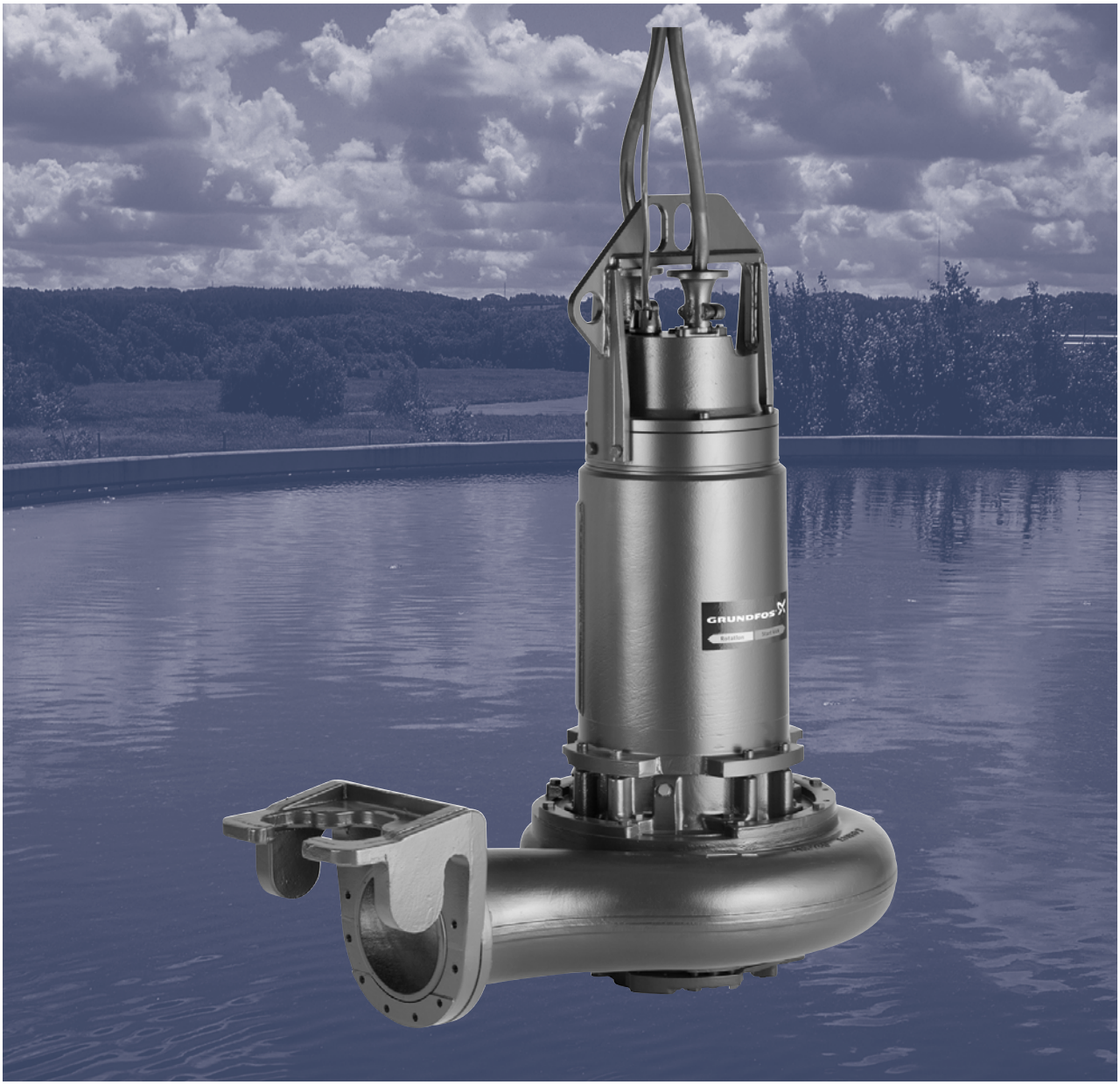
S pumps, range 70

Up to 155 kW
50 Hz



Contents

Introduction

This data booklet deals with Grundfos heavy-duty sewage pumps called S pumps, range 70.

GrA32

Fig. 1 S pump, range 70

The S pumps, range 70, are a range of free-flow channel impeller pumps specifically designed for pumping sewage and wastewater in a wide range of municipal, private and industrial applications.

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

The pumps are fitted with motors from 50 kW up to 155 kW. The motors are either 4, 6- or 8-pole motors, depending on the motor size.

The free passage in the pumps is 90 to 120 mm.

The pumps are available for:

- submerged installation on auto-coupling system
- submerged installation, free-standing
- dry installation, vertical
- dry installation, horizontal.

Applications

The S pumps, range 70, are designed for applications, such as:

- raw water intake
- wastewater treatment plants
- municipal pumping stations
- public buildings
- blocks of flats
- industries
- garages
- underground car parks
- car wash areas
- restaurants and hotels.

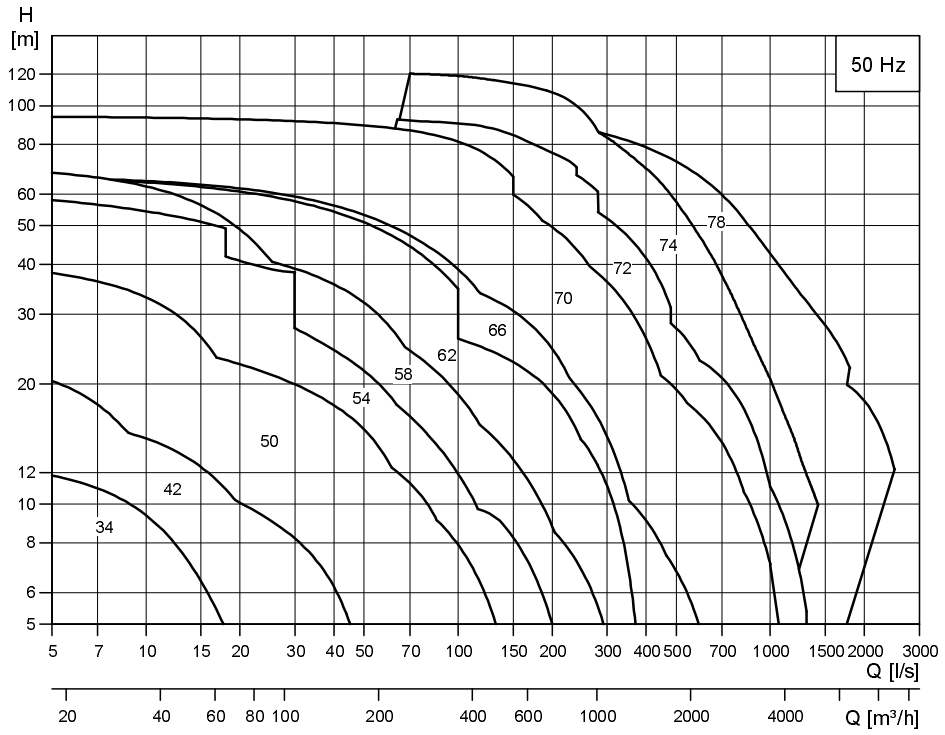
The pumps are suitable for both temporary and permanent installation. The lifting bracket fitted on the pumps facilitates easy transportation to as well as installation at the installation site.

Main constructional features

- leak-proof connections via the Grundfos SmartSeal gasket system
- double mechanical shaft seal system for reliable sealing between pumped liquid and motor
- watertight cable entry of corrosion-resistant polyamide
- moisture switch for continuous monitoring of motor housing and automatic cut-off of power in case liquid penetrates
- self-cleaning channel impeller with long vanes reducing the risk of jamming or clogging, or SuperVortex impeller with high pumping efficency and less downtime
- SmartTrim system allowing easy adjustment of impeller clearance and maintaining maximum pump efficiency over pump lifetime
- motor in insulation class F (155 °C), enclosure class IP68 with three thermal sensors in stator windings
- seal condition monitoring via water-in-oil sensor (optional)
- explosion-proof motors for applications involving high risk of explosion
- three stainless steel versions for use in corrosive or aggressive liquids:
  - stainless steel impeller, cast iron pump and motor housing
  - stainless steel pump housing, flange and impeller, cast iron motor housing
  - made entirely of corrosion-resistant stainless steel.

Performance range

Performance range, S pumps



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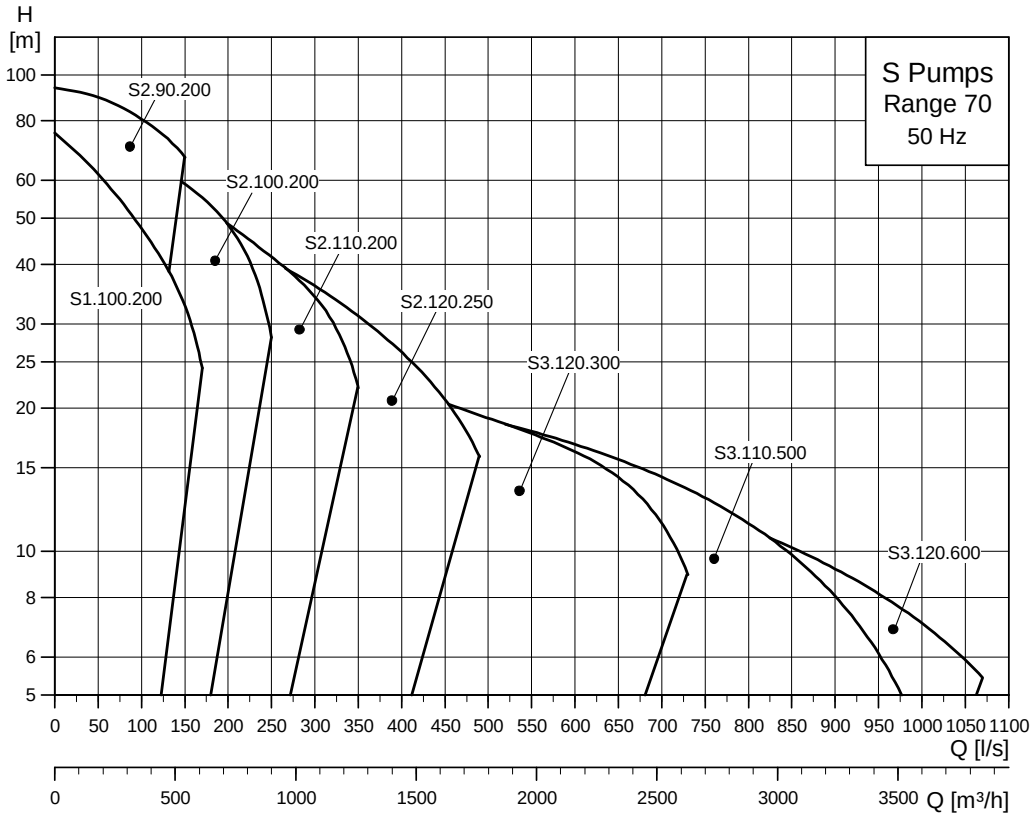
Performance range, S pumps, range 70



TM04 1878 1308

Identification

Type key

Code	Example	S	1	.100	.200	.850	4	.70H	.S	.432	.G	.N	.D

Pump type:
- S — Grundfos sewage and wastewater pump
- ST — Multi-channel impeller pump installed in a column pipe

Impeller type:
- 1 — Single-channel impeller
- V — SuperVortex (free-flow) impeller

Pump passage:
Maximum solids size [mm]

Pump discharge:
Nominal diameter of pump discharge port [mm]

Output power, P2:
P2 = Code number from type designation/10 [kW]

Number of poles:
- 2 — 2-pole motor
- 4 — 4-pole motor

Pump range / Pressure version:
- 70S — Super-high pressure
- 70H — High pressure
- 70M — Medium pressure
- 70L — Low pressure
- 70E — Extra-low pressure

Installation:
- S — Submersible installation without cooling jacket
- C — Submersible installation with cooling jacket
- D — Dry installation, vertical
- H — Dry installation, horizontal.

Actual impeller diameter:
[mm]

Material code for impeller, pump and motor housing:
- G — Impeller, pump housing and motor housing: Cast iron
- Q — Impeller: Stainless steel DIN W.-Nr. 1.4408

Pump version:
- N — Non-explosion-proof pump
- Ex — Explosion-proof pump

Sensor version:
- B — S pump with built-in SM 111 module. PTC sensors are connected directly to IO 111 or other PTC relay.
- C — Not in use
- D — S pump without built-in SM 111 module.

- Z — Custom-built products

Identification

Nameplates

Pump nameplate

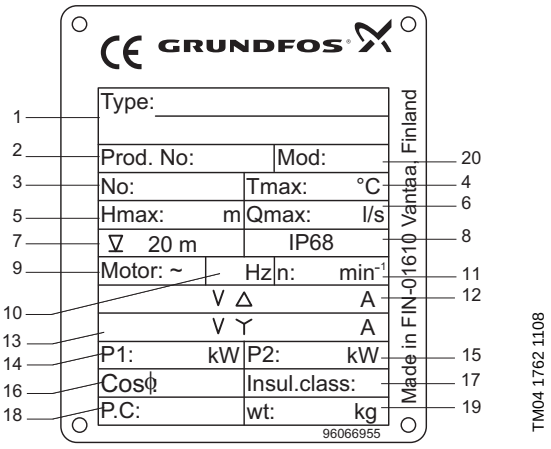


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Fig. 2 Pump nameplate

Pos.	Description
1	Type designation
2	SAP code
3	Serial number
4	Maximum liquid temperature
5	Maximum head
6	Maximum flow
7	Maximum installation depth
8	Enclosure class
9	Number of phases
10	Frequency
11	Rated speed
12	Voltage/current, delta connection
13	Voltage/current, star connection
14	Power input
15	Shaft power
16	Power factor
17	Insulation class
18	Production code, year/week
19	Weight of the pump
20	Model

Ex approval plates

TM04 4122 0809

Fig. 3 Ex approval plates

The approval plate gives the following details:

Pos.	Description
Ex	EU ex-symbol
II	Equipment group (II = non-mining)
2	Equipment category (high protection)
G	Type of explosive atmosphere
CE	CE mark
1180	Number of quality assurance notified body
Ex	Motor explosion-proof according to European standard
b	Control of ignition sources
c	Constructional safety
d	Motor withstands explosion pressure
IIB	Gas group (Ethylene)
T3	Maximum surface temperature of the motor is 200 °C
T4	Maximum surface temperature of the motor is 135 °C
Gb	Equipment protection level, zone 1
Baseefa	Certificate number
IECEx	Certificate number

Selection of product

Ordering a pump

When ordering an S pump, range 70, you need to take the following four aspects into consideration.

1. Pump
2. Custom-built variation (option)
3. Accessories
4. Controller.

Pump

Use the *Product range* on page 8 and the *Type key* on page 5 to identify the pump that best fulfils your needs. The list below is a detailed description of the product you get if you order the following pump:

Pump	Product no
S1.100.200.850.4.70H.S.432.G.N.D.511	95112897

- Pump as specified in the type key
- 10 m cable
- Paint: Graphic grey, NCS S8005-R80B, thickness 150 µ
- Three thermal switches (Klixon), one in each phase, or three thermal sensors (PTC)
- One moisture switch below the motor top cover (two moisture switches below the motor top cover on explosion-proof versions)
- Test according to DIN 9906, Annex A.

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

Note: Product specific data for the pump can also be seen in WebCAPS using the product number 95112897.

Custom-built variants

The S pumps can be customised to meet individual requirements. Many pump features and options are available for customisation, e.g. explosion-proof versions, various cable lengths or special materials.

Variants can be seen in *List of variants* on page 22. For requirements or designs not included in the list, contact Grundfos.

Accessories

Depending on the installation type, you may need to order accessories. See *Accessories* page 84 for selection of the correct accessories.

Note: Ordered accessories are not fitted from factory.

Controller

The following controllers are available:

- LC/LCD 107 with level pickups
- LC/LCD 108 with float switches
- LC/LCD 110 with level electrodes.

Standard pumps

Cast iron, 3 x 400/690 V

Pump type	Pump	Accessories			
			To be ordered separately		
		***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S1.100.200.850.4.70H.S.432.G.N.D	95112897	-	-	96641489	-
S1.100.200.850.4.70H.C.432.G.N.D	95112898	-	-	96641489	-
S1.100.200.850.4.70H.H.432.G.N.D	95112899	96308212	-	-	-
S1.100.200.850.4.70H.D.432.G.N.D	96796922	-	96308240	-	-
S2.90.200.1150.4.70S.S.462.G.N.D	95112909	-	-	96641489	-
S2.90.200.1150.4.70S.C.462.G.N.D	95112910	-	-	96641489	-
S2.90.200.1150.4.70S.H.462.G.N.D	95112911	96308192	-	-	-
S2.90.200.1150.4.70S.D.462.G.N.D	96797017	-	96308240	-	-
S2.90.200.1600.4.70S.S.480.G.N.D	95112924	-	-	96641489	-
S2.90.200.1600.4.70S.C.480.G.N.D	95112925	-	-	96641489	-
S2.90.200.1600.4.70S.H.480.G.N.D	95112926	96308192	-	-	-
S2.90.200.1600.4.70S.D.480.G.N.D	96797037	-	96308240	-	-
S2.100.200.1150.4.70H.S.404.G.N.D	95112903	-	-	96641489	-
S2.100.200.1150.4.70H.C.404.G.N.D	95112904	-	-	96641489	-
S2.100.200.1150.4.70H.H.404.G.N.D	95112905	96308212	-	-	-
S2.100.200.1150.4.70H.D.404.G.N.D	96797007	-	96308240	-	-
S2.100.200.1600.4.70H.S.430.G.N.D	95112915	-	-	96641489	-
S2.100.200.1600.4.70H.C.430.G.N.D	95112916	-	-	96641489	-
S2.100.200.1600.4.70H.H.430.G.N.D	95112917	96308212	-	-	-
S2.100.200.1600.4.70H.D.430.G.N.D	96797022	-	96308240	-	-
S2.110.200.850.4.70M.S.375.G.N.D	95112933	-	-	96641489	-
S2.110.200.850.4.70M.C.375.G.N.D	95112934	-	-	96641489	-
S2.110.200.850.4.70M.H.375.G.N.D	95112935	96308212	-	-	-
S2.110.200.850.4.70M.D.375.G.N.D	96796927	-	96308240	-	-
S2.110.200.1150.4.70M.S.416.G.N.D	95112906	-	-	96641489	-
S2.110.200.1150.4.70M.C.416.G.N.D	95112907	-	-	96641489	-
S2.110.200.1150.4.70M.H.416.G.N.D	95112908	96308212	-	-	-
S2.110.200.1150.4.70M.D.416.G.N.D	96797012	-	96308240	-	-
S2.110.200.1600.4.70M.S.441.G.N.D	95112921	-	-	96641489	-
S2.110.200.1600.4.70M.C.441.G.N.D	95112922	-	-	96641489	-
S2.110.200.1600.4.70M.H.441.G.N.D	95112923	96308212	-	-	-
S2.110.200.1600.4.70M.D.441.G.N.D	96797032	-	96308240	-	-
S2.120.250.650.8.70H.S.534.G.N.D	95112927	-	-	96782483	-
S2.120.250.650.8.70H.C.534.G.N.D	95112928	-	-	96782483	-
S2.120.250.650.8.70H.D.534.G.N.D	95112929	-	96308241	-	-
S2.120.250.650.8.70H.H.534.G.N.D	96796933	96308192	-	-	-
S2.120.250.800.6.70H.S.465.G.N.D	95112930	-	-	96782483	-
S2.120.250.800.6.70H.C.465.G.N.D	95112931	-	-	96782483	-
S2.120.250.800.6.70H.D.465.G.N.D	95112932	-	96308241	-	-
S2.120.250.800.6.70H.H.465.G.N.D	96796953	96308192	-	-	-
S2.120.250.1000.6.70H.S.500.G.N.D	95112900	-	-	96782483	-
S2.120.250.1000.6.70H.C.500.G.N.D	95112901	-	-	96782483	-
S2.120.250.1000.6.70H.D.500.G.N.D	95112902	-	96308241	-	-
S2.120.250.1000.6.70H.H.500.G.N.D	96796968	96308192	-	-	-
S2.120.250.1300.6.70H.S.528.G.N.D	95112912	-	-	96782483	-
S2.120.250.1300.6.70H.C.528.G.N.D	95112913	-	-	96782483	-
S2.120.250.1300.6.70H.D.528.G.N.D	95112914	-	96308241	-	-
S2.120.250.1300.6.70H.H.528.G.N.D	96796988	96308192	-	-	-
S2.120.250.1600.4.70L.S.402.G.N.D	95112918	-	-	96782483	-
S2.120.250.1600.4.70L.C.402.G.N.D	95112919	-	-	96782483	-
S2.120.250.1600.4.70L.D.402.G.N.D	95112920	-	96308241	-	-
S2.120.250.1600.4.70L.H.402.G.N.D	96797028	96308212	-	-	-
S3.110.500.650.8.70L.S.464.G.N.D	95112936	-	-	96782485	-
S3.110.500.650.8.70L.C.464.G.N.D	95112937	-	-	96782485	-

Product range

Pump type	Pump	Accessories			
			To be ordered separately		
		***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S3.110.500.650.8.70L.D.464.G.N.D	95112938	-	96308244	-	-
S3.110.500.650.8.70L.H.464.G.N.D	96796938	96308192	-	-	-
S3.110.500.800.6.70L.S.370.G.N.D	95112945	-	-	96782485	-
S3.110.500.800.6.70L.C.370.G.N.D	95112946	-	-	96782485	-
S3.110.500.800.6.70L.D.370.G.N.D	95112947	-	96308244	-	-
S3.110.500.800.6.70L.H.370.G.N.D	96796958	96308192	-	-	-
S3.110.500.1000.6.70L.S.402.G.N.D	95112951	-	-	96782485	-
S3.110.500.1000.6.70L.C.402.G.N.D	95112952	-	-	96782485	-
S3.110.500.1000.6.70L.D.402.G.N.D	95112953	-	96308244	-	-
S3.110.500.1000.6.70L.H.402.G.N.D	96796973	96308192	-	-	-
S3.110.500.1300.6.70L.S.442.G.N.D	95112960	-	-	96782485	-
S3.110.500.1300.6.70L.C.442.G.N.D	95112961	-	-	96782485	-
S3.110.500.1300.6.70L.D.442.G.N.D	95112962	-	96308244	-	-
S3.110.500.1300.6.70L.H.442.G.N.D	96796993	96308192	-	-	-
S3.120.300.650.8.70M.S.464.G.N.D	95112939	-	-	96782484	-
S3.120.300.650.8.70M.C.464.G.N.D	95112940	-	-	96782484	-
S3.120.300.650.8.70M.D.464.G.N.D	95112941	-	96308241	-	-
S3.120.300.650.8.70M.H.464.G.N.D	96796943	96308192	-	-	-
S3.120.300.800.6.70M.S.407.G.N.D	95112948	-	-	96782484	-
S3.120.300.800.6.70M.C.407.G.N.D	95112949	-	-	96782484	-
S3.120.300.800.6.70M.D.407.G.N.D	95112950	-	96308241	-	-
S3.120.300.800.6.70M.H.407.G.N.D	96796963	96308255	-	-	-
S3.120.300.1000.6.70M.S.428.G.N.D	95112954	-	-	96782484	-
S3.120.300.1000.6.70M.C.428.G.N.D	95112955	-	-	96782484	-
S3.120.300.1000.6.70M.D.428.G.N.D	95112956	-	96308241	-	-
S3.120.300.1000.6.70M.H.428.G.N.D	96796978	96308255	-	-	-
S3.120.300.1300.6.70M.S.456.G.N.D	95112963	-	-	96782484	-
S3.120.300.1300.6.70M.C.456.G.N.D	95112964	-	-	96782484	-
S3.120.300.1300.6.70M.D.456.G.N.D	95112965	-	96308241	-	-
S3.120.300.1300.6.70M.H.456.G.N.D	96796998	96308192	-	-	-
S3.120.600.650.8.70E.S.459.G.N.D	95112942	-	-	96782486	-
S3.120.600.650.8.70E.C.459.G.N.D	95112943	-	-	96782486	-
S3.120.600.650.8.70E.D.459.G.N.D	95112944	-	96308245	-	-
S3.120.600.650.8.70E.H.459.G.N.D	96796948	96308192	-	-	-
S3.120.600.1000.6.70E.S.402.G.N.D	95112957	-	-	96782486	-
S3.120.600.1000.6.70E.C.402.G.N.D	95112958	-	-	96782486	-
S3.120.600.1000.6.70E.D.402.G.N.D	95112959	-	96308245	-	-
S3.120.600.1000.6.70E.H.402.G.N.D	96796983	96308192	-	-	-
S3.120.600.1300.6.70E.S.426.G.N.D	95112966	-	-	96782486	-
S3.120.600.1300.6.70E.C.426.G.N.D	95112967	-	-	96782486	-
S3.120.600.1300.6.70E.D.426.G.N.D	95112968	-	96308245	-	-
S3.120.600.1300.6.70E.H.426.G.N.D	96797003	96308192	-	-	-

* Without hose connection.

** Installation type S and C pumps with discharge flange size DN 250 and higher are supplied with guide claw mounted on the flange.

*** The horizontal base stand is included in the pump product number.

Cast iron, 3 x 415 V

Pump type	Cable length [m]	Pump	Accessories			
			To be ordered separately			
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S1.100.200.850.4.70H.S.432.G.N.D	10	96796899	-	-	96641489	-
S1.100.200.850.4.70H.C.432.G.N.D	10	96796900	-	-	96641489	-
S1.100.200.850.4.70H.D.432.G.N.D	10	96796923	-	96308240	-	-
S1.100.200.850.4.70H.H.432.G.N.D	10	96796924	96308212	-	-	-
S1.100.200.850.4.70H.S.432.G.N.D	15	96810386	-	-	96641489	-
S1.100.200.850.4.70H.C.432.G.N.D	15	96810387	-	-	96641489	-
S1.100.200.850.4.70H.D.432.G.N.D	15	96810388	-	96308240	-	-
S1.100.200.850.4.70H.H.432.G.N.D	15	96810389	96308212	-	-	-
S2.90.200.1150.4.70S.S.462.G.N.D	10	96797015	-	-	96641489	-
S2.90.200.1150.4.70S.C.462.G.N.D	10	96797016	-	-	96641489	-
S2.90.200.1150.4.70S.D.462.G.N.D	10	96797018	-	96308240	-	-
S2.90.200.1150.4.70S.H.462.G.N.D	10	96797019	96308192	-	-	-
S2.90.200.1150.4.70S.S.462.G.N.D	15	96810602	-	-	96641489	-
S2.90.200.1150.4.70S.C.462.G.N.D	15	96810603	-	-	96641489	-
S2.90.200.1150.4.70S.D.462.G.N.D	15	96810604	-	96308240	-	-
S2.90.200.1150.4.70S.H.462.G.N.D	15	96810605	96308192	-	-	-
S2.90.200.1600.4.70S.S.480.G.N.D	10	96797035	-	-	96641489	-
S2.90.200.1600.4.70S.C.480.G.N.D	10	96797036	-	-	96641489	-
S2.90.200.1600.4.70S.D.480.G.N.D	10	96797038	-	96308240	-	-
S2.90.200.1600.4.70S.H.480.G.N.D	10	96797039	96308192	-	-	-
S2.90.200.1600.4.70S.S.480.G.N.D	15	96810618	-	-	96641489	-
S2.90.200.1600.4.70S.C.480.G.N.D	15	96810619	-	-	96641489	-
S2.90.200.1600.4.70S.D.480.G.N.D	15	96810620	-	96308240	-	-
S2.90.200.1600.4.70S.H.480.G.N.D	15	96810621	96308192	-	-	-
S2.100.200.1150.4.70H.S.404.G.N.D	10	96797005	-	-	96641489	-
S2.100.200.1150.4.70H.C.404.G.N.D	10	96797006	-	-	96641489	-
S2.100.200.1150.4.70H.D.404.G.N.D	10	96797008	-	96308240	-	-
S2.100.200.1150.4.70H.H.404.G.N.D	10	96797009	96308212	-	-	-
S2.100.200.1150.4.70H.S.404.G.N.D	15	96810594	-	-	96641489	-
S2.100.200.1150.4.70H.C.404.G.N.D	15	96810595	-	-	96641489	-
S2.100.200.1150.4.70H.D.404.G.N.D	15	96810596	-	96308240	-	-
S2.100.200.1150.4.70H.H.404.G.N.D	15	96810597	96308212	-	-	-
S2.100.200.1600.4.70H.S.430.G.N.D	10	96797020	-	-	96641489	-
S2.100.200.1600.4.70H.C.430.G.N.D	10	96797021	-	-	96641489	-
S2.100.200.1600.4.70H.D.430.G.N.D	10	96797023	-	96308240	-	-
S2.100.200.1600.4.70H.H.430.G.N.D	10	96797024	96308212	-	-	-
S2.100.200.1600.4.70H.S.430.G.N.D	15	96810606	-	-	96641489	-
S2.100.200.1600.4.70H.C.430.G.N.D	15	96810607	-	-	96641489	-
S2.100.200.1600.4.70H.D.430.G.N.D	15	96810608	-	96308240	-	-
S2.100.200.1600.4.70H.H.430.G.N.D	15	96810609	96308212	-	-	-
S2.110.200.850.4.70M.S.375.G.N.D	10	96796925	-	-	96641489	-
S2.110.200.850.4.70M.C.375.G.N.D	10	96796926	-	-	96641489	-
S2.110.200.850.4.70M.D.375.G.N.D	10	96796928	-	96308240	-	-
S2.110.200.850.4.70M.H.375.G.N.D	10	96796929	96308212	-	-	-
S2.110.200.850.4.70M.S.375.G.N.D	15	96810390	-	-	96641489	-
S2.110.200.850.4.70M.C.375.G.N.D	15	96810391	-	-	96641489	-
S2.110.200.850.4.70M.D.375.G.N.D	15	96810532	-	96308240	-	-
S2.110.200.850.4.70M.H.375.G.N.D	15	96810533	96308212	-	-	-
S2.110.200.1150.4.70M.S.416.G.N.D	10	96797010	-	-	96641489	-
S2.110.200.1150.4.70M.C.416.G.N.D	10	96797011	-	-	96641489	-
S2.110.200.1150.4.70M.D.416.G.N.D	10	96797013	-	96308240	-	-
S2.110.200.1150.4.70M.H.416.G.N.D	10	96797014	96308212	-	-	-
S2.110.200.1150.4.70M.S.416.G.N.D	15	96810598	-	-	96641489	-
S2.110.200.1150.4.70M.C.416.G.N.D	15	96810599	-	-	96641489	-
S2.110.200.1150.4.70M.D.416.G.N.D	15	96810600	-	96308240	-	-
S2.110.200.1150.4.70M.H.416.G.N.D	15	96810601	96308212	-	-	-

