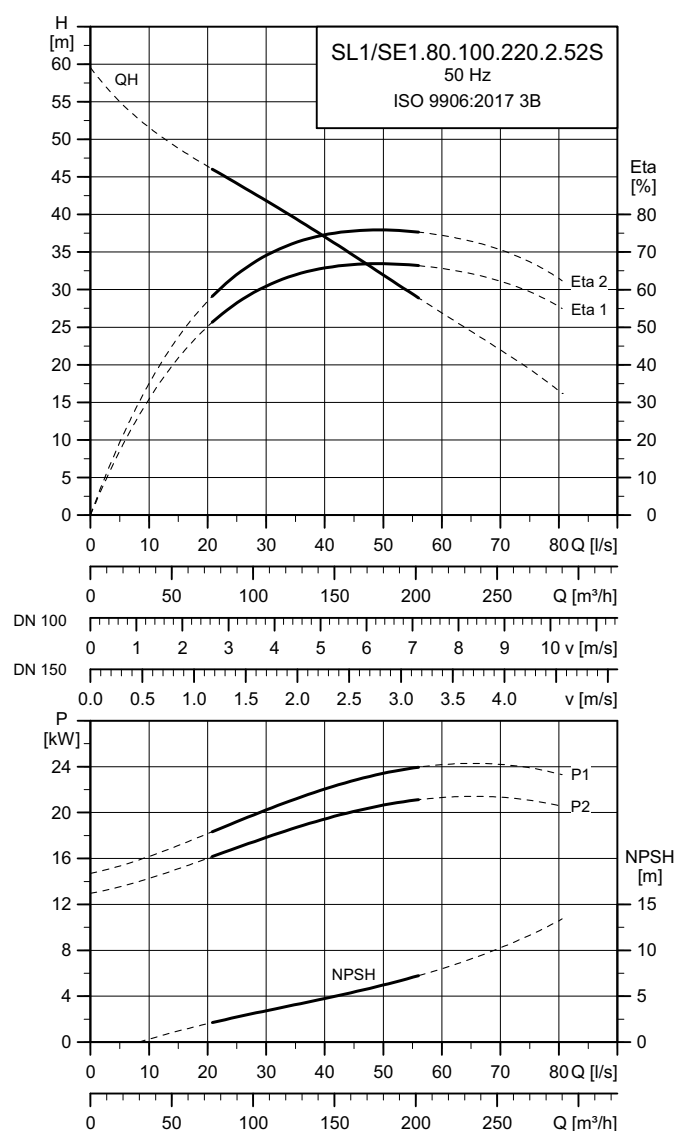
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.80.100.200.2.52S	197.5	80	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.80.100.220.2.52S



TM05 3602 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \varphi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL1/SE1.80.100.220.2.52S	380-415 660-690	25	22	2	2963	Y/D	43-40 25-24	388 213	86 88 88	0.81 0.87 0.89	0.0650	228

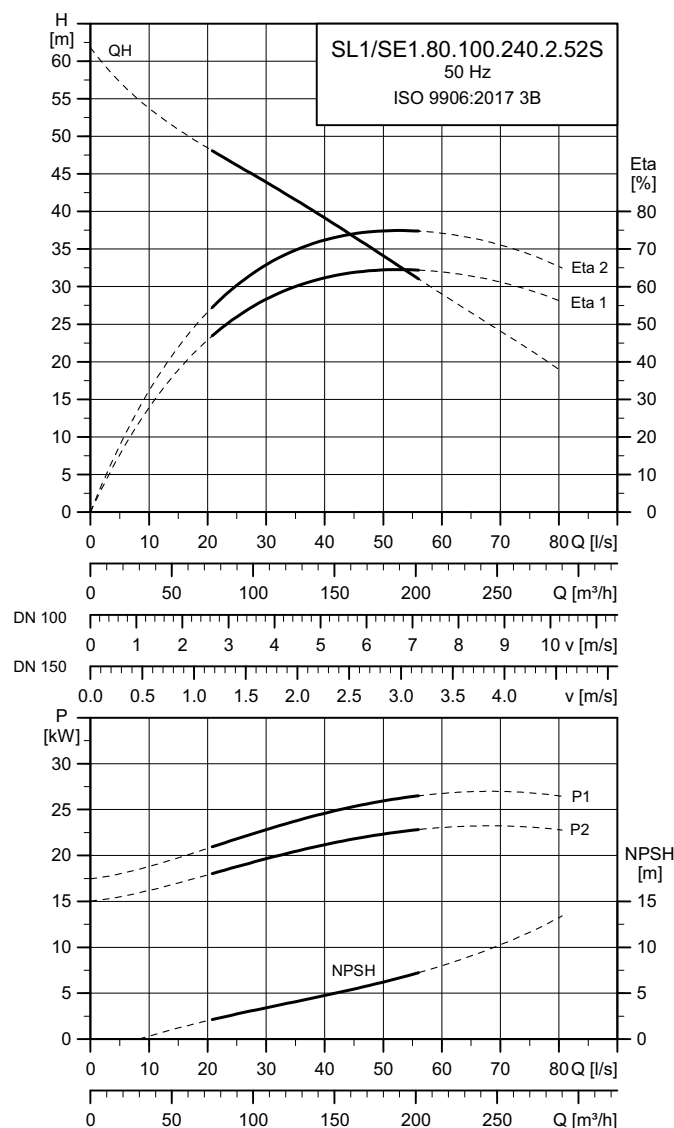
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.80.100.220.2.52S	253	80	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.80.100.240.2.52S



TM05 3621 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL1/SE1.80.100.240.2.52S	380-415 660-690	27	24	2	2971	Y/D	51-47 30-28	582 320	84 86 88	0.69 0.77 0.82	0.0650	228

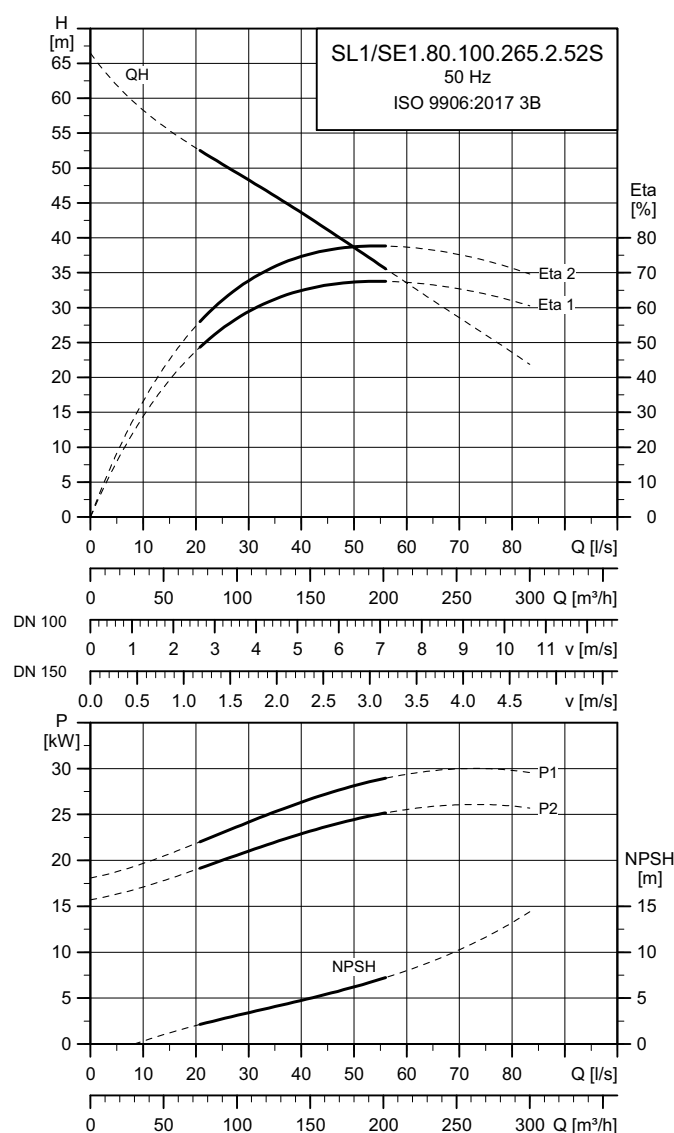
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.80.100.240.2.52S	209	80	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.80.100.265.2.52S



TM05 3601 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL1/SE1.80.100.265.2.52S	380-415 660-690	30	26.5	2	2967	Y/D	56-51 32-31	582 320	85 87 88	0.71 0.79 0.83	0.0650	228

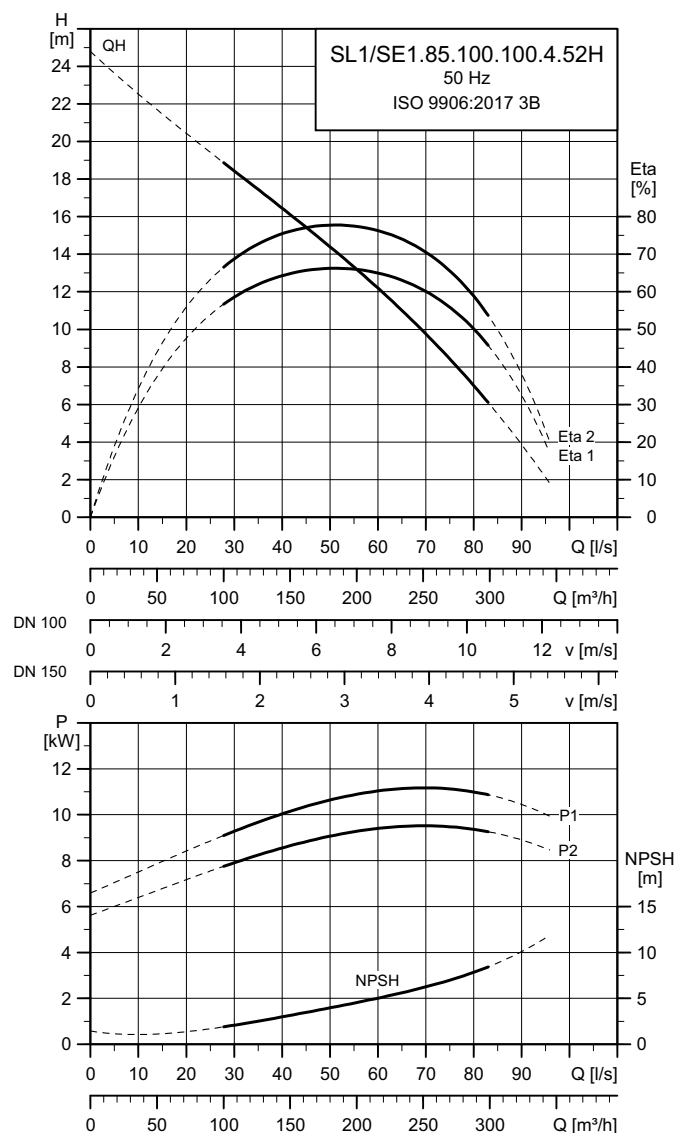
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.80.100.265.2.52S	215	80	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.100.100.4.52H



TM06 6802 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL1/SE1.85.100.100.4.52H	380-415 660-690	12	10	4	1482	Y/D	23-21 13-13	210 116	84 85 86	0.69 0.7 0.80	0.0580	222

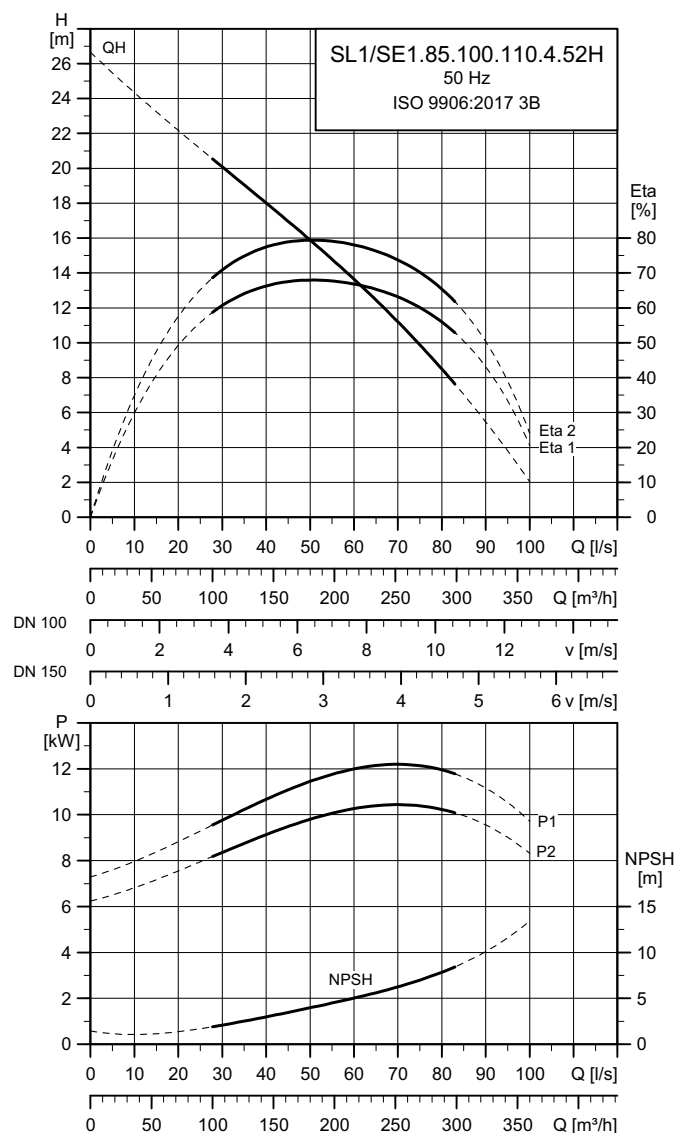
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.100.100.4.52H	266	85	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.100.110.4.52H



TM06 6803 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL1/SE1.85.100.110.4.52H	380-415 660-690	13	11	4	1481	Y/D	24-22 14-13	210 116	84 86 86	0.70 0.76 0.82	0.0580	222

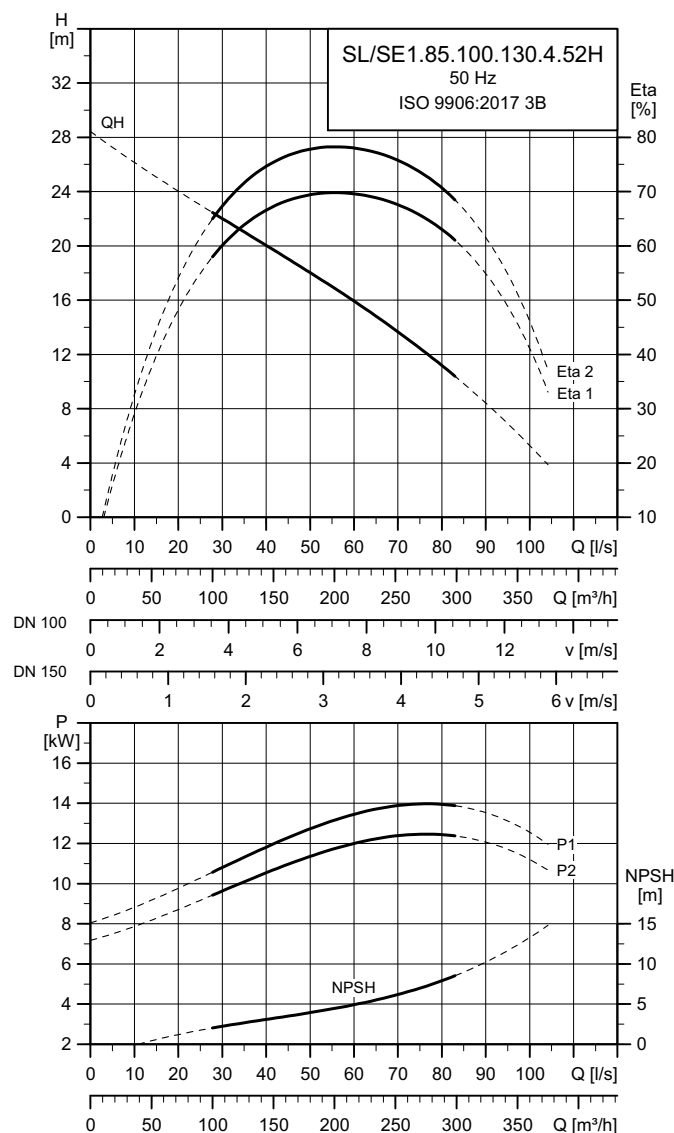
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.100.110.4.52H	276	85	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.100.130.4.52H



TM06 6804 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL1/SE1.85.100.130.4.52H	380-415 660-690	15	13	4	1483	Y/D	28-25 16-15	283 156	87 88 88	0.66 0.77 0.83	0.0750	304

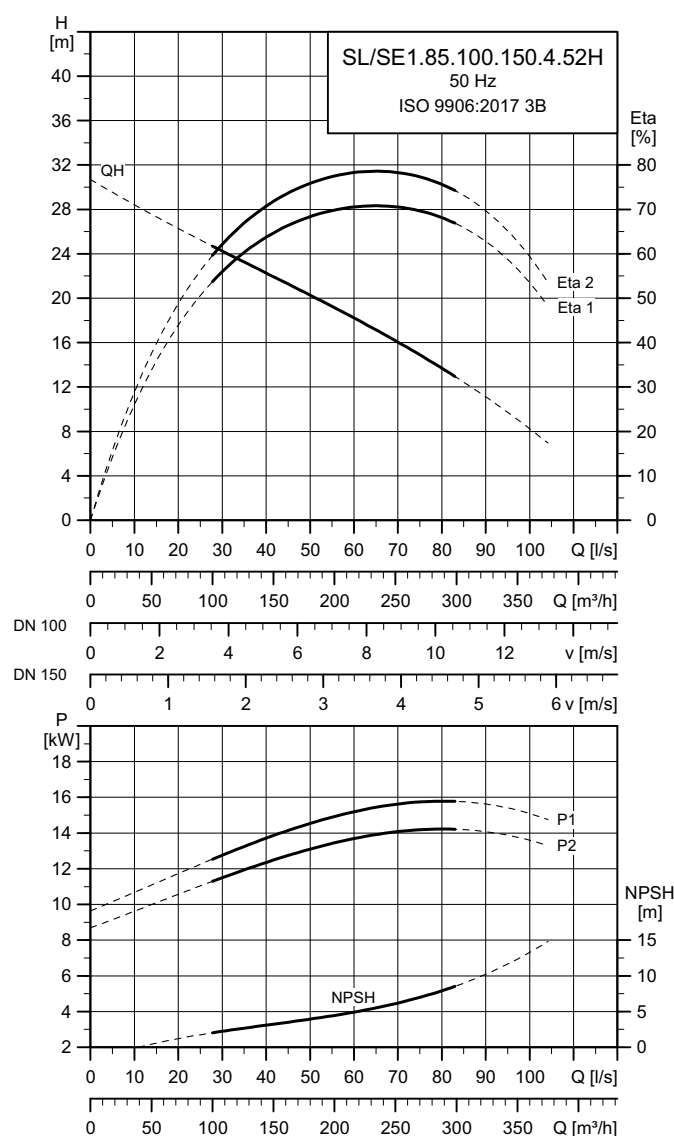
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.100.130.4.52H	281	85	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.100.150.4.52H



TM06 6805 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL1/SE1.85.100.150.4.52H	380-415 660-690	17	15	4	1480	Y/D	31-29 18-17	283 156	87 88 88	0.70 0.80 0.84	0.0750	304

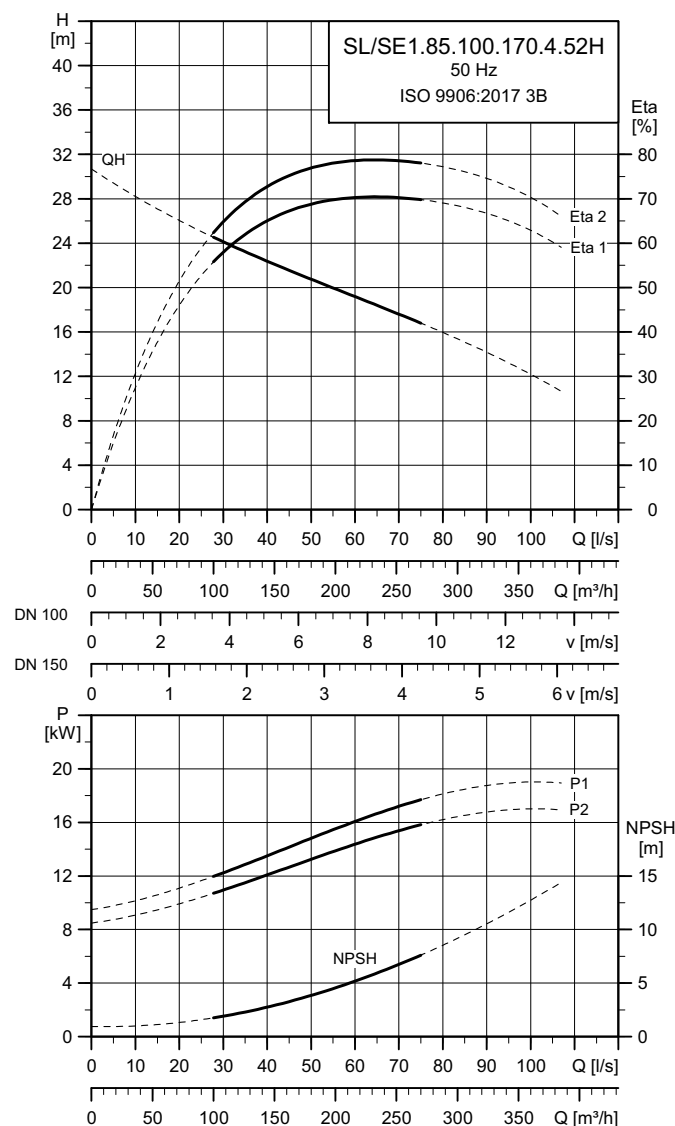
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.100.150.4.52H	292	85	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.100.170.4.52H



TMD 6806 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL1/SE1.85.100.170.4.52H	380-415 660-690	19	17	4	1480	Y/D	39-36 23-22	381 209	84 87 88	0.68 0.72 0.77	0.0750	304

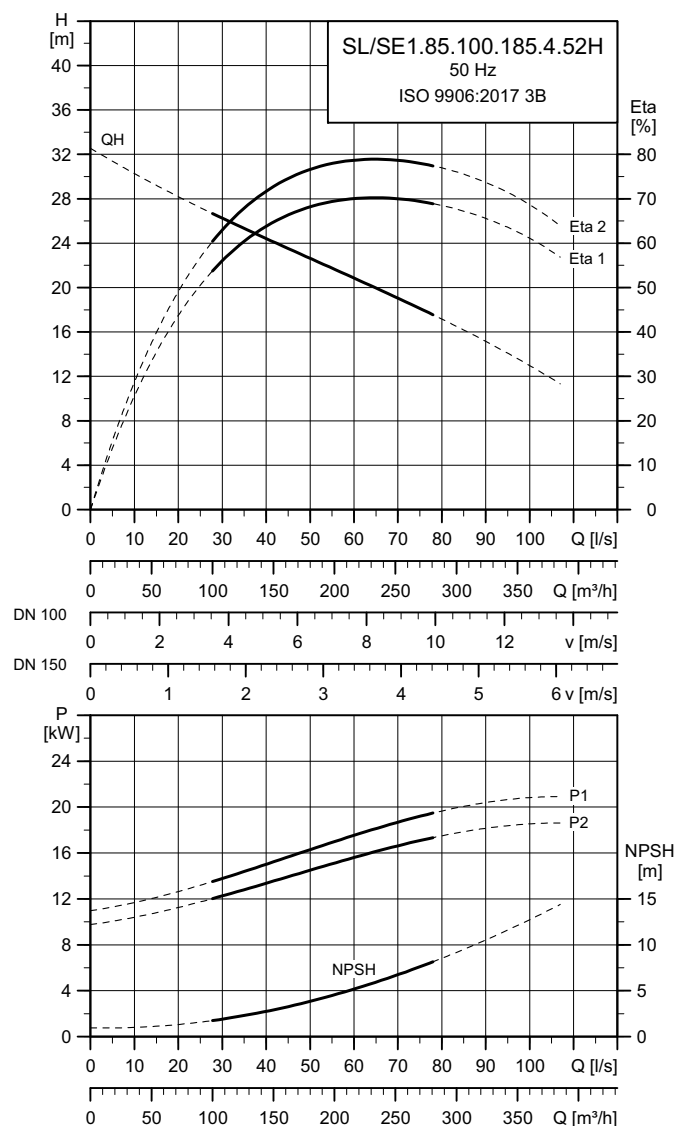
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.100.170.4.52H	293	95	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.100.185.4.52H