Product range

Pump type	Cable length [m]	Pump	Accessories			
				To be ordered separately		
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S2.110.200.1600.4.70M.S.441.G.N.D	10	96797030	-	-	96641489	-
S2.110.200.1600.4.70M.C.441.G.N.D	10	96797031	-	-	96641489	-
S2.110.200.1600.4.70M.D.441.G.N.D	10	96797033	-	96308240	-	-
S2.110.200.1600.4.70M.H.441.G.N.D	10	96797034	96308212	-	-	-
S2.110.200.1600.4.70M.S.441.G.N.D	15	96810614	-	-	96641489	-
S2.110.200.1600.4.70M.C.441.G.N.D	15	96810615	-	-	96641489	-
S2.110.200.1600.4.70M.D.441.G.N.D	15	96810616	-	96308240	-	-
S2.110.200.1600.4.70M.H.441.G.N.D	15	96810617	96308212	-	-	-
S2.120.250.650.8.70H.S.534.G.N.D	10	96796930	-	-	96782483	-
S2.120.250.650.8.70H.C.534.G.N.D	10	96796931	-	-	96782483	-
S2.120.250.650.8.70H.D.534.G.N.D	10	96796932	-	96308241	-	-
S2.120.250.650.8.70H.H.534.G.N.D	10	96796934	96308192	-	-	-
S2.120.250.650.8.70H.S.534.G.N.D	15	96810534	-	-	96782483	-
S2.120.250.650.8.70H.C.534.G.N.D	15	96810535	-	-	96782483	-
S2.120.250.650.8.70H.D.534.G.N.D	15	96810536	-	96308241	-	-
S2.120.250.650.8.70H.H.534.G.N.D	15	96810537	96308192	-	-	-
S2.120.250.800.6.70H.S.465.G.N.D	10	96796950	-	-	96782483	-
S2.120.250.800.6.70H.C.465.G.N.D	10	96796951	-	-	96782483	-
S2.120.250.800.6.70H.D.465.G.N.D	10	96796952	-	96308241	-	-
S2.120.250.800.6.70H.H.465.G.N.D	10	96796954	96308192	-	-	-
S2.120.250.800.6.70H.S.465.G.N.D	15	96810550	-	-	96782483	-
S2.120.250.800.6.70H.C.465.G.N.D	15	96810551	-	-	96782483	-
S2.120.250.800.6.70H.D.465.G.N.D	15	96810552	-	96308241	-	-
S2.120.250.800.6.70H.H.465.G.N.D	15	96810553	96308192	-	-	-
S2.120.250.1000.6.70H.S.500.G.N.D	10	96796965	-	-	96782483	-
S2.120.250.1000.6.70H.C.500.G.N.D	10	96796966	-	-	96782483	-
S2.120.250.1000.6.70H.D.500.G.N.D	10	96796967	-	96308241	-	-
S2.120.250.1000.6.70H.H.500.G.N.D	10	96796969	96308192	-	-	-
S2.120.250.1000.6.70H.S.500.G.N.D	15	96810562	-	-	96782483	-
S2.120.250.1000.6.70H.C.500.G.N.D	15	96810563	-	-	96782483	-
S2.120.250.1000.6.70H.D.500.G.N.D	15	96810564	-	96308241	-	-
S2.120.250.1000.6.70H.H.500.G.N.D	15	96810565	96308192	-	-	-
S2.120.250.1300.6.70H.S.528.G.N.D	10	96796985	-	-	96782483	-
S2.120.250.1300.6.70H.C.528.G.N.D	10	96796986	-	-	96782483	-
S2.120.250.1300.6.70H.D.528.G.N.D	10	96796987	-	96308241	-	-
S2.120.250.1300.6.70H.H.528.G.N.D	10	96796989	96308192	-	-	-
S2.120.250.1300.6.70H.S.528.G.N.D	15	96810578	-	-	96782483	-
S2.120.250.1300.6.70H.C.528.G.N.D	15	96810579	-	-	96782483	-
S2.120.250.1300.6.70H.D.528.G.N.D	15	96810580	-	96308241	-	-
S2.120.250.1300.6.70H.H.528.G.N.D	15	96810581	96308192	-	-	-
S2.120.250.1600.4.70L.S.402.G.N.D	10	96797025	-	-	96782483	-
S2.120.250.1600.4.70L.C.402.G.N.D	10	96797026	-	-	96782483	-
S2.120.250.1600.4.70L.D.402.G.N.D	10	96797027	-	96308241	-	-
S2.120.250.1600.4.70L.H.402.G.N.D	10	96797029	96308212	-	-	-
S2.120.250.1600.4.70L.S.402.G.N.D	15	96810610	-	-	96782483	-
S2.120.250.1600.4.70L.C.402.G.N.D	15	96810611	-	-	96782483	-
S2.120.250.1600.4.70L.D.402.G.N.D	15	96810612	-	96308241	-	-
S2.120.250.1600.4.70L.H.402.G.N.D	15	96810613	96308212	-	-	-
S3.110.500.650.8.70L.S.464.G.N.D	10	96796935	-	-	96782485	-
S3.110.500.650.8.70L.C.464.G.N.D	10	96796936	-	-	96782485	-
S3.110.500.650.8.70L.D.464.G.N.D	10	96796937	-	96308244	-	-
S3.110.500.650.8.70L.H.464.G.N.D	10	96796939	96308192	-	-	-
S3.110.500.650.8.70L.S.464.G.N.D	15	96810538	-	-	96782485	-
S3.110.500.650.8.70L.C.464.G.N.D	15	96810539	-	-	96782485	-
S3.110.500.650.8.70L.D.464.G.N.D	15	96810540	-	96308244	-	-
S3.110.500.650.8.70L.H.464.G.N.D	15	96810541	96308192	-	-	-
S3.110.500.800.6.70L.S.370.G.N.D	10	96796955	-	-	96782485	-
S3.110.500.800.6.70L.C.370.G.N.D	10	96796956	-	-	96782485	-

Product range

Pump type	Cable length [m]	Pump	Accessories			
				To be ordered separately		
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S3.110.500.800.6.70L.D.370.G.N.D	10	96796957	-	96308244	-	-
S3.110.500.800.6.70L.H.370.G.N.D	10	96796959	96308192	-	-	-
S3.110.500.800.6.70L.S.370.G.N.D	15	96810554	-	-	96782485	-
S3.110.500.800.6.70L.C.370.G.N.D	15	96810555	-	-	96782485	-
S3.110.500.800.6.70L.D.370.G.N.D	15	96810556	-	96308244	-	-
S3.110.500.800.6.70L.H.370.G.N.D	15	96810557	96308192	-	-	-
S3.110.500.1000.6.70L.S.402.G.N.D	10	96796970	-	-	96782485	-
S3.110.500.1000.6.70L.C.402.G.N.D	10	96796971	-	-	96782485	-
S3.110.500.1000.6.70L.D.402.G.N.D	10	96796972	-	96308244	-	-
S3.110.500.1000.6.70L.H.402.G.N.D	10	96796974	96308192	-	-	-
S3.110.500.1000.6.70L.S.402.G.N.D	15	96810566	-	-	96782485	-
S3.110.500.1000.6.70L.C.402.G.N.D	15	96810567	-	-	96782485	-
S3.110.500.1000.6.70L.D.402.G.N.D	15	96810568	-	96308244	-	-
S3.110.500.1000.6.70L.H.402.G.N.D	15	96810569	96308192	-	-	-
S3.110.500.1300.6.70L.S.442.G.N.D	10	96796990	-	-	96782485	-
S3.110.500.1300.6.70L.C.442.G.N.D	10	96796991	-	-	96782485	-
S3.110.500.1300.6.70L.D.442.G.N.D	10	96796992	-	96308244	-	-
S3.110.500.1300.6.70L.H.442.G.N.D	10	96796994	96308192	-	-	-
S3.110.500.1300.6.70L.S.442.G.N.D	15	96810582	-	-	96782485	-
S3.110.500.1300.6.70L.C.442.G.N.D	15	96810583	-	-	96782485	-
S3.110.500.1300.6.70L.D.442.G.N.D	15	96810584	-	96308244	-	-
S3.110.500.1300.6.70L.H.442.G.N.D	15	96810585	96308192	-	-	-
S3.120.300.650.8.70M.S.464.G.N.D	10	96796940	-	-	96782484	-
S3.120.300.650.8.70M.C.464.G.N.D	10	96796941	-	-	96782484	-
S3.120.300.650.8.70M.D.464.G.N.D	10	96796942	-	96308241	-	-
S3.120.300.650.8.70M.H.464.G.N.D	10	96796944	96308192	-	-	-
S3.120.300.650.8.70M.S.464.G.N.D	15	96810542	-	-	96782484	-
S3.120.300.650.8.70M.C.464.G.N.D	15	96810543	-	-	96782484	-
S3.120.300.650.8.70M.D.464.G.N.D	15	96810544	-	96308241	-	-
S3.120.300.650.8.70M.H.464.G.N.D	15	96810545	96308192	-	-	-
S3.120.300.800.6.70M.S.407.G.N.D	10	96796960	-	-	96782484	-
S3.120.300.800.6.70M.C.407.G.N.D	10	96796961	-	-	96782484	-
S3.120.300.800.6.70M.D.407.G.N.D	10	96796962	-	96308241	-	-
S3.120.300.800.6.70M.H.407.G.N.D	10	96796964	96308255	-	-	-
S3.120.300.800.6.70M.S.407.G.N.D	15	96810558	-	-	96782484	-
S3.120.300.800.6.70M.C.407.G.N.D	15	96810559	-	-	96782484	-
S3.120.300.800.6.70M.D.407.G.N.D	15	96810560	-	96308241	-	-
S3.120.300.800.6.70M.H.407.G.N.D	15	96810561	96308255	-	-	-
S3.120.300.1000.6.70M.S.428.G.N.D	10	96796975	-	-	96782484	-
S3.120.300.1000.6.70M.C.428.G.N.D	10	96796976	-	-	96782484	-
S3.120.300.1000.6.70M.D.428.G.N.D	10	96796977	-	96308241	-	-
S3.120.300.1000.6.70M.H.428.G.N.D	10	96796979	96308255	-	-	-
S3.120.300.1000.6.70M.S.428.G.N.D	15	96810570	-	-	96782484	-
S3.120.300.1000.6.70M.C.428.G.N.D	15	96810571	-	-	96782484	-
S3.120.300.1000.6.70M.D.428.G.N.D	15	96810572	-	96308241	-	-
S3.120.300.1000.6.70M.H.428.G.N.D	15	96810573	96308255	-	-	-
S3.120.300.1300.6.70M.S.456.G.N.D	10	96796995	-	-	96782484	-
S3.120.300.1300.6.70M.C.456.G.N.D	10	96796996	-	-	96782484	-
S3.120.300.1300.6.70M.D.456.G.N.D	10	96796997	-	96308241	-	-
S3.120.300.1300.6.70M.H.456.G.N.D	10	96796999	96308192	-	-	-
S3.120.300.1300.6.70M.S.456.G.N.D	15	96810586	-	-	96782484	-
S3.120.300.1300.6.70M.C.456.G.N.D	15	96810587	-	-	96782484	-
S3.120.300.1300.6.70M.D.456.G.N.D	15	96810588	-	96308241	-	-
S3.120.300.1300.6.70M.H.456.G.N.D	15	96810589	96308192	-	-	-
S3.120.600.650.8.70E.S.459.G.N.D	10	96796945	-	-	96782486	-
S3.120.600.650.8.70E.C.459.G.N.D	10	96796946	-	-	96782486	-
S3.120.600.650.8.70E.D.459.G.N.D	10	96796947	-	96308245	-	-
S3.120.600.650.8.70E.H.459.G.N.D	10	96796949	96308192	-	-	-

Product range

Pump type	Cable length [m]	Pump	Accessories			
				To be ordered separately		
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S3.120.600.650.8.70E.S.459.G.N.D	15	96810546	-	-	96782486	-
S3.120.600.650.8.70E.C.459.G.N.D	15	96810547	-	-	96782486	-
S3.120.600.650.8.70E.D.459.G.N.D	15	96810548	-	96308245	-	-
S3.120.600.650.8.70E.H.459.G.N.D	15	96810549	96308192	-	-	-
S3.120.600.1000.6.70E.S.402.G.N.D	10	96796980	-	-	96782486	-
S3.120.600.1000.6.70E.C.402.G.N.D	10	96796981	-	-	96782486	-
S3.120.600.1000.6.70E.D.402.G.N.D	10	96796982	-	96308245	-	-
S3.120.600.1000.6.70E.H.402.G.N.D	10	96796984	96308192	-	-	-
S3.120.600.1000.6.70E.S.402.G.N.D	15	96810574	-	-	96782486	-
S3.120.600.1000.6.70E.C.402.G.N.D	15	96810575	-	-	96782486	-
S3.120.600.1000.6.70E.D.402.G.N.D	15	96810576	-	96308245	-	-
S3.120.600.1000.6.70E.H.402.G.N.D	15	96810577	96308192	-	-	-
S3.120.600.1300.6.70E.S.426.G.N.D	10	96797000	-	-	96782486	-
S3.120.600.1300.6.70E.C.426.G.N.D	10	96797001	-	-	96782486	-
S3.120.600.1300.6.70E.D.426.G.N.D	10	96797002	-	96308245	-	-
S3.120.600.1300.6.70E.H.426.G.N.D	10	96797004	96308192	-	-	-
S3.120.600.1300.6.70E.S.426.G.N.D	15	96810590	-	-	96782486	-
S3.120.600.1300.6.70E.C.426.G.N.D	15	96810591	-	-	96782486	-
S3.120.600.1300.6.70E.D.426.G.N.D	15	96810592	-	96308245	-	-
S3.120.600.1300.6.70E.H.426.G.N.D	15	96810593	96308192	-	-	-

* Without hose connection.

** Installation type S and C pumps with discharge flange size DN 250 and higher are supplied with guide claw mounted on the flange.

*** The horizontal base stand is included in the pump product number.

Pumps with 15 m cable are installed with PTC thermal protection.

Stainless steel impeller, 3 x 400/690 V

Pump type	Pump	Accessories			
		To be ordered separately			
		***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S1.100.200.850.4.70H.S.432.Q.N.D	96811767	-	-	96641489	-
S1.100.200.850.4.70H.C.432.Q.N.D	96811768	-	-	96641489	-
S1.100.200.850.4.70H.D.432.Q.N.D	96811769	-	96308240	-	-
S1.100.200.850.4.70H.H.432.Q.N.D	96811770	96308212	-	-	-
S2.90.200.1150.4.70S.S.462.Q.N.D	96811843	-	-	96641489	-
S2.90.200.1150.4.70S.C.462.Q.N.D	96811844	-	-	96641489	-
S2.90.200.1150.4.70S.D.462.Q.N.D	96811845	-	96308240	-	-
S2.90.200.1150.4.70S.H.462.Q.N.D	96811846	96308192	-	-	-
S2.90.200.1600.4.70S.S.480.Q.N.D	96811859	-	-	96641489	-
S2.90.200.1600.4.70S.C.480.Q.N.D	96811860	-	-	96641489	-
S2.90.200.1600.4.70S.D.480.Q.N.D	96811861	-	96308240	-	-
S2.90.200.1600.4.70S.H.480.Q.N.D	96811862	96308192	-	-	-
S2.100.200.1150.4.70H.S.404.Q.N.D	96811835	-	-	96641489	-
S2.100.200.1150.4.70H.C.404.Q.N.D	96811836	-	-	96641489	-
S2.100.200.1150.4.70H.D.404.Q.N.D	96811837	-	96308240	-	-
S2.100.200.1150.4.70H.H.404.Q.N.D	96811838	96308212	-	-	-
S2.100.200.1600.4.70H.S.430.Q.N.D	96811847	-	-	96641489	-
S2.100.200.1600.4.70H.C.430.Q.N.D	96811848	-	-	96641489	-
S2.100.200.1600.4.70H.D.430.Q.N.D	96811849	-	96308240	-	-
S2.100.200.1600.4.70H.H.430.Q.N.D	96811850	96308212	-	-	-
S2.110.200.850.4.70M.S.375.Q.N.D	96811771	-	-	96641489	-
S2.110.200.850.4.70M.C.375.Q.N.D	96811772	-	-	96641489	-
S2.110.200.850.4.70M.D.375.Q.N.D	96811773	-	96308240	-	-
S2.110.200.850.4.70M.H.375.Q.N.D	96811774	96308212	-	-	-
S2.110.200.1150.4.70M.S.416.Q.N.D	96811839	-	-	96641489	-
S2.110.200.1150.4.70M.C.416.Q.N.D	96811840	-	-	96641489	-
S2.110.200.1150.4.70M.D.416.Q.N.D	96811841	-	96308240	-	-
S2.110.200.1150.4.70M.H.416.Q.N.D	96811842	96308212	-	-	-
S2.110.200.1600.4.70M.S.441.Q.N.D	96811855	-	-	96641489	-
S2.110.200.1600.4.70M.C.441.Q.N.D	96811856	-	-	96641489	-
S2.110.200.1600.4.70M.D.441.Q.N.D	96811857	-	96308240	-	-
S2.110.200.1600.4.70M.H.441.Q.N.D	96811858	96308212	-	-	-
S2.120.250.650.8.70H.S.534.Q.N.D	96811775	-	-	96782483	-
S2.120.250.650.8.70H.C.534.Q.N.D	96811776	-	-	96782483	-
S2.120.250.650.8.70H.D.534.Q.N.D	96811777	-	96308241	-	-
S2.120.250.650.8.70H.H.534.Q.N.D	96811778	96308192	-	-	-
S2.120.250.800.6.70H.S.465.Q.N.D	96811791	-	-	96782483	-
S2.120.250.800.6.70H.C.465.Q.N.D	96811792	-	-	96782483	-
S2.120.250.800.6.70H.D.465.Q.N.D	96811793	-	96308241	-	-
S2.120.250.800.6.70H.H.465.Q.N.D	96811794	96308192	-	-	-
S2.120.250.1000.6.70H.S.500.Q.N.D	96811803	-	-	96782483	-
S2.120.250.1000.6.70H.C.500.Q.N.D	96811804	-	-	96782483	-
S2.120.250.1000.6.70H.D.500.Q.N.D	96811805	-	96308241	-	-
S2.120.250.1000.6.70H.H.500.Q.N.D	96811806	96308192	-	-	-
S2.120.250.1300.6.70H.S.528.Q.N.D	96811819	-	-	96782483	-
S2.120.250.1300.6.70H.C.528.Q.N.D	96811820	-	-	96782483	-
S2.120.250.1300.6.70H.D.528.Q.N.D	96811821	-	96308241	-	-
S2.120.250.1300.6.70H.H.528.Q.N.D	96811822	96308192	-	-	-
S2.120.250.1600.4.70L.S.402.Q.N.D	96811851	-	-	96782483	-
S2.120.250.1600.4.70L.C.402.Q.N.D	96811852	-	-	96782483	-
S2.120.250.1600.4.70L.D.402.Q.N.D	96811853	-	96308241	-	-
S2.120.250.1600.4.70L.H.402.Q.N.D	96811854	96308212	-	-	-
S3.110.500.650.8.70L.S.464.Q.N.D	96811779	-	-	96782485	-
S3.110.500.650.8.70L.C.464.Q.N.D	96811780	-	-	96782485	-
S3.110.500.650.8.70L.D.464.Q.N.D	96811781	-	96308244	-	-
S3.110.500.650.8.70L.H.464.Q.N.D	96811782	96308192	-	-	-

Product range

Pump type	Pump	Accessories			
			To be ordered separately		
		***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S3.110.500.800.6.70L.S.370.Q.N.D	96811795	-	-	96782485	-
S3.110.500.800.6.70L.C.370.Q.N.D	96811796	-	-	96782485	-
S3.110.500.800.6.70L.D.370.Q.N.D	96811797	-	96308244	-	-
S3.110.500.800.6.70L.H.370.Q.N.D	96811798	96308192	-	-	-
S3.110.500.1000.6.70L.S.402.Q.N.D	96811807	-	-	96782485	-
S3.110.500.1000.6.70L.C.402.Q.N.D	96811808	-	-	96782485	-
S3.110.500.1000.6.70L.D.402.Q.N.D	96811809	-	96308244	-	-
S3.110.500.1000.6.70L.H.402.Q.N.D	96811810	96308192	-	-	-
S3.110.500.1300.6.70L.S.442.Q.N.D	96811823	-	-	96782485	-
S3.110.500.1300.6.70L.C.442.Q.N.D	96811824	-	-	96782485	-
S3.110.500.1300.6.70L.D.442.Q.N.D	96811825	-	96308244	-	-
S3.110.500.1300.6.70L.H.442.Q.N.D	96811826	96308192	-	-	-
S3.120.300.650.8.70M.S.464.Q.N.D	96811783	-	-	96782484	-
S3.120.300.650.8.70M.C.464.Q.N.D	96811784	-	-	96782484	-
S3.120.300.650.8.70M.D.464.Q.N.D	96811785	-	96308241	-	-
S3.120.300.650.8.70M.H.464.Q.N.D	96811786	96308192	-	-	-
S3.120.300.800.6.70M.S.407.Q.N.D	96811799	-	-	96782484	-
S3.120.300.800.6.70M.C.407.Q.N.D	96811800	-	-	96782484	-
S3.120.300.800.6.70M.D.407.Q.N.D	96811801	-	96308241	-	-
S3.120.300.800.6.70M.H.407.Q.N.D	96811802	96308255	-	-	-
S3.120.300.1000.6.70M.S.428.Q.N.D	96811811	-	-	96782484	-
S3.120.300.1000.6.70M.C.428.Q.N.D	96811812	-	-	96782484	-
S3.120.300.1000.6.70M.D.428.Q.N.D	96811813	-	96308241	-	-
S3.120.300.1000.6.70M.H.428.Q.N.D	96811814	96308255	-	-	-
S3.120.300.1300.6.70M.S.456.Q.N.D	96811827	-	-	96782484	-
S3.120.300.1300.6.70M.C.456.Q.N.D	96811828	-	-	96782484	-
S3.120.300.1300.6.70M.D.456.Q.N.D	96811829	-	96308241	-	-
S3.120.300.1300.6.70M.H.456.Q.N.D	96811830	96308192	-	-	-
S3.120.600.650.8.70E.S.459.Q.N.D	96811787	-	-	96782486	-
S3.120.600.650.8.70E.C.459.Q.N.D	96811788	-	-	96782486	-
S3.120.600.650.8.70E.D.459.Q.N.D	96811789	-	96308245	-	-
S3.120.600.650.8.70E.H.459.Q.N.D	96811790	96308192	-	-	-
S3.120.600.1000.6.70E.S.402.Q.N.D	96811815	-	-	96782486	-
S3.120.600.1000.6.70E.C.402.Q.N.D	96811816	-	-	96782486	-
S3.120.600.1000.6.70E.D.402.Q.N.D	96811817	-	96308245	-	-
S3.120.600.1000.6.70E.H.402.Q.N.D	96811818	96308192	-	-	-
S3.120.600.1300.6.70E.S.426.Q.N.D	96811831	-	-	96782486	-
S3.120.600.1300.6.70E.C.426.Q.N.D	96811832	-	-	96782486	-
S3.120.600.1300.6.70E.D.426.Q.N.D	96811833	-	96308245	-	-
S3.120.600.1300.6.70E.H.426.Q.N.D	96811834	96308192	-	-	-

* Without hose connection.

** Installation type S and C pumps with discharge flange size DN 250 and higher are supplied with guide claw mounted on the flange.

*** The horizontal base stand is included in the pump product number.

Explosion-proof pumps

Cast iron, 3 x 400/690 V

Pump type	Cable length [m]	Pump	Accessories			
				To be ordered separately		
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S1.100.200.850.4.70H.S.432.G.EX.D	10	95112981	-	-	96641489	-
S1.100.200.850.4.70H.C.432.G.EX.D	10	95112982	-	-	96641489	-
S1.100.200.850.4.70H.H.432.G.EX.D	10	95112983	96308212	-	-	-
S1.100.200.850.4.70H.D.432.G.EX.D	10	96797774	-	96308240	-	-
S2.90.200.1150.4.70S.S.462.G.EX.D	10	95112993	-	-	96641489	-
S2.90.200.1150.4.70S.C.462.G.EX.D	10	95112994	-	-	96641489	-
S2.90.200.1150.4.70S.H.462.G.EX.D	10	95112995	96308192	-	-	-
S2.90.200.1150.4.70S.D.462.G.EX.D	10	96797794	-	96308240	-	-
S2.90.200.1600.4.70S.S.480.G.EX.D	10	95112999	-	-	96641489	-
S2.90.200.1600.4.70S.C.480.G.EX.D	10	95113000	-	-	96641489	-
S2.90.200.1600.4.70S.H.480.G.EX.D	10	95113001	96308192	-	-	-
S2.90.200.1600.4.70S.D.480.G.EX.D	10	96797804	-	96308240	-	-
S2.100.200.1150.4.70H.S.404.G.EX.D	10	95112987	-	-	96641489	-
S2.100.200.1150.4.70H.C.404.G.EX.D	10	95112988	-	-	96641489	-
S2.100.200.1150.4.70H.H.404.G.EX.D	10	95112989	96308212	-	-	-
S2.100.200.1150.4.70H.D.404.G.EX.D	10	96797784	-	96308240	-	-
S2.100.200.1600.4.70H.S.430.G.EX.D	10	95113002	-	-	96641489	-
S2.100.200.1600.4.70H.C.430.G.EX.D	10	95113003	-	-	96641489	-
S2.100.200.1600.4.70H.H.430.G.EX.D	10	95113004	96308212	-	-	-
S2.100.200.1600.4.70H.D.430.G.EX.D	10	96797809	-	96308240	-	-
S2.110.200.850.4.70M.S.375.G.EX.D	10	95113017	-	-	96641489	-
S2.110.200.850.4.70M.C.375.G.EX.D	10	95113018	-	-	96641489	-
S2.110.200.850.4.70M.H.375.G.EX.D	10	95113019	96308212	-	-	-
S2.110.200.850.4.70M.D.375.G.EX.D	10	96797834	-	96308240	-	-
S2.110.200.1150.4.70M.S.416.G.EX.D	10	95112990	-	-	96641489	-
S2.110.200.1150.4.70M.C.416.G.EX.D	10	95112991	-	-	96641489	-
S2.110.200.1150.4.70M.H.416.G.EX.D	10	95112992	96308212	-	-	-
S2.110.200.1150.4.70M.D.416.G.EX.D	10	96797789	-	96308240	-	-
S2.110.200.1600.4.70M.S.441.G.EX.D	10	95113008	-	-	96641489	-
S2.110.200.1600.4.70M.C.441.G.EX.D	10	95113009	-	-	96641489	-
S2.110.200.1600.4.70M.H.441.G.EX.D	10	95113010	96308212	-	-	-
S2.110.200.1600.4.70M.D.441.G.EX.D	10	96797819	-	96308240	-	-
S2.120.250.650.8.70H.S.534.G.EX.D	10	95113011	-	-	96782483	-
S2.120.250.650.8.70H.C.534.G.EX.D	10	95113012	-	-	96782483	-
S2.120.250.650.8.70H.D.534.G.EX.D	10	95113013	-	96308241	-	-
S2.120.250.650.8.70H.H.534.G.EX.D	10	96797825	96308192	-	-	-
S2.120.250.800.6.70H.S.465.G.EX.D	10	95113014	-	-	96782483	-
S2.120.250.800.6.70H.C.465.G.EX.D	10	95113015	-	-	96782483	-
S2.120.250.800.6.70H.D.465.G.EX.D	10	95113016	-	96308241	-	-
S2.120.250.800.6.70H.H.465.G.EX.D	10	96797830	96308192	-	-	-
S2.120.250.1000.6.70H.S.500.G.EX.D	10	95112984	-	-	96782483	-
S2.120.250.1000.6.70H.C.500.G.EX.D	10	95112985	-	-	96782483	-
S2.120.250.1000.6.70H.H.500.G.EX.D	10	95112986	96308192	-	-	-
S2.120.250.1000.6.70H.D.500.G.EX.D	10	96797779	-	96308241	-	-
S2.120.250.1300.6.70H.S.528.G.EX.D	10	95112996	-	-	96782483	-
S2.120.250.1300.6.70H.C.528.G.EX.D	10	95112997	-	-	96782483	-
S2.120.250.1300.6.70H.D.528.G.EX.D	10	95112998	-	96308241	-	-
S2.120.250.1300.6.70H.H.528.G.EX.D	10	96797800	96308192	-	-	-
S2.120.250.1600.4.70L.S.402.G.EX.D	10	95113005	-	-	96782483	-
S2.120.250.1600.4.70L.C.402.G.EX.D	10	95113006	-	-	96782483	-
S2.120.250.1600.4.70L.D.402.G.EX.D	10	95113007	-	96308241	-	-
S2.120.250.1600.4.70L.H.402.G.EX.D	10	96797815	96308212	-	-	-
S3.110.500.650.8.70L.S.464.G.EX.D	10	95113041	-	-	96782485	-
S3.110.500.650.8.70L.C.464.G.EX.D	10	95113042	-	-	96782485	-

Product range

Pump type	Cable length [m]	Pump	Accessories			
			To be ordered separately			
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S3.110.500.650.8.70L.D.464.G.EX.D	10	95113043	-	96308244	-	-
S3.110.500.650.8.70L.H.464.G.EX.D	10	96797875	96308192	-	-	-
S3.110.500.800.6.70L.S.370.G.EX.D	10	95113047	-	-	96782485	-
S3.110.500.800.6.70L.C.370.G.EX.D	10	95113048	-	-	96782485	-
S3.110.500.800.6.70L.D.370.G.EX.D	10	95113049	-	96308244	-	-
S3.110.500.800.6.70L.H.370.G.EX.D	10	96797885	96308192	-	-	-
S3.110.500.1000.6.70L.S.402.G.EX.D	10	95113020	-	-	96782485	-
S3.110.500.1000.6.70L.C.402.G.EX.D	10	95113021	-	-	96782485	-
S3.110.500.1000.6.70L.D.402.G.EX.D	10	95113022	-	96308244	-	-
S3.110.500.1000.6.70L.H.402.G.EX.D	10	96797840	96308192	-	-	-
S3.110.500.1300.6.70L.S.442.G.EX.D	10	95113032	-	-	96782485	-
S3.110.500.1300.6.70L.C.442.G.EX.D	10	95113033	-	-	96782485	-
S3.110.500.1300.6.70L.D.442.G.EX.D	10	95113034	-	96308244	-	-
S3.110.500.1300.6.70L.H.442.G.EX.D	10	96797860	96308192	-	-	-
S3.120.300.650.8.70M.S.464.G.EX.D	10	95113044	-	-	96782484	-
S3.120.300.650.8.70M.C.464.G.EX.D	10	95113045	-	-	96782484	-
S3.120.300.650.8.70M.D.464.G.EX.D	10	95113046	-	96308241	-	-
S3.120.300.650.8.70M.H.464.G.EX.D	10	96797880	96308192	-	-	-
S3.120.300.800.6.70M.S.407.G.EX.D	10	95113050	-	-	96782484	-
S3.120.300.800.6.70M.C.407.G.EX.D	10	95113051	-	-	96782484	-
S3.120.300.800.6.70M.D.407.G.EX.D	10	95113052	-	96308241	-	-
S3.120.300.800.6.70M.H.407.G.EX.D	10	96797890	96308255	-	-	-
S3.120.300.1000.6.70M.S.428.G.EX.D	10	95113023	-	-	96782484	-
S3.120.300.1000.6.70M.C.428.G.EX.D	10	95113024	-	-	96782484	-
S3.120.300.1000.6.70M.D.428.G.EX.D	10	95113025	-	96308241	-	-
S3.120.300.1000.6.70M.H.428.G.EX.D	10	96797845	96308255	-	-	-
S3.120.300.1300.6.70M.S.456.G.EX.D	10	95113035	-	-	96782484	-
S3.120.300.1300.6.70M.C.456.G.EX.D	10	95113036	-	-	96782484	-
S3.120.300.1300.6.70M.D.456.G.EX.D	10	95113037	-	96308241	-	-
S3.120.300.1300.6.70M.H.456.G.EX.D	10	96797865	96308192	-	-	-
S3.120.600.650.8.70E.S.459.G.EX.D	10	95113038	-	-	96782486	-
S3.120.600.650.8.70E.C.459.G.EX.D	10	95113039	-	-	96782486	-
S3.120.600.650.8.70E.D.459.G.EX.D	10	95113040	-	96308245	-	-
S3.120.600.650.8.70E.H.459.G.EX.D	10	96797870	96308192	-	-	-
S3.120.600.1000.6.70E.S.402.G.EX.D	10	95113026	-	-	96782486	-
S3.120.600.1000.6.70E.C.402.G.EX.D	10	95113027	-	-	96782486	-
S3.120.600.1000.6.70E.D.402.G.EX.D	10	95113028	-	96308245	-	-
S3.120.600.1000.6.70E.H.402.G.EX.D	10	96797850	96308192	-	-	-
S3.120.600.1300.6.70E.S.426.G.EX.D	10	95113029	-	-	96782486	-
S3.120.600.1300.6.70E.C.426.G.EX.D	10	95113030	-	-	96782486	-
S3.120.600.1300.6.70E.D.426.G.EX.D	10	95113031	-	96308245	-	-
S3.120.600.1300.6.70E.H.426.G.EX.D	10	96797855	96308192	-	-	-

* Without hose connection.