TM06 6807 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]	Cos φ	Moment of inertia [kgm²]	Breakdown torque M _{max} [Nm]
SL1/SE1.85.100.185.4.52H	380-415 660-690	21	18.5	4	1479	Y/D	41-37 24-23	381 209	85 87 88	0.69 0.73 0.79	0.0750	304

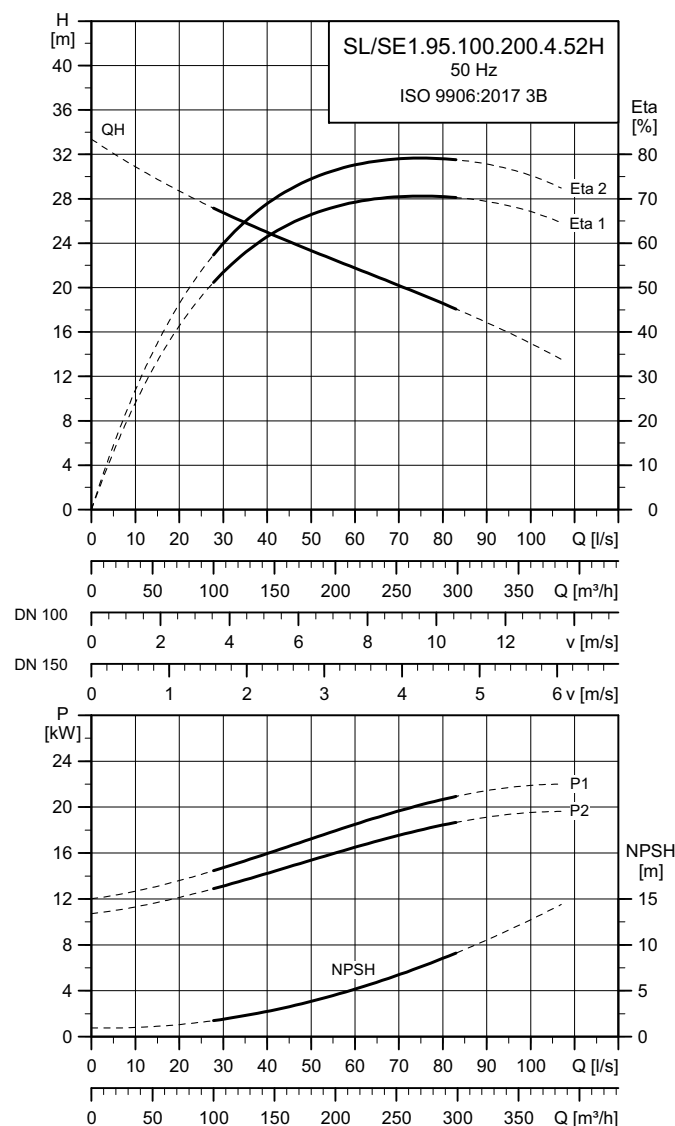
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.100.185.4.52H	299	95	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.95.100.200.4.52H



TM06 6808 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]	Cos φ	Moment of inertia [kgm²]	Breakdown torque M _{max} [Nm]
SL1/SE1.95.100.200.4.52H	380-415 660-690	23	20	4	1478	Y/D	43-39 25-24	381 209	85 88 88	0.69 0.74 0.81	0.0750	304

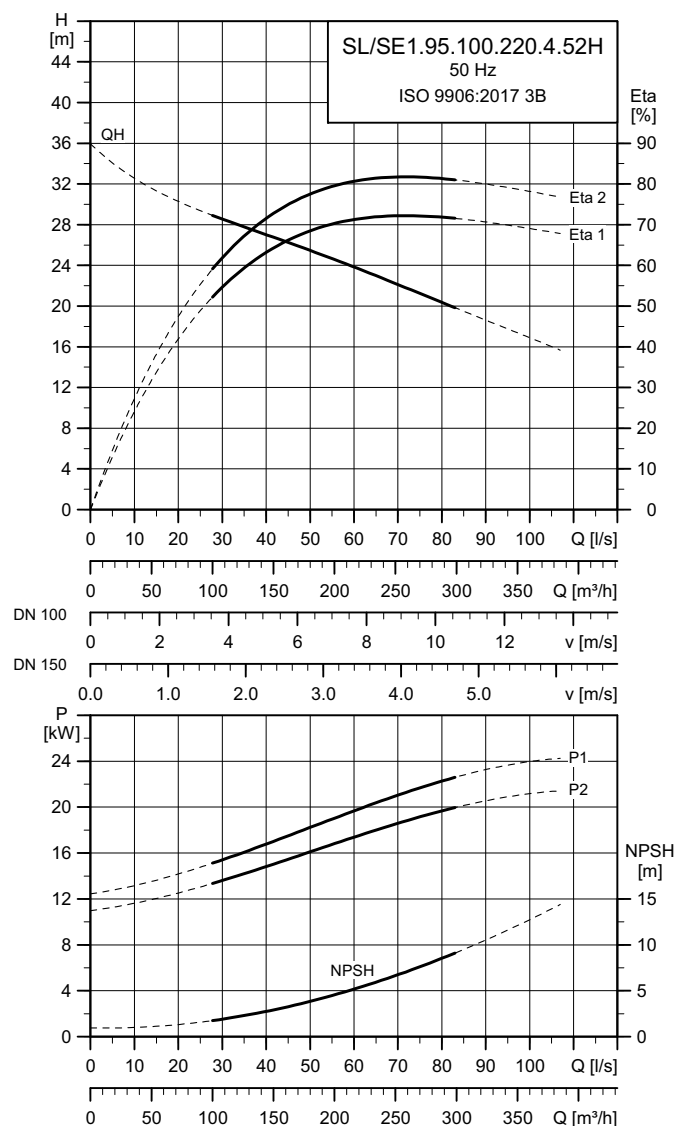
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.95.100.200.4.52H	300	95	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.95.100.220.4.52H



TM06 6809 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]	Cos φ	Moment of inertia [kgm²]	Breakdown torque M _{max} [Nm]
SL1/SE1.95.100.220.4.52H	380-415 660-690	25	22	4	1476	Y/D	45-41 26-25	381 209	86 88 88	0.70 0.76 0.85	0.0750	304

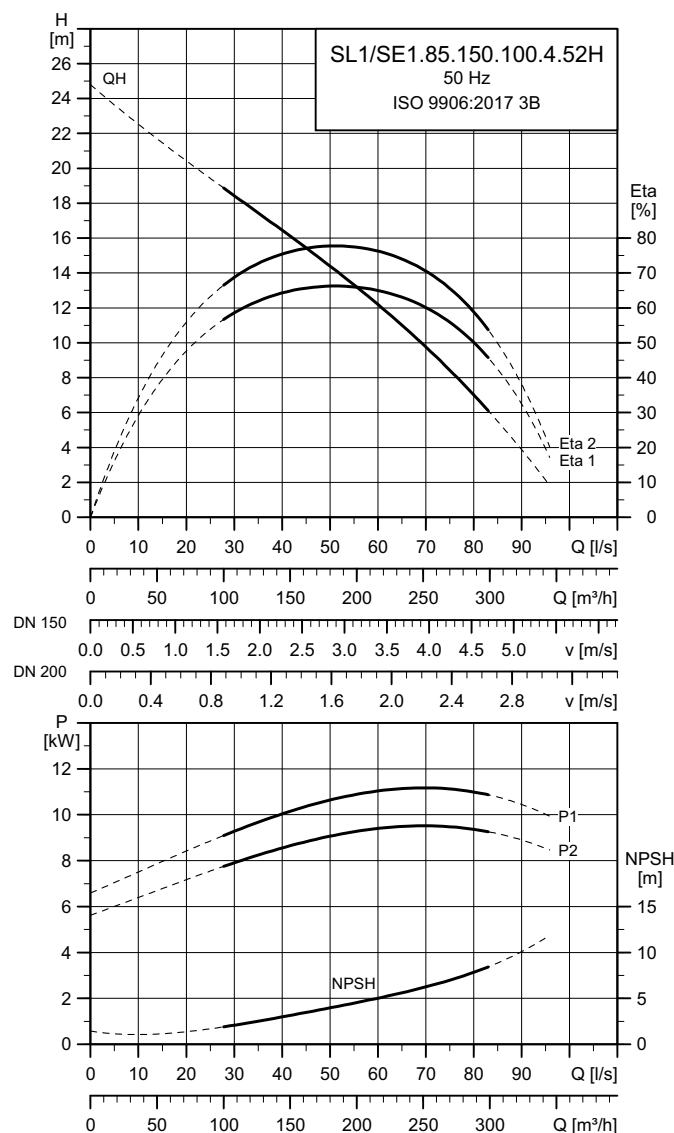
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.95.100.220.4.52H	309	95	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.150.100.4.52H



TM05 3628 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N	I _{start}	η _{motor} [%]					Cos φ			Moment of inertia [kgm ²]	Breakdown torque M _{max} [Nm]
							[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1				
SL1/SE1.85.150.100.4.52H	380-415 660-690	12	10	4	1482	Y/D	23-21 13-13	210 116	84	85	86	0.69	0.74	0.80	0.0580	222		

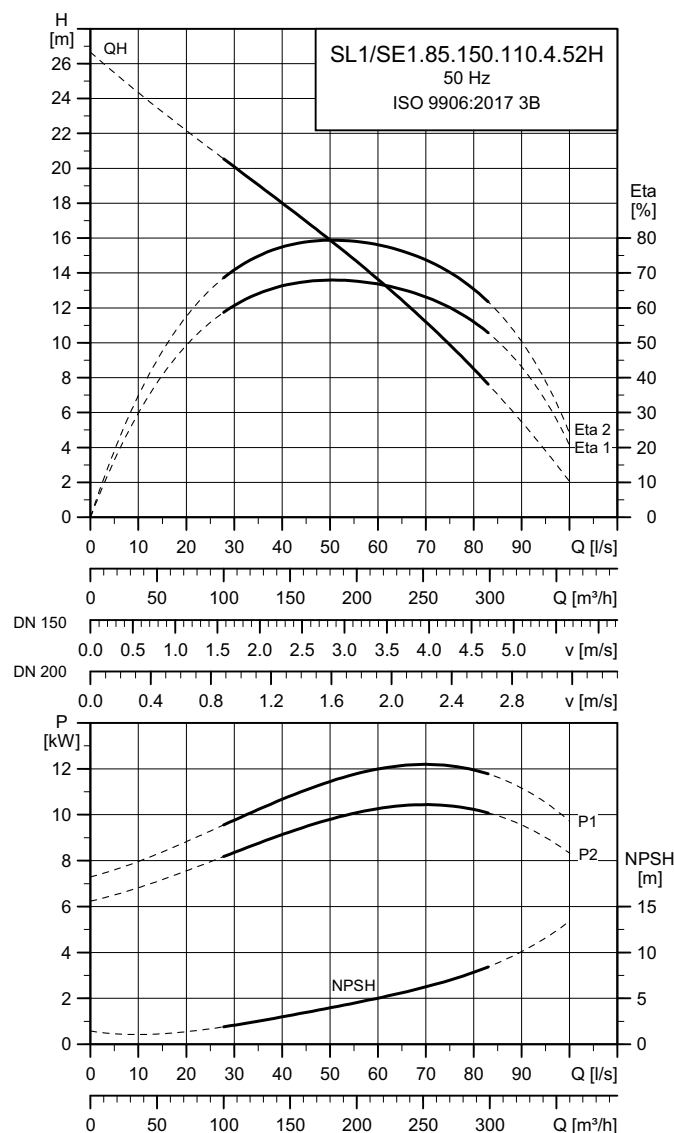
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.150.100.4.52H	266	85	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.150.110.4.52H



TM05 3608 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL1/SE1.85.150.110.4.52H	380-415 660-690	13	11	4	1481	Y/D	24-22 14-13	210 116	84 86	86 86	0.70 0.76 0.82	0.0580 222

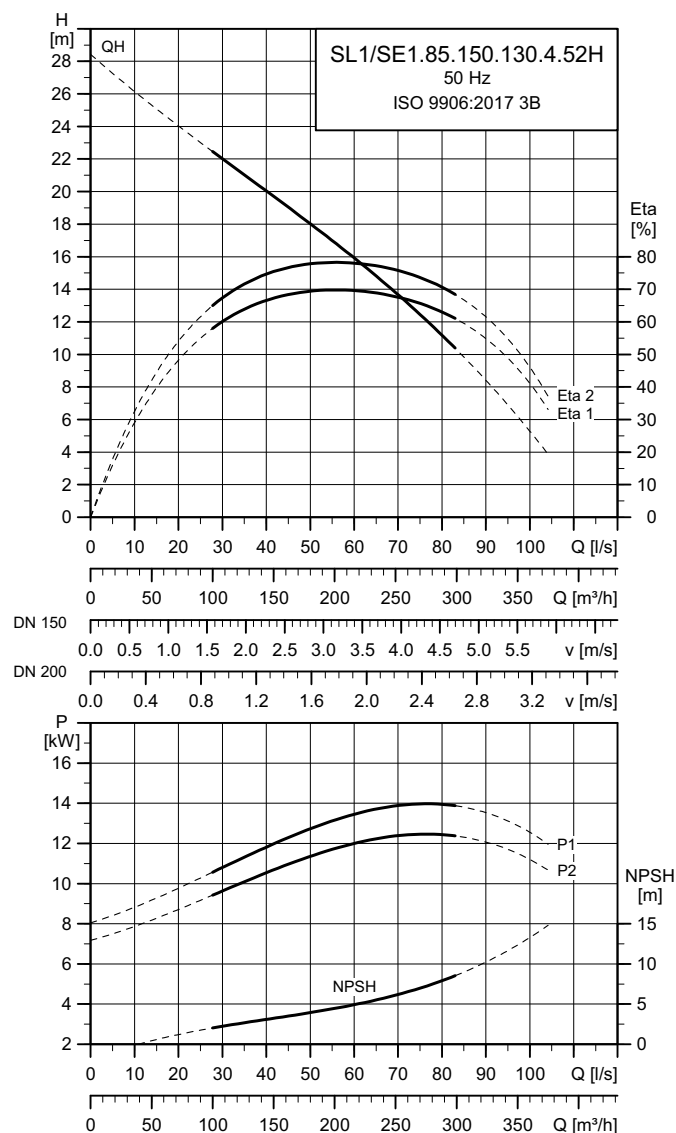
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.150.110.4.52H	276	85	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.150.130.4.52H



TM05 3627 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \varphi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL1/SE1.85.150.130.4.52H	380-415 660-690	15	13	4	1483	Y/D	28-25 16-15	534 156	87 88 88	0.66 0.77 0.83	0.0750	304

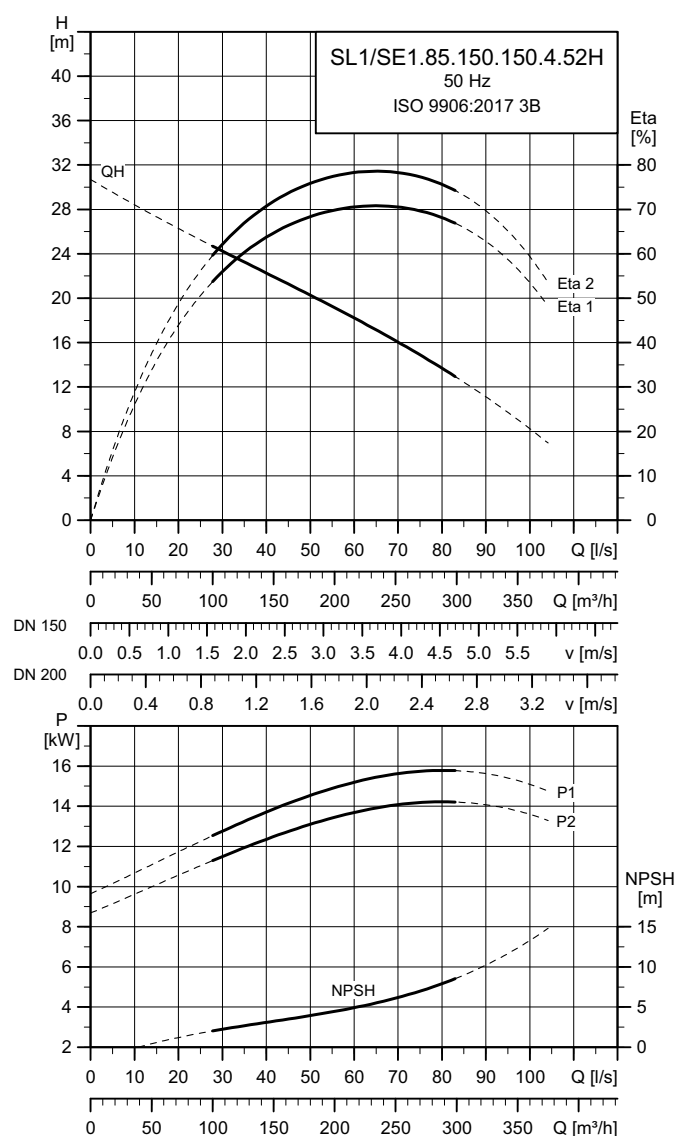
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.150.130.4.52H	281	85	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.150.150.4.52H



TM05 3607 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]	Cos φ	Moment of inertia [kgm²]	Breakdown torque M _{max} [Nm]
SL1/SE1.85.150.150.4.52H	380-415 660-690	17	15	4	1480	Y/D	31-29 18-17	283 156	87 88 88	0.70 0.80 0.84	0.0750	304

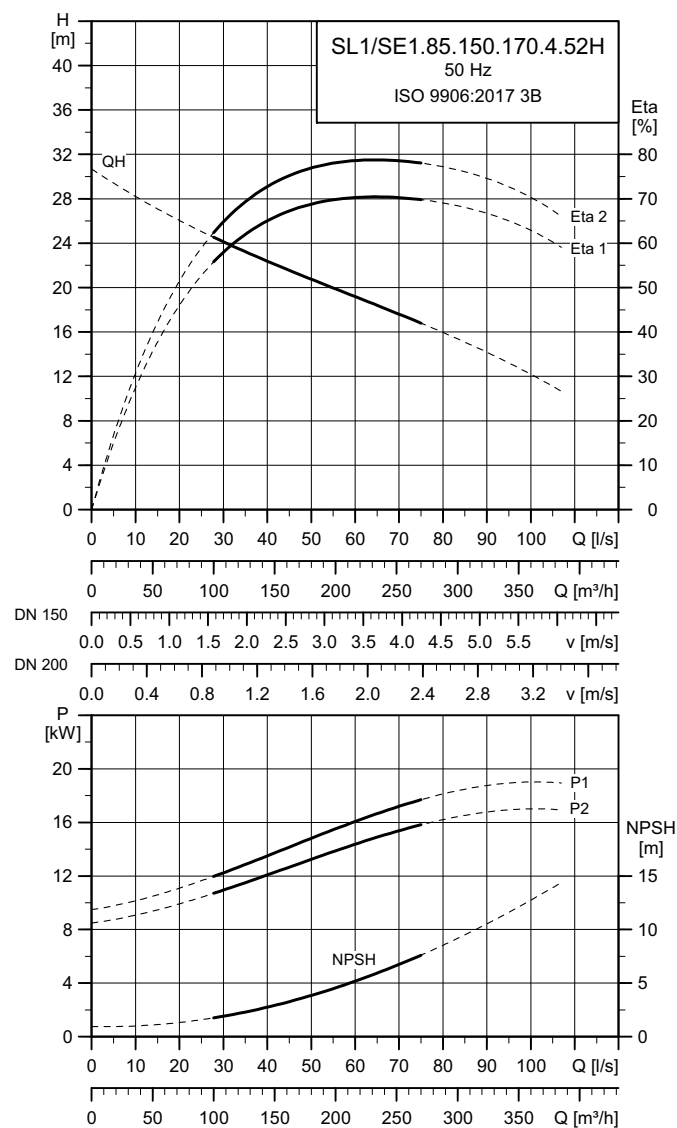
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.150.150.4.52H	292	85	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.150.170.4.52H



TM05 3626 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL1/SE1.85.150.170.4.52H	380-415 660-690	19	17	4	1480	Y/D	39-36 23-22	381 209	84 87 88	0.68 0.72 0.77	0.0750	304

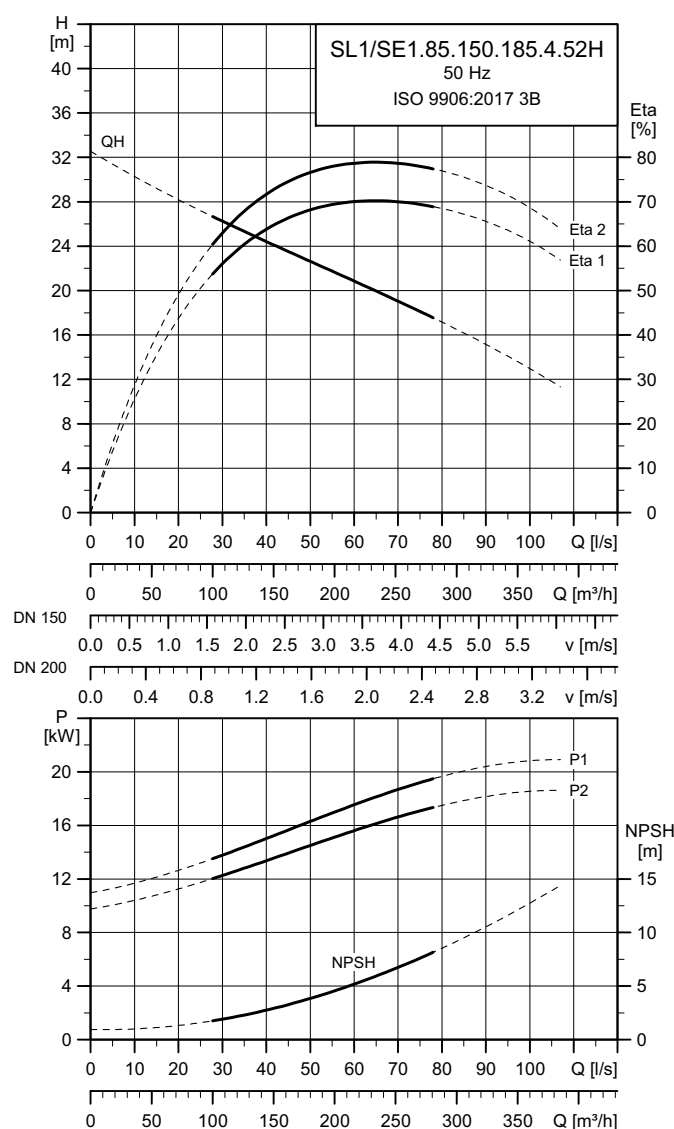
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.150.170.4.52H	293	95	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.85.150.185.4.52H



TM05 3605 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]	Cos φ	Moment of inertia [kgm²]	Breakdown torque M _{max} [Nm]
SL1/SE1.85.150.185.4.52H	380-415 660-690	21	18.5	4	1479	Y/D	41-37 24-23	381 209	85 87 88	0.69 0.73 0.79	0.0750	304

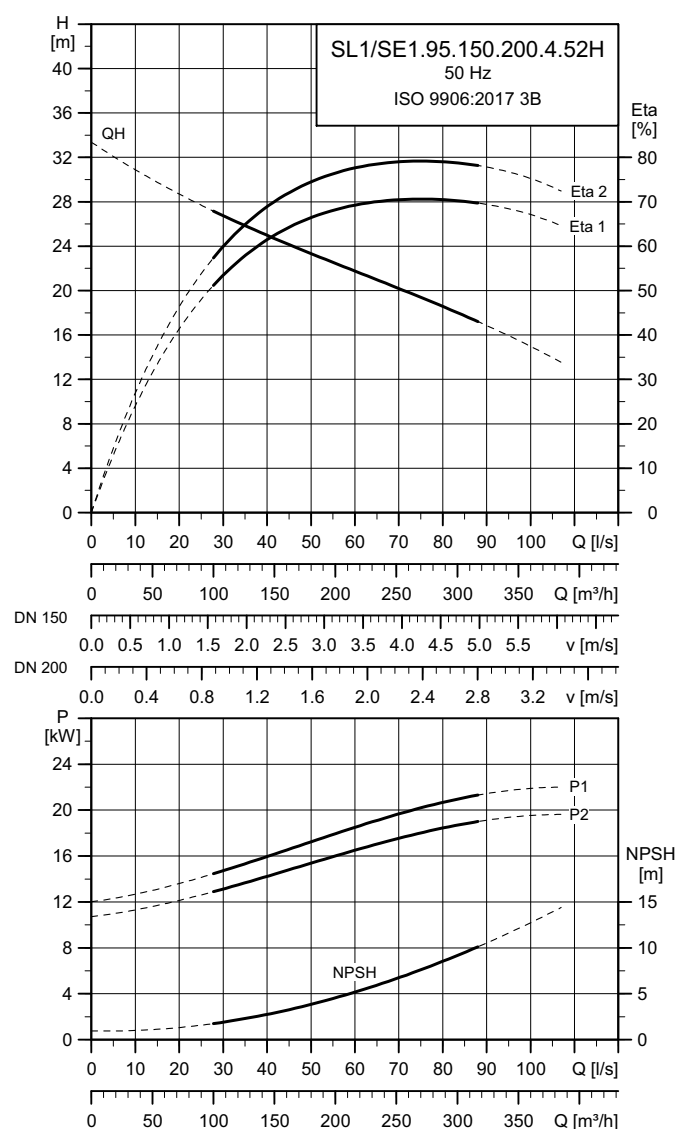
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.85.150.185.4.52H	299	95	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.95.150.200.4.52H



TM05 3625 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \varphi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL1/SE1.95.150.200.4.52H	380-415 660-690	23	20	4	1478	Y/D	43-39 25-24	381 209	85 88 88	0.69 0.74 0.81	0.0750	304

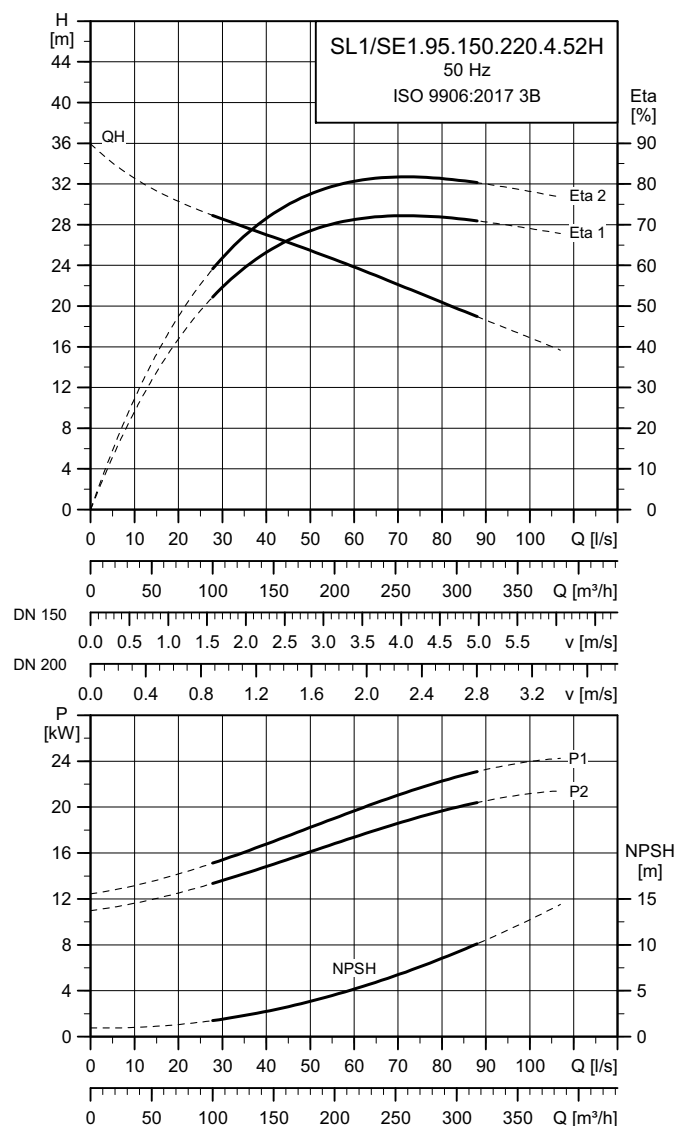
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.95.150.200.4.52H	300	95	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.95.150.220.4.52H



TM05 3606 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I _N	I _{start}	η _{motor} [%]			Cos φ			Moment of inertia [kgm ²]	Breakdown torque M _{max} [Nm]
							[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.95.150.220.4.52H	380-415 660-690	25	22	4	1476	Y/D	45-41 26-25	381 209	86	88	88	0.70	0.76	0.85	0.0750	304

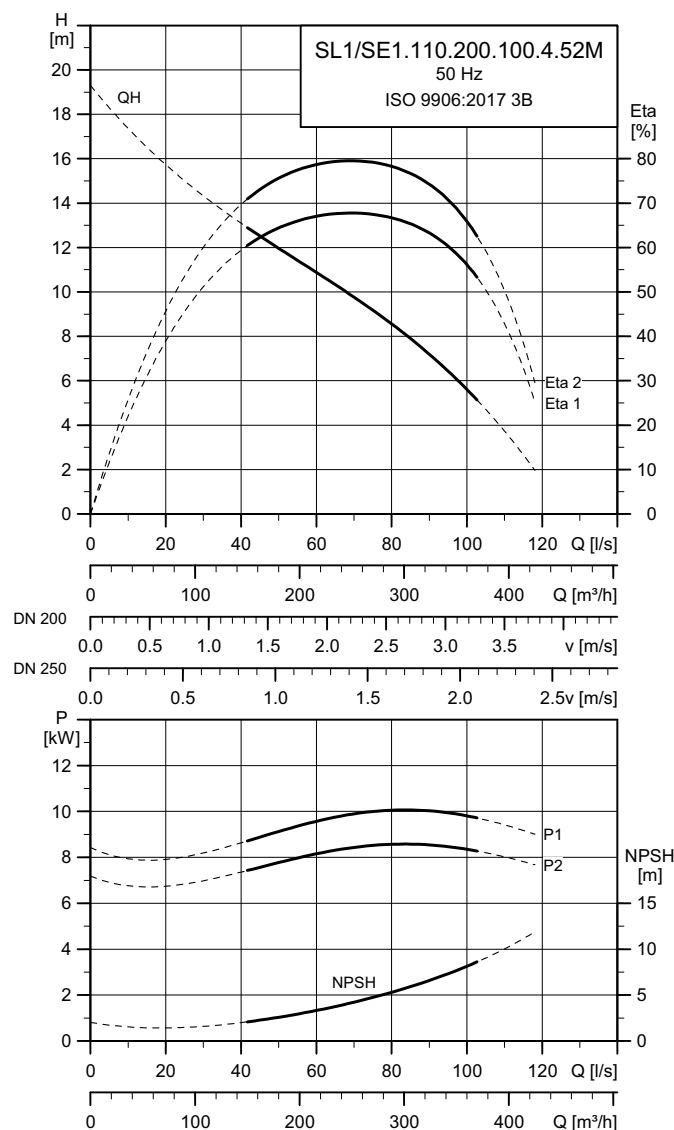
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL1/SE1.95.150.220.4.52H	309	95	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.110.200.100.4.52M



TM05 3632 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			$\eta_{motor} [\%]$			$\cos \varphi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.110.200.100.4.52M	380-415 660-690	12	10	4	1482	Y/D	23-21 13-13	210 116		84	85	86	0.69	0.74	0.80				0.0580	222

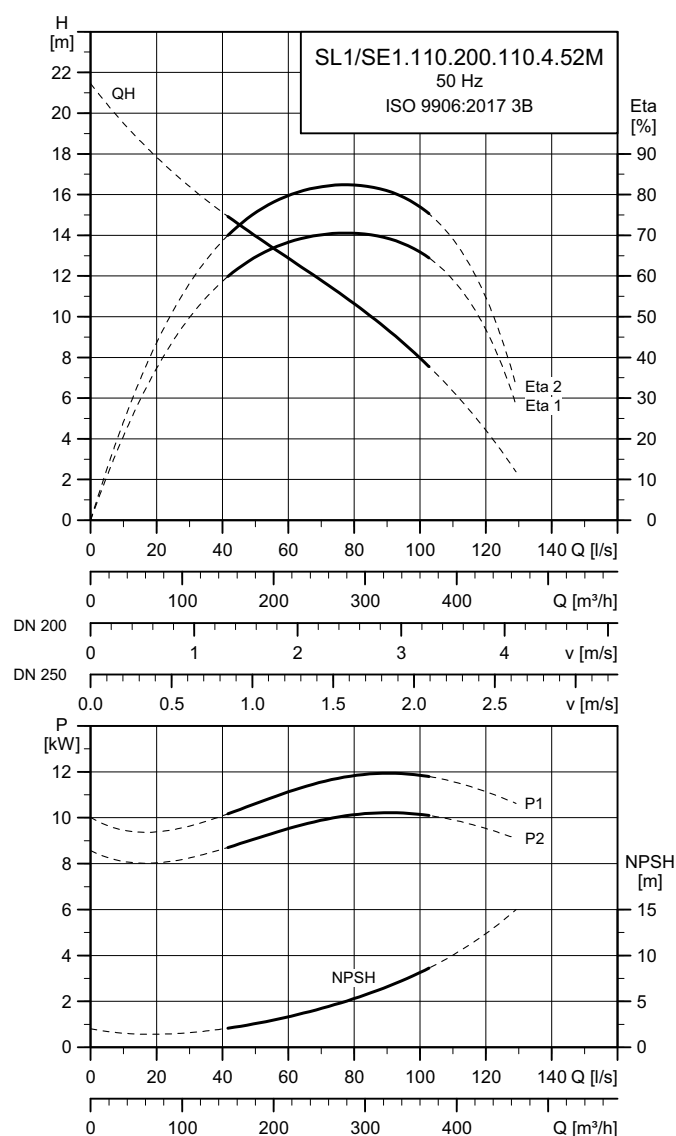
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL1/SE1.110.200.100.4.52M	246	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.110.200.110.4.52M



TM05 3612 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			$\eta_{motor} [\%]$			$\cos \varphi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.110.200.110.4.52M	380-415	13	11	4	1481	Y/D	24-22	210	84	86	86	0.70	0.76	0.82	0.0580	222				
	660-690						14-13	116												

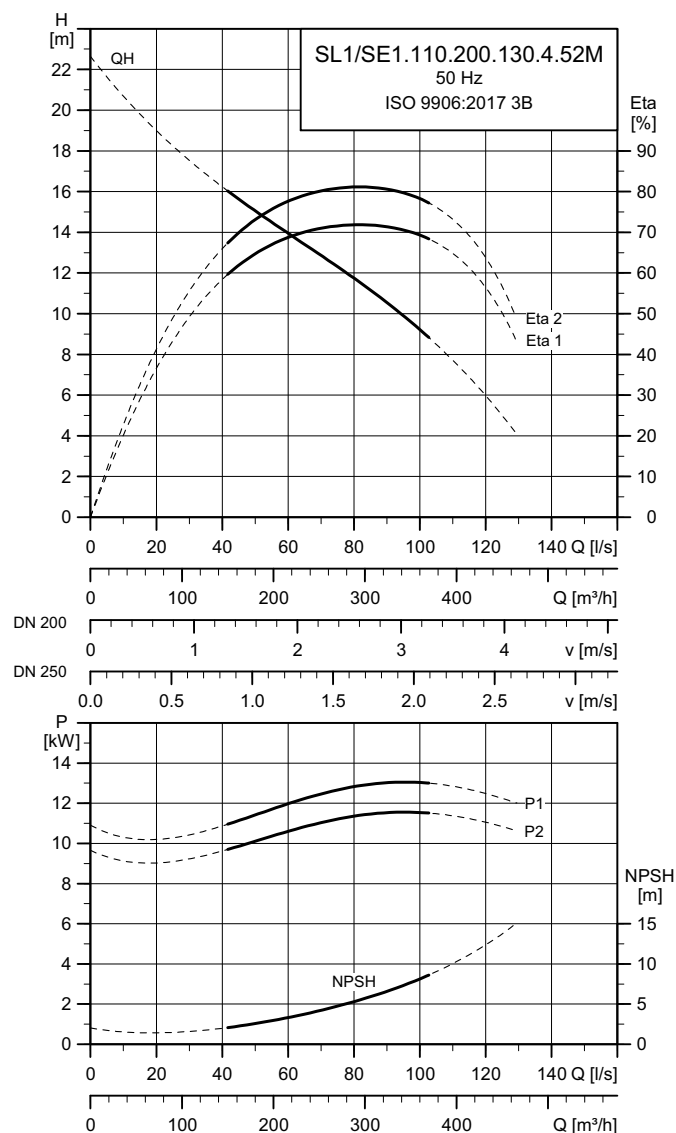
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL1/SE1.110.200.110.4.52M	256	110	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.110.200.130.4.52M



TM05 3631 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \varphi$			Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.110.200.130.4.52M	380-415	15	13	4	1483	Y/D	28-25	283	87	88	88	0.66	0.77	0.83	0.0750	304				
	660-690						16-15	156												

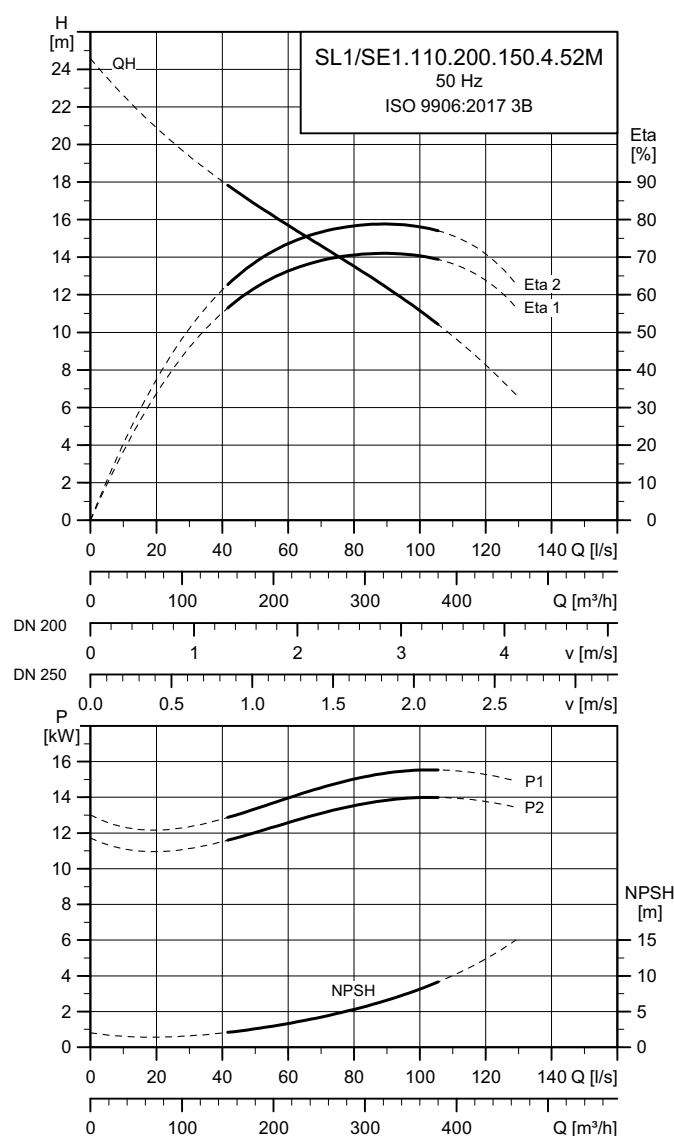
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL1/SE1.110.200.130.4.52M	264	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.110.200.150.4.52M



TM05 3611 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			Cos ϕ			Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1					
SL1/SE1.110.200.150.4.52M	380-415 660-690	17	15	4	1480	Y/D	31-29 18-17	283 156		87	88	88	0.70	0.80	0.84	0.0750			304	

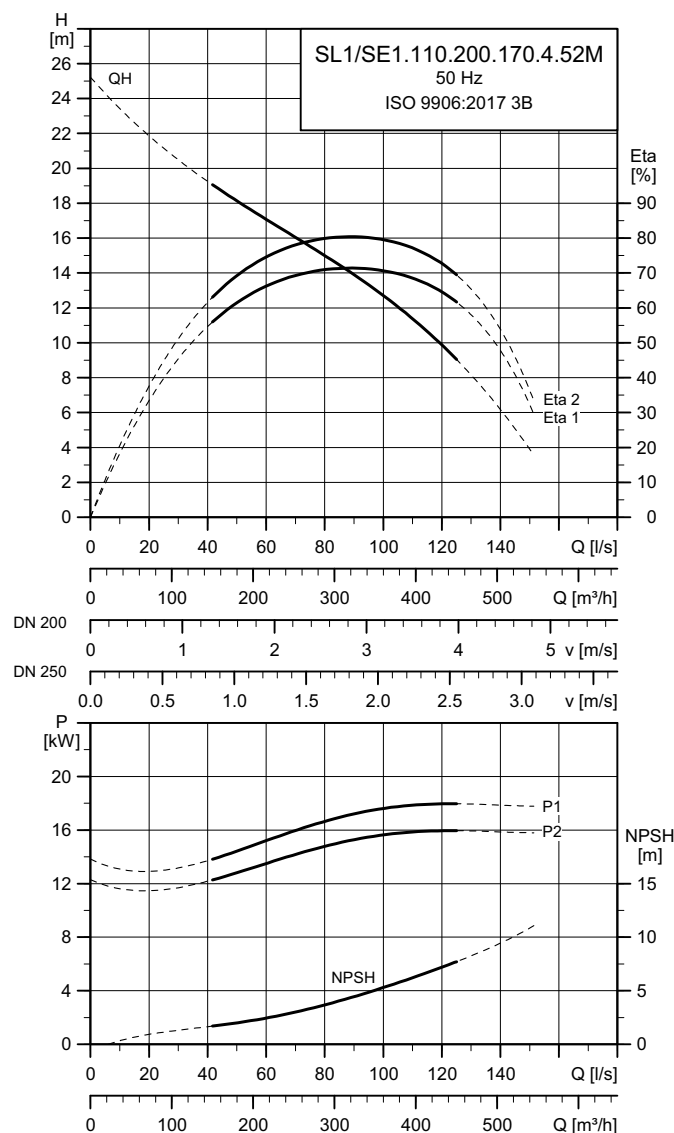
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL1/SE1.110.200.150.4.52M	273	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.110.200.170.4.52M



TM05 3630 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \phi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.110.200.170.4.52M	380-415 660-690	19	17	4	1480	Y/D	39-36 23-22	381 209	84	87	88	0.68	0.72	0.77	0.0750				304	

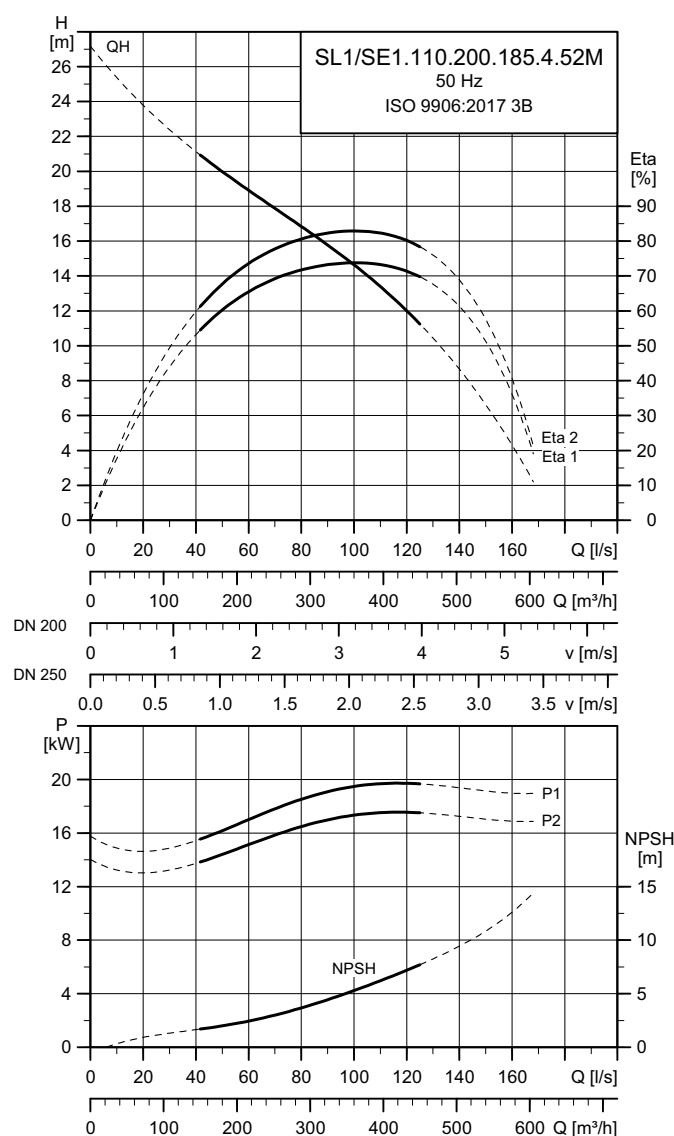
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL1/SE1.110.200.170.4.52M	277	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.110.200.185.4.52M



TM05 3610 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			$\eta_{motor} [\%]$			$\cos \phi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.110.200.185.4.52M	380-415 660-690	21	18.5	4	1479	Y/D	41-37 24-23	381 209		85	87	88	0.69	0.73	0.79				0.0750	304

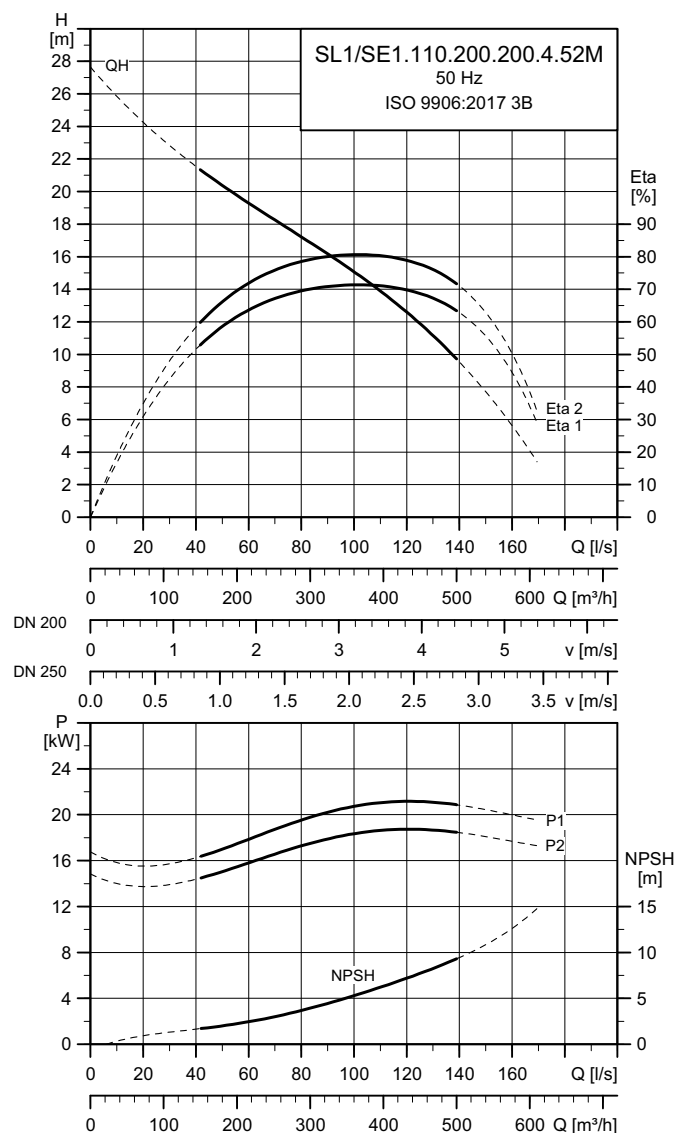
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL1/SE1.110.200.185.4.52M	285	110	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.110.200.200.4.52M