** Installation type S and C pumps with discharge flange size DN 250 and higher are supplied with guide claw mounted on the flange.

*** The horizontal base stand is included in the pump product number.

Cast iron, 3 x 415 V

Pump type	Cable length [m]	Pump	Accessories			
				To be ordered separately		
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S1.100.200.850.4.70H.S.432.G.EX.D	10	96797772	-	-	96641489	-
S1.100.200.850.4.70H.C.432.G.EX.D	10	96797773	-	-	96641489	-
S1.100.200.850.4.70H.D.432.G.EX.D	10	96797775	-	96308240	-	-
S1.100.200.850.4.70H.H.432.G.EX.D	10	96797776	96308212	-	-	-
S2.90.200.1150.4.70S.S.462.G.EX.D	10	96797792	-	-	96641489	-
S2.90.200.1150.4.70S.C.462.G.EX.D	10	96797793	-	-	96641489	-
S2.90.200.1150.4.70S.D.462.G.EX.D	10	96797795	-	96308240	-	-
S2.90.200.1150.4.70S.H.462.G.EX.D	10	96797796	96308192	-	-	-
S2.90.200.1600.4.70S.S.480.G.EX.D	10	96797802	-	-	96641489	-
S2.90.200.1600.4.70S.C.480.G.EX.D	10	96797803	-	-	96641489	-
S2.90.200.1600.4.70S.D.480.G.EX.D	10	96797805	-	96308240	-	-
S2.90.200.1600.4.70S.H.480.G.EX.D	10	96797806	96308192	-	-	-
S2.100.200.1150.4.70H.S.404.G.EX.D	10	96797782	-	-	96641489	-
S2.100.200.1150.4.70H.C.404.G.EX.D	10	96797783	-	-	96641489	-
S2.100.200.1150.4.70H.D.404.G.EX.D	10	96797785	-	96308240	-	-
S2.100.200.1150.4.70H.H.404.G.EX.D	10	96797786	96308212	-	-	-
S2.100.200.1600.4.70H.S.430.G.EX.D	10	96797807	-	-	96641489	-
S2.100.200.1600.4.70H.C.430.G.EX.D	10	96797808	-	-	96641489	-
S2.100.200.1600.4.70H.D.430.G.EX.D	10	96797810	-	96308240	-	-
S2.100.200.1600.4.70H.H.430.G.EX.D	10	96797811	96308212	-	-	-
S2.110.200.850.4.70M.S.375.G.EX.D	10	96797832	-	-	96641489	-
S2.110.200.850.4.70M.C.375.G.EX.D	10	96797833	-	-	96641489	-
S2.110.200.850.4.70M.D.375.G.EX.D	10	96797835	-	96308240	-	-
S2.110.200.850.4.70M.H.375.G.EX.D	10	96797836	96308212	-	-	-
S2.110.200.1150.4.70M.S.416.G.EX.D	10	96797787	-	-	96641489	-
S2.110.200.1150.4.70M.C.416.G.EX.D	10	96797788	-	-	96641489	-
S2.110.200.1150.4.70M.D.416.G.EX.D	10	96797790	-	96308240	-	-
S2.110.200.1150.4.70M.H.416.G.EX.D	10	96797791	96308212	-	-	-
S2.110.200.1600.4.70M.S.441.G.EX.D	10	96797817	-	-	96641489	-
S2.110.200.1600.4.70M.C.441.G.EX.D	10	96797818	-	-	96641489	-
S2.110.200.1600.4.70M.D.441.G.EX.D	10	96797820	-	96308240	-	-
S2.110.200.1600.4.70M.H.441.G.EX.D	10	96797821	96308212	-	-	-
S2.120.250.650.8.70H.S.534.G.EX.D	10	96797822	-	-	96782483	-
S2.120.250.650.8.70H.C.534.G.EX.D	10	96797823	-	-	96782483	-
S2.120.250.650.8.70H.D.534.G.EX.D	10	96797824	-	96308241	-	-
S2.120.250.650.8.70H.H.534.G.EX.D	10	96797826	96308192	-	-	-
S2.120.250.800.6.70H.S.465.G.EX.D	10	96797827	-	-	96782483	-
S2.120.250.800.6.70H.C.465.G.EX.D	10	96797828	-	-	96782483	-
S2.120.250.800.6.70H.D.465.G.EX.D	10	96797829	-	96308241	-	-
S2.120.250.800.6.70H.H.465.G.EX.D	10	96797831	96308192	-	-	-
S2.120.250.1000.6.70H.S.500.G.EX.D	10	96797777	-	-	96782483	-
S2.120.250.1000.6.70H.C.500.G.EX.D	10	96797778	-	-	96782483	-
S2.120.250.1000.6.70H.D.500.G.EX.D	10	96797780	-	96308241	-	-
S2.120.250.1000.6.70H.H.500.G.EX.D	10	96797781	96308192	-	-	-
S2.120.250.1300.6.70H.S.528.G.EX.D	10	96797797	-	-	96782483	-
S2.120.250.1300.6.70H.C.528.G.EX.D	10	96797798	-	-	96782483	-
S2.120.250.1300.6.70H.D.528.G.EX.D	10	96797799	-	96308241	-	-
S2.120.250.1300.6.70H.H.528.G.EX.D	10	96797801	96308192	-	-	-
S2.120.250.1600.4.70L.S.402.G.EX.D	10	96797812	-	-	96782483	-
S2.120.250.1600.4.70L.C.402.G.EX.D	10	96797813	-	-	96782483	-
S2.120.250.1600.4.70L.D.402.G.EX.D	10	96797814	-	96308241	-	-
S2.120.250.1600.4.70L.H.402.G.EX.D	10	96797816	96308212	-	-	-
S3.110.500.650.8.70L.S.464.G.EX.D	10	96797872	-	-	96782485	-
S3.110.500.650.8.70L.C.464.G.EX.D	10	96797873	-	-	96782485	-
S3.110.500.650.8.70L.D.464.G.EX.D	10	96797874	-	96308244	-	-
S3.110.500.650.8.70L.H.464.G.EX.D	10	96797876	96308192	-	-	-

Product range

Pump type	Cable length [m]	Pump	Accessories			
			To be ordered separately			
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S3.110.500.800.6.70L.S.370.G.EX.D	10	96797882	-	-	96782485	-
S3.110.500.800.6.70L.C.370.G.EX.D	10	96797883	-	-	96782485	-
S3.110.500.800.6.70L.D.370.G.EX.D	10	96797884	-	96308244	-	-
S3.110.500.800.6.70L.H.370.G.EX.D	10	96797886	96308192	-	-	-
S3.110.500.1000.6.70L.S.402.G.EX.D	10	96797837	-	-	96782485	-
S3.110.500.1000.6.70L.C.402.G.EX.D	10	96797838	-	-	96782485	-
S3.110.500.1000.6.70L.D.402.G.EX.D	10	96797839	-	96308244	-	-
S3.110.500.1000.6.70L.H.402.G.EX.D	10	96797841	96308192	-	-	-
S3.110.500.1300.6.70L.S.442.G.EX.D	10	96797857	-	-	96782485	-
S3.110.500.1300.6.70L.C.442.G.EX.D	10	96797858	-	-	96782485	-
S3.110.500.1300.6.70L.D.442.G.EX.D	10	96797859	-	96308244	-	-
S3.110.500.1300.6.70L.H.442.G.EX.D	10	96797861	96308192	-	-	-
S3.120.300.650.8.70M.S.464.G.EX.D	10	96797877	-	-	96782484	-
S3.120.300.650.8.70M.C.464.G.EX.D	10	96797878	-	-	96782484	-
S3.120.300.650.8.70M.D.464.G.EX.D	10	96797879	-	96308241	-	-
S3.120.300.650.8.70M.H.464.G.EX.D	10	96797881	96308192	-	-	-
S3.120.300.800.6.70M.S.407.G.EX.D	10	96797887	-	-	96782484	-
S3.120.300.800.6.70M.C.407.G.EX.D	10	96797888	-	-	96782484	-
S3.120.300.800.6.70M.D.407.G.EX.D	10	96797889	-	96308241	-	-
S3.120.300.800.6.70M.H.407.G.EX.D	10	96797891	96308255	-	-	-
S3.120.300.1000.6.70M.S.428.G.EX.D	10	96797842	-	-	96782484	-
S3.120.300.1000.6.70M.C.428.G.EX.D	10	96797843	-	-	96782484	-
S3.120.300.1000.6.70M.D.428.G.EX.D	10	96797844	-	96308241	-	-
S3.120.300.1000.6.70M.H.428.G.EX.D	10	96797846	96308255	-	-	-
S3.120.300.1300.6.70M.S.456.G.EX.D	10	96797862	-	-	96782484	-
S3.120.300.1300.6.70M.C.456.G.EX.D	10	96797863	-	-	96782484	-
S3.120.300.1300.6.70M.D.456.G.EX.D	10	96797864	-	96308241	-	-
S3.120.300.1300.6.70M.H.456.G.EX.D	10	96797866	96308192	-	-	-
S3.120.600.650.8.70E.S.459.G.EX.D	10	96797867	-	-	96782486	-
S3.120.600.650.8.70E.C.459.G.EX.D	10	96797868	-	-	96782486	-
S3.120.600.650.8.70E.D.459.G.EX.D	10	96797869	-	96308245	-	-
S3.120.600.650.8.70E.H.459.G.EX.D	10	96797871	96308192	-	-	-
S3.120.600.1000.6.70E.S.402.G.EX.D	10	96797847	-	-	96782486	-
S3.120.600.1000.6.70E.C.402.G.EX.D	10	96797848	-	-	96782486	-
S3.120.600.1000.6.70E.D.402.G.EX.D	10	96797849	-	96308245	-	-
S3.120.600.1000.6.70E.H.402.G.EX.D	10	96797851	96308192	-	-	-
S3.120.600.1300.6.70E.S.426.G.EX.D	10	96797852	-	-	96782486	-
S3.120.600.1300.6.70E.C.426.G.EX.D	10	96797853	-	-	96782486	-
S3.120.600.1300.6.70E.D.426.G.EX.D	10	96797854	-	96308245	-	-
S3.120.600.1300.6.70E.H.426.G.EX.D	10	96797856	96308192	-	-	-

* Without hose connection.

** Installation type S and C pumps with discharge flange size DN 250 and higher are supplied with guide claw mounted on the flange.

*** The horizontal base stand is included in the pump product number.

Stainless steel impeller, 3 x 400/690 V

Pump type	Cable length [m]	Pump	Accessories			
			To be ordered separately			
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S1.100.200.850.4.70H.S.432.Q.EX.D	10	96811863	-	-	96641489	-
S1.100.200.850.4.70H.C.432.Q.EX.D	10	96811864	-	-	96641489	-
S1.100.200.850.4.70H.D.432.Q.EX.D	10	96811865	-	96308240	-	-
S1.100.200.850.4.70H.H.432.Q.EX.D	10	96811866	96308212	-	-	-
S2.90.200.1150.4.70S.S.462.Q.EX.D	10	96811879	-	-	96641489	-
S2.90.200.1150.4.70S.C.462.Q.EX.D	10	96811880	-	-	96641489	-
S2.90.200.1150.4.70S.D.462.Q.EX.D	10	96811881	-	96308240	-	-
S2.90.200.1150.4.70S.H.462.Q.EX.D	10	96811882	96308192	-	-	-
S2.90.200.1600.4.70S.S.480.Q.EX.D	10	96811887	-	-	96641489	-
S2.90.200.1600.4.70S.C.480.Q.EX.D	10	96811888	-	-	96641489	-
S2.90.200.1600.4.70S.D.480.Q.EX.D	10	96811889	-	96308240	-	-
S2.90.200.1600.4.70S.H.480.Q.EX.D	10	96811890	96308192	-	-	-
S2.100.200.1150.4.70H.S.404.Q.EX.D	10	96811871	-	-	96641489	-
S2.100.200.1150.4.70H.C.404.Q.EX.D	10	96811872	-	-	96641489	-
S2.100.200.1150.4.70H.D.404.Q.EX.D	10	96811873	-	96308240	-	-
S2.100.200.1150.4.70H.H.404.Q.EX.D	10	96811874	96308212	-	-	-
S2.100.200.1600.4.70H.S.430.Q.EX.D	10	96811891	-	-	96641489	-
S2.100.200.1600.4.70H.C.430.Q.EX.D	10	96811892	-	-	96641489	-
S2.100.200.1600.4.70H.D.430.Q.EX.D	10	96811893	-	96308240	-	-
S2.100.200.1600.4.70H.H.430.Q.EX.D	10	96811894	96308212	-	-	-
S2.110.200.850.4.70M.S.375.Q.EX.D	10	96811911	-	-	96641489	-
S2.110.200.850.4.70M.C.375.Q.EX.D	10	96811912	-	-	96641489	-
S2.110.200.850.4.70M.D.375.Q.EX.D	10	96811913	-	96308240	-	-
S2.110.200.850.4.70M.H.375.Q.EX.D	10	96811914	96308212	-	-	-
S2.110.200.1150.4.70M.S.416.Q.EX.D	10	96811875	-	-	96641489	-
S2.110.200.1150.4.70M.C.416.Q.EX.D	10	96811876	-	-	96641489	-
S2.110.200.1150.4.70M.D.416.Q.EX.D	10	96811877	-	96308240	-	-
S2.110.200.1150.4.70M.H.416.Q.EX.D	10	96811878	96308212	-	-	-
S2.110.200.1600.4.70M.S.441.Q.EX.D	10	96811899	-	-	96641489	-
S2.110.200.1600.4.70M.C.441.Q.EX.D	10	96811900	-	-	96641489	-
S2.110.200.1600.4.70M.D.441.Q.EX.D	10	96811901	-	96308240	-	-
S2.110.200.1600.4.70M.H.441.Q.EX.D	10	96811902	96308212	-	-	-
S2.120.250.650.8.70H.S.534.Q.EX.D	10	96811903	-	-	96782483	-
S2.120.250.650.8.70H.C.534.Q.EX.D	10	96811904	-	-	96782483	-
S2.120.250.650.8.70H.D.534.Q.EX.D	10	96811905	-	96308241	-	-
S2.120.250.650.8.70H.H.534.Q.EX.D	10	96811906	96308192	-	-	-
S2.120.250.800.6.70H.S.465.Q.EX.D	10	96811907	-	-	96782483	-
S2.120.250.800.6.70H.C.465.Q.EX.D	10	96811908	-	-	96782483	-
S2.120.250.800.6.70H.D.465.Q.EX.D	10	96811909	-	96308241	-	-
S2.120.250.800.6.70H.H.465.Q.EX.D	10	96811910	96308192	-	-	-
S2.120.250.1000.6.70H.S.500.Q.EX.D	10	96811867	-	-	96782483	-
S2.120.250.1000.6.70H.C.500.Q.EX.D	10	96811868	-	-	96782483	-
S2.120.250.1000.6.70H.D.500.Q.EX.D	10	96811869	-	96308241	-	-
S2.120.250.1000.6.70H.H.500.Q.EX.D	10	96811870	96308192	-	-	-
S2.120.250.1300.6.70H.S.528.Q.EX.D	10	96811883	-	-	96782483	-
S2.120.250.1300.6.70H.C.528.Q.EX.D	10	96811884	-	-	96782483	-
S2.120.250.1300.6.70H.D.528.Q.EX.D	10	96811885	-	96308241	-	-
S2.120.250.1300.6.70H.H.528.Q.EX.D	10	96811886	96308192	-	-	-
S2.120.250.1600.4.70L.S.402.Q.EX.D	10	96811895	-	-	96782483	-
S2.120.250.1600.4.70L.C.402.Q.EX.D	10	96811896	-	-	96782483	-
S2.120.250.1600.4.70L.D.402.Q.EX.D	10	96811897	-	96308241	-	-
S2.120.250.1600.4.70L.H.402.Q.EX.D	10	96811898	96308212	-	-	-
S3.110.500.650.8.70L.S.464.Q.EX.D	10	96811943	-	-	96782485	-
S3.110.500.650.8.70L.C.464.Q.EX.D	10	96811944	-	-	96782485	-
S3.110.500.650.8.70L.D.464.Q.EX.D	10	96811945	-	96308244	-	-
S3.110.500.650.8.70L.H.464.Q.EX.D	10	96811946	96308192	-	-	-

Product range

Pump type	Cable length [m]	Pump	Accessories			
			To be ordered separately			
			***Horizontal base stand	Vertical base stand	**Auto-coupling system	*Ring stand for portable use
S3.110.500.800.6.70L.S.370.Q.EX.D	10	96811951	-	-	96782485	-
S3.110.500.800.6.70L.C.370.Q.EX.D	10	96811952	-	-	96782485	-
S3.110.500.800.6.70L.D.370.Q.EX.D	10	96811953	-	96308244	-	-
S3.110.500.800.6.70L.H.370.Q.EX.D	10	96811954	96308192	-	-	-
S3.110.500.1000.6.70L.S.402.Q.EX.D	10	96811915	-	-	96782485	-
S3.110.500.1000.6.70L.C.402.Q.EX.D	10	96811916	-	-	96782485	-
S3.110.500.1000.6.70L.D.402.Q.EX.D	10	96811917	-	96308244	-	-
S3.110.500.1000.6.70L.H.402.Q.EX.D	10	96811918	96308192	-	-	-
S3.110.500.1300.6.70L.S.442.Q.EX.D	10	96811931	-	-	96782485	-
S3.110.500.1300.6.70L.C.442.Q.EX.D	10	96811932	-	-	96782485	-
S3.110.500.1300.6.70L.D.442.Q.EX.D	10	96811933	-	96308244	-	-
S3.110.500.1300.6.70L.H.442.Q.EX.D	10	96811934	96308192	-	-	-
S3.120.300.650.8.70M.S.464.Q.EX.D	10	96811947	-	-	96782484	-
S3.120.300.650.8.70M.C.464.Q.EX.D	10	96811948	-	-	96782484	-
S3.120.300.650.8.70M.D.464.Q.EX.D	10	96811949	-	96308241	-	-
S3.120.300.650.8.70M.H.464.Q.EX.D	10	96811950	96308192	-	-	-
S3.120.300.800.6.70M.S.407.Q.EX.D	10	96811955	-	-	96782484	-
S3.120.300.800.6.70M.C.407.Q.EX.D	10	96811956	-	-	96782484	-
S3.120.300.800.6.70M.D.407.Q.EX.D	10	96811957	-	96308241	-	-
S3.120.300.800.6.70M.H.407.Q.EX.D	10	96811958	96308255	-	-	-
S3.120.300.1000.6.70M.S.428.Q.EX.D	10	96811919	-	-	96782484	-
S3.120.300.1000.6.70M.C.428.Q.EX.D	10	96811920	-	-	96782484	-
S3.120.300.1000.6.70M.D.428.Q.EX.D	10	96811921	-	96308241	-	-
S3.120.300.1000.6.70M.H.428.Q.EX.D	10	96811922	96308255	-	-	-
S3.120.300.1300.6.70M.S.456.Q.EX.D	10	96811935	-	-	96782484	-
S3.120.300.1300.6.70M.C.456.Q.EX.D	10	96811936	-	-	96782484	-
S3.120.300.1300.6.70M.D.456.Q.EX.D	10	96811937	-	96308241	-	-
S3.120.300.1300.6.70M.H.456.Q.EX.D	10	96811938	96308192	-	-	-
S3.120.600.650.8.70E.S.459.Q.EX.D	10	96811939	-	-	96782486	-
S3.120.600.650.8.70E.C.459.Q.EX.D	10	96811940	-	-	96782486	-
S3.120.600.650.8.70E.D.459.Q.EX.D	10	96811941	-	96308245	-	-
S3.120.600.650.8.70E.H.459.Q.EX.D	10	96811942	96308192	-	-	-
S3.120.600.1000.6.70E.S.402.Q.EX.D	10	96811923	-	-	96782486	-
S3.120.600.1000.6.70E.C.402.Q.EX.D	10	96811924	-	-	96782486	-
S3.120.600.1000.6.70E.D.402.Q.EX.D	10	96811925	-	96308245	-	-
S3.120.600.1000.6.70E.H.402.Q.EX.D	10	96811926	96308192	-	-	-
S3.120.600.1300.6.70E.S.426.Q.EX.D	10	96811927	-	-	96782486	-
S3.120.600.1300.6.70E.C.426.Q.EX.D	10	96811928	-	-	96782486	-
S3.120.600.1300.6.70E.D.426.Q.EX.D	10	96811929	-	96308245	-	-
S3.120.600.1300.6.70E.H.426.Q.EX.D	10	96811930	96308192	-	-	-

* Without hose connection.

** Installation type S and C pumps with discharge flange size DN 250 and higher are supplied with guide claw mounted on the flange.

*** The horizontal base stand is included in the pump product number.

List of variants

Motor		
Various cable lengths		15 m
		25 m
		50 m
EMC power cables	Screened power cables for variable speed drives	10 m
		15 m
		25 m
		50 m
Special motor		Insulation class H
		Special voltage
PTC thermistors in windings		
Special oil	Non-toxic Shell Ondina 917	
Motor protection		
PTC + moisture switch		FPV1
Klixon + moisture switch + WIO		FPV2a
PTC + moisture switch + WIO		FPV2b
Klixon + moisture switch + WIO + PT100 at lower and upper bearing + PVS 3		FPV4a
PTC + moisture switch + WIO + PT100 at lower and upper bearing + PVS 3		FPV4b
Materials		
Stainless steel lifting bracket	AISI 316	
Stainless steel shaft		
Tests		
Test at specified duty on standard impeller curve		
Trimmed impeller for specified duty test		
Additional test of entire QH curve (incl. report)	5-10 flows from pump performance curve	
Different test standard	Efficiency guaranteed by Grundfos	ISO 9906 grade 1 tolerances
		ISO 9906 grade 2 tolerances
Vibration test (incl. report)	According to Grundfos factory quality standard	
Performance test on dry test stand	Not yet available	
NPSHr test	Not yet available	
String test	Contact Grundfos	
Witness test	Contact Grundfos	
Miscellaneous		
Special packaging	Contact Grundfos	
Special nameplate	Contact Grundfos	
Other variants	Contact Grundfos	