TM05 3629 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \varphi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1					
SL1/SE1.110.200.200.4.52M	380-415 660-690	23	20	4	1478	Y/D	43-39 25-24	381 209	85	88	88	0.69	0.74	0.81	0.0750				304	

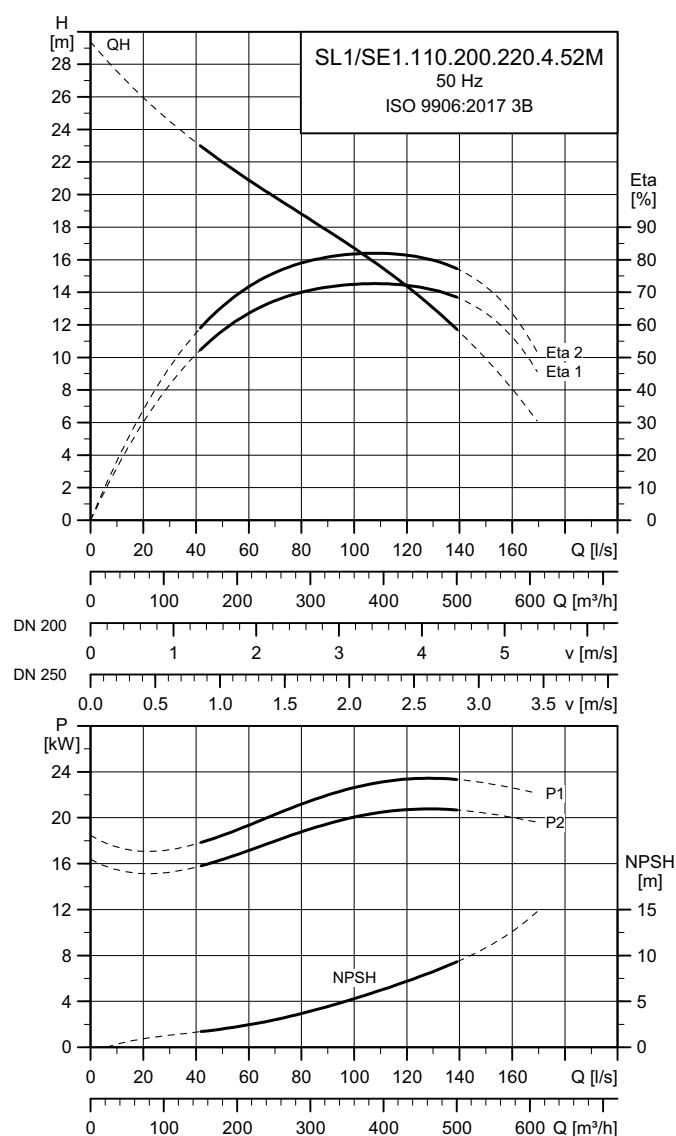
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL1/SE1.110.200.200.4.52M	293	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL1/SE1.110.200.220.4.52M



TM05 3609 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			Cos ϕ			Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.110.200.220.4.52M	380-415 660-690	25	22	4	1476	Y/D	45-41 26-25	381 209	86	88	88	0.70	0.76	0.85	0.0750				304	

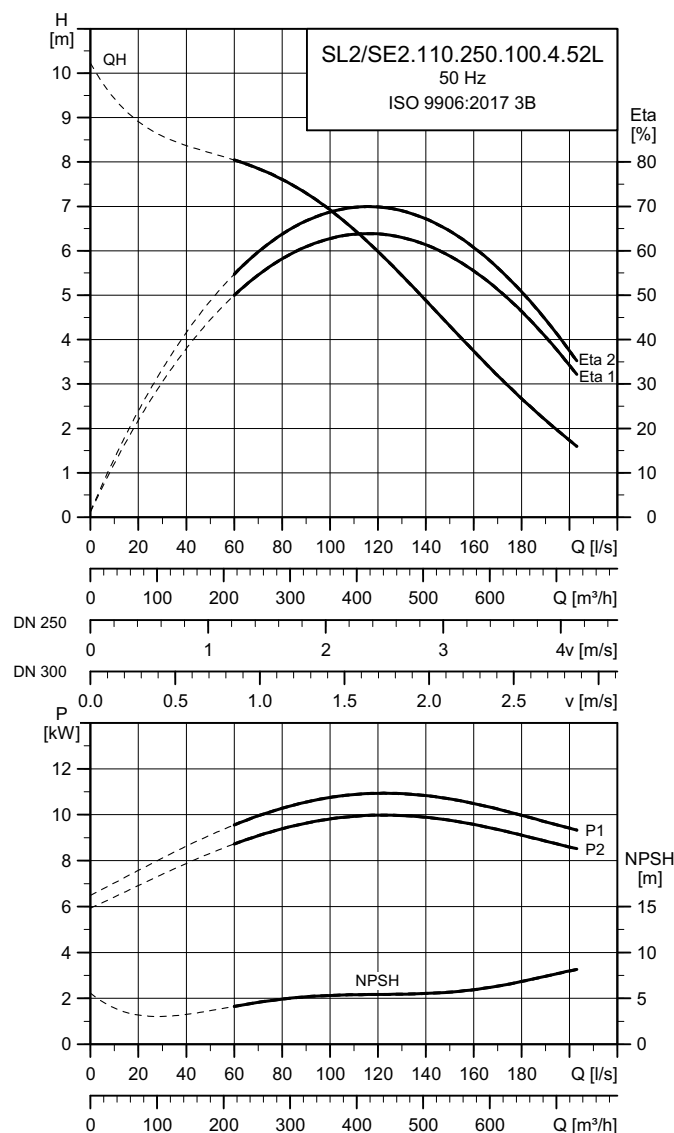
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL1/SE1.110.200.220.4.52M	302	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.110.250.100.4.52L



TM07 4325 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \phi$			Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1					
SL2/SE2.110.250.100.4.52L	380-415	12	10	4	1481	Y/D	23-21	210	84	85	86	0.69	0.74	0.80	0.0580	222				
	660-690						13-13	116												

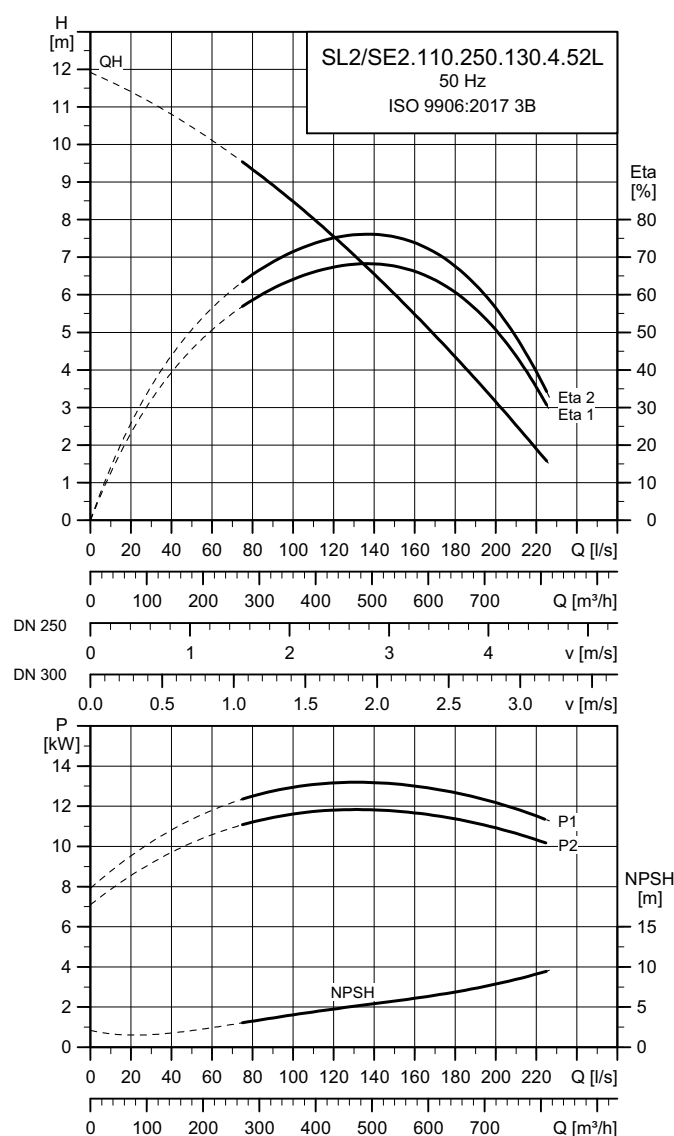
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.110.250.100.4.52L	231	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.110.250.130.4.52L



TM06 6728 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			Cos ϕ			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL2/SE2.110.250.130.4.52L	380-415	15	13	4	1483	Y/D	28-25	283	87	88	88	0.66	0.77	0.83	0.0750	0.304				
	660-690						16-15	156												

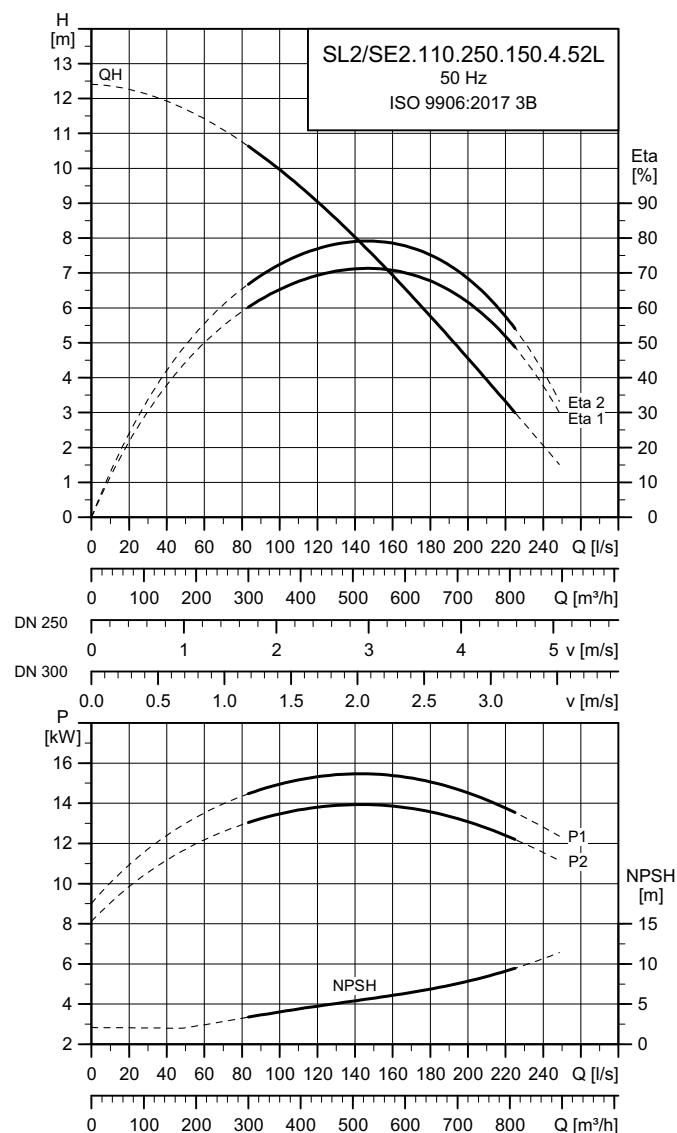
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.110.250.130.4.52	237	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.110.250.150.4.52L



TM06 6729 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			Cos ϕ			Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL2/SE2.110.250.150.4.52L	380-415	17	15	4	1480	Y/D	31-29	283	87	88	88	0.70	0.80	0.84	0.0750	0.304				
	660-690						18-17	156												

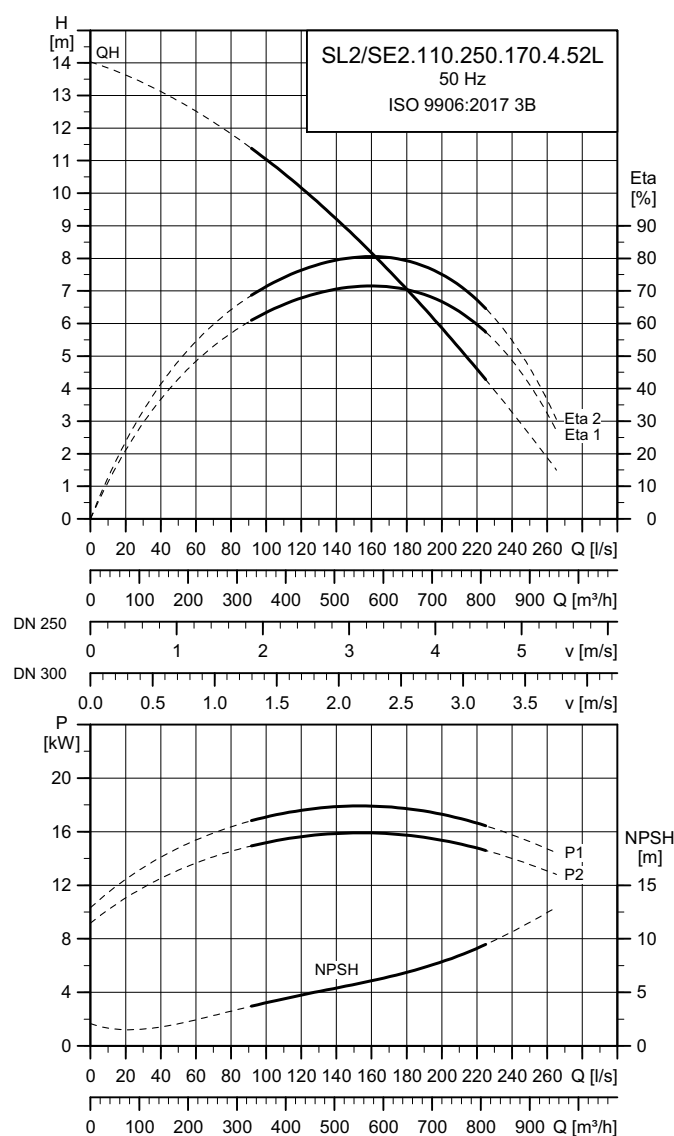
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.110.250.150.4.52	247	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.110.250.170.4.52L



TM06 6730 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \phi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL2/SE2.110.250.170.4.52L	380-415	19	17	4	1480	Y/D	39-36	381	84	87	88	0.68	0.72	0.77	0.0750	304				
	660-690						23-22	209												

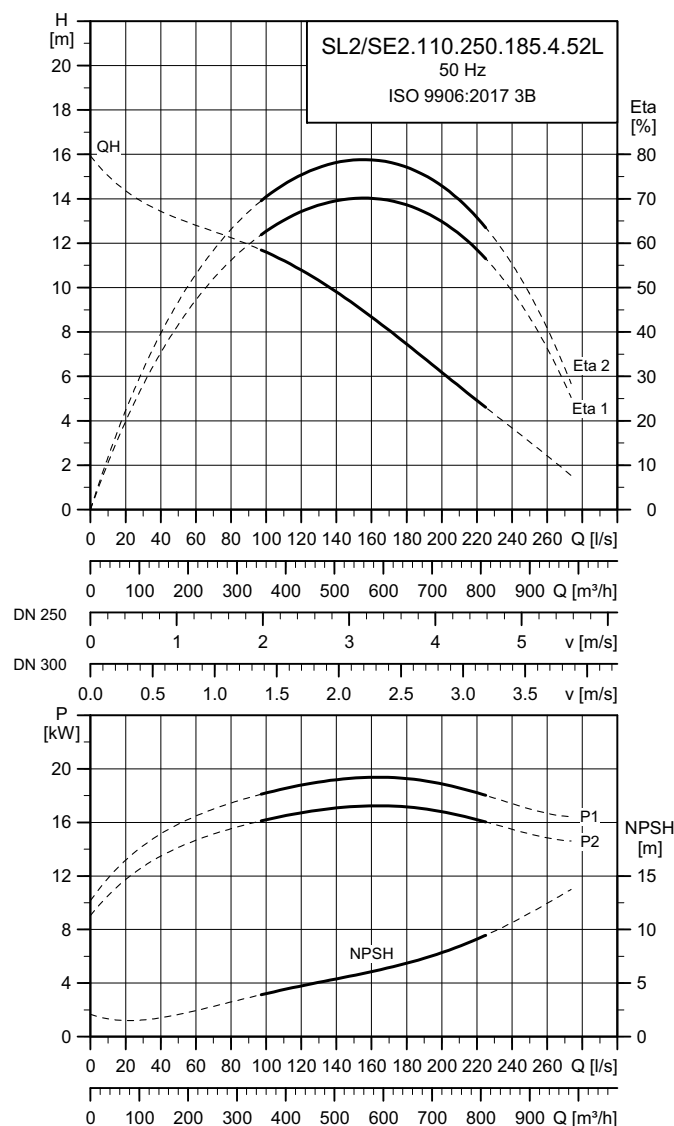
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.110.250.170.4.52	255	110	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.110.250.185.4.52L



TM06 6731 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL2/SE2.110.250.185.4.52L	380-415 660-690	21	18.5	4	1479	Y/D	41-37 24-23	381 209	85 87 88	0.69 0.73 0.79	0.0750	304

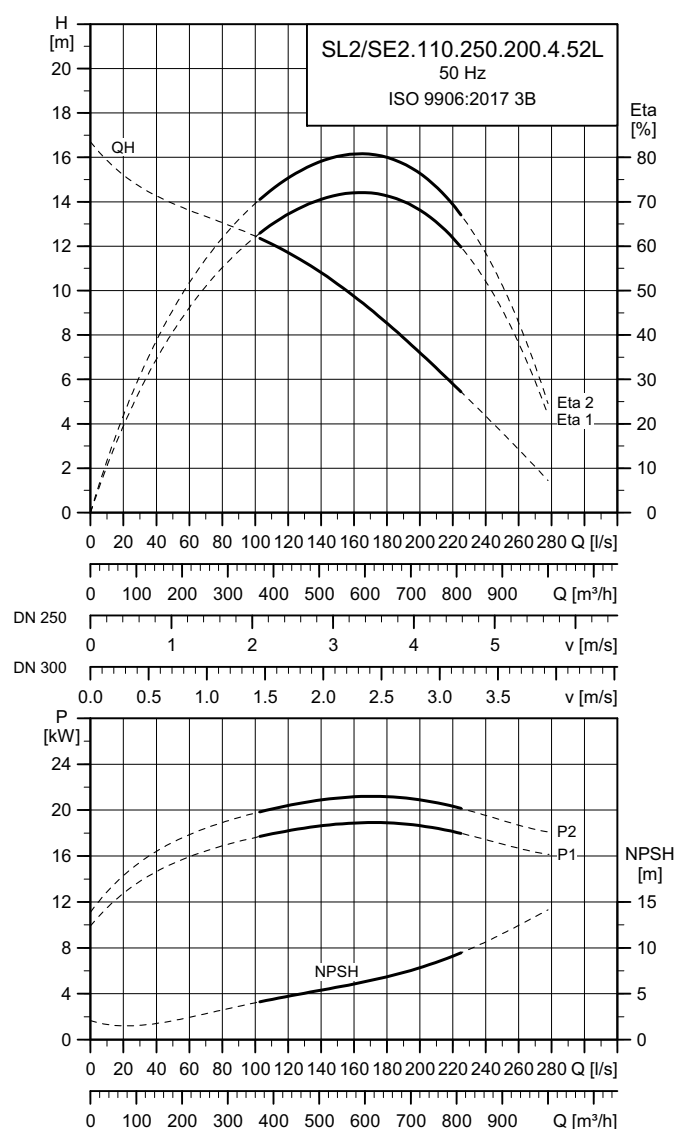
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL2/SE2.110.250.185.4.52	259	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.110.250.200.4.52L



TM06 6732 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL2/SE2.110.250.200.4.52L	380-415 660-690	23	20	4	1478	Y/D	43-39 25-24	381 209	85 88 88	0.69 0.74 0.81	0.0750	304

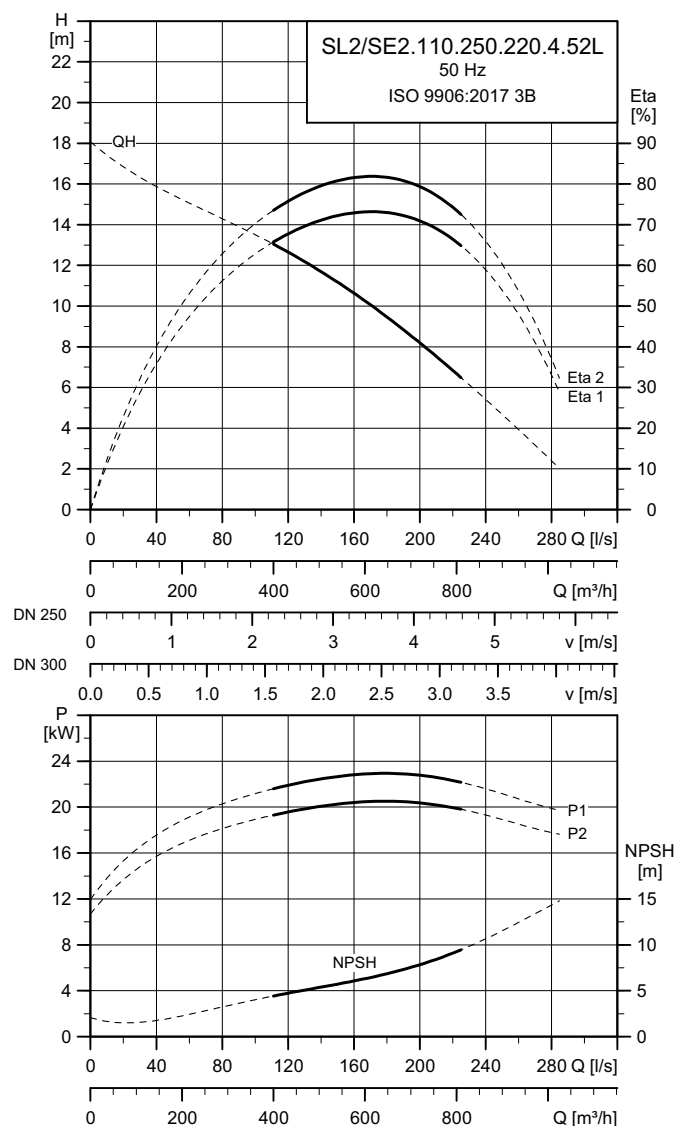
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.110.250.200.4.52	264	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.110.250.220.4.52L



TM06 6733 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \varphi$	Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
SL2/SE2.110.250.220.4.52L	380-415 660-690	25	22	4	1476	Y/D	45-41 26-25	381 209	86 88 88	0.70 0.76 0.85	0.0750	304

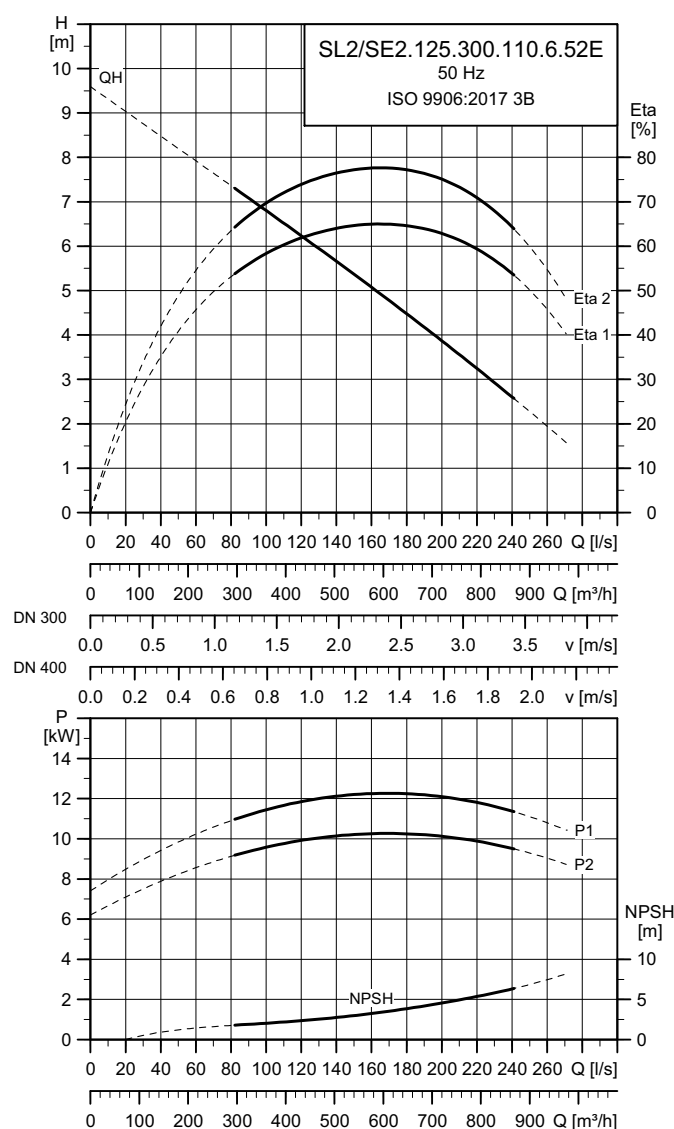
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.110.250.220.4.52	271	110	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.125.300.110.6.52E



TM06 9926 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			Cos ϕ			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL2/SE2.125.300.110.6.52E	380-415	13	11	6	983	Y/D	28-26	185	84	86	86	0.52	0.62	0.70	0.0940	503				
	660-690						16-16	177												

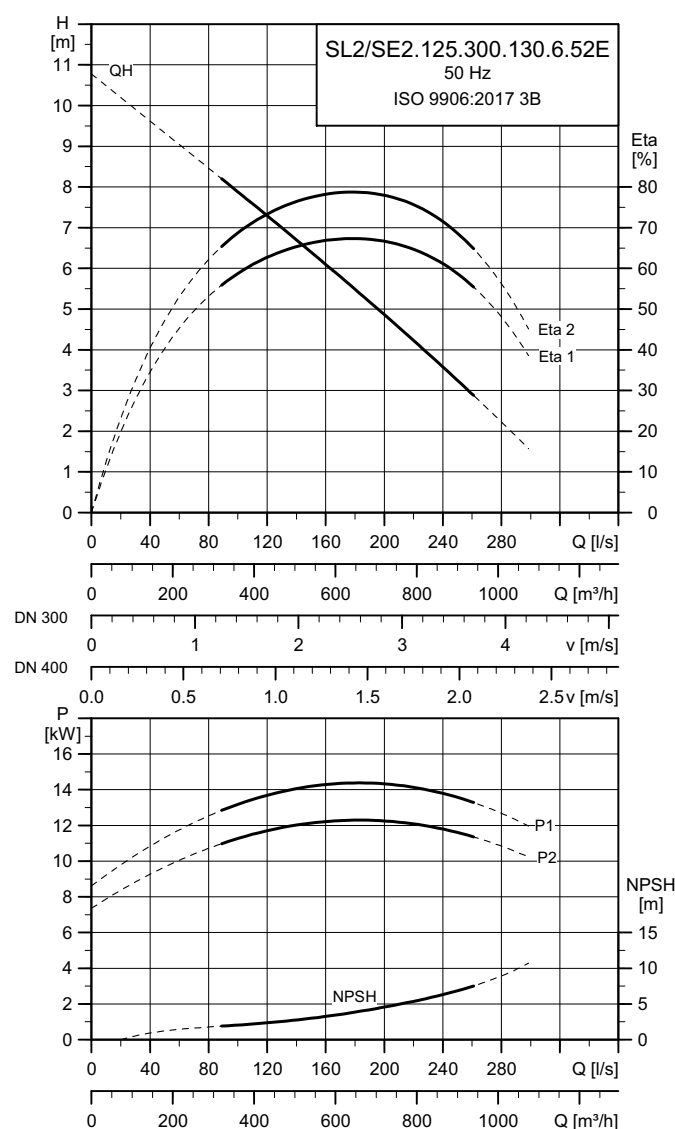
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.125.300.110.6.52E	298	125	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.125.300.130.6.52E



TM06 9927 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%]	$\cos \phi$	Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
SL2/SE2.125.300.130.6.52E	380-415 660-690	15	13	6	980	Y/D	31-29 18-17	185 177	85 86 86	0.56 0.66 0.74	0.0940	503

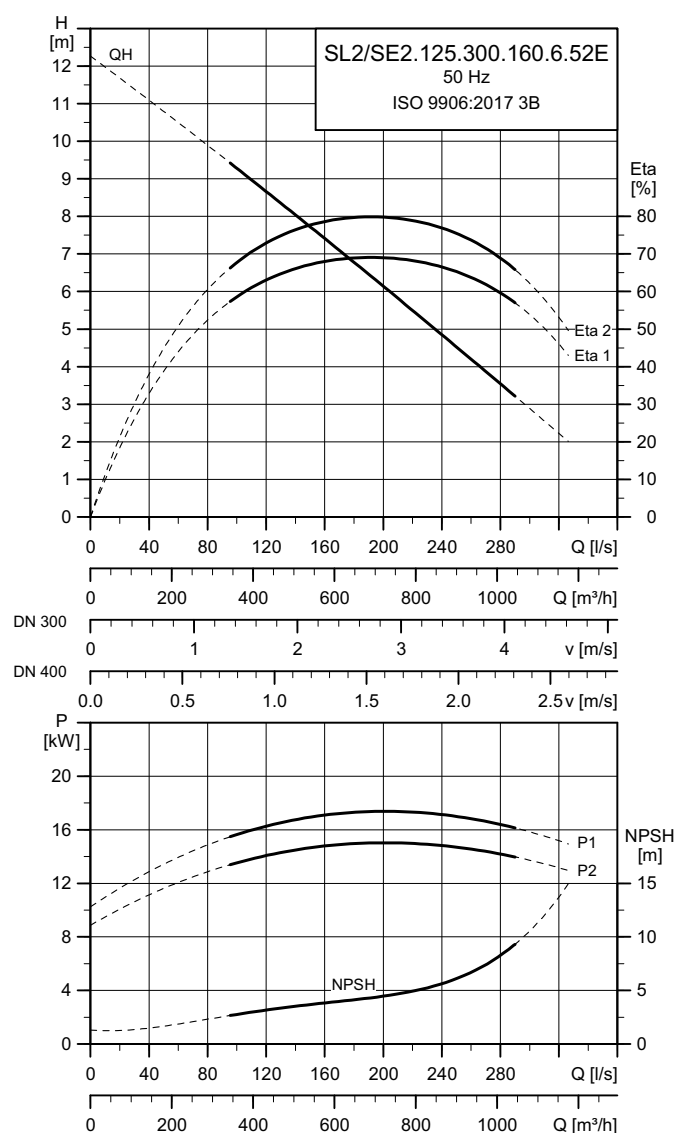
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Outlet flange pressure (according to EN 1092-2) PN	Max. installation depth [m]
SL2/SE2.125.300.130.6.52E	304	125	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.125.300.160.6.52E



TM06 9928 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \varphi$			Moment of inertia [kgm ²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL2/SE2.125.300.160.6.52E	380-415	19	16	6	975	Y/D	36-33	185	86	86	86	0.61	0.72	0.79	0.0940	503				
	660-690						21-20	177												

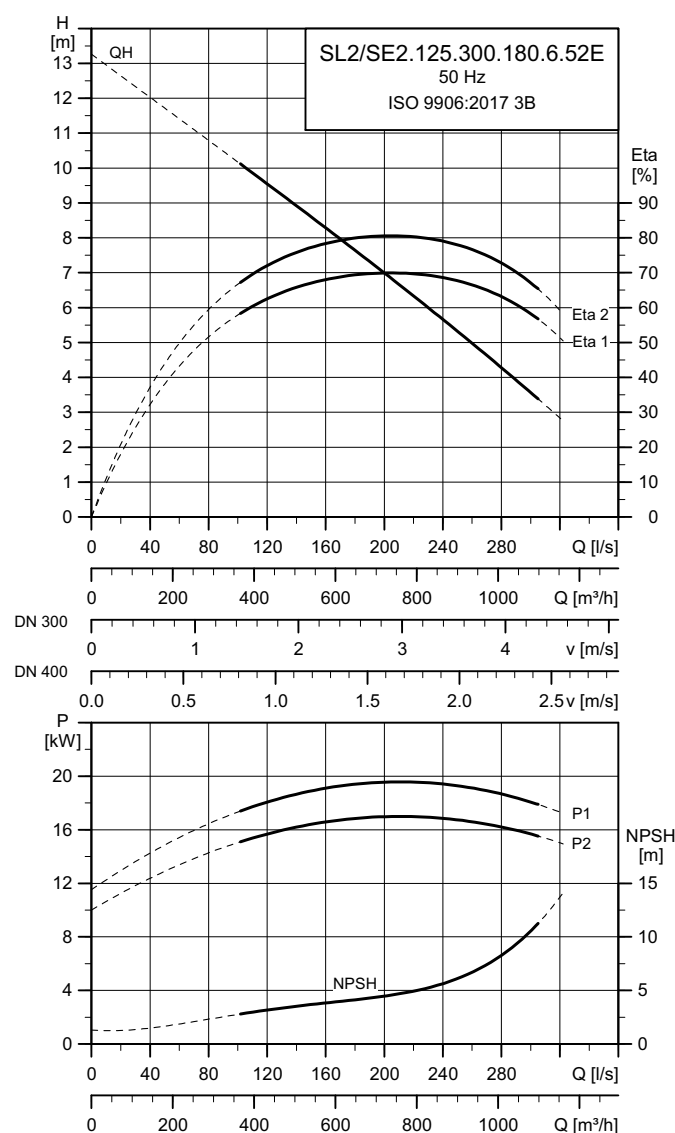
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.125.300.160.6.52E	327	125	10	20

Note: Pumps with stainless steel closed S-tube® impellers have the same performance curves as the corresponding cast iron version.

SL2/SE2.125.300.180.6.52E



TM06 9929 3720

Electrical data

Pump type	Voltage variant	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N		I_{start}		η_{motor} [%]			$\cos \varphi$			Moment of inertia [kgm²]	Breakdown torque M_{max} [Nm]
							[A]	[A]	[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SL2/SE2.125.300.180.6.52E	380-415	21	18	6	971	Y/D	40-37	185	86	86	85	0.64	0.75	0.82	0.0940	503		
	660-690						23-22	177										

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Outlet flange pressure (according to EN 1092-2)	Max. installation depth
	[mm]	[mm]	PN	[m]
SL2/SE2.125.300.180.6.52E	329	125	10	20

Note: Pumps with stainless steel closed S-tube[®] impellers have the same performance curves as the corresponding cast iron version.

9. Accessories

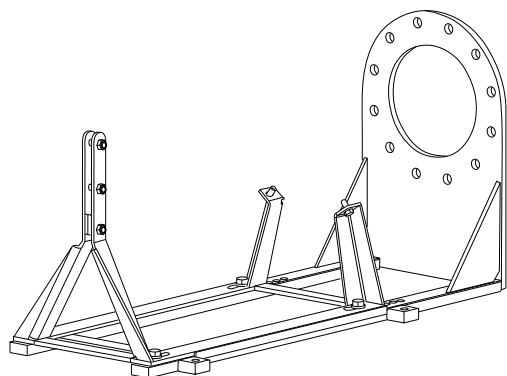
Installation systems

Installation type H (dry, horizontal)

Horizontal base stand for Grundfos SE pumps

- Horizontal base stand with bolts and nuts.
- Steel, epoxy-coated.

Note: A horizontal base stand is included with the pump.



TM05 3866 1712

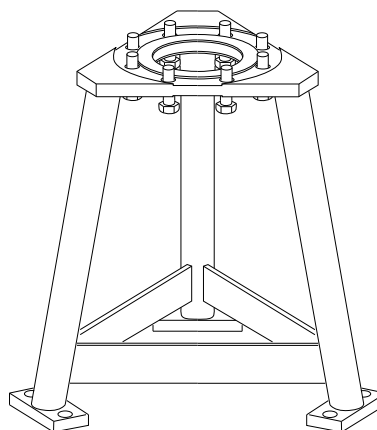
Pump type	Pressure range	Pump inlet	Pump outlet	Product number
SEV.XX.80	H	DN 100	DN 80	99867046
SE1.XX.100	S	DN 100	DN 100	99867046
	H	DN 150	DN 100	99867050
SE1.XX.150	H	DN 150	DN 150	99867050
SE1.XXX.200	M	DN 200	DN 200	99867461
SE2.XXX.250	L	DN 250	DN 250	99867462
SE2.XXX.300	E	DN 300	DN 300	99867474

Installation type D (dry, vertical)

Vertical base stand installation kit

- Vertical base stand with bolts and flange seal.
- Material variants
 - steel, epoxy-coated
 - stainless steel

Note: Only suitable for SE pumps up to 15 kW.



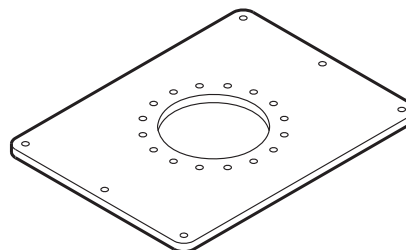
TM05 3869 1712

Pump type	Pressure range	Pump inlet	Pump outlet	Product number	
				Steel, epoxy coated	Stainless steel
SEV.XX.80	H	DN 100	DN 80	96308237	96090110
SE1.XX.100	S	DN 100	DN 100	96308237	96090110
	H	DN 150	DN 100	96308238	96835614
SE1.XX.150	H	DN 150	DN 150	96308238	96835614
SE1.XXX.200	M	DN 200	DN 200	96094523	96090119

Base plate installation kit

- Base plate with bolts and flange seal.
- Steel, epoxy-coated.

Note: For SE pumps from and above 15 kW.



TM03 2015 3505

Base plate

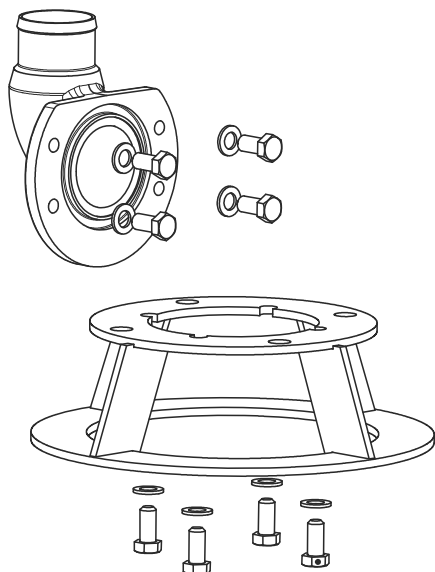
Pump type	Pressure range	Pump inlet	Pump outlet	Product number
SE2.XXX.250	L	DN 250	DN 250	96308240
SE2.XXX.300	E	DN 300	DN 300	96308241

Installation type S, C (submerged, vertical), temporary on ring stand

Ring stand

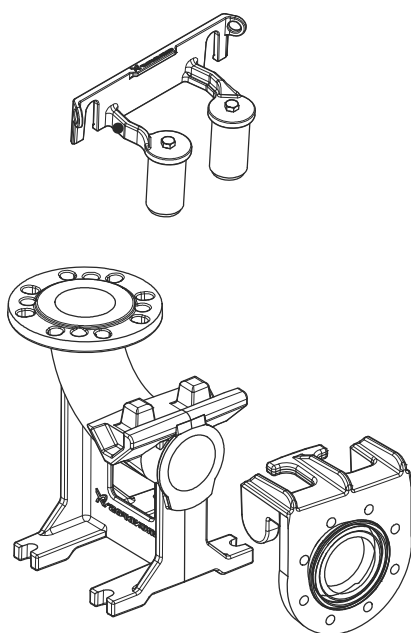
- Ring stand complete with flanged 90 ° bend with connection, anchor bolts, bolts, nuts and gaskets.
- Material variants
 - cast iron, epoxy-coated
 - stainless steel
- Connection type variants
 - hose connection
 - thread connection

Note: Only suitable for SE pumps up to 15 kW.



TM05 3871 1712

Pump type	Pressure range	Pump inlet	Pump outlet	Product number		
				Cast iron, epoxy coated		Stainless steel
				Hose connection	Thread connection	Hose connection
SEV/SLV.XX.80	H	DN 100	DN 80	96102313	96102382	96898249
SE1/SL1.XX.100	S	DN 100	DN 100	96102255	96102383	96898272
	H	DN 150	DN 100	96102314	96102384	96898274
SE1/SL1.XX.150	H	DN 150	DN 150	96102256	96102385	-
SE1/SL1.XXX.200	M	DN 200	DN 200	96789480	-	96898277
SE1/SL1.XXX.250	L	DN 250	DN 250	96789481	-	-

Installation type S, C (submerged, vertical), permanent on auto-coupling**Auto-coupling system DN 100 - DN 200**

TM05 3872 1712

- Complete auto-coupling system with guide claw, base unit, upper guide rail bracket, bolts, nuts and gaskets.
- Material variants
 - Cast iron (according to EN-GJL-250)
 - Stainless steel (according to EN 1.4408)

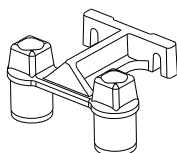
Note: If your guide rails exceed 6 m, consider using intermediate guide rail brackets (IGRH) to support your system.

Note: For flanges up to DN 200, the guide claw is delivered with the auto-coupling kit.

Pump type	Pressure range	Pump inlet	Pump outlet	Auto-coupling inlet	Auto-coupling outlet	Product number	
						Cast iron	Stainless steel
SEV/SLV.XX.80	H	DN 100	DN 80	DN 80	DN 80	96090993	96825106
				DN 80	DN 100	96102240	-
SE1/SL1.XX.100	S	DN 100	DN 100	DN 100	DN 100	96090994	96825108
	H	DN 150	DN 100	DN 100	DN 150	96102241	-
SE1/SL1.XX.150	H	DN 150	DN 150	DN 150	DN 150	97695489	96989863
SE1/SL1.XXX.200	M	DN 200	DN 200	DN 200	DN 200	96641489	-

Auto-coupling spare parts DN 100 - DN 200**Intermediate guide rail brackets (IGRH)**

- stainless steel



TM06 2841 4714

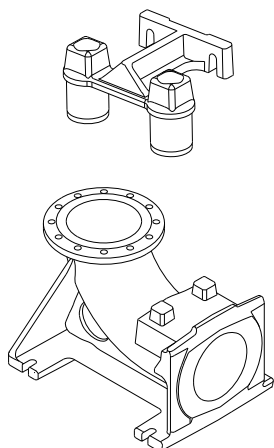
Pump type	Pressure range	Pump inlet	Pump outlet	Product number
SEV/SLV.XX.80	H	DN 100	DN 80	96825142
SE1/SL1.XX.100	S	DN 100	DN 100	96825161
	H	DN 150	DN 100	96825161
SE1/SL1.XX.150	H	DN 150	DN 150	96829331
SE1/SL1.XXX.200	M	DN 200	DN 200	97918997

Auto-coupling system DN 250 - DN 300

- Auto-coupling system including bolts, nuts and gaskets:
 - cast iron base unit
 - stainless steel upper guide rail bracket (UGRH)
 - cast iron guide claw

Note: If your guide rails exceed 6 m, consider using intermediate guide rail brackets (IGRH) to support your system.

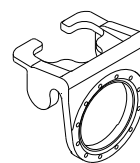
Note: For pump outlet flanges sized DN 250 and above, the guide claw is fitted to the pump outlet flange.



TM06 2841 4714

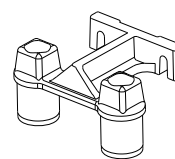
TM06 6849 4714

Pump type	Pressure range	Pump inlet	Pump outlet	Auto-coupling inlet and outlet	Product number
SE2/SL2.XXX.250	L	DN 250	DN 250	DN 250	96782483
SE2/SL2.XXX.300	E	DN 300	DN 300	DN 300	96782484

Auto-coupling spare parts DN 250 - DN 300**Complete guide claw**

TM06 6850 2516

Pump type	Pressure range	Pump inlet	Pump outlet	Product number
SE2/SL2.XXX.250	L	DN 250	DN 250	99252842
SE2/SL2.XXX.300	E	DN 300	DN 300	99252841

Intermediate guide rail brackets IGRH / UGRH

TM06 2841 4714

Pump type	Pressure range	Pump inlet	Pump outlet	Product number
SE2/SL2.XXX.250	L	DN 250	DN 250	97918997
SE2/SL2.XXX.300	E	DN 300	DN 300	

Lifting chain

- Complete, certified lifting chain for all pump types.
- max. load: 800 kg
- Material variants
 - galvanised steel
 - stainless steel

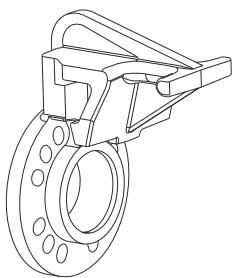


TM02 6126 5102

Material	Length [m]	Product number
Galvanised steel	2	98425759
	4	98425760
	6	98425781
	8	98425782
	10	98425783
Stainless steel	2	98425796
	4	98425797
	6	98425798
	8	98425799
	10	98425800

Adaptors

Adaptor for Flygt type auto-couplings



TM06 9949 3817

Pump type	Pressure range	Pump inlet	Pump outlet	Adaptor outlet	Product number
SEV/SLV.XX.80	H	DN 100	DN 80	DN 100	96105790
SE1/SL1.XX.100	S	DN 100	DN 100	DN 100	96105782
	H	DN 150	DN 100	DN 150	96105787
SE1/SL1.XX.150	H	DN 150	DN 150	DN 150	96105787
SE1/SL1.XX.150	H	DN 150	DN 150	DN 150	96006638*
SE1/SL1.XXX.20	M	DN 200	DN 200	DN 200	98365764**
SE2/SL2.XXX.250	L	DN 250	DN 250	DN 250	98365769**
SE2/SL2.XXX.300	E	DN 300	DN 300	DN 300	98381199**

* For 2" guide pipes

** For 3" guide pipes

10. Dimensions

Recommendations for pump foundations

The ANSI/HI 1.4 standard recommends the following for pump foundations.

Note: This applies only for pumps above 15 kW.

All rotating equipment generates vibrations, when a mass, such as an impeller or rotor, is turning at high speeds. Proper installation and anchorage of Grundfos pumps and installation accessories is critical to limit vibrations and achieve reliable, trouble free installation. It is important to note that all mechanically connected pipes, fittings and supports to the pump, are all part of a single system.

The rotating mass of the entire pump together with the forces from the motor and hydraulics will generate disturbances related to the speed of the motor.

Unbalance and impeller vane pass in hydraulics are the two most important frequencies affecting vibration. When these frequencies coincide with the natural frequency of the entire mechanical system, the vibration level will increase substantially.

Grundfos pumps are designed and produced according to the highest quality standards. The method and grade of balancing is specified by the manufacturer in order to achieve acceptable vibration levels. Although the pump itself can withstand rather high vibration levels under running conditions without considerable lifetime reduction, the pipes and supportive structure may suffer and crack if vibration levels are too high. Furthermore, noticeable noise levels might be generated.

The occurrence of high vibration levels is increased in variable speed applications where the pump is operated over a range of speeds rather than at a single constant speed. Most variable speed drives provide the possibility to exclude certain frequencies.

To ensure acceptable vibration levels in the field, all parts of the system must be sufficiently stiff and firmly anchored to minimise vibrations:

- The foundation and concrete must be of adequate strength to support the weight of the pump including accessories, the weight of the liquid passing through the pump and the forces generated by the pump.
- As a rule of thumb, the mass of the concrete foundation must be at least three to five times the mass of the supported equipment and must have sufficient rigidity to withstand the axial, transverse, and torsional loadings generated by these machines.
- The foundation must be 15 cm wider than the baseplate.
- The concrete used in the foundation must have a minimum tensile strength of 250 N/cm²
- Epoxy grout must always be used to mate the pump baseplate to the foundation.