Sectional drawings, motors

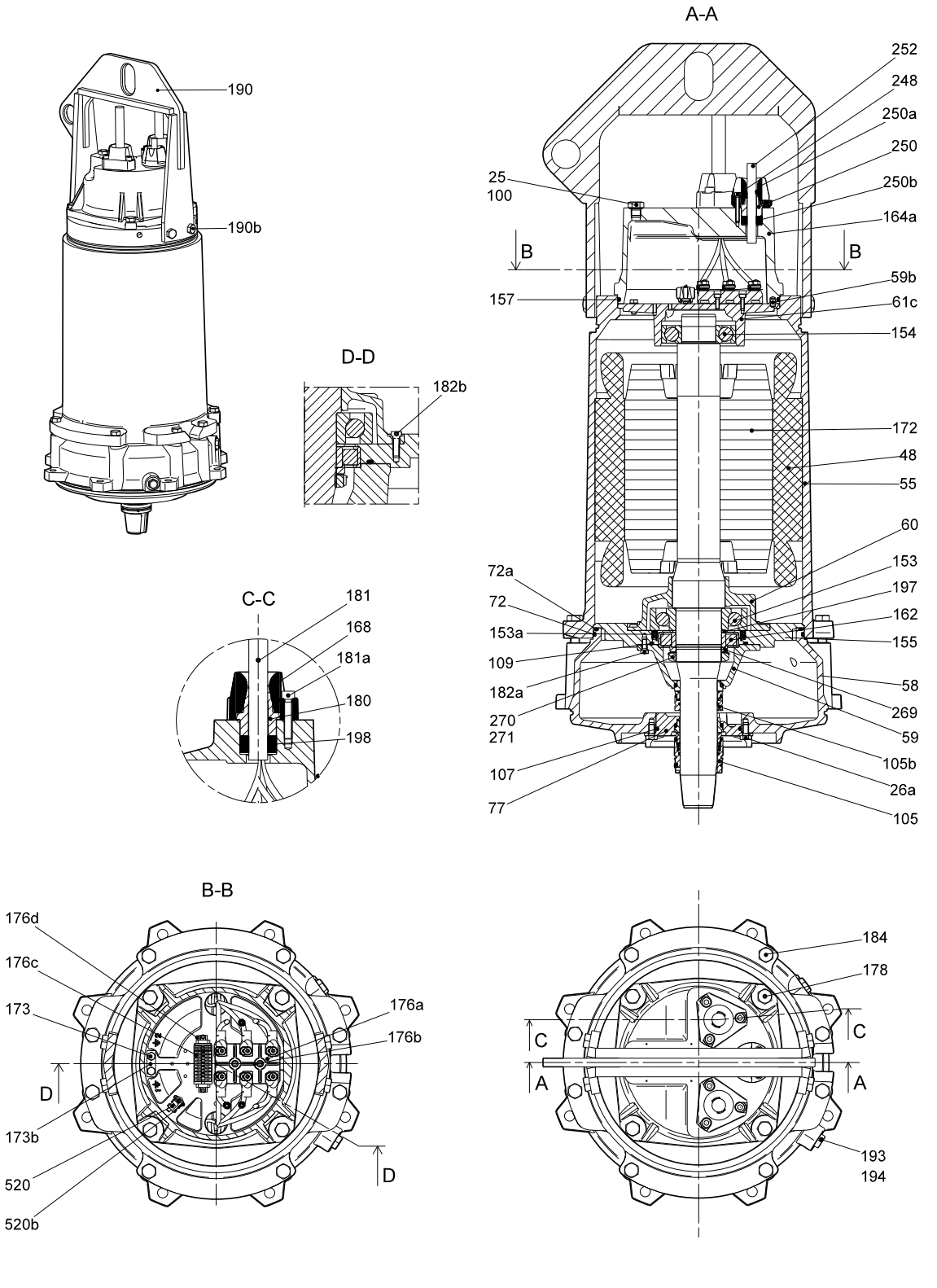


Fig. 4 Non-explosion-proof motor without cooling jacket

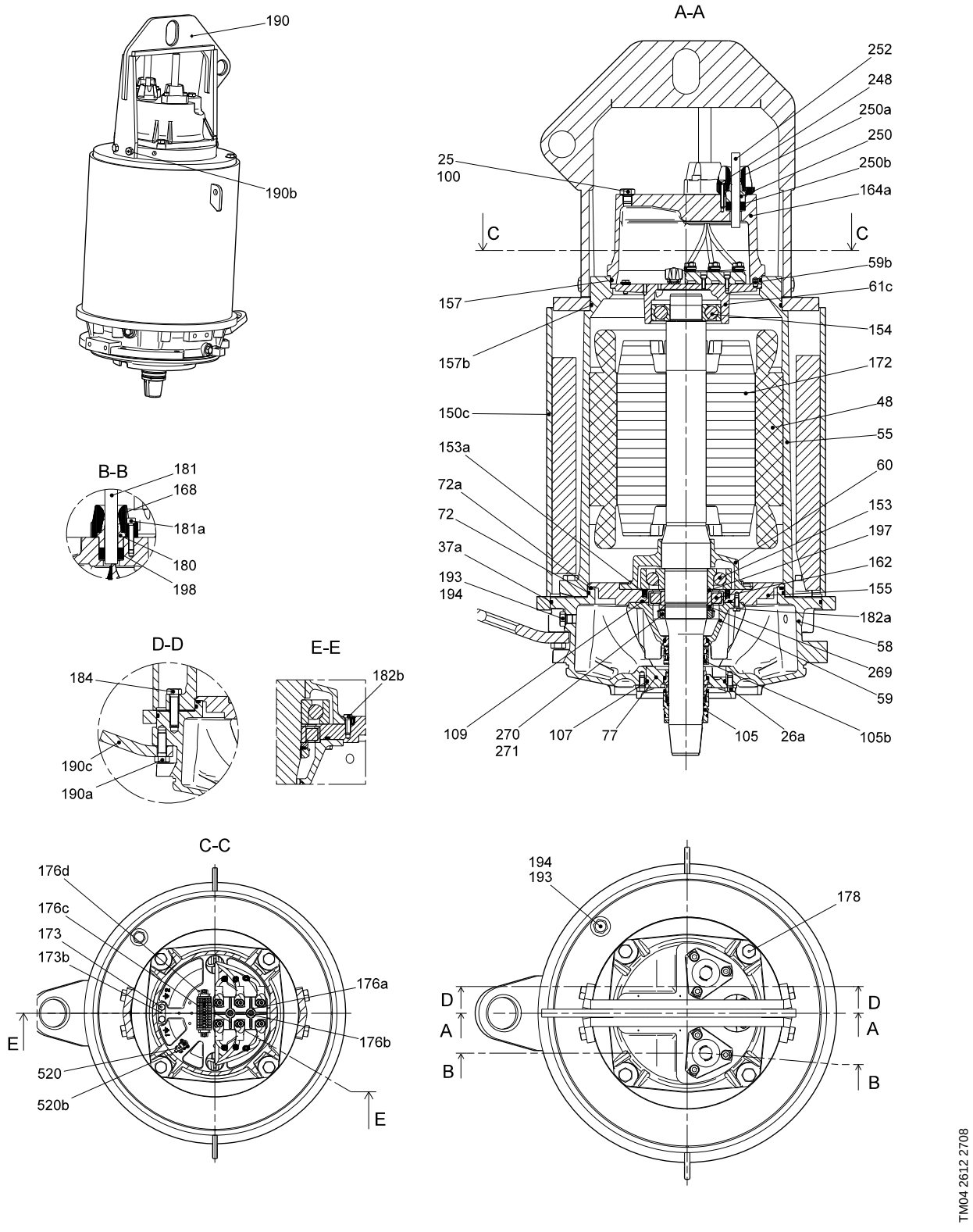


Fig. 5 Non-explosion-proof motor with cooling jacket

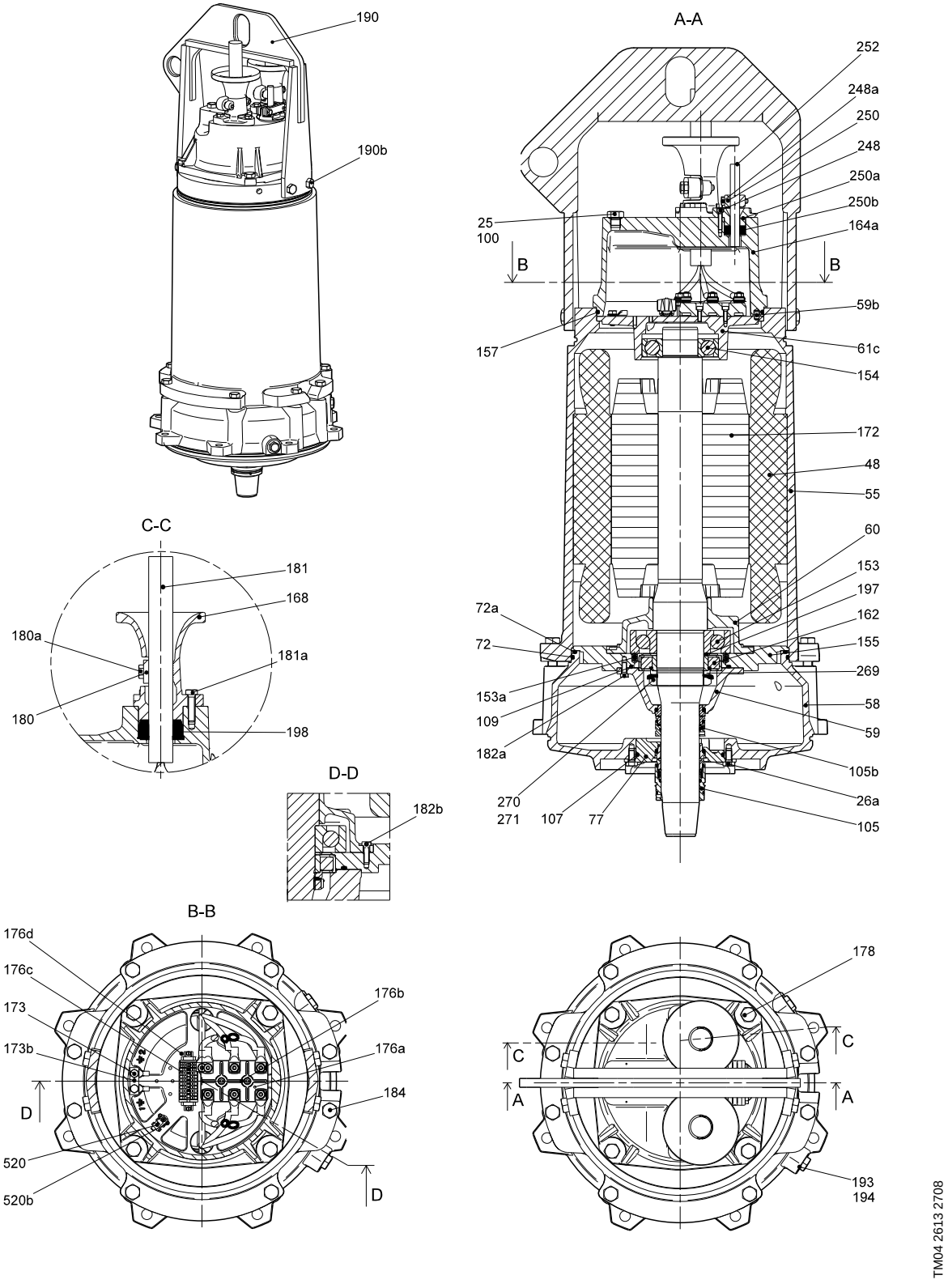


Fig. 6 Explosion-proof motor without cooling jacket

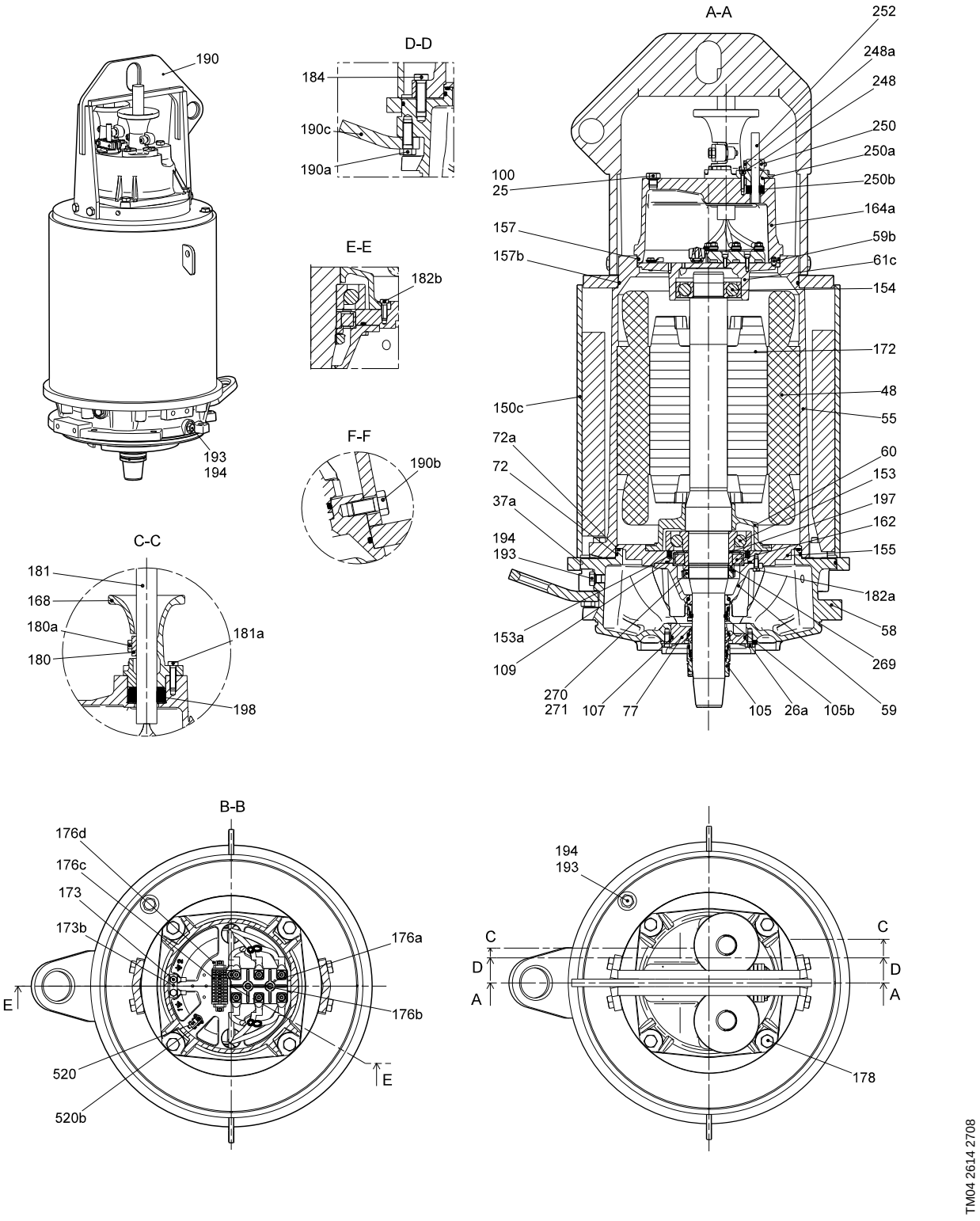


Fig. 7 Explosion-proof motor with cooling jacket

Sectional drawings, pumps

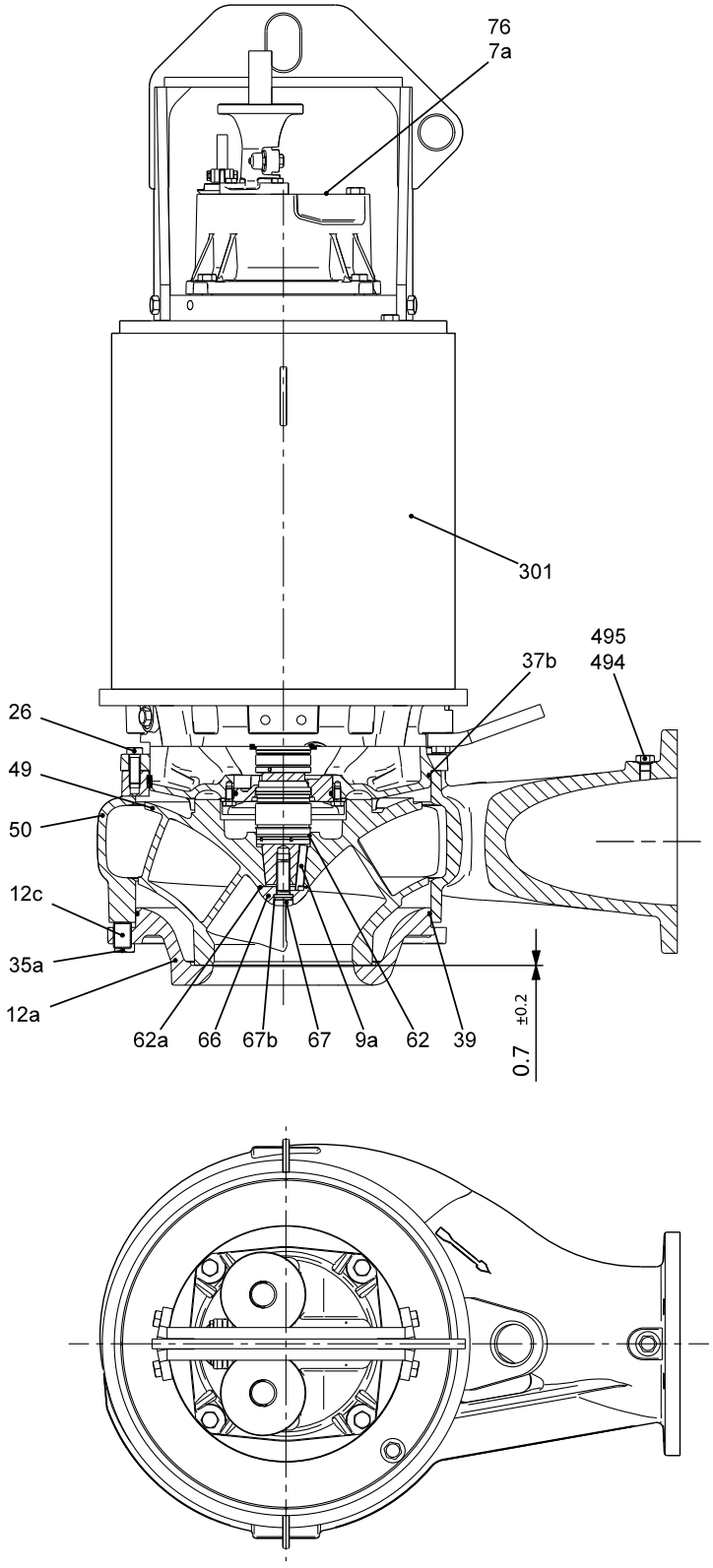


Fig. 8 Submerged installation pump with cooling jacket

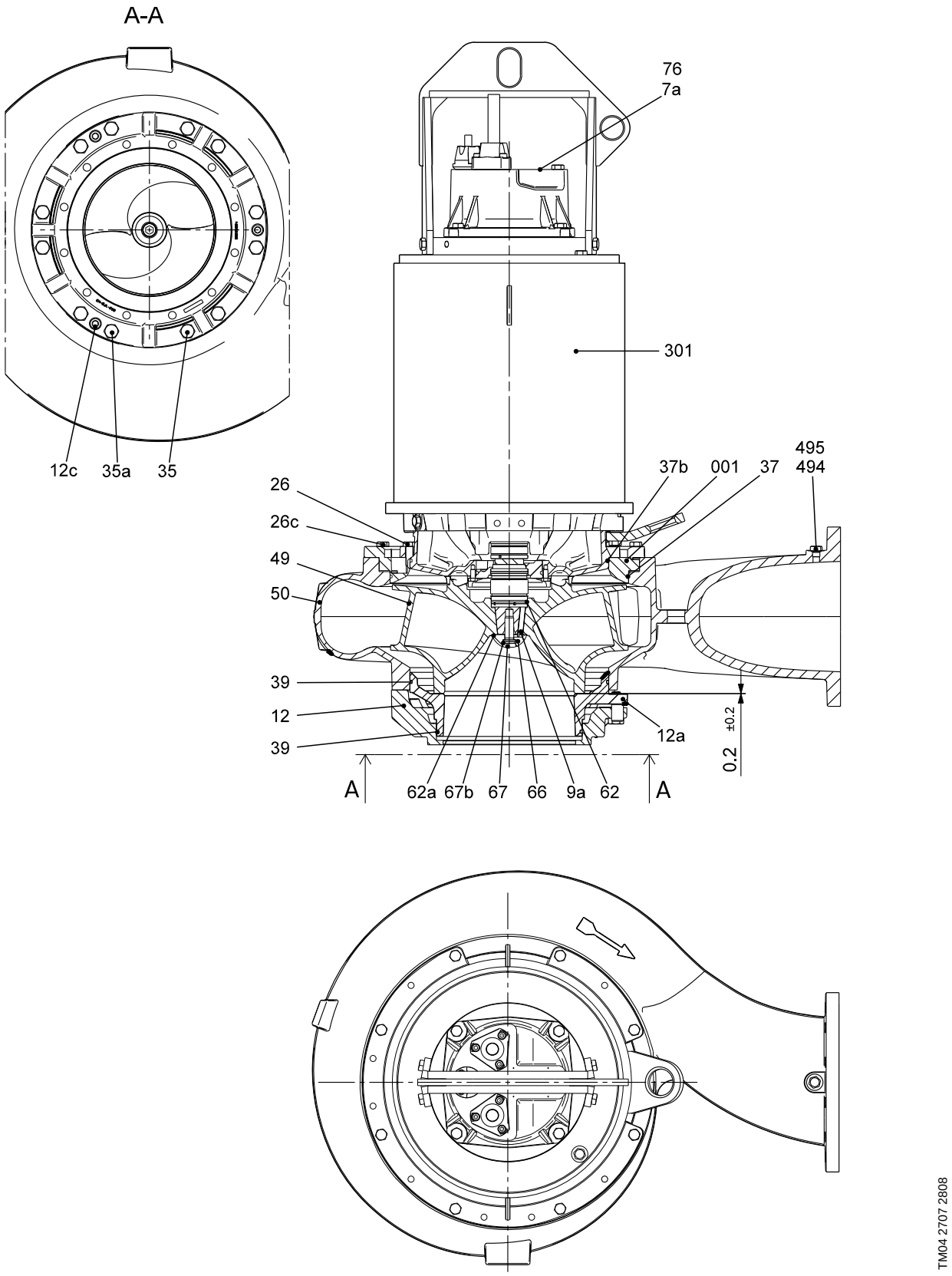


Fig. 9 Dry installation pump with cooling jacket

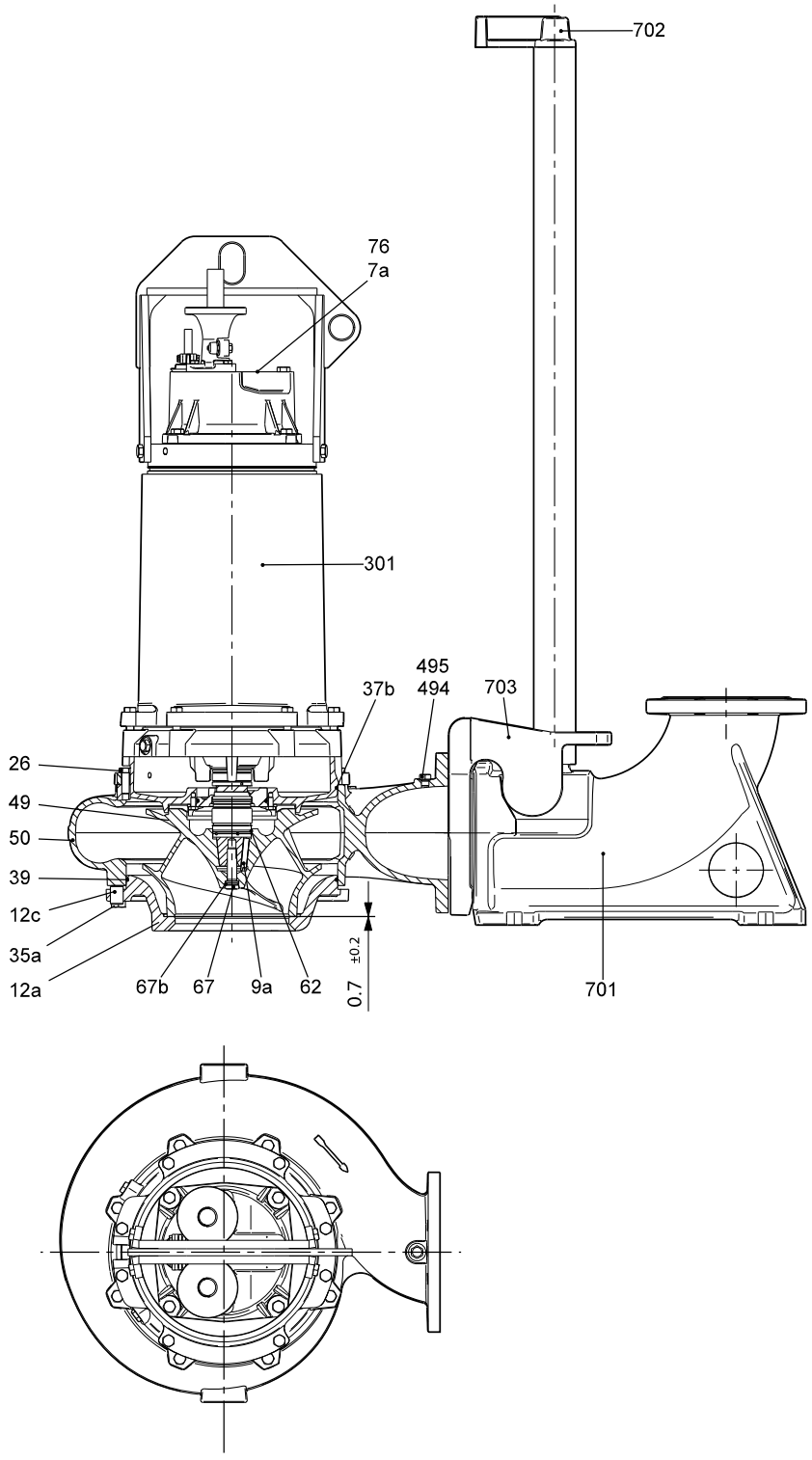
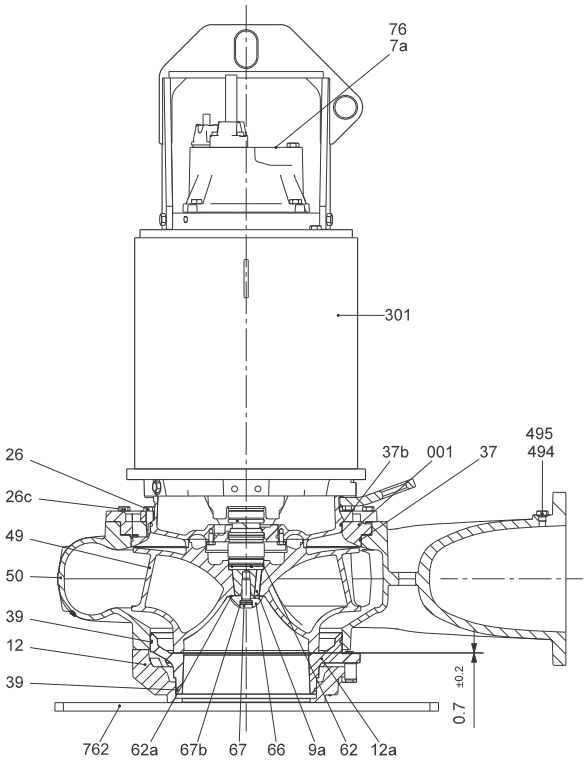


Fig. 10 Installation type S pump on auto coupling



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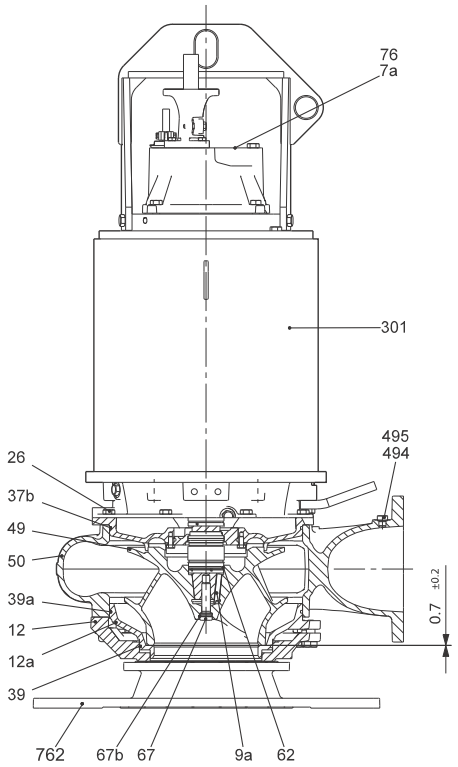

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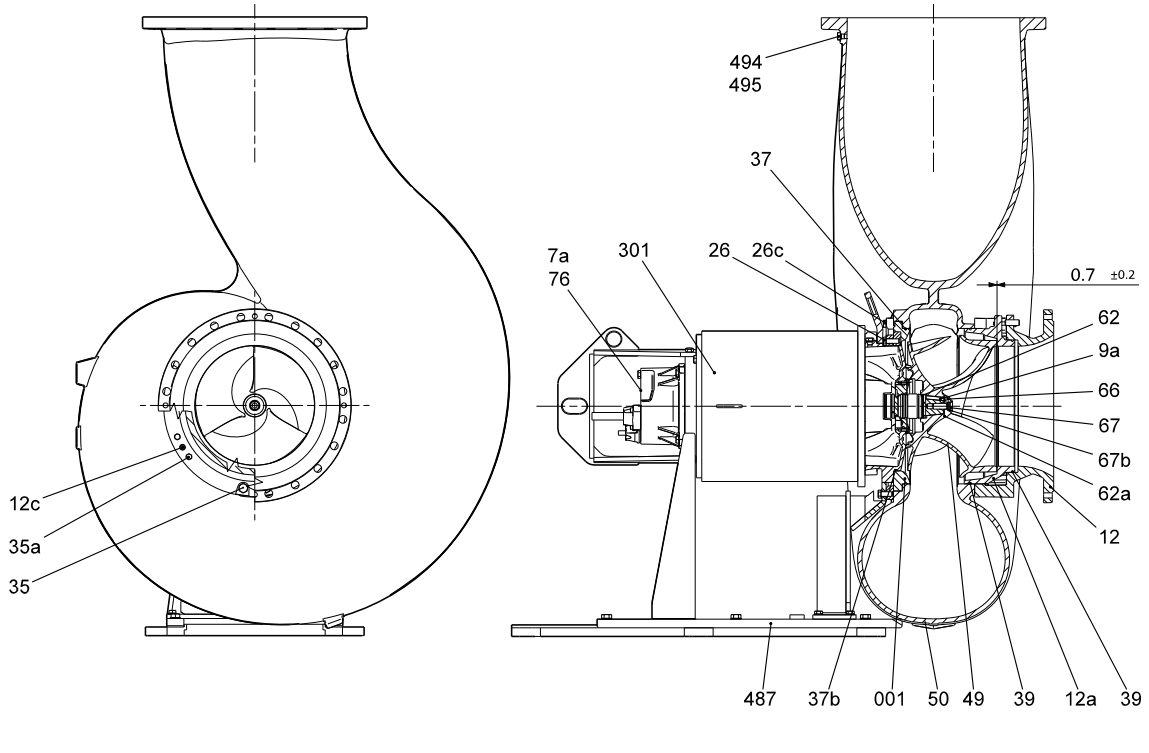
Fig. 11 Installation type D pump



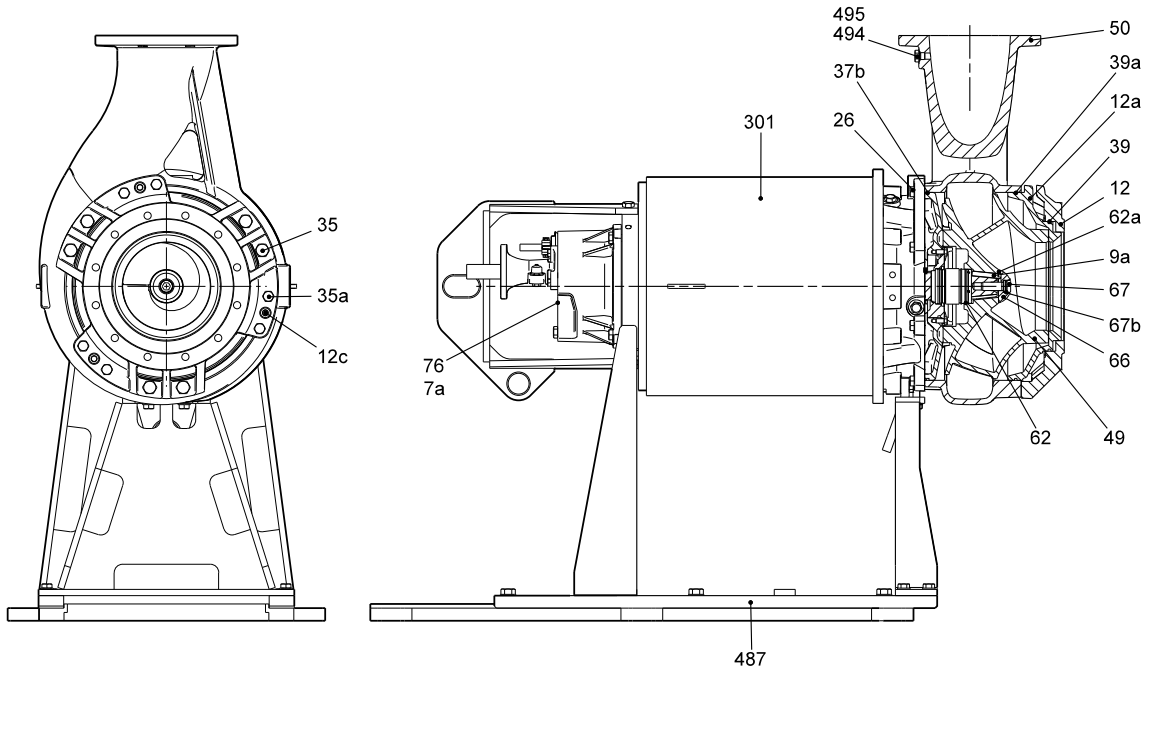


Fig. 12 Dry, horizontal, installation type H pump

Components and material specification

Motor

Pos.	Component	Material
7a	Rivet	Stainless steel (1.4436/316)
25a	Screw	Stainless steel (1.4436/316)
25	Pressure test plug	Stainless steel (1.4436/316)
48	Stator lamination	
**55	Stator housing	Cast iron (EN-JL 1040/A48 30)
58	Seal housing	Cast iron
60	Bearing bracket cover	Cast iron
61c	Upper bearing bracket	Cast iron
72a	O-ring	NBR rubber
72	O-ring	NBR rubber
76a	Approval plate	
100	O-ring	NBR rubber
105b	Mechanical seal	SiC/SiC or SiC/carbon
105	Mechanical seal	SiC/SiC or SiC/carbon
150c	Cooling jacket	Galvanized steel
153	Ball bearing	Stainless steel
154	Ball bearing	Stainless steel
**155	Lower bearing bracket	Cast iron
157b	O-ring	NBR rubber
157	O-ring	NBR rubber
**164a	Motor top cover	Cast iron
*168	Cable entry	PA or cast iron
172	Shaft with rotor	Stainless steel (1.4462/329)
173b	Earth terminal	
173c	Washer	Stainless steel (1.4436/316)
173e	Screw	Stainless steel (1.4436/316)
173f	Spring washer	Stainless steel (1.4436/316)
173g	Earth connector	
173	Screw	Stainless steel (1.4436/316)
176a	Terminal block	
176b	Screw	Stainless steel (1.4436/316)
176c	Terminal block	
176d	Terminal block	
178	Screw	Stainless steel (1.4436/316)
180	Cable clamp	PA or cast iron
181a	Screw	Stainless steel (1.4436/316)
181	Cable	ATON
182b	Hexagon socket head cap screw	Stainless steel (1.4436/316)
184b	Screw	Stainless steel (1.4436/316)
184	Screw	Stainless steel (1.4436/316)
187a	Washer	Stainless steel (1.4436/316)
187	Circlip	
188	Circlip	
190	Lifting bracket	Stainless steel (1.4408/316)
193	Plug	Stainless steel (1.4408/316)
194	O-ring	NBR rubber
197	Washer	Stainless steel (1.4436/316)
198	Rubber seal	
248	Screw	Stainless steel (1.4436/316)
250a	Cable entry	PA or cast iron
250b	Rubber seal	
250	Cable clamp	PA or cast iron
252	Cable	ATON
520a	Screw	Stainless steel (1.4436/316)
520b	Nut	Stainless steel (1.4436/316)
*520	Moisture switch	
522	Holder	

Pump

Pos.	Component	Material
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	Cast iron EN-JL 1050
**50	Volute casing	Cast iron EN-JS 1050
67	Impeller screw	Stainless steel (1.4436/316)
76	Nameplate	
301	Motor housing	
494	Plug	Stainless steel (1.4436/316)
495	O-ring	NBR rubber

Accessories

Pos.	Component	Material
**701	Auto-coupling base unit	Cast iron
**702	Guide rail bracket	Cast iron
**703	Guide claw	Cast iron
749	Bend	Cast iron
**761	Hose connector	Cast iron or stainless steel
762	Base plate	Cast iron or steel
487	Base stand, horizontal	Galvanized steel
799	Anchor bolt	

* Ex versions have cast iron cable entry and two moisture switches.

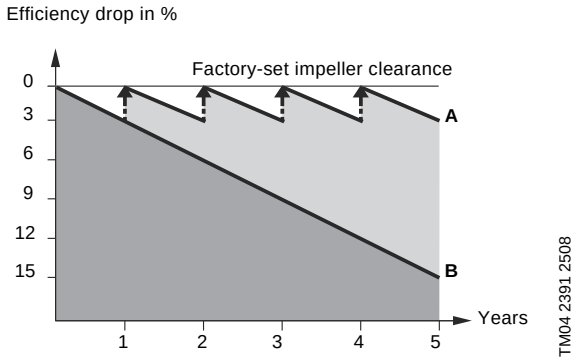
** Available of stainless steel (custom-built option).

Features

SmartTrim

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

All Grundfos heavy-duty channel-impeller pumps, whether for submerged or dry installation, are equipped with the unique SmartTrim impeller clearance adjustment system. This enables you to easily restore 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 on site, quickly and easily, without dismantling the pump and without using special tools.



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 discharge flange provides a completely leak-proof connection between the pump and the base unit of the auto-coupling system. 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 bearings: Double-row angular contact ball bearing

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

Shaft seal

The pumps have a shaft seal consisting of a primary and a secondary shaft seal.

The material combination of the primary shaft seal of all pump types is silicon carbide/silicon carbide. For the secondary shaft seal, the mateial combination is silicon carbide/carbon.

The shaft seals are placed in the oil chamber of the pump. The oil chamber provides reliable sealing between the pumped liquid and the motor.

The shaft seals have no springs or other parts in direct contact with the pumped liquid. This prevents rags and fibres from getting caught. The shaft seals are bidirectional, meaning that they can operate in either direction thus allowing for opposite rotation caused by back-flow of liquid through the pump.

Motor

The motor is a watertight, totally encapsulated motor with:

- insulation class F (155 °C)
- temperature rise class F (105 °C)
- enclosure class IP68.

For motor protection and sensors, see *Sensors* below.

Power cables

The pumps have H07RN-F AT cables as standard or screened ATON EMC VSCCB cables on request.

The cables are 10 m long as standard. Other cable lengths are available on request. See *List of variants* on page 22.

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

Motor power [kW]	Voltage	Cable
32 - 41	3 x 460 V	2 x 4 x 10 mm^2 + 7 x 1.5 mm^2
	3 x 380/660 V	2 x 4 x 16 mm^2 + 7 x 1.5 mm^2
57	3 x 460 V/3 x 380/660 V	2 x 4 x 16 mm^2 + 7 x 1.5 mm^2
73	3 x 460 V/3 x 380/660 V	2 x 4 x 25 mm^2 + 7 x 1.5 mm^2

Standard cable

Cable type [mm^2]	Outer cable diameter [mm]		Bending radius
	min.	max.	[cm]
4 x 10	20.9	23.4	14
4 x 16	23.8	26.3	16
4 x 25	28.9	31.4	19

EMC cable

Cable type [mm^2]	Outer cable diameter [mm]		Bending radius
	min.	max.	[cm]
3 x 10	17.8	19.8	9.9
3 x 16	20.9	22.9	11.5
3 x 35	28.3	31.3	15.7

Control cable

Cable type [mm^2]	Outer cable diameter [mm]		Bending radius
	min.	max.	[cm]
7 x 1.5	14.4	16.0 - 16.4	10

Cable entry

Watertight PA or cast iron cable entry with soft shape and sealing rings to prevent damage of the cable or leaks.

Sensors

As standard the pump is equipped with:

- Three thermal switches (Klixon), one in each phase.
- One moisture switch in terminal block.

Customised sensor options

1. WIO (water-in-oil) sensor
   The WIO sensor measures the water content in the oil and converts the value into an analogue current signal. The two sensor conductors are for power supply as well as for carrying the signal to the measuring device or controller. The sensor measures the water content from 0 to 20 %. It also sends a signal if the water content is outside the normal range (warning), or if there is air in the oil chamber (alarm). The sensor is fitted in a stainless steel tube for mechanical protection.
   The WIO sensor is connected to the Grundfos IO 111 module.
2. PVS 3 (pump vibration sensor)
   The vibration sensor monitors the vibration level of the pump. A change in the vibration level indicates an abnormal situation. The cause of this can be a clogged impeller, worn bearings, closed discharge valve, etc., indicating that service inspection should be carried out now in order to protect the pump or the pipe system from being damaged.
3. Bearing temperature sensor.

Testing

All pumps are tested before leaving the factory.
The factory test report is based on ISO 9906, Annex A.
Test reports can be ordered directly 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 *List of variants* on page 22.

Operating conditions

Pumps without cooling jacket in submerged installation:

- Continuous operation when pump is fully submerged to top of motor.
- Intermittent operation with max. 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
  Note: Explosion proof pumps must always be fully submerged

Pumps with cooling jacket in submerged and dry installation:

- Continuous and intermittent operation with max. 20 starts per hour with water level down to the top of the pump housing.

Pumped liquids

pH value: 4-10

Liquid temperature: 0 °C - +40 °C

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

Sound pressure

The sound pressure level of the pump is lower than the limiting values stated in the EC Council directive 98/37/EC relating to machinery (the EC Machinery Directive).

Motor range

Shaft power[kW]	No. of poles
50	8
58	4
65	8
68	4
80	6
85	4
100	6
115	4
130	6
155	4

Explosion-proof pumps

Use explosion-proof pumps in potentially explosive environments. The explosion protection classification of the pumps is Ex c d IIB T3. The Ex d IIB T4 protection classification is available on request. Operation of the pump via a frequency converter requires temperature class T3. All installations must be approved by the local authorities.

Pump controllers

S pumps, range 70, can be controlled by the following LC and LCD pump controllers:

- LC 107, LCD 107 with level pickups
- LC 108, LCD 108 with float switches
- LC 110, LCD 110 with level electrodes.

LC controllers are for single-pump installations; LCD controllers are for two-pump installations.

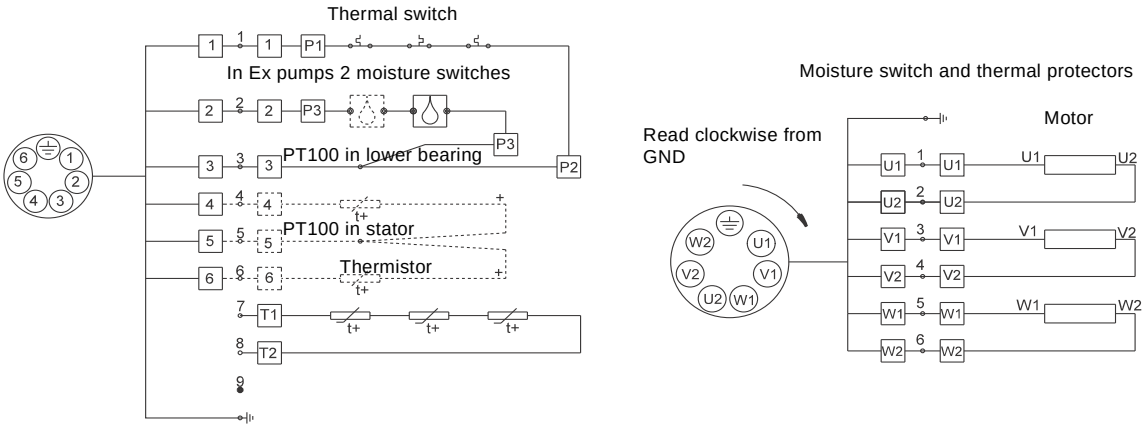
In the following description, “level switch” means level pickup, float switch or level electrode, depending on the pump controller selected.

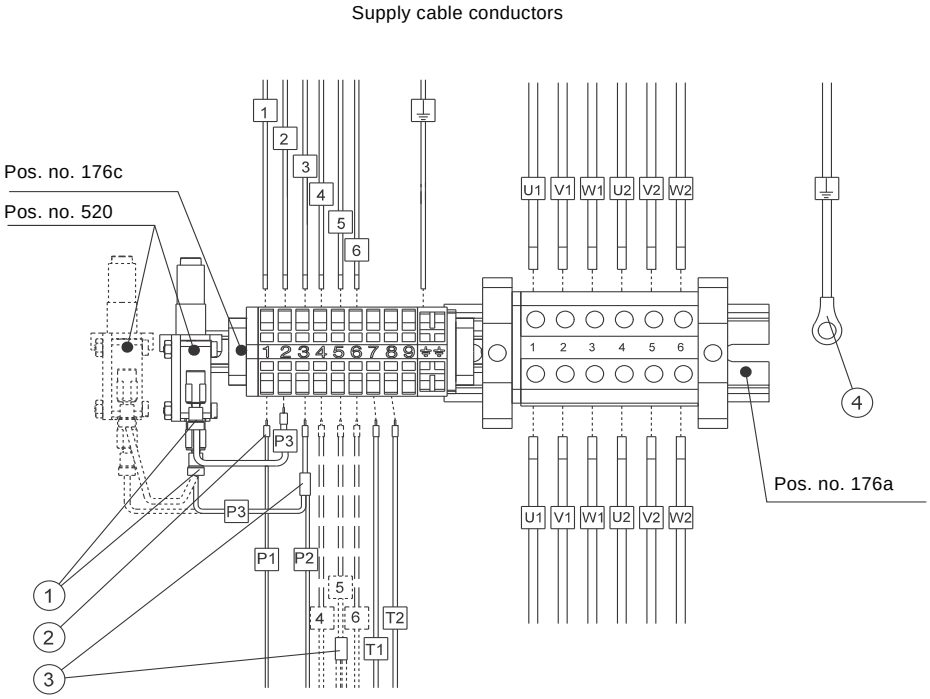
The LC controller is fitted with two or three level switches: One for start and one for stop of pump. The third - optional - level switch, is for high-level alarm.

The LCD controller is fitted with three or four level switches: Two for start of the pumps and one for common stop. The fourth - optional - level switch, is for high-level alarm.

For further settings, see the installation and operating instructions for the pump controller selected.

Wiring diagrams





Item	Description
1	Female push-on connector
2	Wire pin
3	Butt splice
4	Ring connector

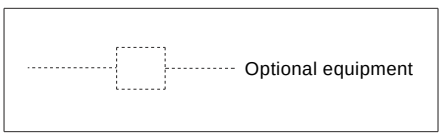


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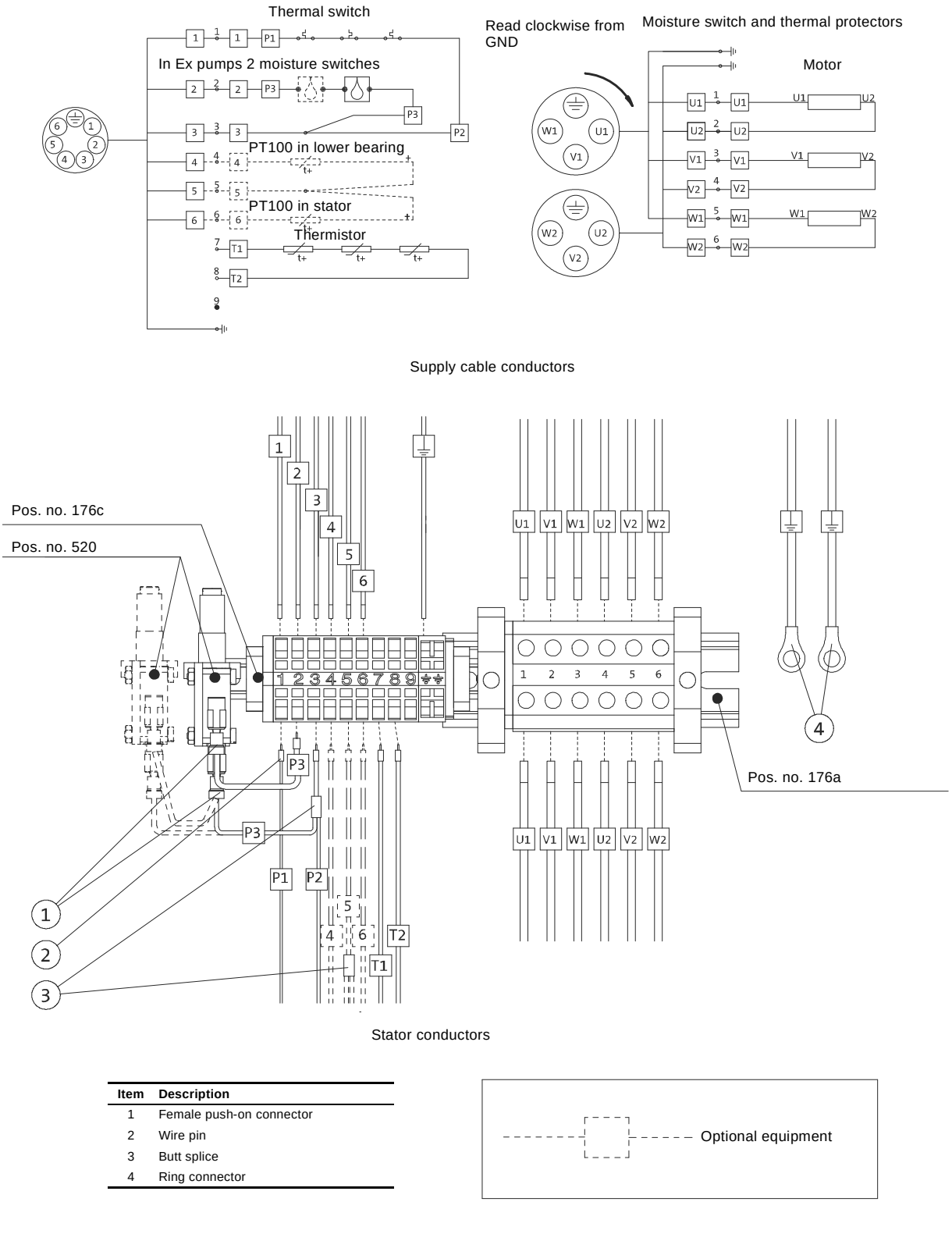
Fig. 13 Wiring diagrams, pumps with one power cable



Item	Description
1	Female push-on connector
2	Wire pin
3	Butt splice
4	Ring connector

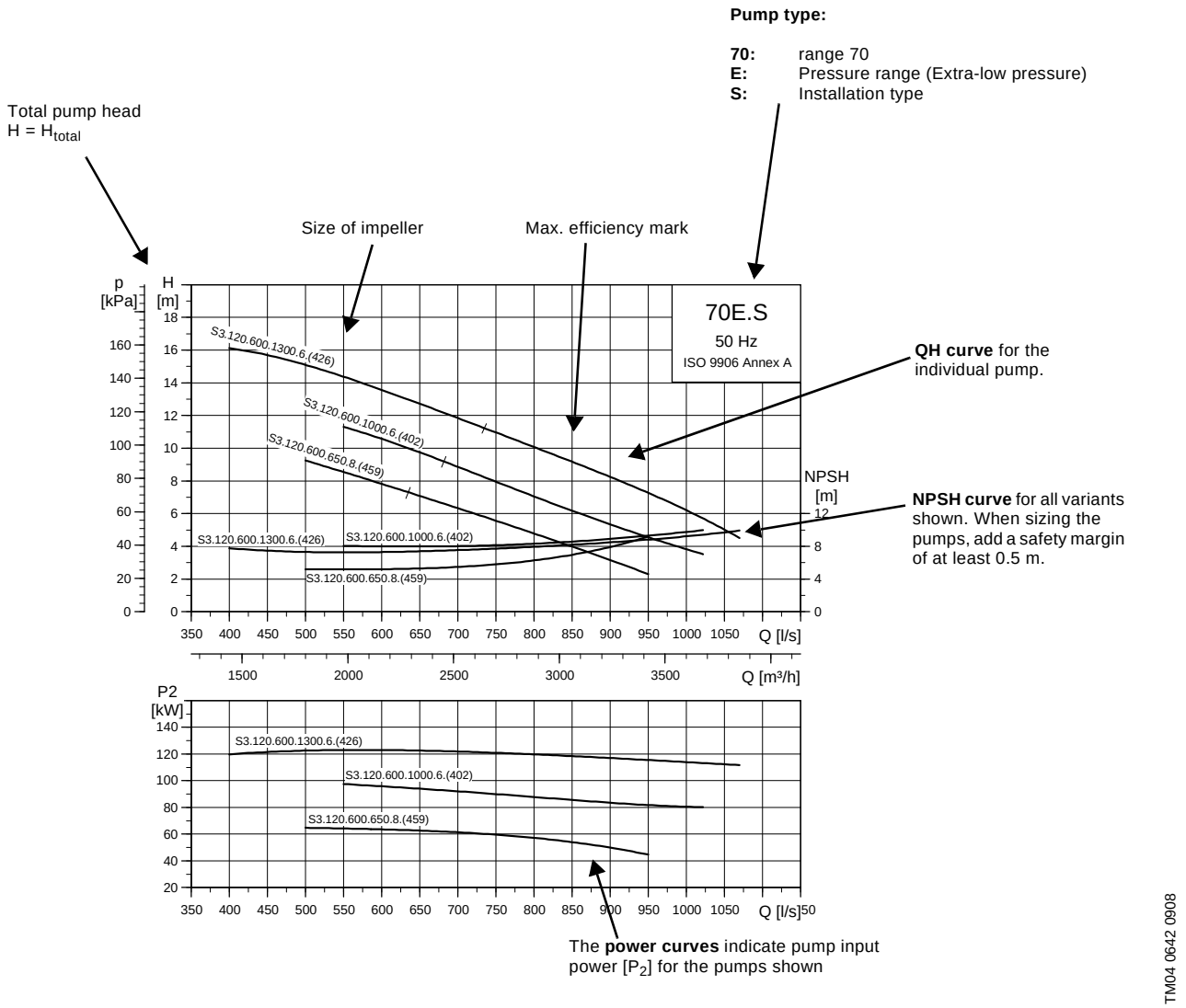
Fig. 14 Wiring diagrams, pumps with two power cables

Curve charts and technical data

The following many pages are divided into sections:

Performance curves and technical data:

How to read the curve charts



Curve conditions

The guidelines below apply to the curves shown in the performance charts on page 40 to page 83.

- Tolerances according to: ISO 9906, Annex A.
- The curves show pump performance with different impeller diameters at rated speed.
- The **bold** part of the curves show the **recommended** operating range.
- The curves apply to the pumping of airless water at a temperature of +20 °C and a kinematic viscosity of 1 mm^2/s (1 cSt).
- **ETA:** The lines show values of the hydraulic efficiency of the pump for the different impeller diameters.
- **NPSH:** The curves show average values measured under the same conditions as the performance curves.
  When dimensioning the pump, add a safety margin of at least 0.5 m.
- In case of other densities than 1000 kg/m^3, the discharge pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m^3, motors with correspondingly higher outputs must be used.

Calculation of total head

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

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

H_{geo}: Height difference between measuring points.

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

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

Performance tests

The requested duty point for every pump is tested according to ISO 9906, Annex A, and without certification.

In case of pumps ordered on the basis of impeller diameter only (no requested duty point), the pump will be tested at a duty point which is 2/3 of the maximum flow of the published performance curve which is related to the ordered impeller diameter (according to ISO 9906, Annex A).

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.

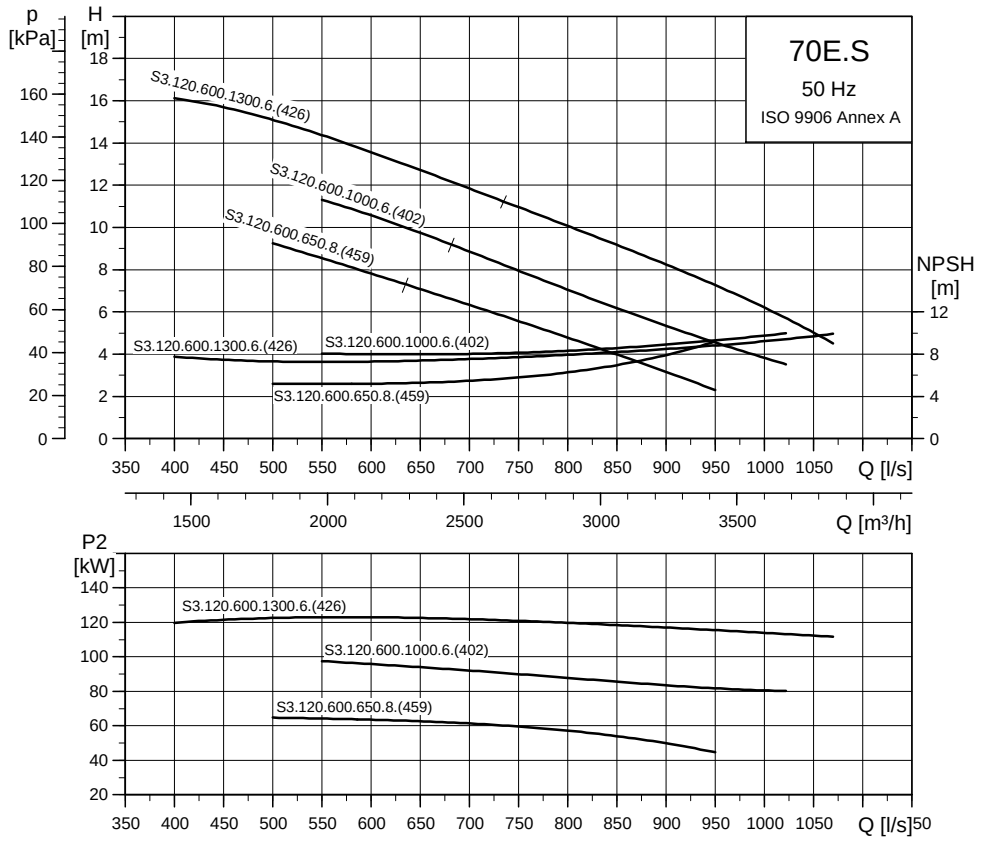
Witness test

When the pumps are being tested or are tested with a certification it is possible for the customer to witness the testing procedure according to ISO 9906.

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

If the customer wants to witness test the pump performance, place this request on the order.

Extra-low pressure - 3 x 400/690 V



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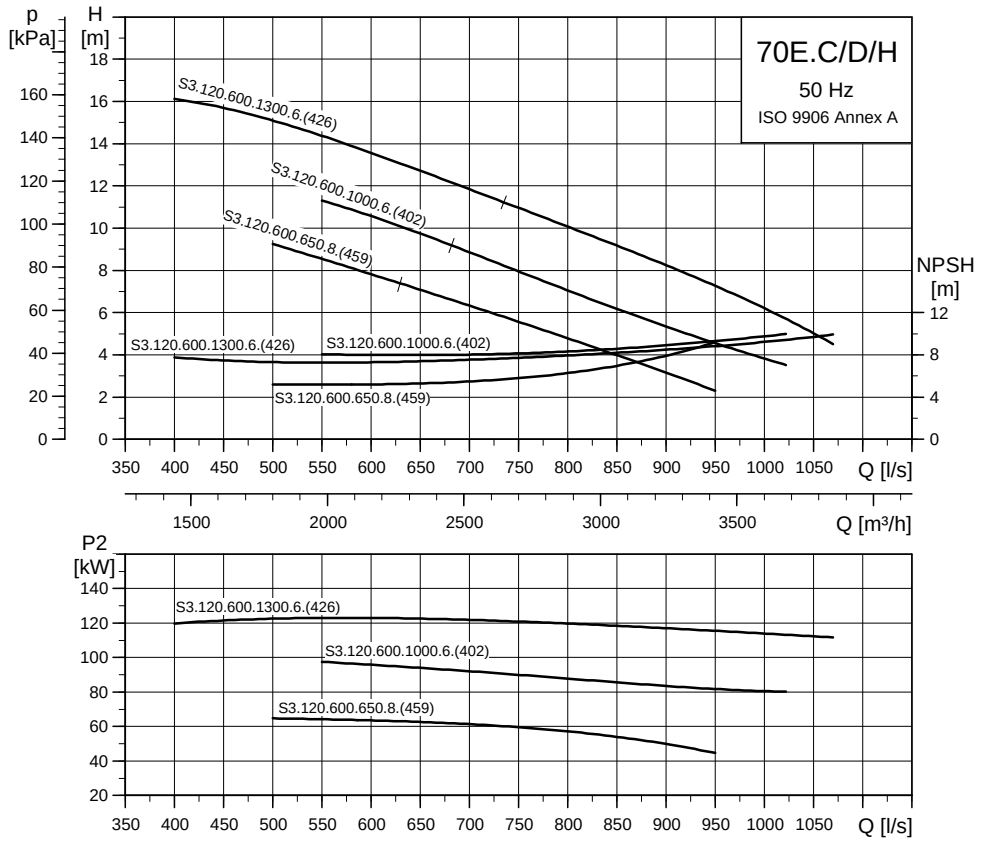

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Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.120.600.650.8.70E.S.459.G.N.D	S	1911	2124	886	1350	1506	450	-	600	1700	95112942
S3.120.600.650.8.70E.C.459.G.N.D	C	1911	2124	886	1350	1506	450	-	600	1900	95112943
S3.120.600.650.8.70E.D.459.G.N.D	D	1877	2124	886	1350	1506	417	DN 500	600	1900	95112944
S3.120.600.650.8.70E.H.459.G.N.D	H	1877	2124	886	1350	1506	417	DN 500	600	1900	96796948
S3.120.600.1000.6.70E.S.402.G.N.D	S	1911	2124	886	1350	1506	450	-	600	1800	95112957
S3.120.600.1000.6.70E.C.402.G.N.D	C	1911	2124	886	1350	1506	450	-	600	2000	95112958
S3.120.600.1000.6.70E.D.402.G.N.D	D	1877	2124	886	1350	1506	417	DN 500	600	2000	95112959
S3.120.600.1000.6.70E.H.402.G.N.D	H	1877	2124	886	1350	1506	417	DN 500	600	2000	96796983
S3.120.600.1300.6.70E.S.426.G.N.D	S	2066	2124	886	1350	1506	450	-	600	1800	95112966
S3.120.600.1300.6.70E.C.426.G.N.D	C	2066	2124	886	1350	1506	450	-	600	2200	95112967
S3.120.600.1300.6.70E.D.426.G.N.D	D	2032	2124	886	1350	1506	417	DN 500	600	2000	95112968
S3.120.600.1300.6.70E.H.426.G.N.D	H	2032	2124	886	1350	1506	417	DN 500	600	2000	96797003

With 10 m cable

Electrical data

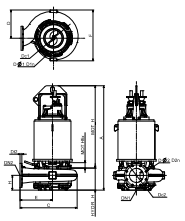
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S3.120.600.650.8.70E.S.459.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	4.5743	2135
S3.120.600.650.8.70E.C.459.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	4.5743	2135
S3.120.600.650.8.70E.D.459.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	4.5743	2135
S3.120.600.650.8.70E.H.459.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	4.5743	2135
S3.120.600.1000.6.70E.S.402.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	4.033	2090
S3.120.600.1000.6.70E.C.402.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	4.033	2090
S3.120.600.1000.6.70E.D.402.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	4.033	2090
S3.120.600.1000.6.70E.H.402.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	4.033	2090
S3.120.600.1300.6.70E.S.426.G.N.D	141	130	6	982	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.1093	3273
S3.120.600.1300.6.70E.C.426.G.N.D	141	130	6	982	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.1093	3273
S3.120.600.1300.6.70E.D.426.G.N.D	141	130	6	982	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.1093	3273
S3.120.600.1300.6.70E.H.426.G.N.D	141	130	6	982	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.1093	3273

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.120.600.650.8.70E.S.459.G.N.D	459	120	10	20
S3.120.600.650.8.70E.C.459.G.N.D	459	120	10	20
S3.120.600.650.8.70E.D.459.G.N.D	459	120	10	20
S3.120.600.650.8.70E.H.459.G.N.D	459	120	10	20
S3.120.600.1000.6.70E.S.402.G.N.D	402	120	10	20
S3.120.600.1000.6.70E.C.402.G.N.D	402	120	10	20
S3.120.600.1000.6.70E.D.402.G.N.D	402	120	10	20
S3.120.600.1000.6.70E.H.402.G.N.D	402	120	10	20
S3.120.600.1300.6.70E.S.426.G.N.D	436	120	10	20
S3.120.600.1300.6.70E.C.426.G.N.D	436	120	10	20
S3.120.600.1300.6.70E.D.426.G.N.D	436	120	10	20
S3.120.600.1300.6.70E.H.426.G.N.D	436	120	10	20