Pull-out strengths for bolts and anchor bolts

Submerged installation on auto-coupling (types S and C):

Auto-coupling base unit	Bolts	Pull-out resistance [kN]
DN 100	4 x M16	5
DN 125/150*		8
DN 200		16
DN 250	4 x M24	30
DN 300		40

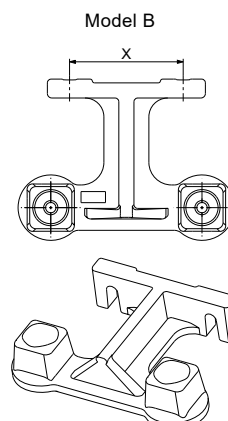
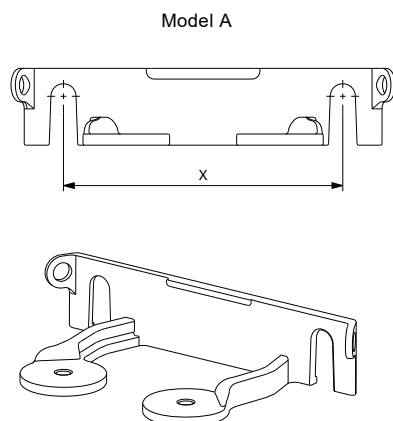
* Pump outlet DN 125 and base plate outlet DN 150.

Dry installation (types D and H):

Dry installation	Anchor bolts	Pull-out resistance [kN]
DN 100	3 x M20	18
DN 150		18
DN 200		
DN 250	6 x M24	25
DN 300		

Installation

Upper guide rail bracket dimensions

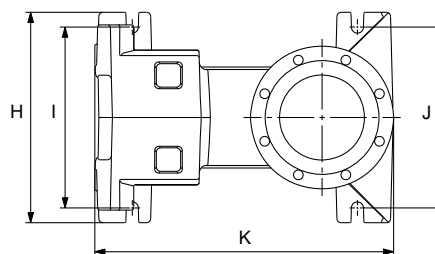
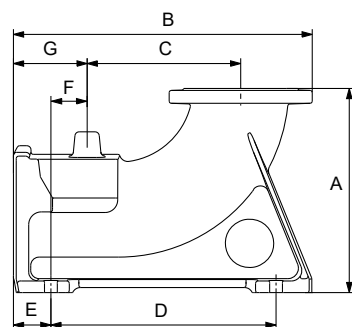


TM06 9913 3617 - TM06 9915 3617

Cast iron			X [mm]
Product number	Size	Model	
96090993	DN 80	A	180
96102240	DN 100/DN 80		200
96090994	DN 100		
96102241	DN 150/DN 100		
97695489	DN 150	B	150
96641489	DN 200		
96782483	DN 250		
96782484	DN 300		

Stainless steel			X [mm]
Product number	Size	Model	
96825106	DN 80	A	180
96825108	DN 100		200
96989863	DN 150		210

Auto-coupling dimensions



TM07 0592 0418

Cast iron

Product number	Size	Dimensions [mm]										
		A	B	C	D	E	F	G	H	I	J	K
96090993	DN 80	345	326.6	171	160	41	13	54	240	220	220	214.2
96102240	DN 100/DN 80	413	403.0	220	220	68	0	68	300	260	230	340.6
96090994	DN 100	413	403.0	220	220	68	0	68	300	260	230	340.6
96102241	DN 150/DN 100	450	500.5	280	280	78	0	78	340	300	300	404.6
97695489	DN 150	450	500.5	280	280	78	0	78	340	300	300	404.6
96641489	DN 200	485	710	365	535	89	86	175	500	430	430	709
96782483	DN 250	545	752.5	375	565	89	86	175	540	468.7	468.7	744
96782484	DN 300	650	860	450	670	80	95	175	620	551	551	844

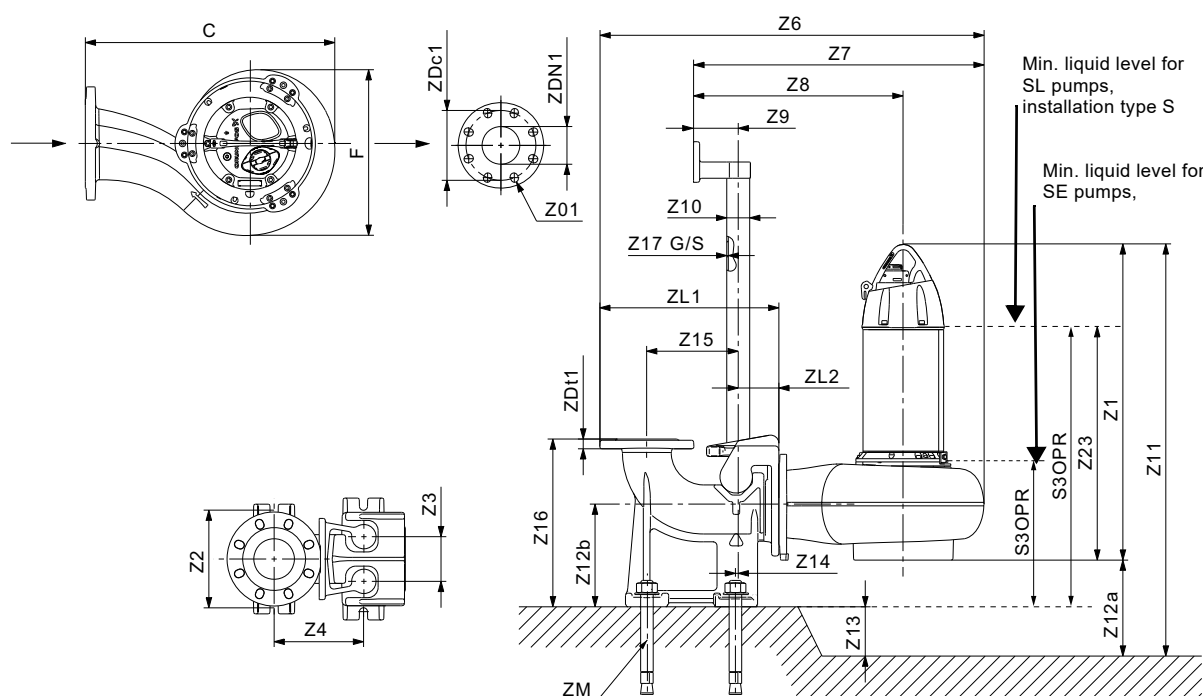
Stainless steel

Product number	Size	Dimensions [mm]										
		A	B	C	D	E	F	G	H	I	J	K
96825106	DN 80	345	326.6	171	160	27	27	54	240	220	220	228
96825108	DN 100	413	403	220	220	68	0	68	300	230	260	340.6
96989863	DN 150	450	500.5	280	280	78	0	78	340	300	300	404.6

Pump installation dimensions

Submerged installation

Installation on Auto-coupling



TM07 6439 2020

Fig. 27 Auto-coupling dimensions

SE1/SE2/SEV (part 1)

Pump type SE1/SE2/SEV	C	F	Z01	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z12b
SE1.75.100.130.2.52S.C	476	382	8 x 20	1131	260	110	220	919	693	502	110	60	1232	100	240
SE1.75.100.150.2.52S.C	476	382	8 x 20	1131	260	110	220	919	693	502	110	60	1232	100	240
SE1.75.100.170.2.52S.C	476	382	8 x 20	1131	260	110	220	919	693	502	110	60	1232	100	240
SE1.75.100.185.2.52S.C	476	382	8 x 20	1131	260	110	220	919	693	502	110	60	1232	100	240
SE1.80.100.200.2.52S.C	476	383	8 x 20	1145	260	110	220	919	693	502	110	60	1285	140	240
SE1.80.100.220.2.52S.C	476	383	8 x 20	1145	260	110	220	919	693	502	110	60	1285	140	240
SE1.80.100.240.2.52S.C	476	383	8 x 20	1145	260	110	220	919	693	502	110	60	1285	140	240
SE1.80.100.265.2.52S.C	476	383	8 x 20	1145	260	110	220	919	693	502	110	60	1285	140	240
SE1.85.100.100.4.52H.C	609	460	8 x 20	1160	260	110	220	1052	826	597	110	60	1300	140	240
SE1.85.100.110.4.52H.C	609	460	8 x 20	1160	260	110	220	1052	826	597	110	60	1300	140	240
SE1.85.100.130.4.52H.C	609	460	8 x 20	1160	260	110	220	1052	826	597	110	60	1300	140	240
SE1.85.100.150.4.52H.C	609	460	8 x 20	1160	260	110	220	1052	826	597	110	60	1300	140	240
SE1.85.100.170.4.52H.C	625	494	8 x 20	1160	260	110	220	1068	842	597	110	60	1300	140	240
SE1.85.100.185.4.52H.C	625	494	8 x 20	1160	260	110	220	1068	842	597	110	60	1300	140	240
SE1.85.150.100.4.52H.C	605	485	8 x 25	1159	300	123	280	1157	844	619	110	89	1279	120	275
SE1.85.150.110.4.52H.C	605	485	8 x 25	1159	300	123	280	1157	844	619	110	89	1279	120	275
SE1.85.150.130.4.52H.C	605	485	8 x 25	1159	300	123	280	1157	844	619	110	89	1279	120	275
SE1.85.150.150.4.52H.C	605	485	8 x 25	1159	300	123	280	1157	844	619	110	89	1279	120	275
SE1.85.150.170.4.52H.C	620	485	8 x 25	1160	300	123	280	1172	859	619	110	89	1280	120	275
SE1.85.150.185.4.52H.C	620	485	8 x 25	1160	300	123	280	1172	859	619	110	89	1280	120	275
SE1.95.100.200.4.52H.C	625	494	8 x 20	1160	260	110	220	1068	842	597	110	60	1300	140	240
SE1.95.100.220.4.52H.C	625	494	8 x 20	1160	260	110	220	1068	842	597	110	60	1300	140	240
SE1.95.150.200.4.52H.C	620	485	8 x 25	1160	300	123	280	1172	859	619	110	89	1280	120	275
SE1.95.150.220.4.52H.C	620	485	8 x 25	1160	300	123	280	1172	859	619	110	89	1280	120	275
SE1.110.200.100.4.52M.C	755	500	8 x 23	1188	430	200	535	1516	1148	893	170	89	1328	140	196
SE1.110.200.110.4.52M.C	755	500	8 x 23	1188	430	200	535	1516	1148	893	170	89	1328	140	196
SE1.110.200.130.4.52M.C	755	500	8 x 23	1188	430	200	535	1516	1148	893	170	89	1328	140	196
SE1.110.200.150.4.52M.C	755	500	8 x 23	1188	430	200	535	1516	1148	893	170	89	1328	140	196
SE1.110.200.170.4.52M.C	785	559	8 x 23	1187	430	200	535	1546	1178	893	170	89	1327	140	196
SE1.110.200.185.4.52M.C	785	559	8 x 23	1187	430	200	535	1546	1178	893	170	89	1327	140	196
SE1.110.200.200.4.52M.C	785	559	8 x 23	1187	430	200	535	1546	1178	893	170	89	1327	140	196
SE1.110.200.220.4.52M.C	785	559	8 x 23	1187	430	200	535	1546	1178	893	170	89	1327	140	196
SE2.110.250.130.4.52L.C	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224

Pump type SE1/SE2/SEV	C	F	Z01	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z12b
SE2.110.250.150.4.52L.C	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SE2.110.250.170.4.52L.C	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SE2.110.250.185.4.52L.C	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SE2.110.250.200.4.52L.C	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SE2.110.250.220.4.52L.C	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SE2.125.300.110.6.52E.C	961	691	12 x 23	1254	551	200	670	1856	1357	996	170	89	1394	140	256
SE2.125.300.130.6.52E.C	961	691	12 x 23	1254	551	200	670	1856	1357	996	170	89	1394	140	256
SE2.125.300.160.6.52E.C	978	749	12 x 23	1254	551	200	670	1873	1374	996	170	89	1394	140	256
SE2.125.300.180.6.52E.C	978	749	12 x 23	1254	551	200	670	1873	1374	996	170	89	1394	140	256
SEV.80.80.130.2.52H.C	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SEV.80.80.150.2.52H.C	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SEV.80.80.170.2.52H.C	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SEV.80.80.185.2.52H.C	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SEV.80.80.200.2.52H.C	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SEV.80.80.220.2.52H.C	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SEV.80.80.240.2.52H.C	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SEV.80.80.265.2.52H.C	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240

SE1/SE2/SEV (part 2)

Pump type SE1/SE2/SEV	Z13	Z14	Z15	Z16	Z17G	Z17S	Z23	S3OPR	ZDC1	ZDN1	ZDT1	ZL1	ZL2	ZM	ZL2	ZM
SE1.75.100.130.2.52S.C	0	0	220	413	3	3	300	401	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.75.100.150.2.52S.C	0	0	220	413	3	3	300	401	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.75.100.170.2.52S.C	0	0	220	413	3	3	300	401	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.75.100.185.2.52S.C	0	0	220	413	3	3	300	401	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.80.100.200.2.52S.C	37	0	220	413	3	3	314	417	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.80.100.220.2.52S.C	37	0	220	413	3	3	314	417	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.80.100.240.2.52S.C	37	0	220	413	3	3	314	417	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.80.100.265.2.52S.C	37	0	220	413	3	3	314	417	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.85.100.100.4.52H.C	84	0	220	413	3	3	329	385	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.85.100.110.4.52H.C	84	0	220	413	3	3	329	385	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.85.100.130.4.52H.C	84	0	220	413	3	3	329	385	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.85.100.150.4.52H.C	84	0	220	413	3	3	329	385	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.85.100.170.4.52H.C	89	0	220	413	3	3	329	380	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.85.100.185.4.52H.C	89	0	220	413	3	3	329	380	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.85.150.100.4.52H.C	18	0	280	450	3	3	328	430	240	DN 150	22	552	129	4 x M16	129	4 x M16
SE1.85.150.110.4.52H.C	18	0	280	450	3	3	328	430	240	DN 150	22	552	129	4 x M16	129	4 x M16
SE1.85.150.130.4.52H.C	18	0	280	450	3	3	328	430	240	DN 150	22	552	129	4 x M16	129	4 x M16
SE1.85.150.150.4.52H.C	18	0	280	450	3	3	328	430	240	DN 150	22	552	129	4 x M16	129	4 x M16
SE1.85.150.170.4.52H.C	18	0	280	450	3	3	329	431	240	DN 150	22	552	129	4 x M16	129	4 x M16
SE1.85.150.185.4.52H.C	18	0	280	450	3	3	329	431	240	DN 150	22	552	129	4 x M16	129	4 x M16
SE1.95.100.200.4.52H.C	89	0	220	413	3	3	329	380	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.95.100.220.4.52H.C	89	0	220	413	3	3	329	380	180	DN 100	21	443	107	4 x M16	107	4 x M16
SE1.95.150.200.4.52H.C	18	0	280	450	3	3	329	431	240	DN 150	22	552	129	4 x M16	129	4 x M16
SE1.95.150.220.4.52H.C	18	0	280	450	3	3	329	431	240	DN 150	22	552	129	4 x M16	129	4 x M16
SE1.110.200.100.4.52M.C	131	86	365	485	3	3	357	366	295	DN 200	31	761	223	4 x M24	223	4 x M24
SE1.110.200.110.4.52M.C	131	86	365	485	3	3	357	366	295	DN 200	31	761	223	4 x M24	223	4 x M24
SE1.110.200.130.4.52M.C	131	86	365	485	3	3	357	366	295	DN 200	31	761	223	4 x M24	223	4 x M24
SE1.110.200.150.4.52M.C	131	86	365	485	3	3	357	366	295	DN 200	31	761	223	4 x M24	223	4 x M24
SE1.110.200.170.4.52M.C	131	86	365	485	3	3	356	365	295	DN 200	31	761	223	4 x M24	223	4 x M24
SE1.110.200.185.4.52M.C	131	86	365	485	3	3	356	365	295	DN 200	31	761	223	4 x M24	223	4 x M24
SE1.110.200.200.4.52M.C	131	86	365	485	3	3	356	365	295	DN 200	31	761	223	4 x M24	223	4 x M24
SE1.110.200.220.4.52M.C	131	86	365	485	3	3	356	365	295	DN 200	31	761	223	4 x M24	223	4 x M24
SE2.110.250.130.4.52L.C	114	86	375	545	3	3	371	397	350	DN 250	32	795	226	4 x M24	226	4 x M24
SE2.110.250.150.4.52L.C	114	86	375	545	3	3	371	397	350	DN 250	32	795	226	4 x M24	226	4 x M24
SE2.110.250.170.4.52L.C	114	86	375	545	3	3	371	397	350	DN 250	32	795	226	4 x M24	226	4 x M24
SE2.110.250.185.4.52L.C	114	86	375	545	3	3	371	397	350	DN 250	32	795	226	4 x M24	226	4 x M24
SE2.110.250.200.4.52L.C	114	86	375	545	3	3	371	397	350	DN 250	32	795	226	4 x M24	226	4 x M24
SE2.110.250.220.4.52L.C	114	86	375	545	3	3	371	397	350	DN 250	32	795	226	4 x M24	226	4 x M24
SE2.125.300.110.6.52E.C	114	95	450	650	3	3	423	449	400	DN 300	32	895	226	4 x M24	226	4 x M24
SE2.125.300.130.6.52E.C	114	95	450	650	3	3	423	449	400	DN 300	32	895	226	4 x M24	226	4 x M24
SE2.125.300.160.6.52E.C	114	95	450	650	3	3	423	449	400	DN 300	32	895	226	4 x M24	226	4 x M24
SE2.125.300.180.6.52E.C	114	95	450	650	3	3	423	449	400	DN 300	32	895	226	4 x M24	226	4 x M24
SEV.80.80.130.2.52H.C	10	0	220	413	3	3	293	383	180	DN 100	21	463	127	4 x M16	127	4 x M16
SEV.80.80.150.2.52H.C	10	0	220	413	3	3	293	383	180	DN 100	21	463	127	4 x M16	127	4 x M16
SEV.80.80.170.2.52H.C	10	0	220	413	3	3	293	383	180	DN 100	21	463	127	4 x M16	127	4 x M16
SEV.80.80.185.2.52H.C	10	0	220	413	3	3	293	383	180	DN 100	21	463	127	4 x M16	127	4 x M16
SEV.80.80.200.2.52H.C	10	0	220	413	3	3	293	383	180	DN 100	21	463	127	4 x M16	127	4 x M16
SEV.80.80.220.2.52H.C	10	0	220	413	3	3	293	383	180	DN 100	21	463	127	4 x M16	127	4 x M16
SEV.80.80.240.2.52H.C	10	0	220	413	3	3	293	383	180	DN 100	21	463	127	4 x M16	127	4 x M16
SEV.80.80.265.2.52H.C	10	0	220	413	3	3	293	383	180	DN 100	21	463	127	4 x M16	127	4 x M16

SL1/SL2/SLV (part 1)

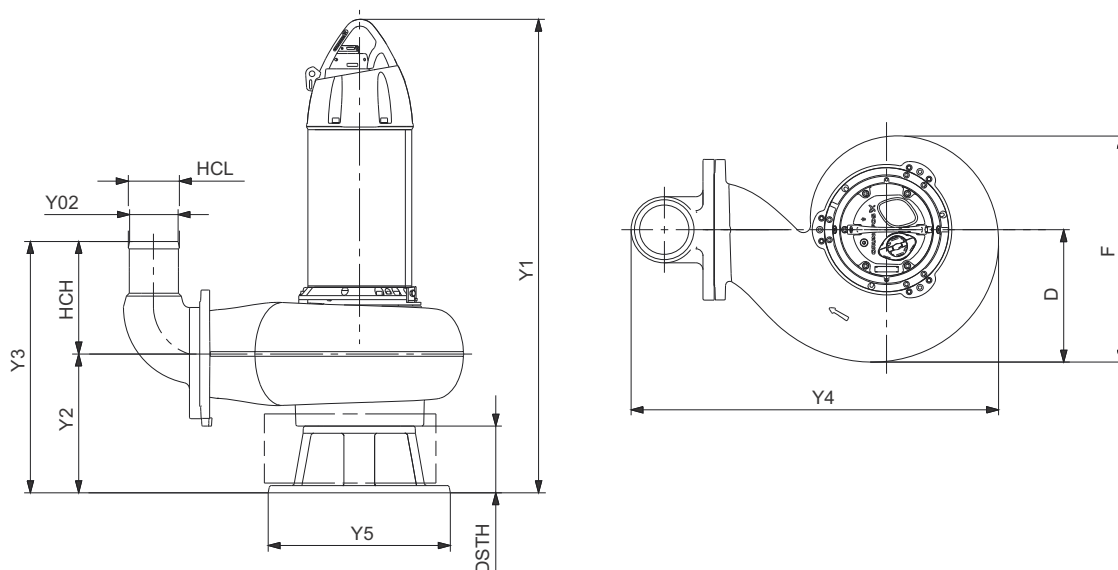
Pump type SL1/SL2/SLV	C	F	Z01	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z12b
SL1.75.100.130.2.52S.S	476	382	8 x 20	1131	260	110	220	919	693	502	110	60	1232	100	240
SL1.75.100.150.2.52S.S	476	382	8 x 20	1131	260	110	220	919	693	502	110	60	1232	100	240
SL1.75.100.170.2.52S.S	476	382	8 x 20	1131	260	110	220	919	693	502	110	60	1232	100	240
SL1.75.100.185.2.52S.S	476	382	8 x 20	1131	260	110	220	919	693	502	110	60	1232	100	240
SL1.80.100.200.2.52S.S	476	383	8 x 20	1145	260	110	220	919	693	502	110	60	1285	140	240
SL1.80.100.220.2.52S.S	476	383	8 x 20	1145	260	110	220	919	693	502	110	60	1285	140	240
SL1.80.100.240.2.52S.S	476	383	8 x 20	1145	260	110	220	919	693	502	110	60	1285	140	240
SL1.80.100.265.2.52S.S	476	383	8 x 20	1145	260	110	220	919	693	502	110	60	1285	140	240
SL1.85.100.100.4.52H.S	609	460	8 x 20	1160	260	110	220	1052	826	597	110	60	1300	140	240
SL1.85.100.110.4.52H.S	609	460	8 x 20	1160	260	110	220	1052	826	597	110	60	1300	140	240
SL1.85.100.130.4.52H.S	609	460	8 x 20	1160	260	110	220	1052	826	597	110	60	1300	140	240
SL1.85.100.150.4.52H.S	609	460	8 x 20	1160	260	110	220	1052	826	597	110	60	1300	140	240
SL1.85.100.170.4.52H.S	625	494	8 x 20	1160	260	110	220	1068	842	597	110	60	1300	140	240
SL1.85.100.185.4.52H.S	625	494	8 x 20	1160	260	110	220	1068	842	597	110	60	1300	140	240
SL1.85.150.100.4.52H.S	605	485	8 x 25	1159	300	123	280	1157	844	619	110	89	1279	120	275
SL1.85.150.110.4.52H.S	605	485	8 x 25	1159	300	123	280	1157	844	619	110	89	1279	120	275
SL1.85.150.130.4.52H.S	605	485	8 x 25	1159	300	123	280	1157	844	619	110	89	1279	120	275
SL1.85.150.150.4.52H.S	605	485	8 x 25	1159	300	123	280	1157	844	619	110	89	1279	120	275
SL1.85.150.170.4.52H.S	620	485	8 x 25	1160	300	123	280	1172	859	619	110	89	1280	120	275
SL1.85.150.185.4.52H.S	620	485	8 x 25	1160	300	123	280	1172	859	619	110	89	1280	120	275
SL1.95.100.200.4.52H.S	625	494	8 x 20	1160	260	110	220	1068	842	597	110	60	1300	140	240
SL1.95.100.220.4.52H.S	625	494	8 x 20	1160	260	110	220	1068	842	597	110	60	1300	140	240
SL1.95.150.200.4.52H.S	620	485	8 x 25	1160	300	123	280	1172	859	619	110	89	1280	120	275
SL1.95.150.220.4.52H.S	620	485	8 x 25	1160	300	123	280	1172	859	619	110	89	1280	120	275
SL1.110.200.100.4.52M.S	755	500	8 x 23	1188	430	200	535	1516	1148	893	170	89	1328	140	196
SL1.110.200.110.4.52M.S	755	500	8 x 23	1188	430	200	535	1516	1148	893	170	89	1328	140	196
SL1.110.200.130.4.52M.S	755	500	8 x 23	1188	430	200	535	1516	1148	893	170	89	1328	140	196
SL1.110.200.150.4.52M.S	755	500	8 x 23	1188	430	200	535	1516	1148	893	170	89	1328	140	196
SL1.110.200.170.4.52M.S	785	559	8 x 23	1187	430	200	535	1546	1178	893	170	89	1327	140	196
SL1.110.200.185.4.52M.S	785	559	8 x 23	1187	430	200	535	1546	1178	893	170	89	1327	140	196
SL1.110.200.200.4.52M.S	785	559	8 x 23	1187	430	200	535	1546	1178	893	170	89	1327	140	196
SL1.110.200.220.4.52M.S	785	559	8 x 23	1187	430	200	535	1546	1178	893	170	89	1327	140	196
SL2.110.250.100.4.52L.S	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SL2.110.250.130.4.52L.S	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SL2.110.250.150.4.52L.S	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SL2.110.250.170.4.52L.S	849	680	12 x 23	1202	471	200	565	1644	1245	896	170	89	1342	140	224
SL2.125.300.110.6.52E.S	961	691	12 x 23	1254	551	200	670	1856	1357	996	170	89	1394	140	256
SL2.125.300.130.6.52E.S	961	691	12 x 23	1254	551	200	670	1856	1357	996	170	89	1394	140	256
SL2.125.300.160.6.52E.S	978	749	12 x 23	1254	551	200	670	1873	1374	996	170	89	1394	140	256
SL2.125.300.180.6.52E.S	978	749	12 x 23	1254	551	200	670	1873	1374	996	170	89	1394	140	256
SLV.80.80.130.2.52H.S	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SLV.80.80.150.2.52H.S	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SLV.80.80.170.2.52H.S	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SLV.80.80.185.2.52H.S	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SLV.80.80.200.2.52H.S	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SLV.80.80.220.2.52H.S	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SLV.80.80.240.2.52H.S	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240
SLV.80.80.265.2.52H.S	527	394	8 x 20	1124	260	110	220	990	764	567	110	60	1224	100	240