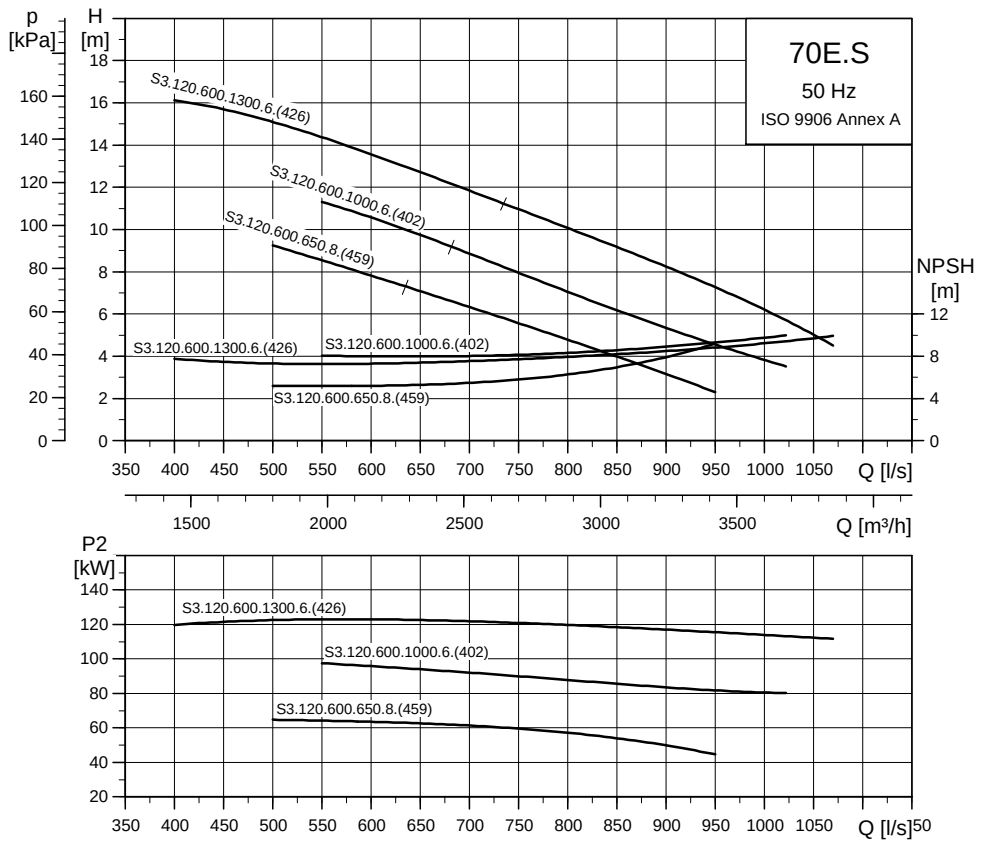
Dimensional sketches



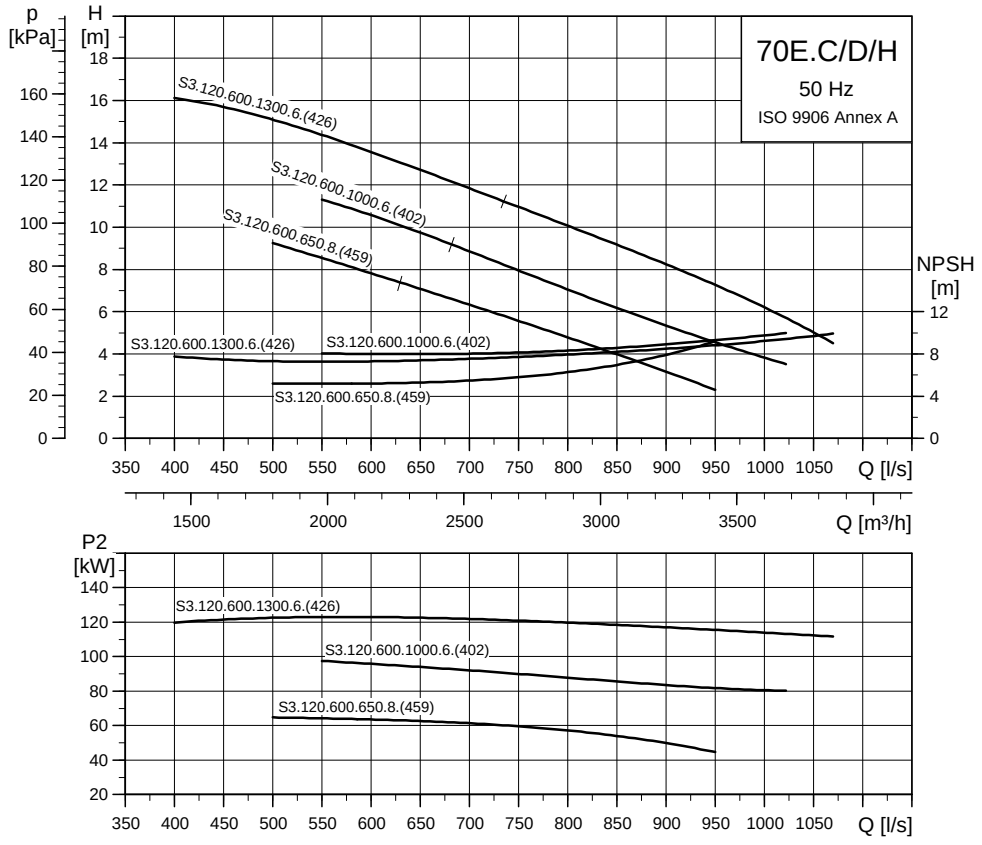
TM04 2412 2508

Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Extra-low pressure - 3 x 415 V



TM04 0683 0908



TM04 0684 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.120.600.650.8.70E.S.459.G.N.D	S	1911	2124	886	1350	1506	450	-	600	1700	96796945
S3.120.600.650.8.70E.C.459.G.N.D	C	1911	2124	886	1350	1506	450	-	600	1900	96796946
S3.120.600.650.8.70E.D.459.G.N.D	D	1877	2124	886	1350	1506	417	DN 500	600	1900	96796947
S3.120.600.650.8.70E.H.459.G.N.D	H	1877	2124	886	1350	1506	417	DN 500	600	1900	96796949
S3.120.600.1000.6.70E.S.402.G.N.D	S	1911	2124	886	1350	1506	450	-	600	1800	96796980
S3.120.600.1000.6.70E.C.402.G.N.D	C	1911	2124	886	1350	1506	450	-	600	2000	96796981
S3.120.600.1000.6.70E.D.402.G.N.D	D	1877	2124	886	1350	1506	417	DN 500	600	2000	96796982
S3.120.600.1000.6.70E.H.402.G.N.D	H	1877	2124	886	1350	1506	417	DN 500	600	2000	96796984
S3.120.600.1300.6.70E.S.426.G.N.D	S	2066	2124	886	1350	1506	450	-	600	1800	96797000
S3.120.600.1300.6.70E.C.426.G.N.D	C	2066	2124	886	1350	1506	450	-	600	2200	96797001
S3.120.600.1300.6.70E.D.426.G.N.D	D	2032	2124	886	1350	1506	417	DN 500	600	2000	96797002
S3.120.600.1300.6.70E.H.426.G.N.D	H	2032	2124	886	1350	1506	417	DN 500	600	2000	96797004

With 10 m cable

Electrical data

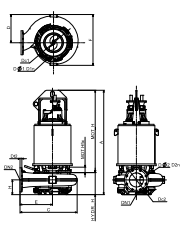
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S3.120.600.650.8.70E.S.459.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	4.5743	2135
S3.120.600.650.8.70E.C.459.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	4.5743	2135
S3.120.600.650.8.70E.D.459.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	4.5743	2135
S3.120.600.650.8.70E.H.459.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	4.5743	2135
S3.120.600.1000.6.70E.S.402.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	4.033	2090
S3.120.600.1000.6.70E.C.402.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	4.033	2090
S3.120.600.1000.6.70E.D.402.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	4.033	2090
S3.120.600.1000.6.70E.H.402.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	4.033	2090
S3.120.600.1300.6.70E.S.426.G.N.D	141	130	6	982	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.1093	3273
S3.120.600.1300.6.70E.C.426.G.N.D	141	130	6	982	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.1093	3273
S3.120.600.1300.6.70E.D.426.G.N.D	141	130	6	982	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.1093	3273
S3.120.600.1300.6.70E.H.426.G.N.D	141	130	6	982	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.1093	3273

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.120.600.650.8.70E.S.459.G.N.D	459	120	10	20
S3.120.600.650.8.70E.C.459.G.N.D	459	120	10	20
S3.120.600.650.8.70E.D.459.G.N.D	459	120	10	20
S3.120.600.650.8.70E.H.459.G.N.D	459	120	10	20
S3.120.600.1000.6.70E.S.402.G.N.D	402	120	10	20
S3.120.600.1000.6.70E.C.402.G.N.D	402	120	10	20
S3.120.600.1000.6.70E.D.402.G.N.D	402	120	10	20
S3.120.600.1000.6.70E.H.402.G.N.D	402	120	10	20
S3.120.600.1300.6.70E.S.426.G.N.D	436	120	10	20
S3.120.600.1300.6.70E.C.426.G.N.D	436	120	10	20
S3.120.600.1300.6.70E.D.426.G.N.D	436	120	10	20
S3.120.600.1300.6.70E.H.426.G.N.D	436	120	10	20

Dimensional sketches



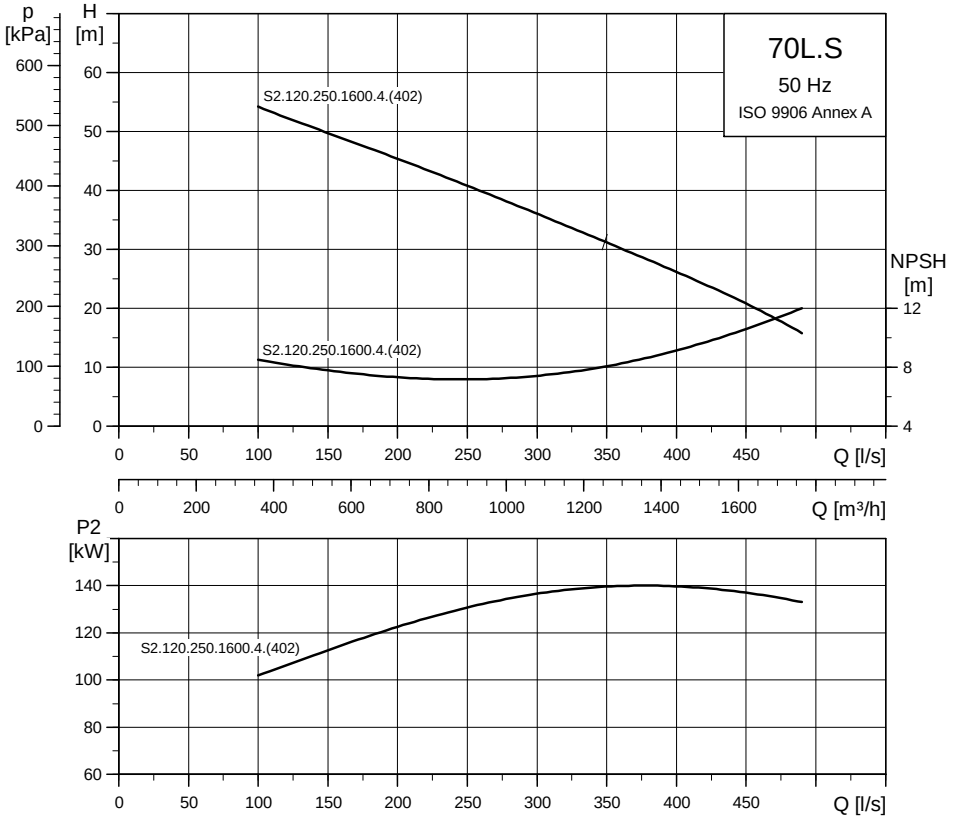
TM04 2412 2508

Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

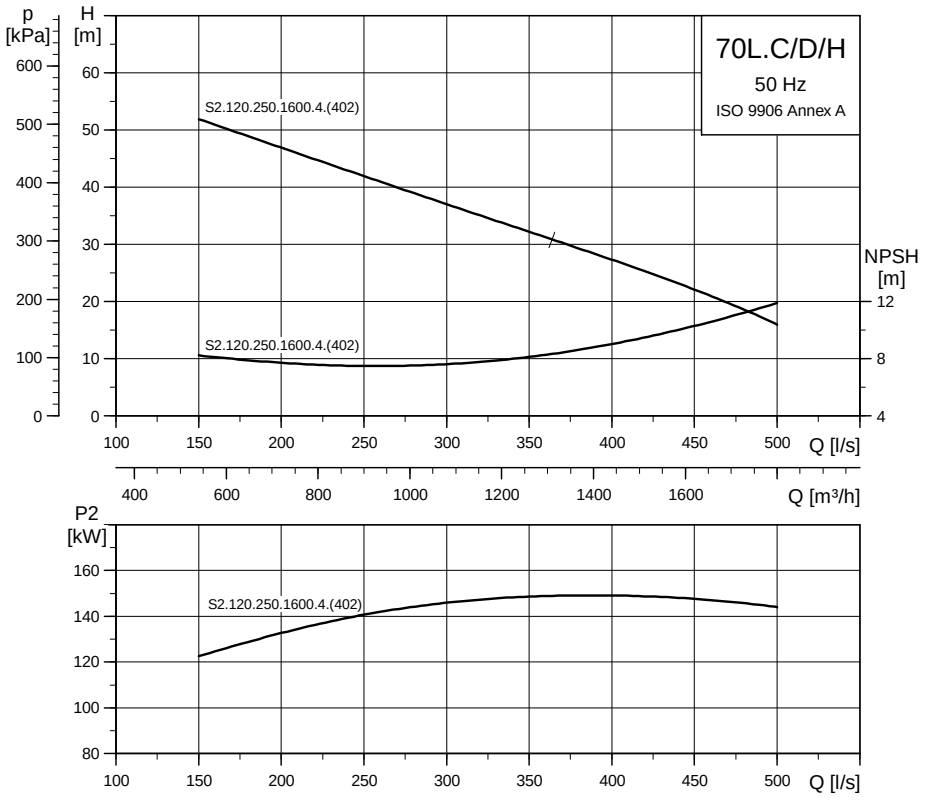
Performance curves

Low pressure - 3 x 400/690 V

S2.120.250.1600



TM04 0689 0908



TM04 0690 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.120.250.1600.4.70L.S.402.G.N.D	S	1825	1068	410	750	730	233	-	250	1430	95112918
S2.120.250.1600.4.70L.C.402.G.N.D	C	1825	1068	410	750	730	233	-	250	1480	95112919
S2.120.250.1600.4.70L.D.402.G.N.D	D	1825	1068	410	750	730	233	DN 300	250	1480	95112920
S2.120.250.1600.4.70L.H.402.G.N.D	H	1825	1068	410	750	730	233	DN 300	250	1480	96797028

With 10 m cable

Electrical data

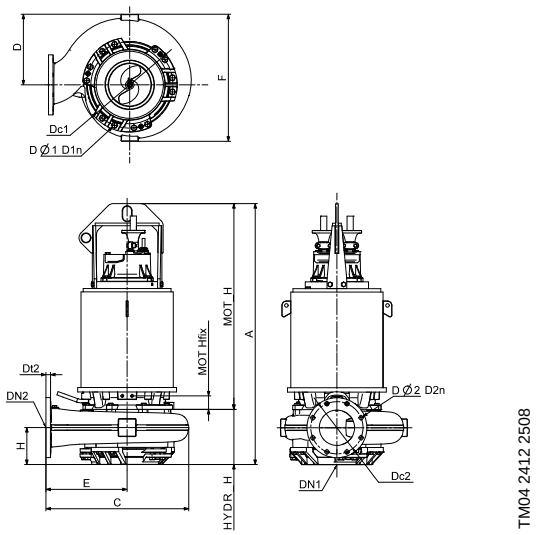
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S2.120.250.1600.4.70L.S.402.G.N.D	167	155	4	1468	Y/D	280	2098	94	94	93	0.72	0.82	0.86	2.581	3414
S2.120.250.1600.4.70L.C.402.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	2.581	3414
S2.120.250.1600.4.70L.D.402.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	2.581	3414
S2.120.250.1600.4.70L.H.402.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	2.581	3414

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.120.250.1600.4.70L.S.402.G.N.D	402	120	10	20
S2.120.250.1600.4.70L.C.402.G.N.D	402	120	10	20
S2.120.250.1600.4.70L.D.402.G.N.D	402	120	10	20
S2.120.250.1600.4.70L.H.402.G.N.D	402	120	10	20

Dimensional sketches

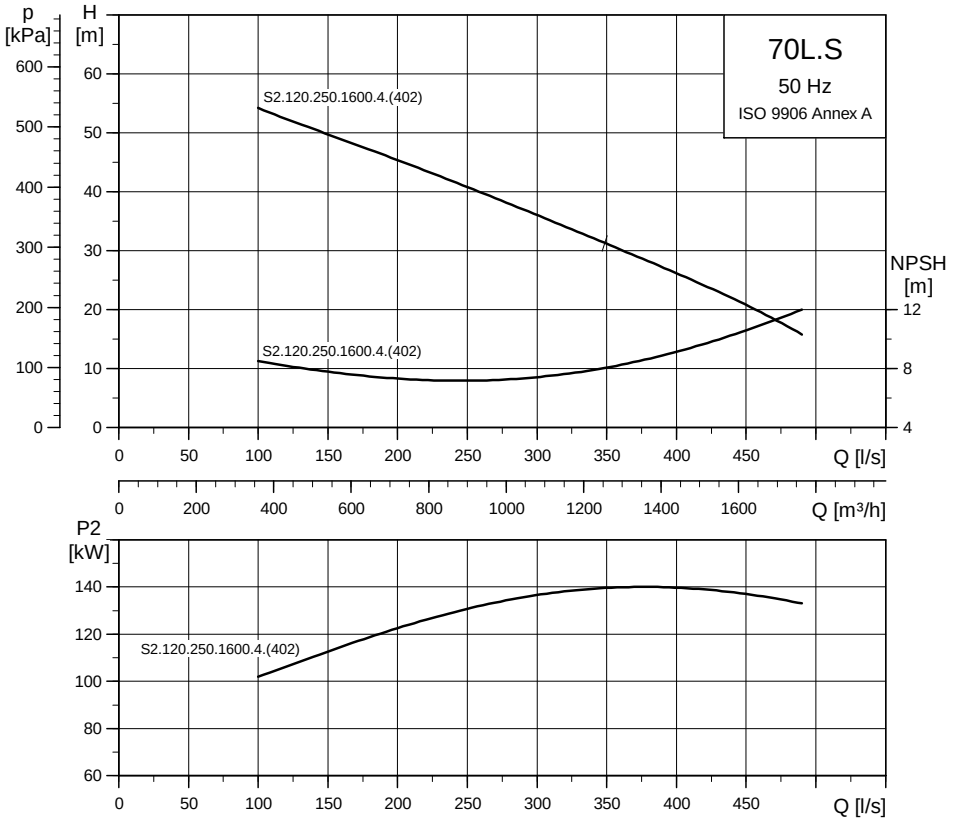


Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

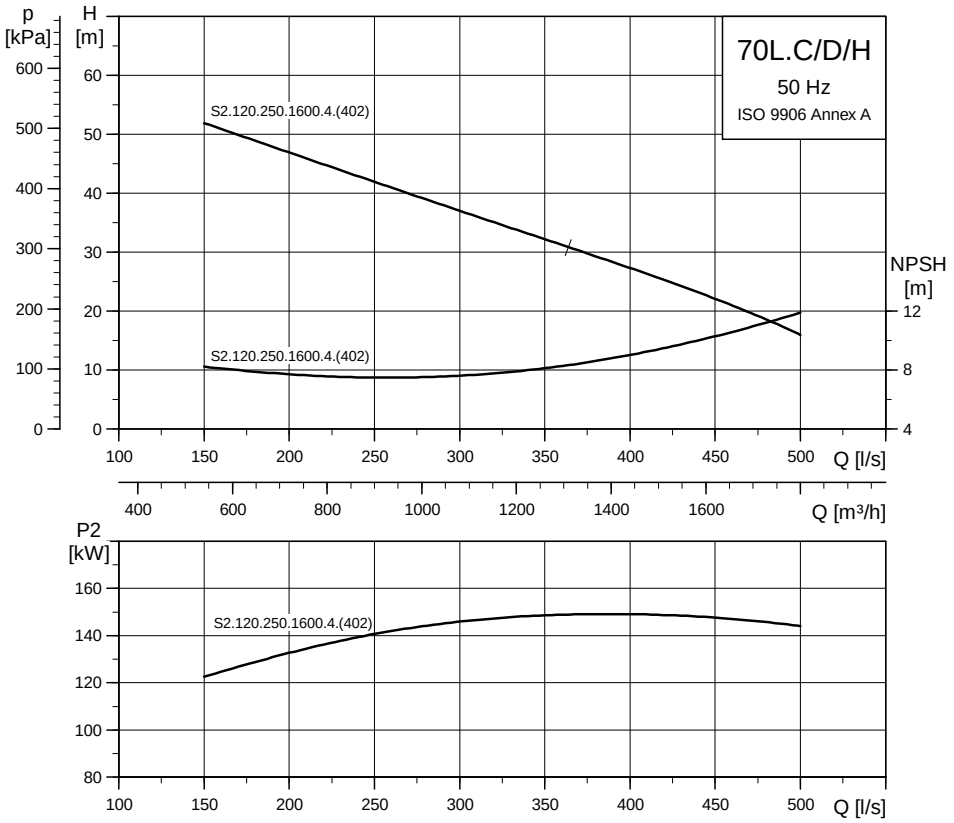
Performance curves

Low pressure - 3 x 415 V

S2.120.250.1600



TM04 0689 0908



TM04 0690 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.120.250.1600.4.70L.S.402.G.N.D	S	1825	1068	410	750	730	233	-	250	1430	96797025
S2.120.250.1600.4.70L.C.402.G.N.D	C	1825	1068	410	750	730	233	-	250	1480	96797026
S2.120.250.1600.4.70L.D.402.G.N.D	D	1825	1068	410	750	730	233	DN 300	250	1480	96797027
S2.120.250.1600.4.70L.H.402.G.N.D	H	1825	1068	410	750	730	233	DN 300	250	1480	96797029

With 10 m cable

Electrical data

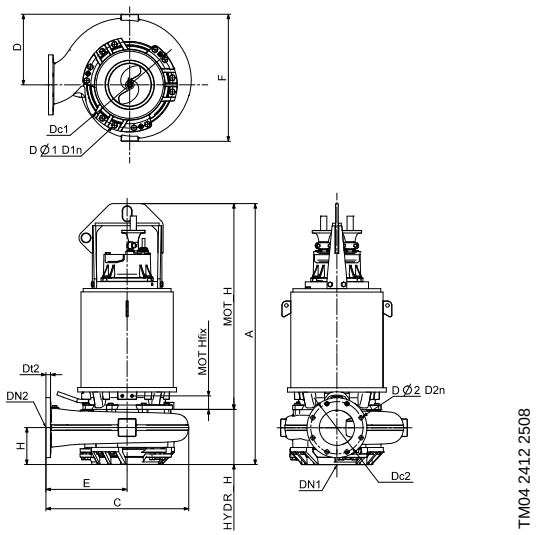
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S2.120.250.1600.4.70L.S.402.G.N.D	167	155	4	1468	Y/D	270	2022	94	94	93	0.72	0.82	0.86	2.581	3414
S2.120.250.1600.4.70L.C.402.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	2.581	3414
S2.120.250.1600.4.70L.D.402.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	2.581	3414
S2.120.250.1600.4.70L.H.402.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	2.581	3414

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.120.250.1600.4.70L.S.402.G.N.D	402	120	10	20
S2.120.250.1600.4.70L.C.402.G.N.D	402	120	10	20
S2.120.250.1600.4.70L.D.402.G.N.D	402	120	10	20
S2.120.250.1600.4.70L.H.402.G.N.D	402	120	10	20

Dimensional sketches

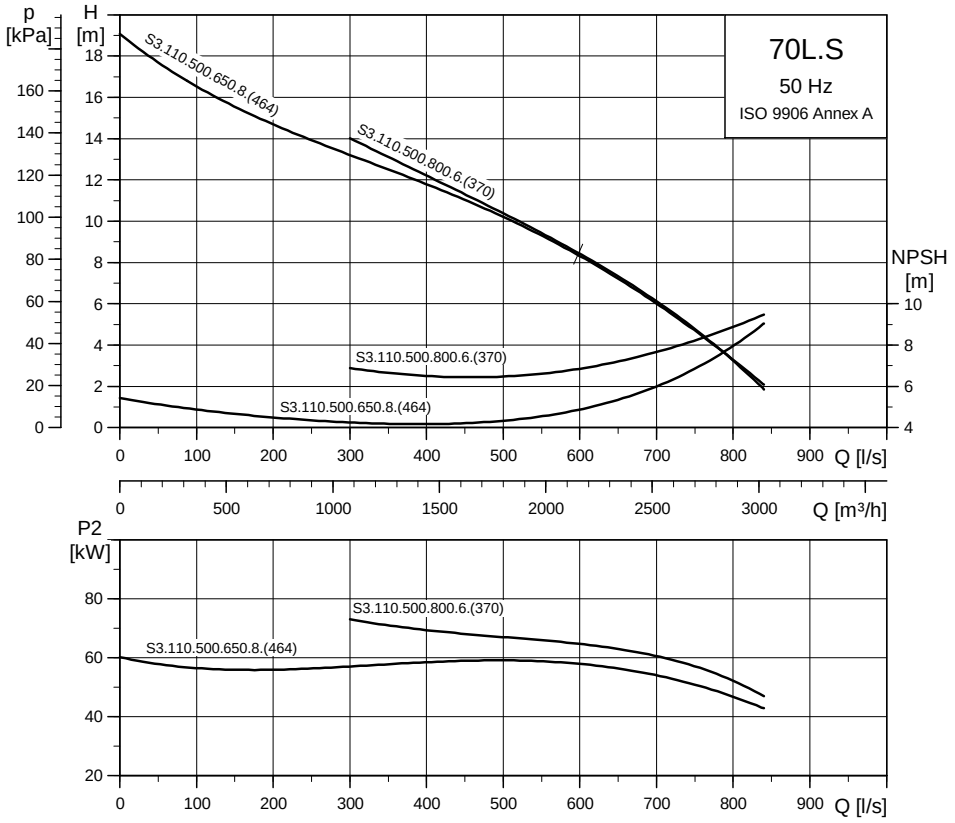


TM04 2412 2508

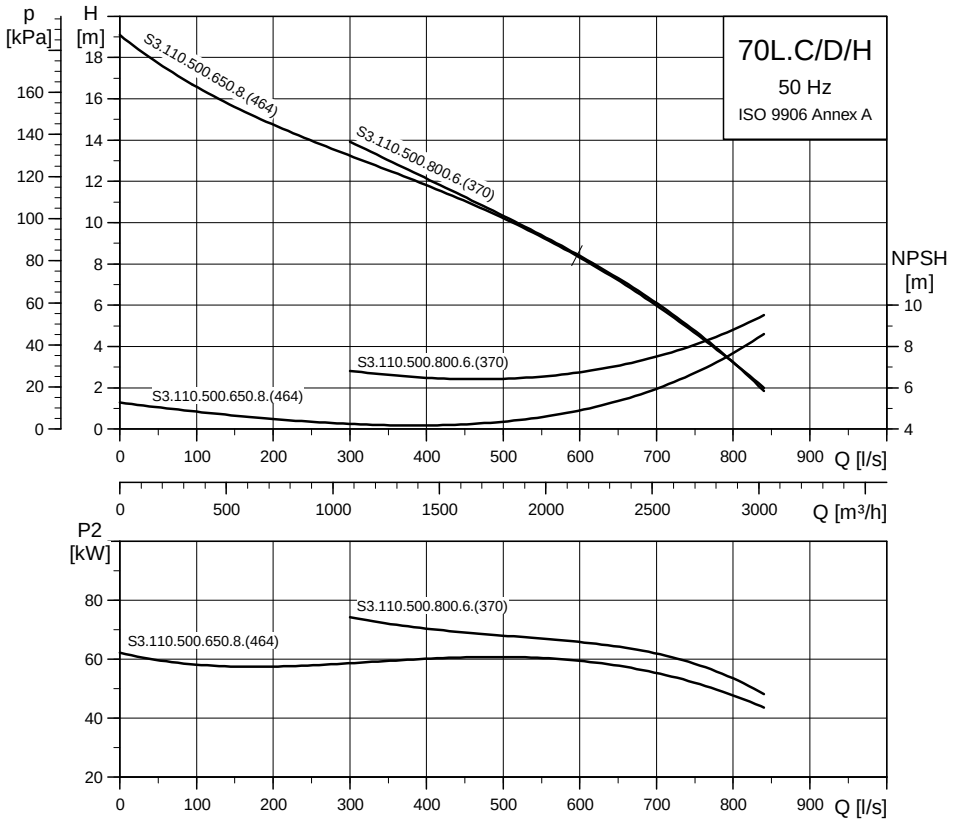
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Low pressure - 3 x 400/690 V

S3.110.500.650 and S3.110.500.800



TM04 0687 0908



TM04 0688 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.110.500.650.8.70L.S.464.G.N.D	S	1830	1843	719	1200	1269	380	-	500	1500	95112936
S3.110.500.650.8.70L.C.464.G.N.D	C	1830	1843	719	1200	1269	380	-	500	1590	95112937
S3.110.500.650.8.70L.D.464.G.N.D	D	1783	1843	719	1200	1269	333	DN 500	500	1590	95112938
S3.110.500.650.8.70L.H.464.G.N.D	H	1783	1843	719	1200	1269	333	DN 500	500	1590	96796938
S3.110.500.800.6.70L.S.370.G.N.D	S	1830	1843	719	1200	1269	380	-	500	1350	95112945
S3.110.500.800.6.70L.C.370.G.N.D	C	1830	1843	719	1200	1269	380	-	500	1520	95112946
S3.110.500.800.6.70L.D.370.G.N.D	D	1783	1843	719	1200	1269	333	DN 500	500	1520	95112947
S3.110.500.800.6.70L.H.370.G.N.D	H	1783	1843	719	1200	1269	333	DN 500	500	1520	96796958