SL1/SL2/SLV (part 2)

Pump type SL1/SL2/SLV	Z13	Z14	Z15	Z16	Z17G	Z17S	Z23	S3OPR	ZDC1	ZDN1	ZDT1	ZL1	ZL2	ZM
SL1.75.100.130.2.52S.S	0	0	220	413	3	3	846	947	180	DN 100	21	443	107	4 x M16
SL1.75.100.150.2.52S.S	0	0	220	413	3	3	846	947	180	DN 100	21	443	107	4 x M16
SL1.75.100.170.2.52S.S	0	0	220	413	3	3	846	947	180	DN 100	21	443	107	4 x M16
SL1.75.100.185.2.52S.S	0	0	220	413	3	3	846	947	180	DN 100	21	443	107	4 x M16
SL1.80.100.200.2.52S.S	37	0	220	413	3	3	860	963	180	DN 100	21	443	107	4 x M16
SL1.80.100.220.2.52S.S	37	0	220	413	3	3	860	963	180	DN 100	21	443	107	4 x M16
SL1.80.100.240.2.52S.S	37	0	220	413	3	3	860	963	180	DN 100	21	443	107	4 x M16
SL1.80.100.265.2.52S.S	37	0	220	413	3	3	860	963	180	DN 100	21	443	107	4 x M16
SL1.85.100.100.4.52H.S	84	0	220	413	3	3	875	931	180	DN 100	21	443	107	4 x M16
SL1.85.100.110.4.52H.S	84	0	220	413	3	3	875	931	180	DN 100	21	443	107	4 x M16
SL1.85.100.130.4.52H.S	84	0	220	413	3	3	875	931	180	DN 100	21	443	107	4 x M16
SL1.85.100.150.4.52H.S	84	0	220	413	3	3	875	931	180	DN 100	21	443	107	4 x M16
SL1.85.100.170.4.52H.S	89	0	220	413	3	3	875	926	180	DN 100	21	443	107	4 x M16
SL1.85.100.185.4.52H.S	89	0	220	413	3	3	875	926	180	DN 100	21	443	107	4 x M16
SL1.85.150.100.4.52H.S	18	0	280	450	3	3	874	976	240	DN 150	22	552	129	4 x M16
SL1.85.150.110.4.52H.S	18	0	280	450	3	3	874	976	240	DN 150	22	552	129	4 x M16
SL1.85.150.130.4.52H.S	18	0	280	450	3	3	874	976	240	DN 150	22	552	129	4 x M16
SL1.85.150.150.4.52H.S	18	0	280	450	3	3	874	976	240	DN 150	22	552	129	4 x M16
SL1.85.150.170.4.52H.S	18	0	280	450	3	3	875	977	240	DN 150	22	552	129	4 x M16
SL1.85.150.185.4.52H.S	18	0	280	450	3	3	875	977	240	DN 150	22	552	129	4 x M16
SL1.95.100.200.4.52H.S	89	0	220	413	3	3	875	926	180	DN 100	21	443	107	4 x M16
SL1.95.100.220.4.52H.S	89	0	220	413	3	3	875	926	180	DN 100	21	443	107	4 x M16
SL1.95.150.200.4.52H.S	18	0	280	450	3	3	875	977	240	DN 150	22	552	129	4 x M16
SL1.95.150.220.4.52H.S	18	0	280	450	3	3	875	977	240	DN 150	22	552	129	4 x M16
SL1.110.200.100.4.52M.S	131	86	365	485	3	3	903	912	295	DN 200	31	761	223	4 x M24
SL1.110.200.110.4.52M.S	131	86	365	485	3	3	903	912	295	DN 200	31	761	223	4 x M24
SL1.110.200.130.4.52M.S	131	86	365	485	3	3	903	912	295	DN 200	31	761	223	4 x M24
SL1.110.200.150.4.52M.S	131	86	365	485	3	3	903	912	295	DN 200	31	761	223	4 x M24
SL1.110.200.170.4.52M.S	131	86	365	485	3	3	902	911	295	DN 200	31	761	223	4 x M24
SL1.110.200.185.4.52M.S	131	86	365	485	3	3	902	911	295	DN 200	31	761	223	4 x M24
SL1.110.200.200.4.52M.S	131	86	365	485	3	3	902	911	295	DN 200	31	761	223	4 x M24
SL1.110.200.220.4.52M.S	131	86	365	485	3	3	902	911	295	DN 200	31	761	223	4 x M24
SL2.110.250.100.4.52L.S	114	86	375	545	3	3	917	943	350	DN 250	32	795	226	4 x M24
SL2.110.250.130.4.52L.S	114	86	375	545	3	3	917	943	350	DN 250	32	795	226	4 x M24
SL2.110.250.150.4.52L.S	114	86	375	545	3	3	917	943	350	DN 250	32	795	226	4 x M24
SL2.110.250.170.4.52L.S	114	86	375	545	3	3	917	943	350	DN 250	32	795	226	4 x M24
SL2.125.300.110.6.52E.S	114	95	450	650	3	3	969	995	400	DN 300	32	895	226	4 x M24
SL2.125.300.130.6.52E.S	114	95	450	650	3	3	969	995	400	DN 300	32	895	226	4 x M24
SL2.125.300.160.6.52E.S	114	95	450	650	3	3	969	995	400	DN 300	32	895	226	4 x M24
SL2.125.300.180.6.52E.S	114	95	450	650	3	3	969	995	400	DN 300	32	895	226	4 x M24
SLV.80.80.130.2.52H.S	10	0	220	413	3	3	839	929	180	DN 100	21	463	127	4 x M16
SLV.80.80.150.2.52H.S	10	0	220	413	3	3	839	929	180	DN 100	21	463	127	4 x M16
SLV.80.80.170.2.52H.S	10	0	220	413	3	3	839	929	180	DN 100	21	463	127	4 x M16
SLV.80.80.185.2.52H.S	10	0	220	413	3	3	839	929	180	DN 100	21	463	127	4 x M16
SLV.80.80.200.2.52H.S	10	0	220	413	3	3	839	929	180	DN 100	21	463	127	4 x M16
SLV.80.80.220.2.52H.S	10	0	220	413	3	3	839	929	180	DN 100	21	463	127	4 x M16
SLV.80.80.240.2.52H.S	10	0	220	413	3	3	839	929	180	DN 100	21	463	127	4 x M16
SLV.80.80.265.2.52H.S	10	0	220	413	3	3	839	929	180	DN 100	21	463	127	4 x M16

Submerged installation

Installation on ring stand



TM07 6440 2020

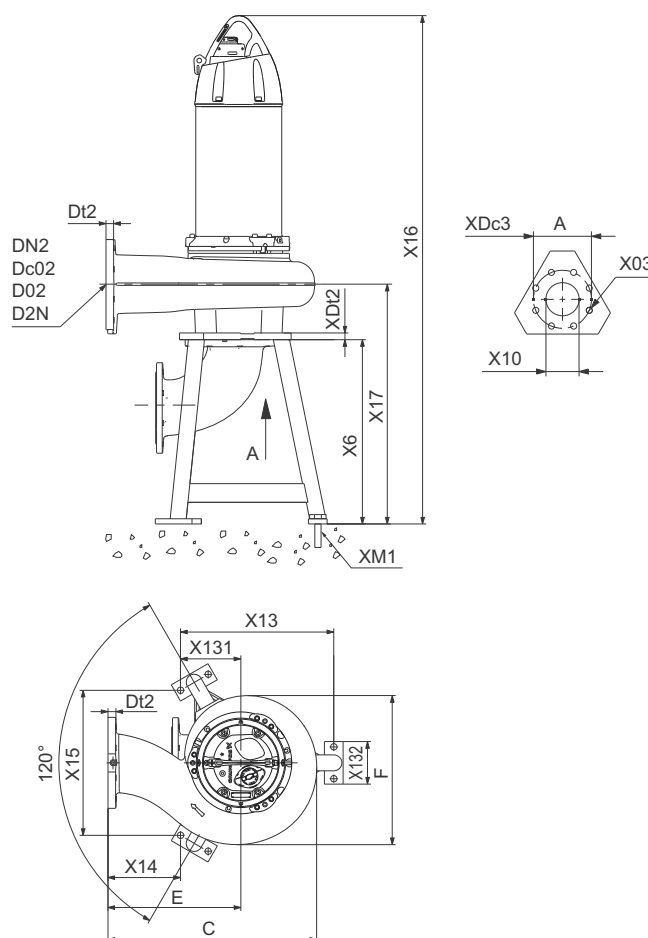
Fig. 28 Ring stand dimensions

SE1/SEV

Pump type SE1/SEV	Y02	Y1	Y2	Y3	Y4	Y5	HCH	HCL	DSTH	D	F
SE1.75.100.130.2.52S.C	105	1261	269	446	605	355	177	142	130	190	382
SE1.75.100.150.2.52S.C	105	1261	269	446	605	355	177	142	130	190	382
SE1.75.100.170.2.52S.C	105	1261	269	446	605	355	177	142	130	190	382
SE1.75.100.185.2.52S.C	105	1261	269	446	605	355	177	142	130	190	382
SE1.80.100.200.2.52S.C	105	1275	267	444	605	355	177	142	130	191	383
SE1.80.100.220.2.52S.C	105	1275	267	444	605	355	177	142	130	191	383
SE1.80.100.240.2.52S.C	105	1275	267	444	605	355	177	142	130	191	383
SE1.80.100.265.2.52S.C	105	1275	267	444	605	355	177	142	130	191	383
SE1.85.100.100.4.52H.C	105	1346	370	514	771	450	144	166	186	255	460
SE1.85.100.110.4.52H.C	105	1346	370	514	771	450	144	166	186	255	460
SE1.85.100.130.4.52H.C	105	1346	370	514	771	450	144	166	186	255	460
SE1.85.100.150.4.52H.C	105	1346	370	514	771	450	144	166	186	255	460
SE1.85.100.170.4.52H.C	105	1346	375	519	771	450	144	166	186	270	494
SE1.85.100.185.4.52H.C	105	1346	375	519	771	450	144	166	186	270	494
SE1.85.150.100.4.52H.C	150	1345	359	632	867	450	273	262	186	266	485
SE1.85.150.110.4.52H.C	150	1345	359	632	867	450	273	262	186	266	485
SE1.85.150.130.4.52H.C	150	1345	359	632	867	450	273	262	186	266	485
SE1.85.150.150.4.52H.C	150	1345	359	632	867	450	273	262	186	266	485
SE1.85.150.170.4.52H.C	150	1346	359	632	867	450	273	262	186	266	485
SE1.85.150.185.4.52H.C	150	1346	359	632	867	450	273	262	186	266	485
SE1.95.100.200.4.52H.C	105	1346	375	519	771	450	144	166	186	270	494
SE1.95.100.220.4.52H.C	105	1346	375	519	771	450	144	166	186	270	494
SE1.95.150.200.4.52H.C	150	1346	359	632	867	450	273	262	186	266	485
SE1.95.150.220.4.52H.C	150	1346	359	632	867	450	273	262	186	266	485
SE1.110.200.100.4.52M.C	205	1348	347	782	1193	550	435	418	160	278	500
SE1.110.200.110.4.52M.C	205	1348	347	782	1193	550	435	418	160	278	500
SE1.110.200.130.4.52M.C	205	1348	347	782	1193	550	435	418	160	278	500
SE1.110.200.150.4.52M.C	205	1348	347	782	1193	550	435	418	160	278	500
SE1.110.200.170.4.52M.C	205	1347	347	782	1193	550	435	418	160	307	559
SE1.110.200.185.4.52M.C	205	1347	347	782	1193	550	435	418	160	307	559
SE1.110.200.200.4.52M.C	205	1347	347	782	1193	550	435	418	160	307	559
SE1.110.200.220.4.52M.C	205	1347	347	782	1193	550	435	418	160	307	559
SEV.80.80.130.2.52H.C	79	1254	280	454	626	355	174	118	130	197	394
SEV.80.80.150.2.52H.C	79	1254	280	454	626	355	174	118	130	197	394
SEV.80.80.170.2.52H.C	79	1254	280	454	626	355	174	118	130	197	394
SEV.80.80.185.2.52H.C	79	1254	280	454	626	355	174	118	130	197	394
SEV.80.80.200.2.52H.C	79	1254	280	454	626	355	174	118	130	197	394
SEV.80.80.220.2.52H.C	79	1254	280	454	626	355	174	118	130	197	394
SEV.80.80.240.2.52H.C	79	1254	280	454	626	355	174	118	130	197	394
SEV.80.80.265.2.52H.C	79	1254	280	454	626	355	174	118	130	197	394

SL1/SLV

Pump type SL1/SLV	Y02	Y1	Y2	Y3	Y4	Y5	HCH	HCL	DSTH	D	F
SL1.75.100.130.2.52S.S	105	1261	269	446	605	355	177	142	130	190	382
SL1.75.100.150.2.52S.S	105	1261	269	446	605	355	177	142	130	190	382
SL1.75.100.170.2.52S.S	105	1261	269	446	605	355	177	142	130	190	382
SL1.75.100.185.2.52S.S	105	1261	269	446	605	355	177	142	130	190	382
SL1.80.100.200.2.52S.S	105	1275	267	444	605	355	177	142	130	191	383
SL1.80.100.220.2.52S.S	105	1275	267	444	605	355	177	142	130	191	383
SL1.80.100.240.2.52S.S	105	1275	267	444	605	355	177	142	130	191	383
SL1.80.100.265.2.52S.S	105	1275	267	444	605	355	177	142	130	191	383
SL1.85.100.100.4.52H.S	105	1346	370	514	771	450	144	166	186	255	460
SL1.85.100.110.4.52H.S	105	1346	370	514	771	450	144	166	186	255	460
SL1.85.100.130.4.52H.S	105	1346	370	514	771	450	144	166	186	255	460
SL1.85.100.150.4.52H.S	105	1346	370	514	771	450	144	166	186	255	460
SL1.85.100.170.4.52H.S	105	1346	375	519	771	450	144	166	186	270	494
SL1.85.100.185.4.52H.S	105	1346	375	519	771	450	144	166	186	270	494
SL1.85.150.100.4.52H.S	150	1345	359	632	867	450	273	262	186	266	485
SL1.85.150.110.4.52H.S	150	1345	359	632	867	450	273	262	186	266	485
SL1.85.150.130.4.52H.S	150	1345	359	632	867	450	273	262	186	266	485
SL1.85.150.150.4.52H.S	150	1345	359	632	867	450	273	262	186	266	485
SL1.85.150.170.4.52H.S	150	1346	359	632	867	450	273	262	186	266	485
SL1.85.150.185.4.52H.S	150	1346	359	632	867	450	273	262	186	266	485
SL1.95.100.200.4.52H.S	105	1346	375	519	771	450	144	166	186	270	494
SL1.95.100.220.4.52H.S	105	1346	375	519	771	450	144	166	186	270	494
SL1.95.150.200.4.52H.S	150	1346	359	632	867	450	273	262	186	266	485
SL1.95.150.220.4.52H.S	150	1346	359	632	867	450	273	262	186	266	485
SL1.110.200.100.4.52M.S	205	1348	347	782	1193	550	435	418	160	278	500
SL1.110.200.110.4.52M.S	205	1348	347	782	1193	550	435	418	160	278	500
SL1.110.200.130.4.52M.S	205	1348	347	782	1193	550	435	418	160	278	500
SL1.110.200.150.4.52M.S	205	1348	347	782	1193	550	435	418	160	278	500
SL1.110.200.170.4.52M.S	205	1347	347	782	1193	550	435	418	160	307	559
SL1.110.200.185.4.52M.S	205	1347	347	782	1193	550	435	418	160	307	559
SL1.110.200.200.4.52M.S	205	1347	347	782	1193	550	435	418	160	307	559
SL1.110.200.220.4.52M.S	205	1347	347	782	1193	550	435	418	160	307	559
SLV.80.80.130.2.52H.S	79	1254	280	454	626	355	174	118	130	197	394
SLV.80.80.150.2.52H.S	79	1254	280	454	626	355	174	118	130	197	394
SLV.80.80.170.2.52H.S	79	1254	280	454	626	355	174	118	130	197	394
SLV.80.80.185.2.52H.S	79	1254	280	454	626	355	174	118	130	197	394
SLV.80.80.200.2.52H.S	79	1254	280	454	626	355	174	118	130	197	394
SLV.80.80.220.2.52H.S	79	1254	280	454	626	355	174	118	130	197	394
SLV.80.80.240.2.52H.S	79	1254	280	454	626	355	174	118	130	197	394
SLV.80.80.265.2.52H.S	79	1254	280	454	626	355	174	118	130	197	394

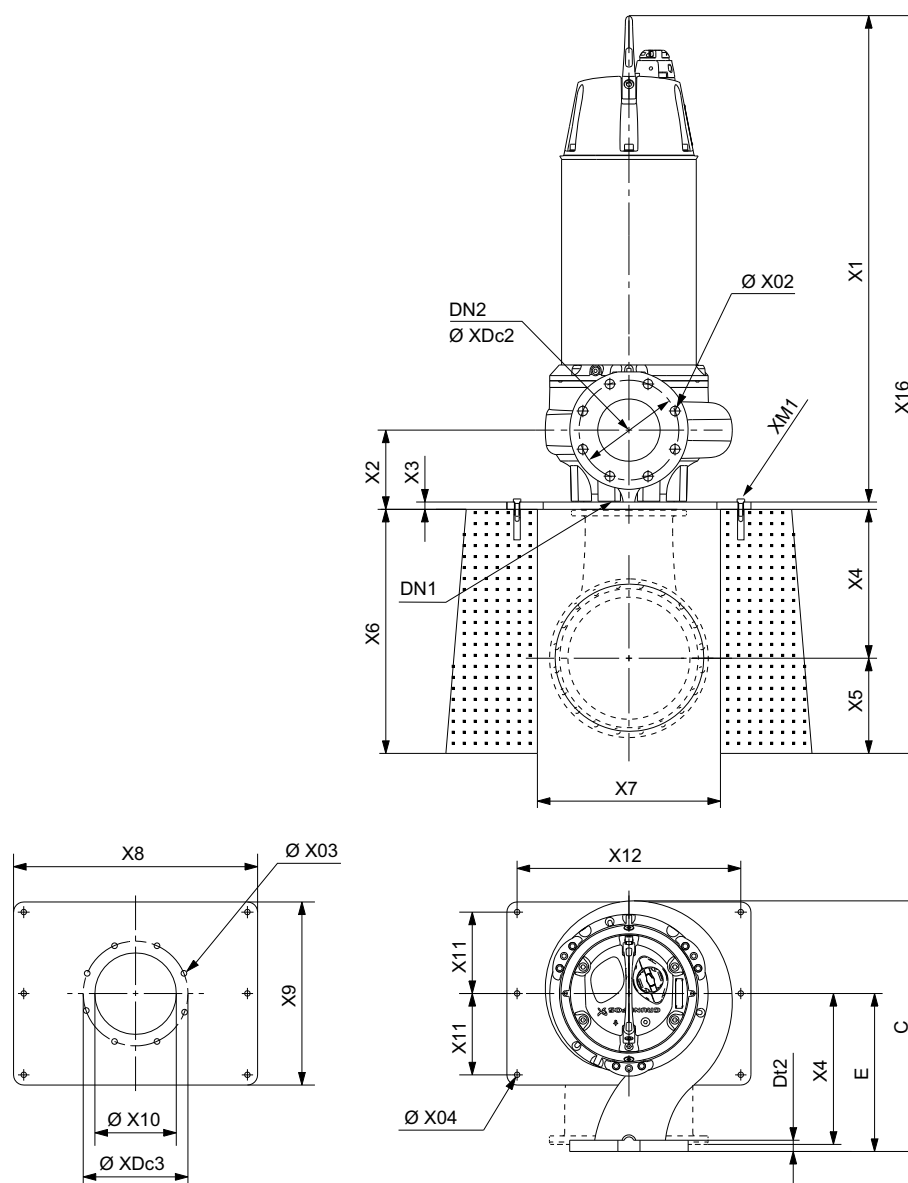
Dry, vertical installation**Installation on vertical base stand****Fig. 29** Vertical base stand dimensions**SE1 (part 1)**

Pump type SE1	C	E	F	X6	X10	X13	X14	X15	X16
SE1.75.100.130.2.52S.C	476	285	382	443	DN 100	405	150	468	1574
SE1.85.100.100.4.52H.C	609	380	460	621	DN 150	450	230	520	1781
SE1.85.100.110.4.52H.C	609	380	460	621	DN 150	450	230	520	1781
SE1.85.100.130.4.52H.C	609	380	460	621	DN 150	450	230	520	1781
SE1.85.150.100.4.52H.C	605	380	485	621	DN 150	450	230	520	1780
SE1.85.150.110.4.52H.C	605	380	485	621	DN 150	450	230	520	1780
SE1.85.150.130.4.52H.C	605	380	485	621	DN 150	450	230	520	1780
SE1.110.200.100.4.52M.C	755	500	500	719	DN 200	525	325	606	1907
SE1.110.200.110.4.52M.C	755	500	500	719	DN 200	525	325	606	1907
SE1.110.200.130.4.52M.C	755	500	500	719	DN 200	525	325	606	1907

SE1 (part 2)

Pump type SE1	X17	X131	X132	XDt2	XDc3	X03	Dt2	DN2	XM1
SE1.75.100.130.2.52S.C	582	135	0	22	180	19	25	DN 100	M20 x 3
SE1.85.100.100.4.52H.C	805	150	120	24	240	24	24	DN 100	M20 x 6
SE1.85.100.110.4.52H.C	805	150	120	24	240	24	24	DN 100	M20 x 6
SE1.85.100.130.4.52H.C	805	150	120	24	240	24	24	DN 100	M20 x 6
SE1.85.150.100.4.52H.C	794	150	120	24	240	24	27	DN 150	M20 x 6
SE1.85.150.110.4.52H.C	794	150	120	24	240	24	27	DN 150	M20 x 6
SE1.85.150.130.4.52H.C	794	150	120	24	240	24	27	DN 150	M20 x 6
SE1.110.200.100.4.52M.C	906	175	120	26	295	24	30	DN 200	M20 x 6
SE1.110.200.110.4.52M.C	906	175	120	26	295	24	30	DN 200	M20 x 6
SE1.110.200.130.4.52M.C	906	175	120	26	295	24	30	DN 200	M20 x 6

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Dry, vertical installation**Installation on concrete foundation**

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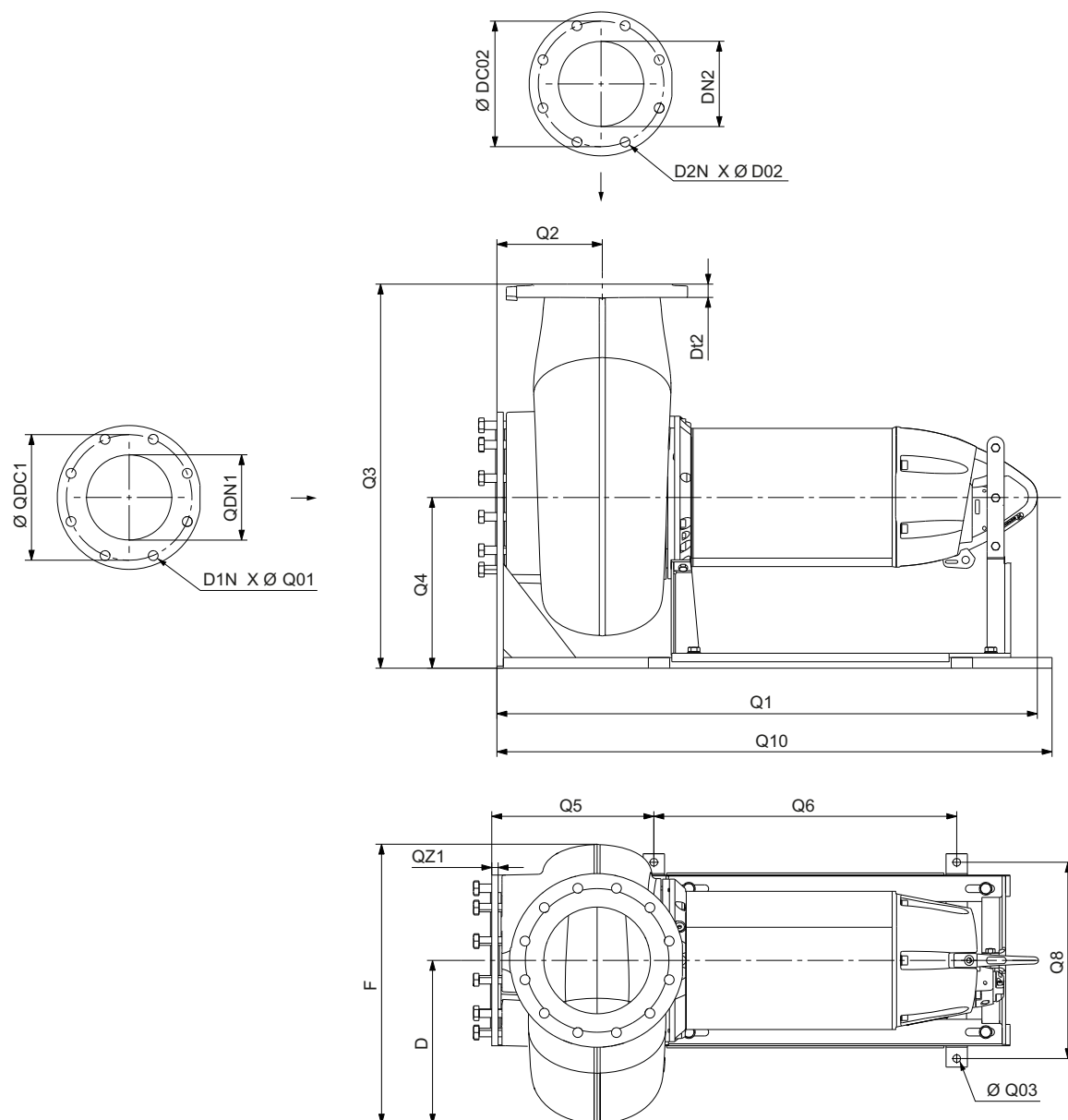
Fig. 30 Concrete foundation dimensions**SE1/SE2 (part 1)**

Pump type SE1/SE2	C	E	X02	X03	X04	X1	X2	X3	X6	X7	X8
SE1.75.100.150.2.52S.C	476	285	18	19	28	1131	139	23	443	500	900
SE1.75.100.170.2.52S.C	476	285	18	19	28	1131	139	23	443	500	900
SE1.75.100.185.2.52S.C	476	285	18	19	28	1131	139	23	443	500	900
SE1.80.100.200.2.52S.C	476	285	18	19	28	1145	137	23	443	500	900
SE1.80.100.220.2.52S.C	476	285	18	19	28	1145	137	23	443	500	900
SE1.80.100.240.2.52S.C	476	285	18	19	28	1145	137	23	443	500	900
SE1.80.100.265.2.52S.C	476	285	18	19	28	1145	137	23	443	500	900
SE1.85.100.150.4.52H.C	609	380	19	24	28	1160	184	23	621	500	900
SE1.85.100.170.4.52H.C	625	380	19	24	28	1160	189	23	621	500	900
SE1.85.100.185.4.52H.C	625	380	19	24	28	1160	189	23	621	500	900
SE1.85.150.150.4.52H.C	605	380	23	24	28	1159	173	23	621	500	900
SE1.85.150.170.4.52H.C	620	380	23	24	28	1160	173	23	621	500	900
SE1.85.150.185.4.52H.C	620	380	23	24	28	1160	173	23	621	500	900
SE1.95.100.200.4.52H.C	625	380	19	24	28	1160	189	23	621	500	900
SE1.95.100.220.4.52H.C	625	380	19	24	28	1160	189	23	621	500	900
SE1.95.150.200.4.52H.C	620	380	23	24	28	1160	173	23	621	500	900
SE1.95.150.220.4.52H.C	620	380	23	24	28	1160	173	23	621	500	900

Pump type SE1/SE2	C	E	X02	X03	X04	X1	X2	X3	X6	X7	X8
SE1.110.200.150.4.52M.C	755	500	23	24	28	1188	187	23	719	500	900
SE1.110.200.170.4.52M.C	785	500	23	24	28	1187	187	23	719	500	900
SE1.110.200.185.4.52M.C	785	500	23	24	28	1187	187	23	719	500	900
SE1.110.200.200.4.52M.C	785	500	23	24	28	1187	187	23	719	500	900
SE1.110.200.220.4.52M.C	785	500	23	24	28	1187	187	23	719	500	900
SE2.110.250.130.4.52L.D	849	500	23	23	28	1202	221	23	700	500	900
SE2.110.250.150.4.52L.D	849	500	23	23	28	1202	221	23	700	500	900
SE2.110.250.170.4.52L.D	849	500	23	23	28	1202	221	23	700	500	900
SE2.110.250.185.4.52L.D	849	500	23	23	28	1202	221	23	700	500	900
SE2.110.250.200.4.52L.D	849	500	23	23	28	1202	221	23	700	500	900
SE2.110.250.220.4.52L.D	849	500	23	23	28	1202	221	23	700	500	900
SE2.125.300.110.6.52E.D	961	600	25	23	28	1254	253	23	800	600	900
SE2.125.300.130.6.52E.D	961	600	25	23	28	1254	253	23	800	600	900
SE2.125.300.160.6.52E.D	978	600	25	23	28	1254	253	23	800	600	900
SE2.125.300.180.6.52E.D	978	600	25	23	28	1254	253	23	800	600	900

SE1/SE2 (part 2)

Pump type SE1/SE2	X9	X10	X11	X12	X16	XDc3	DN1	DN2	XDC2	Dt2	XM1
SE1.75.100.150.2.52S.C	700	DN 100	300	800	1574	180	DN 100	DN 100	180	25	M20 x 3
SE1.75.100.170.2.52S.C	700	DN 100	300	800	1574	180	DN 100	DN 100	180	25	M20 x 3
SE1.75.100.185.2.52S.C	700	DN 100	300	800	1574	180	DN 100	DN 100	180	25	M20 x 3
SE1.80.100.200.2.52S.C	700	DN 100	300	800	1588	180	DN 100	DN 100	180	25	M20 x 3
SE1.80.100.220.2.52S.C	700	DN 100	300	800	1588	180	DN 100	DN 100	180	25	M20 x 3
SE1.80.100.240.2.52S.C	700	DN 100	300	800	1588	180	DN 100	DN 100	180	25	M20 x 3
SE1.80.100.265.2.52S.C	700	DN 100	300	800	1588	180	DN 100	DN 100	180	25	M20 x 3
SE1.85.100.150.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 100	180	24	M20 x 6
SE1.85.100.170.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 100	180	24	M20 x 6
SE1.85.100.185.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 100	180	24	M20 x 6
SE1.85.150.150.4.52H.C	700	DN 150	300	800	1780	240	DN 150	DN 150	240	27	M20 x 6
SE1.85.150.170.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 150	240	27	M20 x 6
SE1.85.150.185.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 150	240	27	M20 x 6
SE1.95.100.200.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 100	180	24	M20 x 6
SE1.95.100.220.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 100	180	24	M20 x 6
SE1.95.150.200.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 150	240	27	M20 x 6
SE1.95.150.220.4.52H.C	700	DN 150	300	800	1781	240	DN 150	DN 150	240	27	M20 x 6
SE1.110.200.150.4.52M.C	700	DN 200	300	800	1907	295	DN 200	DN 200	295	30	M20 x 6
SE1.110.200.170.4.52M.C	700	DN 200	300	800	1906	295	DN 200	DN 200	295	30	M20 x 6
SE1.110.200.185.4.52M.C	700	DN 200	300	800	1906	295	DN 200	DN 200	295	30	M20 x 6
SE1.110.200.200.4.52M.C	700	DN 200	300	800	1906	295	DN 200	DN 200	295	30	M20 x 6
SE1.110.200.220.4.52M.C	700	DN 200	300	800	1906	295	DN 200	DN 200	295	30	M20 x 6
SE2.110.250.130.4.52L.D	700	DN 250	300	800	1925	350	DN 250	DN 250	350	32	M24 x 6
SE2.110.250.150.4.52L.D	700	DN 250	300	800	1925	350	DN 250	DN 250	350	32	M24 x 6
SE2.110.250.170.4.52L.D	700	DN 250	300	800	1925	350	DN 250	DN 250	350	32	M24 x 6
SE2.110.250.185.4.52L.D	700	DN 250	300	800	1925	350	DN 250	DN 250	350	32	M24 x 6
SE2.110.250.200.4.52L.D	700	DN 250	300	800	1925	350	DN 250	DN 250	350	32	M24 x 6
SE2.110.250.220.4.52L.D	700	DN 250	300	800	1925	350	DN 250	DN 250	350	32	M24 x 6
SE2.125.300.110.6.52E.D	700	DN 300	300	800	2077	400	DN 300	DN 300	400	32	M24 x 6
SE2.125.300.130.6.52E.D	700	DN 300	300	800	2077	400	DN 300	DN 300	400	32	M24 x 6
SE2.125.300.160.6.52E.D	700	DN 300	300	800	2077	400	DN 300	DN 300	400	32	M24 x 6
SE2.125.300.180.6.52E.D	700	DN 300	300	800	2077	400	DN 300	DN 300	400	32	M24 x 6

Dry, horizontal installation**Installation on horizontal base stand**

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Fig. 31 Horizontal base stand dimensions**SE1/SE2/SEV (part 1)**

Pump type SE1/SE2/SEV	D	F	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q10	QZ1
SE1.75.100.130.2.52S.H	190	382	1149	157	685	400	380	710	460	1275	18
SE1.75.100.150.2.52S.H	190	382	1149	157	685	400	380	710	460	1275	18
SE1.75.100.170.2.52S.H	190	382	1149	157	685	400	380	710	460	1275	18
SE1.75.100.185.2.52S.H	190	382	1149	157	685	400	380	710	460	1275	18
SE1.80.100.200.2.52S.H	191	383	1163	155	685	400	380	710	460	1275	18
SE1.80.100.220.2.52S.H	191	383	1163	155	685	400	380	710	460	1275	18
SE1.80.100.240.2.52S.H	191	383	1163	155	685	400	380	710	460	1275	18
SE1.80.100.265.2.52S.H	191	383	1163	155	685	400	380	710	460	1275	18
SE1.85.100.100.4.52H.H	255	460	1178	202	780	400	380	710	460	1275	18
SE1.85.100.110.4.52H.H	255	460	1178	202	780	400	380	710	460	1275	18
SE1.85.100.130.4.52H.H	255	460	1178	202	780	400	380	710	460	1275	18
SE1.85.100.150.4.52H.H	255	460	1178	202	780	400	380	710	460	1275	18
SE1.85.100.170.4.52H.H	270	494	1178	207	780	400	380	710	460	1275	18
SE1.85.100.185.4.52H.H	270	494	1178	207	780	400	380	710	460	1275	18
SE1.85.150.100.4.52H.H	266	485	1177	191	780	400	380	710	460	1275	18

Pump type SE1/SE2/SEV	D	F	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q10	QZ1
SE1.85.150.110.4.52H.H	266	485	1177	191	780	400	380	710	460	1275	18
SE1.85.150.130.4.52H.H	266	485	1177	191	780	400	380	710	460	1275	18
SE1.85.150.150.4.52H.H	266	485	1177	191	780	400	380	710	460	1275	18
SE1.85.150.170.4.52H.H	266	485	1178	191	780	400	380	710	460	1275	18
SE1.85.150.185.4.52H.H	266	485	1178	191	780	400	380	710	460	1275	18
SE1.95.100.200.4.52H.H	270	494	1178	207	780	400	380	710	460	1275	18
SE1.95.100.220.4.52H.H	270	494	1178	207	780	400	380	710	460	1275	18
SE1.95.150.200.4.52H.H	266	485	1178	191	780	400	380	710	460	1275	18
SE1.95.150.220.4.52H.H	266	485	1178	191	780	400	380	710	460	1275	18
SE1.110.200.100.4.52M.H	278	500	1206	205	900	400	380	710	460	1275	18
SE1.110.200.110.4.52M.H	278	500	1206	205	900	400	380	710	460	1275	18
SE1.110.200.130.4.52M.H	278	500	1206	205	900	400	380	710	460	1275	18
SE1.110.200.150.4.52M.H	278	500	1206	205	900	400	380	710	460	1275	18
SE1.110.200.170.4.52M.H	307	559	1205	205	900	400	380	710	460	1275	18
SE1.110.200.185.4.52M.H	307	559	1205	205	900	400	380	710	460	1275	18
SE1.110.200.200.4.52M.H	307	559	1205	205	900	400	380	710	460	1275	18
SE1.110.200.220.4.52M.H	307	559	1205	205	900	400	380	710	460	1275	18
SE2.110.250.130.4.52L.H	394	680	1220	216	900	400	380	710	460	1275	18
SE2.110.250.150.4.52L.H	394	680	1220	216	900	400	380	710	460	1275	18
SE2.110.250.170.4.52L.H	394	680	1220	216	900	400	380	710	460	1275	18
SE2.110.250.185.4.52L.H	394	680	1220	216	900	400	380	710	460	1275	18
SE2.110.250.200.4.52L.H	394	680	1220	216	900	400	380	710	460	1275	18
SE2.110.250.220.4.52L.H	394	680	1220	216	900	400	380	710	460	1275	18
SE2.125.300.110.6.52E.H	407	691	1272	248	1000	400	380	710	460	1275	18
SE2.125.300.130.6.52E.H	407	691	1272	248	1000	400	380	710	460	1275	18
SE2.125.300.160.6.52E.H	441	749	1272	248	1000	400	380	710	460	1275	18
SE2.125.300.180.6.52E.H	441	749	1272	248	1000	400	380	710	460	1275	18
SEV.80.80.130.2.52H.H	197	394	1142	168	730	400	380	710	460	1275	18
SEV.80.80.150.2.52H.H	197	394	1142	168	730	400	380	710	460	1275	18
SEV.80.80.170.2.52H.H	197	394	1142	168	730	400	380	710	460	1275	18
SEV.80.80.185.2.52H.H	197	394	1142	168	730	400	380	710	460	1275	18
SEV.80.80.200.2.52H.H	197	394	1142	168	730	400	380	710	460	1275	18
SEV.80.80.220.2.52H.H	197	394	1142	168	730	400	380	710	460	1275	18
SEV.80.80.240.2.52H.H	197	394	1142	168	730	400	380	710	460	1275	18
SEV.80.80.265.2.52H.H	197	394	1142	168	730	400	380	710	460	1275	18

SE1/SE2/SEV (part 2)

Pump type SE1/SE2/SEV	QDc1	QDN1	Q01	D1N	D02	D2N	Dc02	DN2	Dt2	Q03
SE1.75.100.130.2.52S.H	180	DN 100	M16	8	18	8	180	DN 100	25	18
SE1.75.100.150.2.52S.H	180	DN 100	M16	8	18	8	180	DN 100	25	18
SE1.75.100.170.2.52S.H	180	DN 100	M16	8	18	8	180	DN 100	25	18
SE1.75.100.185.2.52S.H	180	DN 100	M16	8	18	8	180	DN 100	25	18
SE1.80.100.200.2.52S.H	180	DN 100	M16	8	18	8	180	DN 100	25	18
SE1.80.100.220.2.52S.H	180	DN 100	M16	8	18	8	180	DN 100	25	18
SE1.80.100.240.2.52S.H	180	DN 100	M16	8	18	8	180	DN 100	25	18
SE1.80.100.265.2.52S.H	180	DN 100	M16	8	18	8	180	DN 100	25	18
SE1.85.100.100.4.52H.H	240	DN 150	M20	8	19	8	180	DN 100	24	18
SE1.85.100.110.4.52H.H	240	DN 150	M20	8	19	8	180	DN 100	24	18
SE1.85.100.130.4.52H.H	240	DN 150	M20	8	19	8	180	DN 100	24	18
SE1.85.100.150.4.52H.H	240	DN 150	M20	8	19	8	180	DN 100	24	18
SE1.85.100.170.4.52H.H	240	DN 150	M20	8	19	8	180	DN 100	24	18
SE1.85.100.185.4.52H.H	240	DN 150	M20	8	19	8	180	DN 100	24	18
SE1.85.150.100.4.52H.H	240	DN 150	M20	8	23	8	240	DN 150	27	18
SE1.85.150.110.4.52H.H	240	DN 150	M20	8	23	8	240	DN 150	27	18
SE1.85.150.130.4.52H.H	240	DN 150	M20	8	23	8	240	DN 150	27	18
SE1.85.150.150.4.52H.H	240	DN 150	M20	8	23	8	240	DN 150	27	18
SE1.85.150.170.4.52H.H	240	DN 150	M20	8	23	8	240	DN 150	27	18
SE1.85.150.185.4.52H.H	240	DN 150	M20	8	23	8	240	DN 150	27	18
SE1.95.100.200.4.52H.H	240	DN 150	M20	8	19	8	180	DN 100	24	18
SE1.95.100.220.4.52H.H	240	DN 150	M20	8	19	8	180	DN 100	24	18
SE1.95.150.200.4.52H.H	240	DN 150	M20	8	23	8	240	DN 150	27	18
SE1.95.150.220.4.52H.H	240	DN 150	M20	8	23	8	240	DN 150	27	18
SE1.110.200.100.4.52M.H	295	DN 200	M20	8	23	8	295	DN 200	30	18
SE1.110.200.110.4.52M.H	295	DN 200	M20	8	23	8	295	DN 200	30	18
SE1.110.200.130.4.52M.H	295	DN 200	M20	8	23	8	295	DN 200	30	18
SE1.110.200.150.4.52M.H	295	DN 200	M20	8	23	8	295	DN 200	30	18
SE1.110.200.170.4.52M.H	295	DN 200	M20	8	23	8	295	DN 200	30	18
SE1.110.200.185.4.52M.H	295	DN 200	M20	8	23	8	295	DN 200	30	18
SE1.110.200.200.4.52M.H	295	DN 200	M20	8	23	8	295	DN 200	30	18
SE1.110.200.220.4.52M.H	295	DN 200	M20	8	23	8	295	DN 200	30	18
SE2.110.250.130.4.52L.H	350	DN 250	M20	12	23	12	350	DN 250	32	18
SE2.110.250.150.4.52L.H	350	DN 250	M20	12	23	12	350	DN 250	32	18
SE2.110.250.170.4.52L.H	350	DN 250	M20	12	23	12	350	DN 250	32	18
SE2.110.250.185.4.52L.H	350	DN 250	M20	12	23	12	350	DN 250	32	18
SE2.110.250.200.4.52L.H	350	DN 250	M20	12	23	12	350	DN 250	32	18
SE2.110.250.220.4.52L.H	350	DN 250	M20	12	23	12	350	DN 250	32	18
SE2.125.300.110.6.52E.H	400	DN 300	M20	12	25	12	400	DN 300	32	18
SE2.125.300.130.6.52E.H	400	DN 300	M20	12	25	12	400	DN 300	32	18
SE2.125.300.160.6.52E.H	400	DN 300	M20	12	25	12	400	DN 300	32	18
SE2.125.300.180.6.52E.H	400	DN 300	M20	12	25	12	400	DN 300	32	18
SEV.80.80.130.2.52H.H	180	DN 100	M16	8	18	8	160	DN 80	25	18
SEV.80.80.150.2.52H.H	180	DN 100	M16	8	18	8	160	DN 80	25	18
SEV.80.80.170.2.52H.H	180	DN 100	M16	8	18	8	160	DN 80	25	18
SEV.80.80.185.2.52H.H	180	DN 100	M16	8	18	8	160	DN 80	25	18
SEV.80.80.200.2.52H.H	180	DN 100	M16	8	18	8	160	DN 80	25	18
SEV.80.80.220.2.52H.H	180	DN 100	M16	8	18	8	160	DN 80	25	18
SEV.80.80.240.2.52H.H	180	DN 100	M16	8	18	8	160	DN 80	25	18
SEV.80.80.265.2.52H.H	180	DN 100	M16	8	18	8	160	DN 80	25	18

11. Flange forces

The flange forces and moments are according to EN ISO 5199.

Forces can be found for both horizontal and vertical installations in Table B.3 in EN ISO 5199 by selecting the correct flange dimension. Forces cannot be used directly for end-suction wastewater pumps without using a coefficient which can be found in Table B.5 in EN ISO 5199 by selecting the correct pump family.

For Grundfos wastewater pumps the pump families and coefficients are stated below.

Horizontally installed pumps

Pump family A4 = Coefficient 0.35

Vertically installed pumps

Pump family 10A = Coefficient 0.30

12. Grundfos Product Center

Online search and sizing tool to help you make the right choice.

<http://product-selection.grundfos.com>

All the information you need in one place

Performance curves, technical specifications, pictures, dimensional drawings, motor curves, wiring diagrams, spare parts, service kits, 3D drawings, documents, system parts. The Product Center displays any recent and saved items - including complete projects - right on the main page.

Downloads

On the product pages, you can download installation and operating instructions, data booklets, service instructions, etc. in PDF format.



TM07 2384

TM07 2383

Pos. Description

- | | |
|---|---|
| 1 | This drop-down menu enables you to set the search function to "Products" or "Literature". |
| 2 | SIZING enables you to size a pump based on entered data and selection choices. |
| 3 | CATALOGUE gives you access to the Grundfos product catalogue.
REPLACEMENT enables you to find a replacement product.
Search results will include information on |
| 4 | the lowest purchase price
the lowest energy consumption
the lowest total life cycle cost. |
| 5 | LIQUIDS enables you to find pumps designed for aggressive, flammable or other special liquids. |

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