With 10 m cable

Electrical data

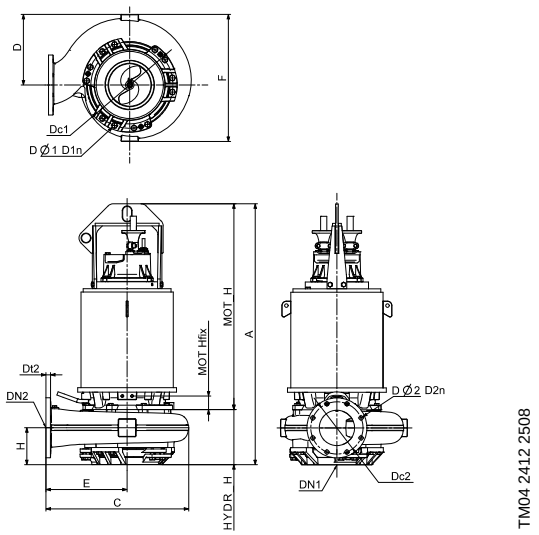
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S3.110.500.650.8.70L.S.464.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	5.0323	2135
S3.110.500.650.8.70L.C.464.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	5.0323	2135
S3.110.500.650.8.70L.D.464.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	5.0323	2135
S3.110.500.650.8.70L.H.464.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	5.0323	2135
S3.110.500.800.6.70L.S.370.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.527	2090
S3.110.500.800.6.70L.C.370.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.527	2090
S3.110.500.800.6.70L.D.370.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.527	2090
S3.110.500.800.6.70L.H.370.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.527	2090

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.110.500.650.8.70L.S.464.G.N.D	464	110	10	20
S3.110.500.650.8.70L.C.464.G.N.D	464	110	10	20
S3.110.500.650.8.70L.D.464.G.N.D	464	110	10	20
S3.110.500.650.8.70L.H.464.G.N.D	464	110	10	20
S3.110.500.800.6.70L.S.370.G.N.D	370	110	10	20
S3.110.500.800.6.70L.C.370.G.N.D	370	110	10	20
S3.110.500.800.6.70L.D.370.G.N.D	370	110	10	20
S3.110.500.800.6.70L.H.370.G.N.D	370	110	10	20

Dimensional sketches

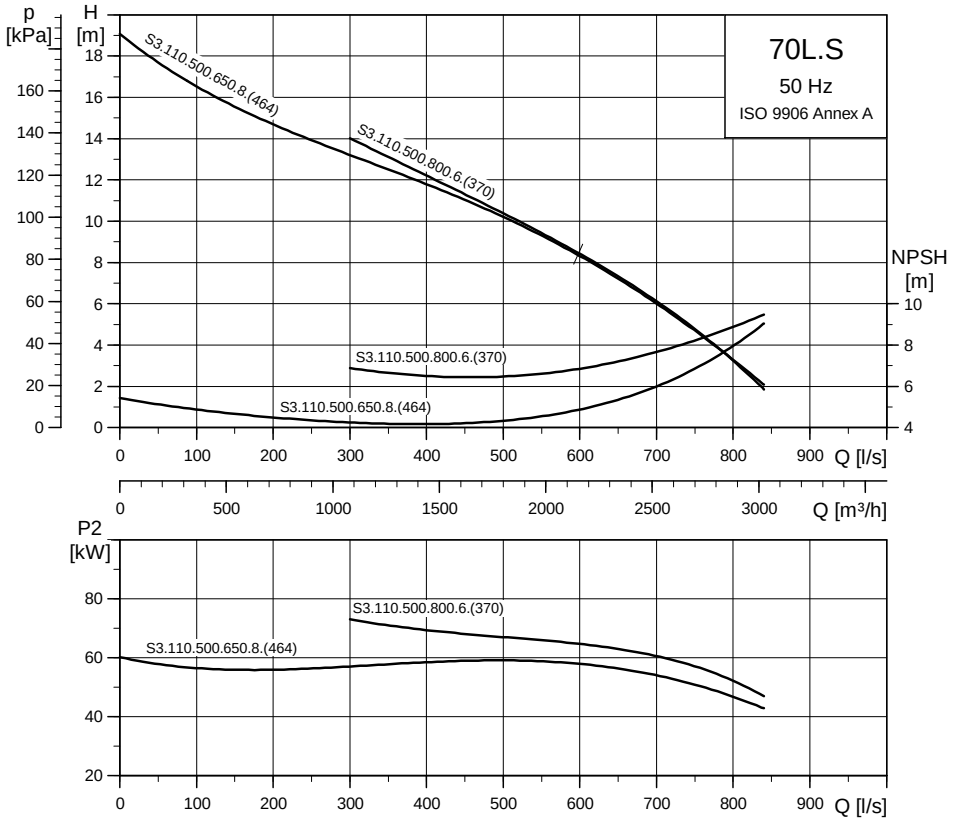


TM04 2412 2508

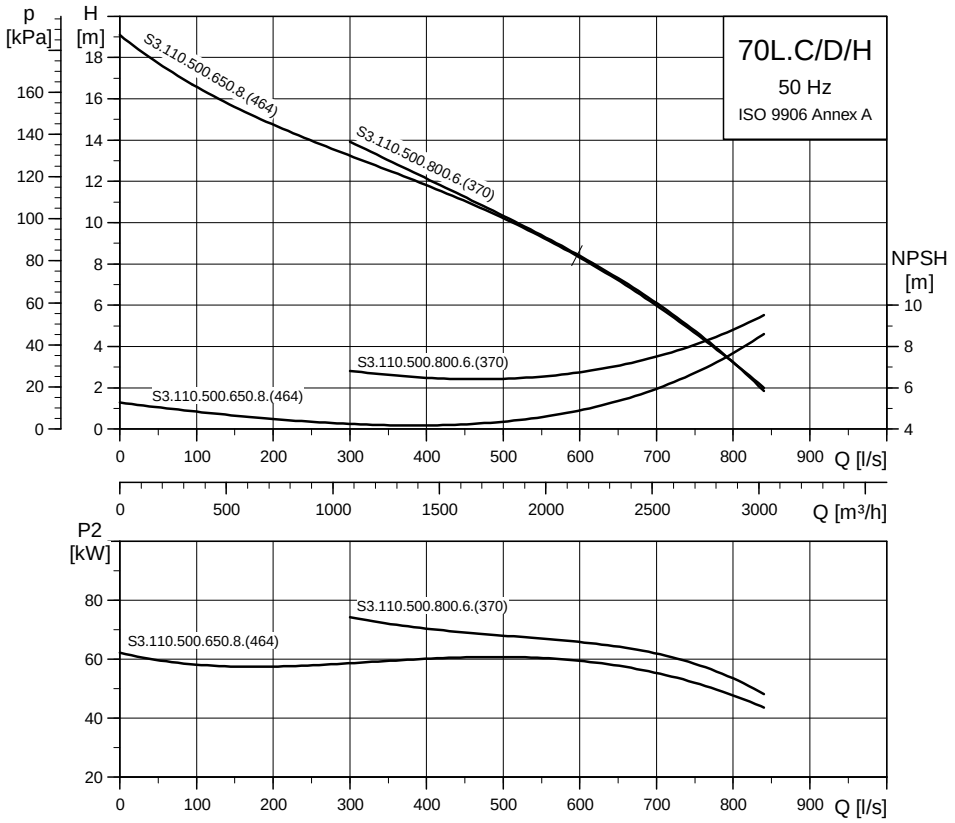
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Low pressure - 3 x 415 V

S3.110.500.650 and S3.110.500.800



TM04 0687 0908



TM04 0688 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.110.500.650.8.70L.S.464.G.N.D	S	1830	1843	719	1200	1269	380	-	500	1500	96796935
S3.110.500.650.8.70L.C.464.G.N.D	C	1830	1843	719	1200	1269	380	-	500	1590	96796936
S3.110.500.650.8.70L.D.464.G.N.D	D	1783	1843	719	1200	1269	333	DN 500	500	1590	96796937
S3.110.500.650.8.70L.H.464.G.N.D	H	1783	1843	719	1200	1269	333	DN 500	500	1590	96796939
S3.110.500.800.6.70L.S.370.G.N.D	S	1830	1843	719	1200	1269	380	-	500	1350	96796955
S3.110.500.800.6.70L.C.370.G.N.D	C	1830	1843	719	1200	1269	380	-	500	1520	96796956
S3.110.500.800.6.70L.D.370.G.N.D	D	1783	1843	719	1200	1269	333	DN 500	500	1520	96796957
S3.110.500.800.6.70L.H.370.G.N.D	H	1783	1843	719	1200	1269	333	DN 500	500	1520	96796959

With 10 m cable

Electrical data

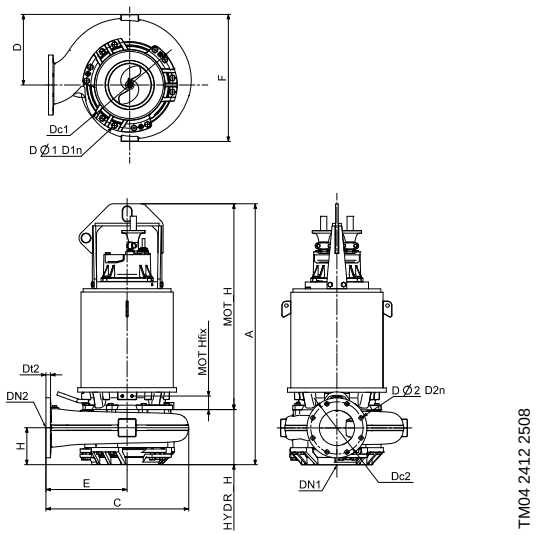
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S3.110.500.650.8.70L.S.464.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	5.0323	2135
S3.110.500.650.8.70L.C.464.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	5.0323	2135
S3.110.500.650.8.70L.D.464.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	5.0323	2135
S3.110.500.650.8.70L.H.464.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	5.0323	2135
S3.110.500.800.6.70L.S.370.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.527	2090
S3.110.500.800.6.70L.C.370.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.527	2090
S3.110.500.800.6.70L.D.370.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.527	2090
S3.110.500.800.6.70L.H.370.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.527	2090

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.110.500.650.8.70L.S.464.G.N.D	464	110	10	20
S3.110.500.650.8.70L.C.464.G.N.D	464	110	10	20
S3.110.500.650.8.70L.D.464.G.N.D	464	110	10	20
S3.110.500.650.8.70L.H.464.G.N.D	464	110	10	20
S3.110.500.800.6.70L.S.370.G.N.D	370	110	10	20
S3.110.500.800.6.70L.C.370.G.N.D	370	110	10	20
S3.110.500.800.6.70L.D.370.G.N.D	370	110	10	20
S3.110.500.800.6.70L.H.370.G.N.D	370	110	10	20

Dimensional sketches



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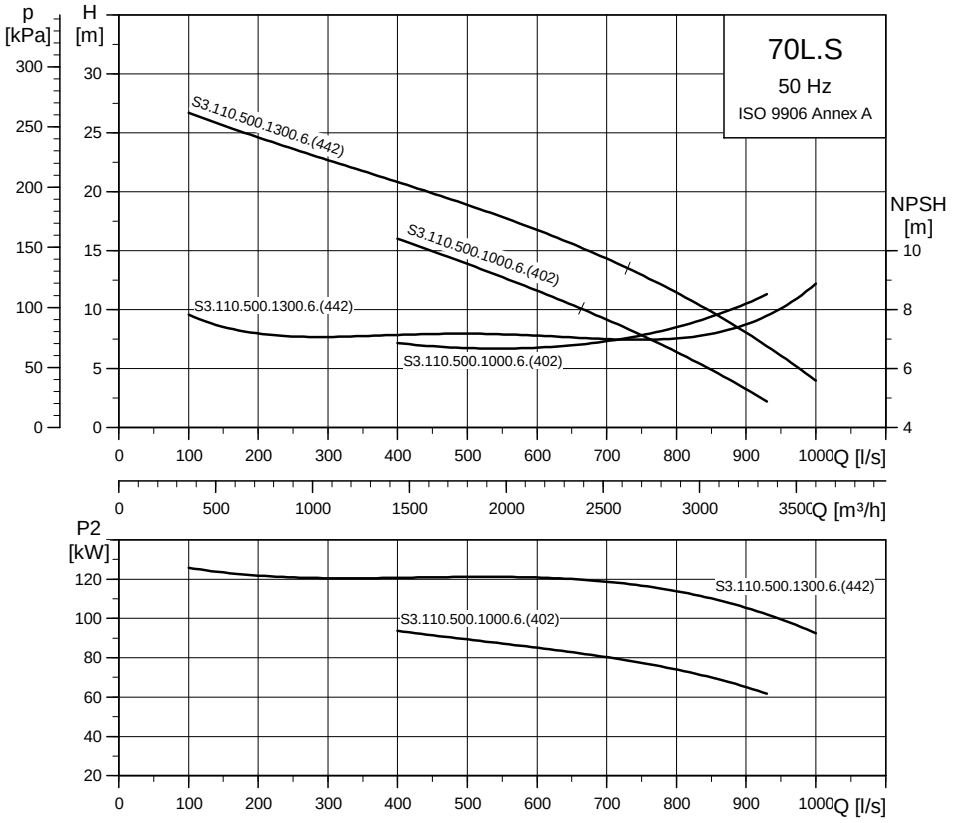
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Performance curves

Low pressure - 3 x 400/690 V

S3.110.500.1000 and S3.110.500.1300



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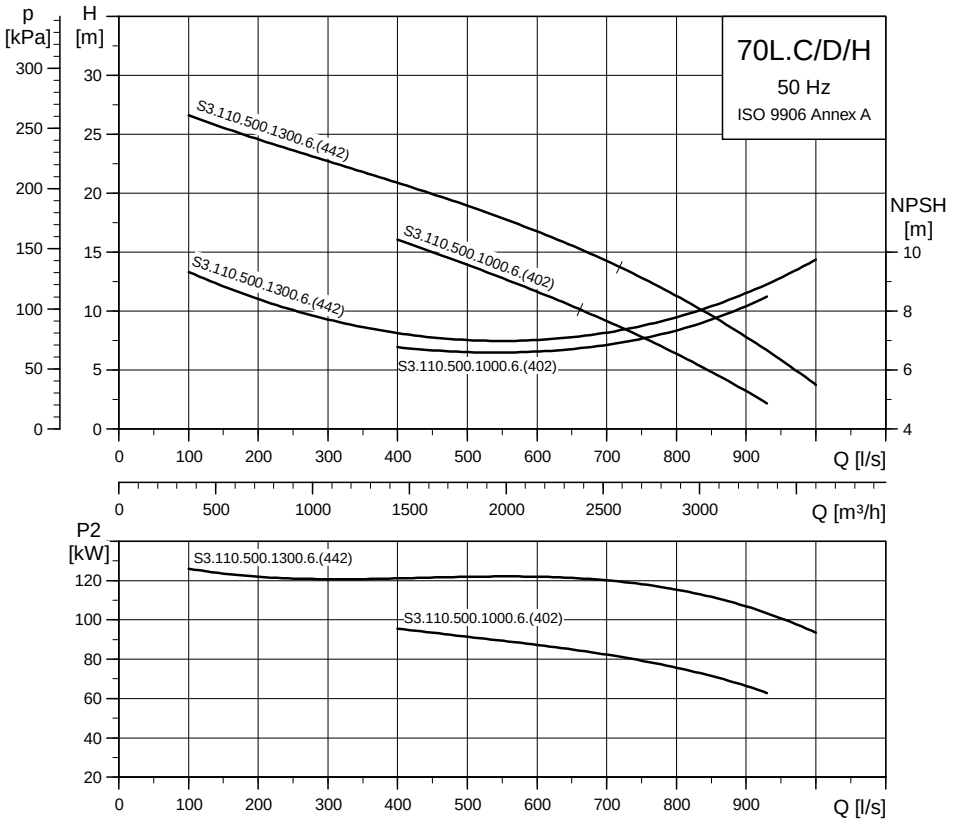

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Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.110.500.1000.6.70L.S.402.G.N.D	S	1830	1843	719	1200	1269	380	-	500	1350	95112951
S3.110.500.1000.6.70L.C.402.G.N.D	C	1830	1843	719	1200	1269	380	-	500	1870	95112952
S3.110.500.1000.6.70L.D.402.G.N.D	D	1783	1843	719	1200	1269	333	DN 500	500	1870	95112953
S3.110.500.1000.6.70L.H.402.G.N.D	H	1783	1843	719	1200	1269	333	DN 500	500	1870	96796973
S3.110.500.1300.6.70L.S.442.G.N.D	S	1985	1843	719	1200	1269	380	-	500	1700	95112960
S3.110.500.1300.6.70L.C.442.G.N.D	C	1985	1843	719	1200	1269	380	-	500	1830	95112961
S3.110.500.1300.6.70L.D.442.G.N.D	D	1938	1843	719	1200	1269	333	DN 500	500	1830	95112962
S3.110.500.1300.6.70L.H.442.G.N.D	H	1938	1843	719	1200	1269	333	DN 500	500	1830	96796993

With 10 m cable

Electrical data

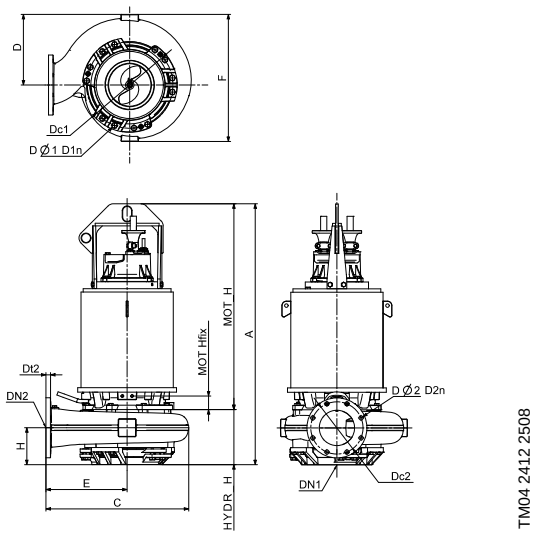
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm²]	M_{max} [Nm]
S3.110.500.1000.6.70L.S.402.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	3.868	2090
S3.110.500.1000.6.70L.C.402.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	3.868	2090
S3.110.500.1000.6.70L.D.402.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	3.868	2090
S3.110.500.1000.6.70L.H.402.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	3.868	2090
S3.110.500.1300.6.70L.S.442.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.5797	3273
S3.110.500.1300.6.70L.C.442.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.5797	3273
S3.110.500.1300.6.70L.D.442.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.5797	3273
S3.110.500.1300.6.70L.H.442.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.5797	3273

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.110.500.1000.6.70L.S.402.G.N.D	402	110	10	20
S3.110.500.1000.6.70L.C.402.G.N.D	402	110	10	20
S3.110.500.1000.6.70L.D.402.G.N.D	402	110	10	20
S3.110.500.1000.6.70L.H.402.G.N.D	402	110	10	20
S3.110.500.1300.6.70L.S.442.G.N.D	442	110	10	20
S3.110.500.1300.6.70L.C.442.G.N.D	442	110	10	20
S3.110.500.1300.6.70L.D.442.G.N.D	442	110	10	20
S3.110.500.1300.6.70L.H.442.G.N.D	442	110	10	20

Dimensional sketches



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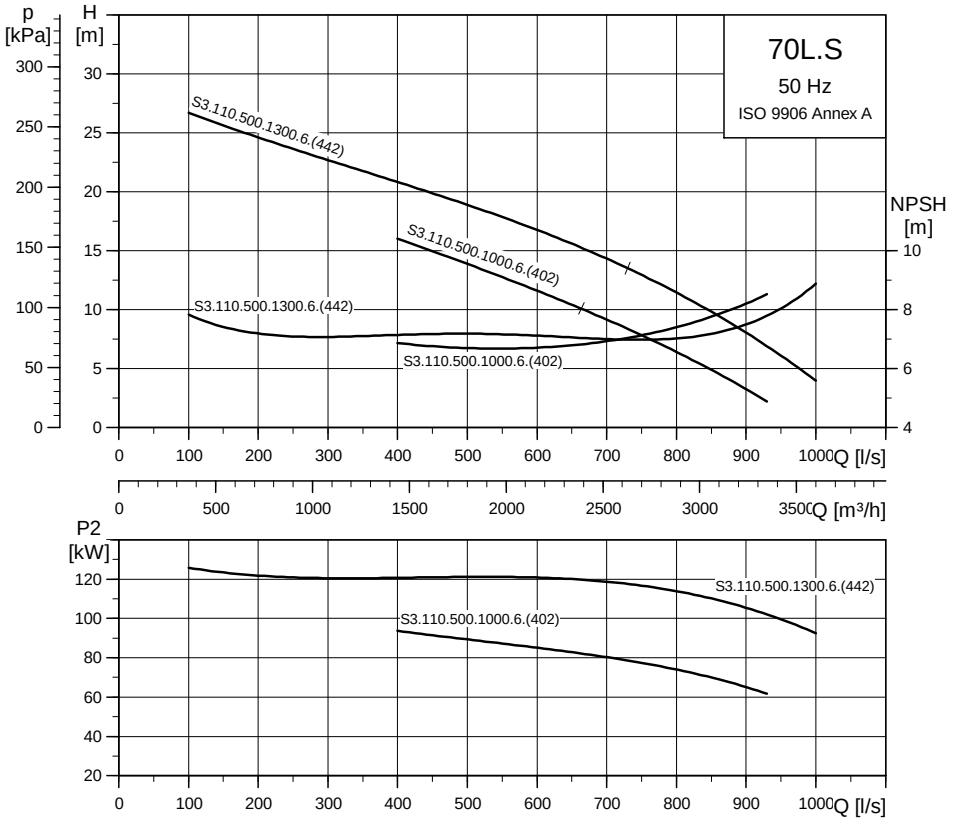
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Performance curves

Low pressure - 3 x 415 V

S3.110.500.1000 and S3.110.500.1300



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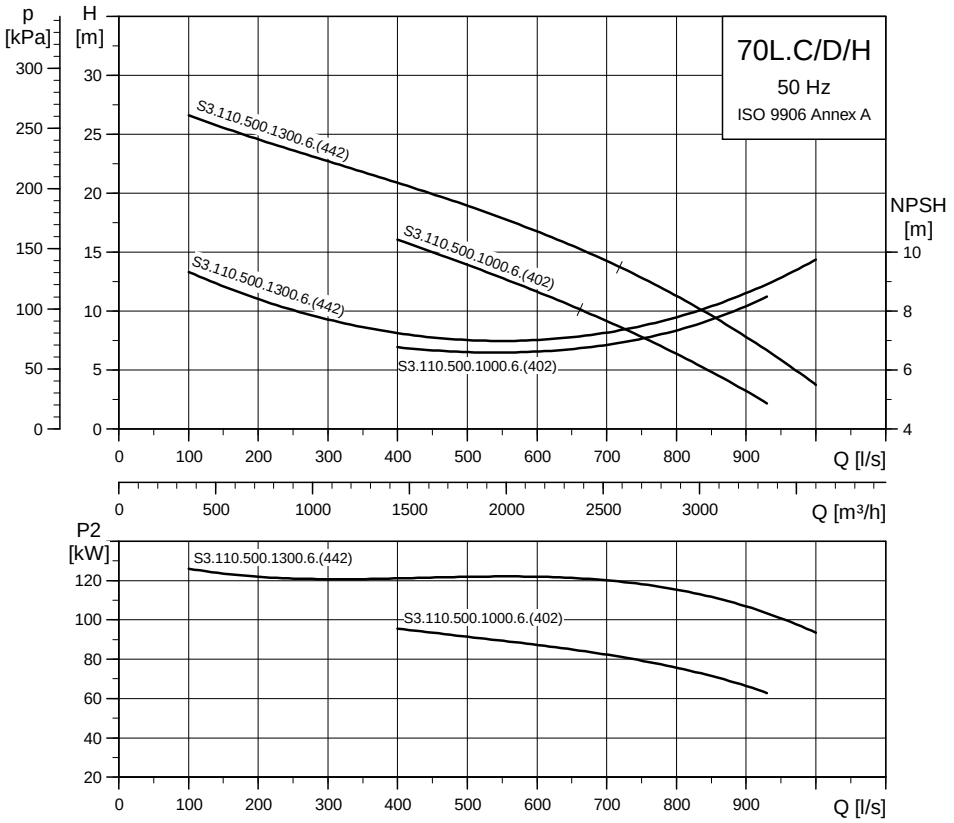


TM04 1930 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.110.500.1000.6.70L.S.402.G.N.D	S	1830	1843	719	1200	1269	380	-	500	1350	96796970
S3.110.500.1000.6.70L.C.402.G.N.D	C	1830	1843	719	1200	1269	380	-	500	1870	96796971
S3.110.500.1000.6.70L.D.402.G.N.D	D	1783	1843	719	1200	1269	333	DN 500	500	1870	96796972
S3.110.500.1000.6.70L.H.402.G.N.D	H	1783	1843	719	1200	1269	333	DN 500	500	1870	96796974
S3.110.500.1300.6.70L.S.442.G.N.D	S	1985	1843	719	1200	1269	380	-	500	1700	96796990
S3.110.500.1300.6.70L.C.442.G.N.D	C	1985	1843	719	1200	1269	380	-	500	1830	96796991
S3.110.500.1300.6.70L.D.442.G.N.D	D	1938	1843	719	1200	1269	333	DN 500	500	1830	96796992
S3.110.500.1300.6.70L.H.442.G.N.D	H	1938	1843	719	1200	1269	333	DN 500	500	1830	96796994

With 10 m cable

Electrical data

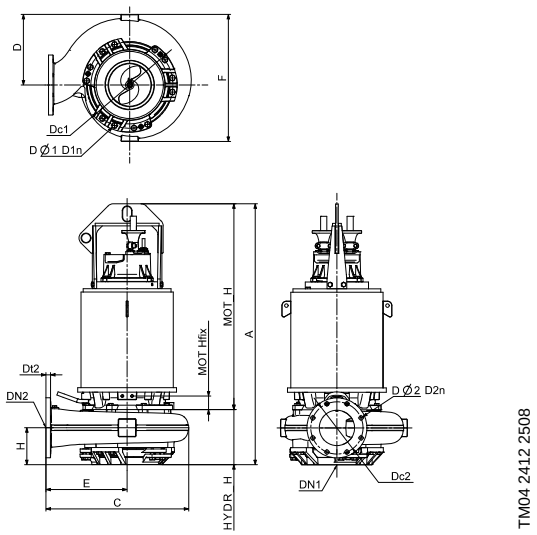
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm²]	M_{max} [Nm]
S3.110.500.1000.6.70L.S.402.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	3.868	2090
S3.110.500.1000.6.70L.C.402.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	3.868	2090
S3.110.500.1000.6.70L.D.402.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	3.868	2090
S3.110.500.1000.6.70L.H.402.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	3.868	2090
S3.110.500.1300.6.70L.S.442.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.5797	3273
S3.110.500.1300.6.70L.C.442.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.5797	3273
S3.110.500.1300.6.70L.D.442.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.5797	3273
S3.110.500.1300.6.70L.H.442.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.5797	3273

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.110.500.1000.6.70L.S.402.G.N.D	402	110	10	20
S3.110.500.1000.6.70L.C.402.G.N.D	402	110	10	20
S3.110.500.1000.6.70L.D.402.G.N.D	402	110	10	20
S3.110.500.1000.6.70L.H.402.G.N.D	402	110	10	20
S3.110.500.1300.6.70L.S.442.G.N.D	442	110	10	20
S3.110.500.1300.6.70L.C.442.G.N.D	442	110	10	20
S3.110.500.1300.6.70L.D.442.G.N.D	442	110	10	20
S3.110.500.1300.6.70L.H.442.G.N.D	442	110	10	20

Dimensional sketches



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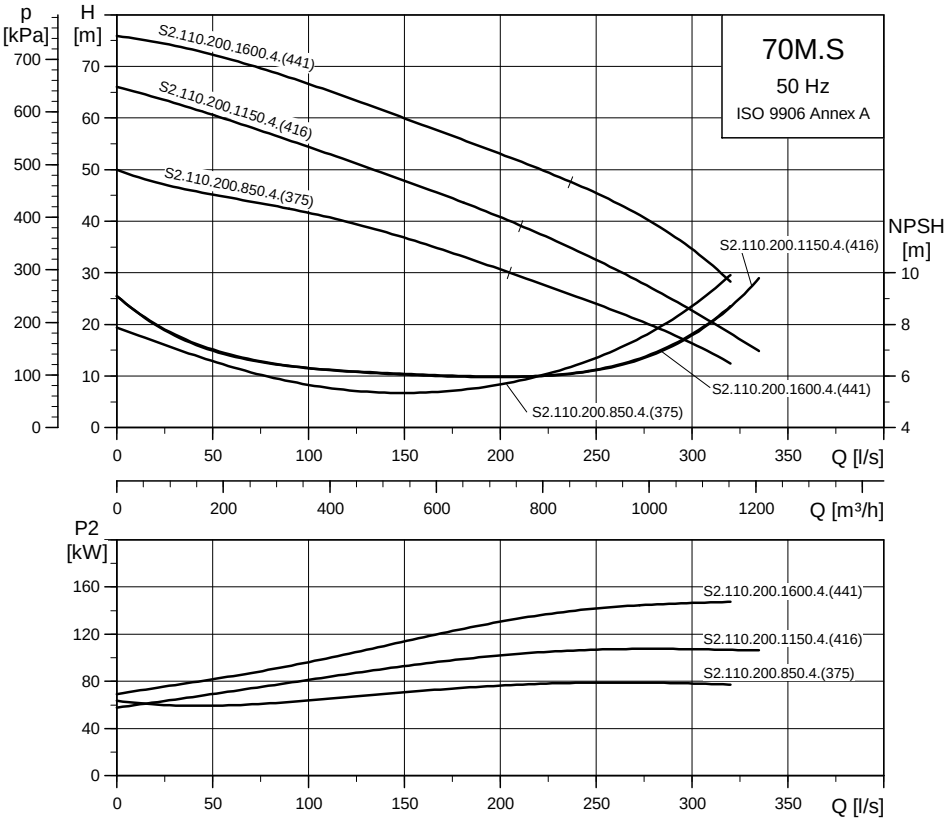
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Medium pressure - 3 x 400/690 V

S2.110.200



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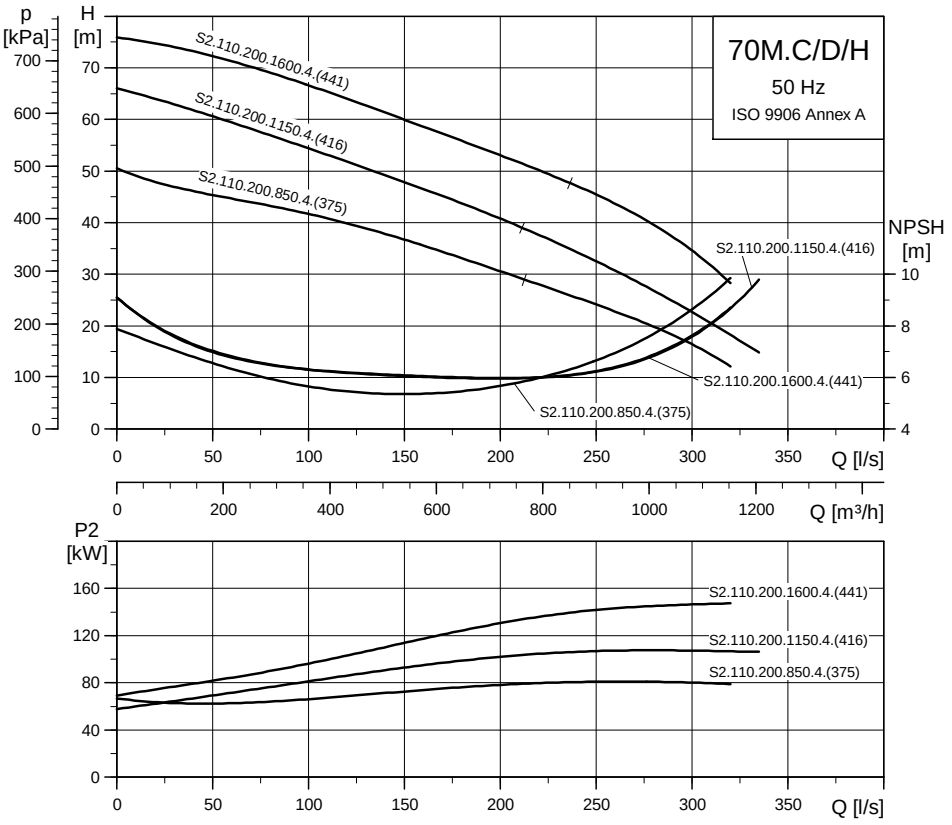

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Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.110.200.850.4.70M.S.375.G.N.D	S	1638	809	400	460	720	215	-	200	965	95112933
S2.110.200.850.4.70M.C.375.G.N.D	C	1638	809	400	460	720	215	-	200	1090	95112934
S2.110.200.850.4.70M.H.375.G.N.D	H	1638	809	400	460	720	215	DN 250	200	1090	95112935
S2.110.200.850.4.70M.D.375.G.N.D	D	1638	809	400	460	720	215	DN 250	200	1090	96796927
S2.110.200.1150.4.70M.S.416.G.N.D	S	1636	837	357	550	669	200	-	200	1010	95112906
S2.110.200.1150.4.70M.C.416.G.N.D	C	1636	837	357	550	669	200	-	200	1320	95112907
S2.110.200.1150.4.70M.H.416.G.N.D	H	1659	837	357	550	669	223	DN 250	200	1320	95112908
S2.110.200.1150.4.70M.D.416.G.N.D	D	1659	837	357	550	669	223	DN 250	200	1320	96797012
S2.110.200.1600.4.70M.S.441.G.N.D	S	1791	837	357	550	669	200	-	200	1200	95112921
S2.110.200.1600.4.70M.C.441.G.N.D	C	1791	837	357	550	669	200	-	200	1350	95112922
S2.110.200.1600.4.70M.H.441.G.N.D	H	1814	837	357	550	669	223	DN 250	200	1350	95112923
S2.110.200.1600.4.70M.D.441.G.N.D	D	1814	837	357	550	669	223	DN 250	200	1350	96797032

With 10 m cable

Electrical data

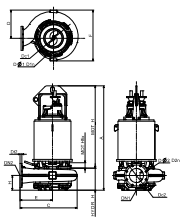
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S2.110.200.850.4.70M.S.375.G.N.D	90	85	4	1478	Y/D	154	1044	94	95	94	0.75	0.83	0.85	1.6327	1647
S2.110.200.850.4.70M.C.375.G.N.D	90	85	4	1478	Y/D	154	1044	94	95	94	0.75	0.83	0.85	1.6327	1647
S2.110.200.850.4.70M.H.375.G.N.D	90	85	4	1478	Y/D	154	1044	94	95	94	0.75	0.83	0.85	1.6327	1647
S2.110.200.850.4.70M.D.375.G.N.D	90	85	4	1478	Y/D	154	1044	94	95	94	0.75	0.83	0.85	1.6327	1647
S2.110.200.1150.4.70M.S.416.G.N.D	122	115	4	1475	Y/D	211	1430	94	95	94	0.69	0.79	0.84	1.9513	2232
S2.110.200.1150.4.70M.C.416.G.N.D	122	115	4	1475	Y/D	211	1430	94	95	94	0.69	0.79	0.84	1.9513	2232
S2.110.200.1150.4.70M.H.416.G.N.D	122	115	4	1475	Y/D	211	1430	94	95	94	0.69	0.79	0.84	1.9513	2232
S2.110.200.1150.4.70M.D.416.G.N.D	122	115	4	1475	Y/D	211	1430	94	95	94	0.69	0.79	0.84	1.9513	2232
S2.110.200.1600.4.70M.S.441.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	2.647	3414
S2.110.200.1600.4.70M.C.441.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	2.647	3414
S2.110.200.1600.4.70M.H.441.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	2.647	3414
S2.110.200.1600.4.70M.D.441.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	2.647	3414

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.110.200.850.4.70M.S.375.G.N.D	375	110	10	20
S2.110.200.850.4.70M.C.375.G.N.D	375	110	10	20
S2.110.200.850.4.70M.H.375.G.N.D	375	110	10	20
S2.110.200.850.4.70M.D.375.G.N.D	375	110	10	20
S2.110.200.1150.4.70M.S.416.G.N.D	416	110	10	20
S2.110.200.1150.4.70M.C.416.G.N.D	416	110	10	20
S2.110.200.1150.4.70M.H.416.G.N.D	416	110	10	20
S2.110.200.1150.4.70M.D.416.G.N.D	416	110	10	20
S2.110.200.1600.4.70M.S.441.G.N.D	441	110	10	20
S2.110.200.1600.4.70M.C.441.G.N.D	441	110	10	20
S2.110.200.1600.4.70M.H.441.G.N.D	441	110	10	20
S2.110.200.1600.4.70M.D.441.G.N.D	441	110	10	20

Dimensional sketches

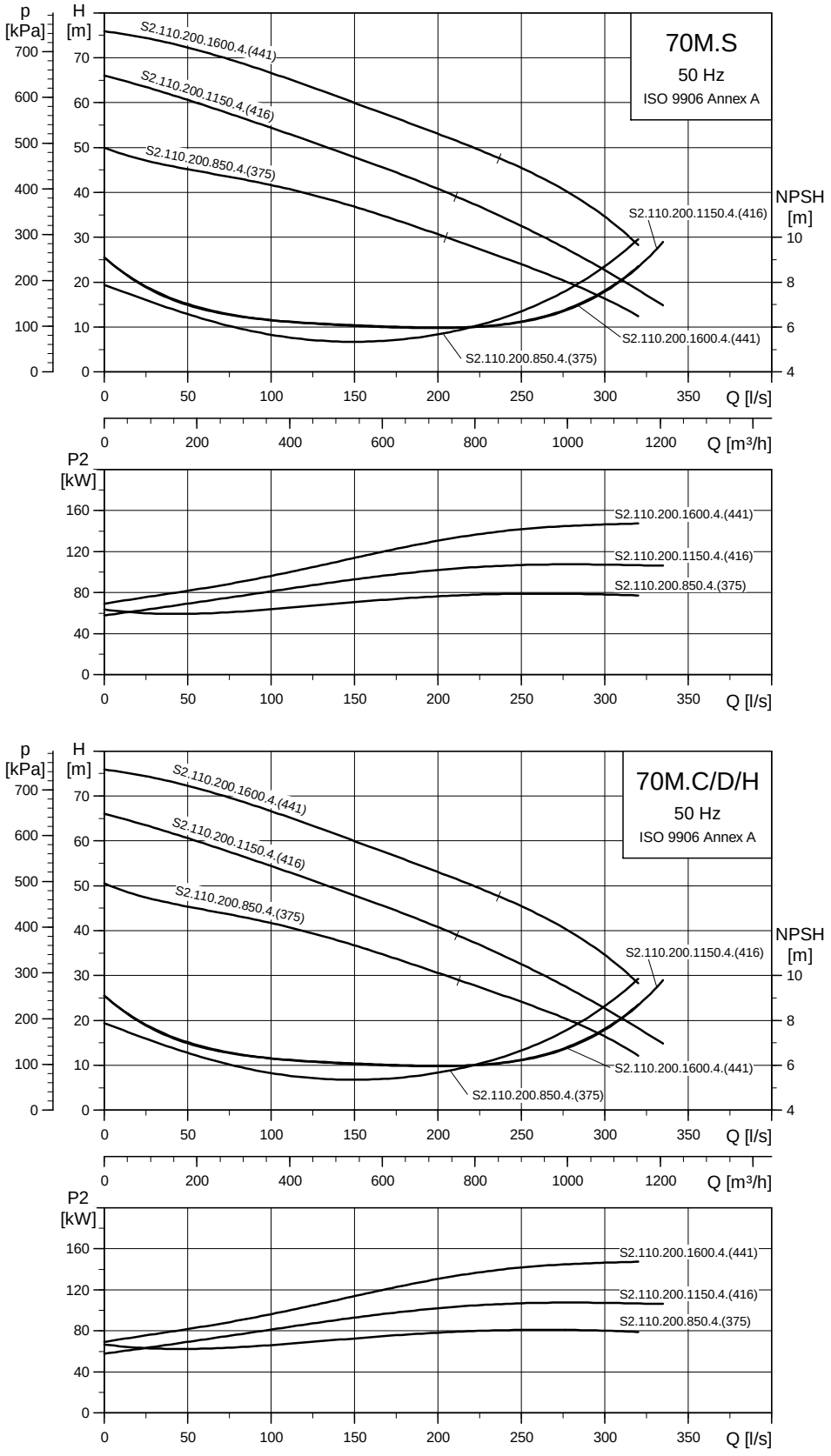


TM04 2412 2508

Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Medium pressure - 3 x 415 V

S2.110.200



TM04 1867 0908

TM04 1868 4908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.110.200.850.4.70M.S.375.G.N.D	S	1638	809	400	460	720	215	-	200	965	96796925
S2.110.200.850.4.70M.C.375.G.N.D	C	1638	809	400	460	720	215	-	200	1090	96796926
S2.110.200.850.4.70M.D.375.G.N.D	D	1638	809	400	460	720	215	DN 250	200	1090	96796928
S2.110.200.850.4.70M.H.375.G.N.D	H	1638	809	400	460	720	215	DN 250	200	1090	96796929
S2.110.200.1150.4.70M.S.416.G.N.D	S	1636	837	357	550	669	200	-	200	1010	96797010
S2.110.200.1150.4.70M.C.416.G.N.D	C	1636	837	357	550	669	200	-	200	1320	96797011
S2.110.200.1150.4.70M.D.416.G.N.D	D	1659	837	357	550	669	223	DN 250	200	1320	96797013
S2.110.200.1150.4.70M.H.416.G.N.D	H	1659	837	357	550	669	223	DN 250	200	1320	96797014
S2.110.200.1600.4.70M.S.441.G.N.D	S	1791	837	357	550	669	200	-	200	1200	96797030
S2.110.200.1600.4.70M.C.441.G.N.D	C	1791	837	357	550	669	200	-	200	1350	96797031
S2.110.200.1600.4.70M.D.441.G.N.D	D	1814	837	357	550	669	223	DN 250	200	1350	96797033
S2.110.200.1600.4.70M.H.441.G.N.D	H	1814	837	357	550	669	223	DN 250	200	1350	96797034

With 10 m cable

Electrical data

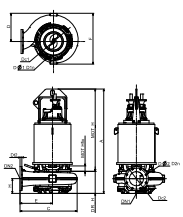
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S2.110.200.850.4.70M.S.375.G.N.D	90	85	4	1478	Y/D	149	1006	94	95	94	0.75	0.83	0.85	1.6327	1647
S2.110.200.850.4.70M.C.375.G.N.D	90	85	4	1478	Y/D	149	1006	94	95	94	0.75	0.83	0.85	1.6327	1647
S2.110.200.850.4.70M.D.375.G.N.D	90	85	4	1478	Y/D	149	1006	94	95	94	0.75	0.83	0.85	1.6327	1647
S2.110.200.850.4.70M.H.375.G.N.D	90	85	4	1478	Y/D	149	1006	94	95	94	0.75	0.83	0.85	1.6327	1647
S2.110.200.1150.4.70M.S.416.G.N.D	122	115	4	1475	Y/D	203	1378	94	95	94	0.69	0.79	0.84	1.9513	2232
S2.110.200.1150.4.70M.C.416.G.N.D	122	115	4	1475	Y/D	203	1378	94	95	94	0.69	0.79	0.84	1.9513	2232
S2.110.200.1150.4.70M.D.416.G.N.D	122	115	4	1475	Y/D	203	1378	94	95	94	0.69	0.79	0.84	1.9513	2232
S2.110.200.1150.4.70M.H.416.G.N.D	122	115	4	1475	Y/D	203	1378	94	95	94	0.69	0.79	0.84	1.9513	2232
S2.110.200.1600.4.70M.S.441.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	2.647	3414
S2.110.200.1600.4.70M.C.441.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	2.647	3414
S2.110.200.1600.4.70M.D.441.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	2.647	3414
S2.110.200.1600.4.70M.H.441.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	2.647	3414

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.110.200.850.4.70M.S.375.G.N.D	375	110	10	20
S2.110.200.850.4.70M.C.375.G.N.D	375	110	10	20
S2.110.200.850.4.70M.D.375.G.N.D	375	110	10	20
S2.110.200.850.4.70M.H.375.G.N.D	375	110	10	20
S2.110.200.1150.4.70M.S.416.G.N.D	416	110	10	20
S2.110.200.1150.4.70M.C.416.G.N.D	416	110	10	20
S2.110.200.1150.4.70M.D.416.G.N.D	416	110	10	20
S2.110.200.1150.4.70M.H.416.G.N.D	416	110	10	20
S2.110.200.1600.4.70M.S.441.G.N.D	441	110	10	20
S2.110.200.1600.4.70M.C.441.G.N.D	441	110	10	20
S2.110.200.1600.4.70M.D.441.G.N.D	441	110	10	20
S2.110.200.1600.4.70M.H.441.G.N.D	441	110	10	20

Dimensional sketches



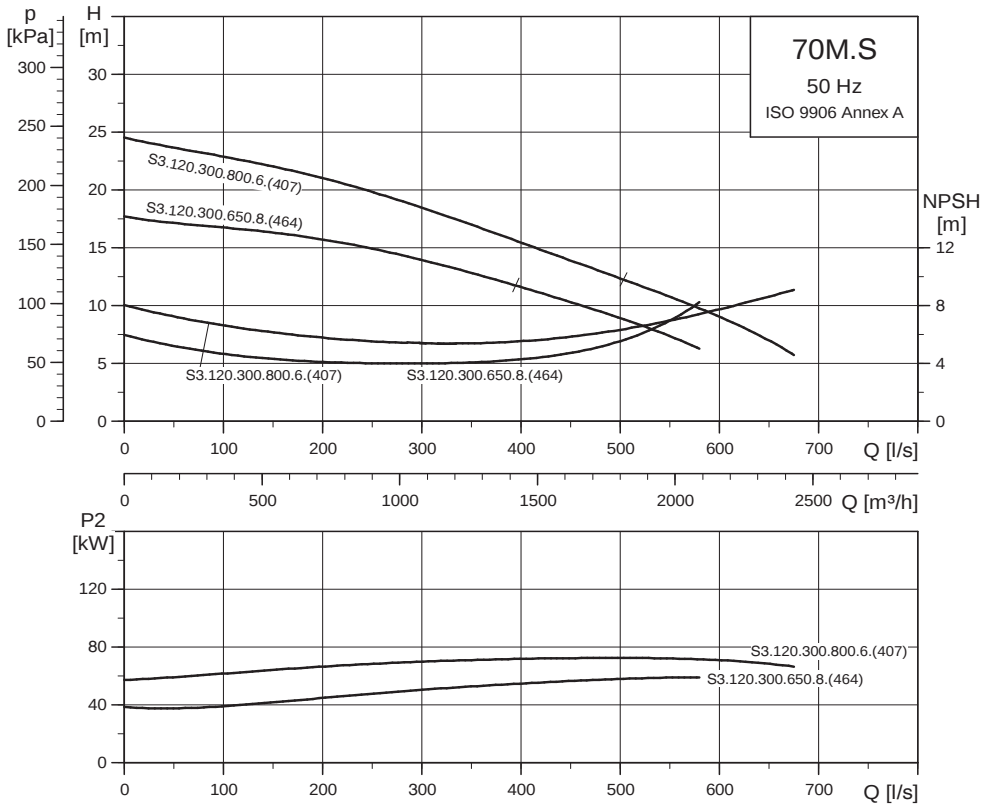
TM04 2412 2508

Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

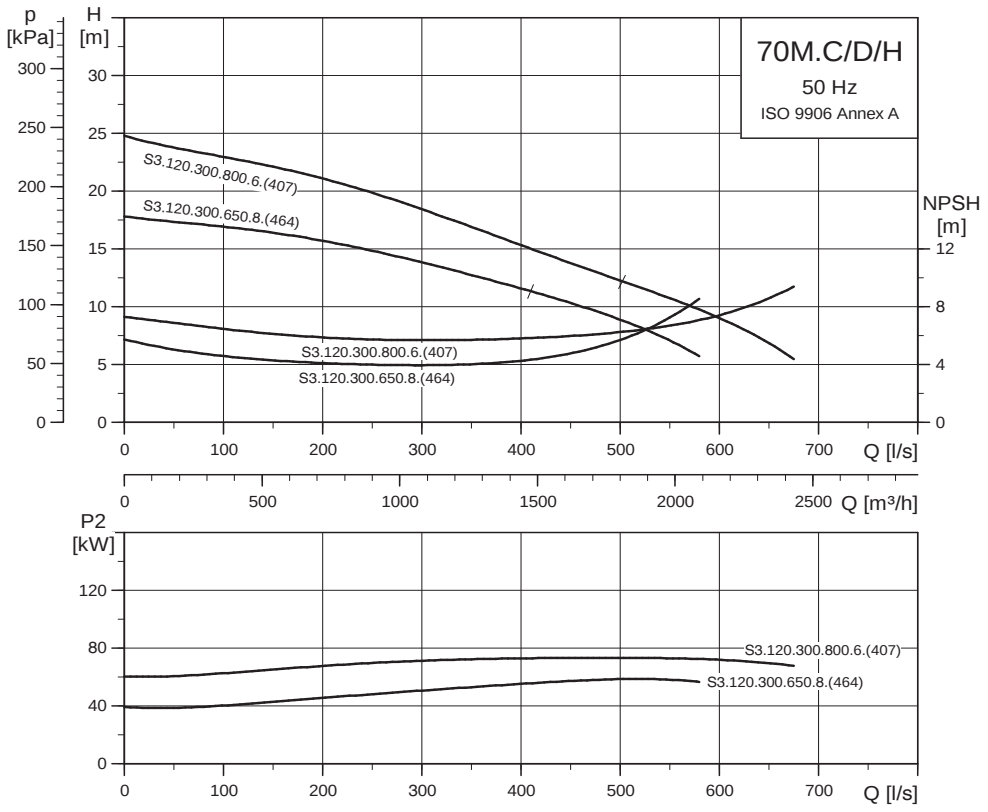
Performance curves

Medium pressure - 3 x 400/690 V

S3.120.300.650 and S3.120.300.800



TM04 1869 4908



TM04 1870 4908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.120.300.650.8.70M.S.464.G.N.D	S	1915	1284	570	760	1041	455	-	300	1370	95112939
S3.120.300.650.8.70M.C.464.G.N.D	C	1915	1284	570	760	1041	455	-	300	1520	95112940
S3.120.300.650.8.70M.D.464.G.N.D	D	1744	1284	570	760	1041	283	DN 300	300	1520	95112941
S3.120.300.650.8.70M.H.464.G.N.D	H	1744	1284	570	760	1041	283	DN 300	300	1520	96796943
S3.120.300.800.6.70M.S.407.G.N.D	S	1915	1139	522	700	907	450	-	300	1350	95112948
S3.120.300.800.6.70M.C.407.G.N.D	C	1915	1139	522	700	907	450	-	300	1520	95112949
S3.120.300.800.6.70M.D.407.G.N.D	D	1744	1139	522	700	907	279	DN 300	300	1520	95112950
S3.120.300.800.6.70M.H.407.G.N.D	H	1744	1139	522	700	907	279	DN 300	300	1520	96796963

With 10 m cable

Electrical data

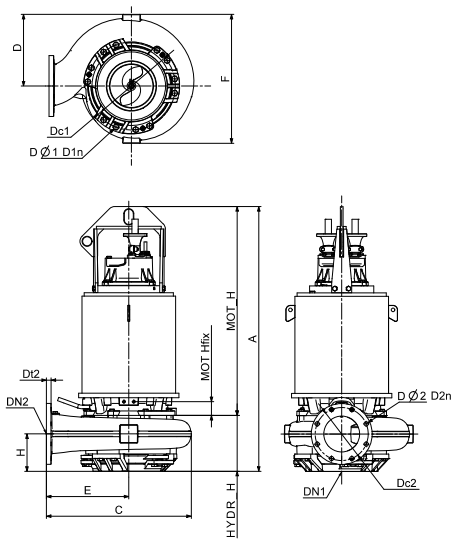
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm²]	M_{max} [Nm]
S3.120.300.650.8.70M.S.464.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	3.8667	2135
S3.120.300.650.8.70M.C.464.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	3.8667	2135
S3.120.300.650.8.70M.D.464.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	3.8667	2135
S3.120.300.650.8.70M.H.464.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	3.8667	2135
S3.120.300.800.6.70M.S.407.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.2747	2090
S3.120.300.800.6.70M.C.407.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.2747	2090
S3.120.300.800.6.70M.D.407.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.2747	2090
S3.120.300.800.6.70M.H.407.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.2747	2090

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.120.300.650.8.70M.S.464.G.N.D	464	120	10	20
S3.120.300.650.8.70M.C.464.G.N.D	464	120	10	20
S3.120.300.650.8.70M.D.464.G.N.D	464	120	10	20
S3.120.300.650.8.70M.H.464.G.N.D	464	120	10	20
S3.120.300.800.6.70M.S.407.G.N.D	407	120	10	20
S3.120.300.800.6.70M.C.407.G.N.D	407	120	10	20
S3.120.300.800.6.70M.D.407.G.N.D	407	120	10	20
S3.120.300.800.6.70M.H.407.G.N.D	407	120	10	20

Dimensional sketches



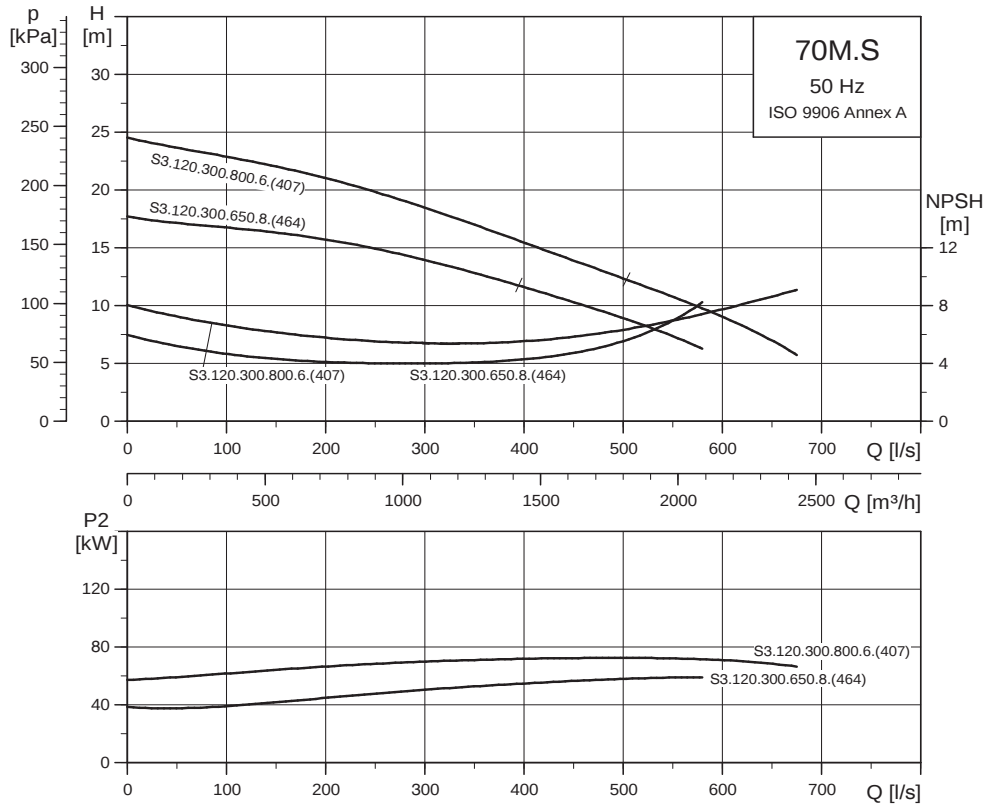
TM04 2412 2508

Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

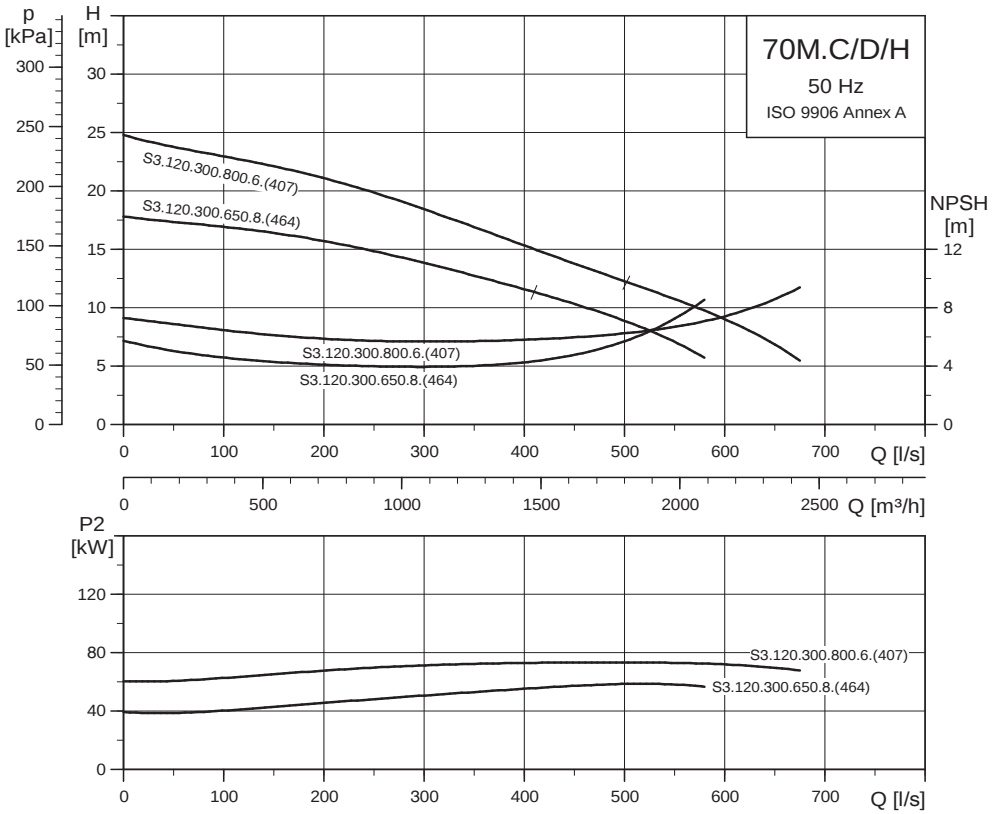
Performance curves

Medium pressure - 3 x 415 V

S3.120.300.650 and S3.120.300.800



TM04 1869 4908



TM04 1870 4908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.120.300.650.8.70M.S.464.G.N.D	S	1915	1284	570	760	1041	455	-	300	1370	96796940
S3.120.300.650.8.70M.C.464.G.N.D	C	1915	1284	570	760	1041	455	-	300	1520	96796941
S3.120.300.650.8.70M.D.464.G.N.D	D	1744	1284	570	760	1041	283	DN 300	300	1520	96796942
S3.120.300.650.8.70M.H.464.G.N.D	H	1744	1284	570	760	1041	283	DN 300	300	1520	96796944
S3.120.300.800.6.70M.S.407.G.N.D	S	1915	1139	522	700	907	450	-	300	1350	96796960
S3.120.300.800.6.70M.C.407.G.N.D	C	1915	1139	522	700	907	450	-	300	1520	96796961
S3.120.300.800.6.70M.D.407.G.N.D	D	1744	1139	522	700	907	279	DN 300	300	1520	96796962
S3.120.300.800.6.70M.H.407.G.N.D	H	1744	1139	522	700	907	279	DN 300	300	1520	96796964

With 10 m cable

Electrical data

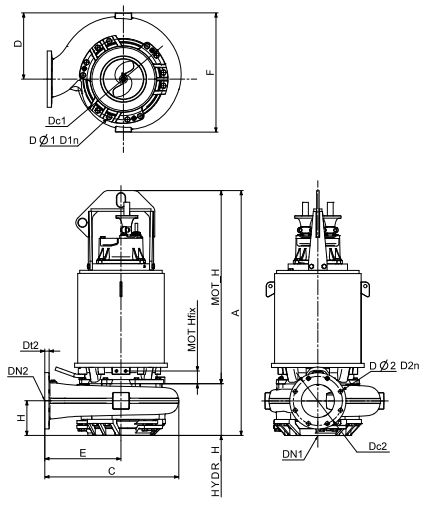
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm^2]	M_{max} [Nm]
S3.120.300.650.8.70M.S.464.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	3.8667	2135
S3.120.300.650.8.70M.C.464.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	3.8667	2135
S3.120.300.650.8.70M.D.464.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	3.8667	2135
S3.120.300.650.8.70M.H.464.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	3.8667	2135
S3.120.300.800.6.70M.S.407.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.2747	2090
S3.120.300.800.6.70M.C.407.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.2747	2090
S3.120.300.800.6.70M.D.407.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.2747	2090
S3.120.300.800.6.70M.H.407.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.2747	2090

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.120.300.650.8.70M.S.464.G.N.D	464	120	10	20
S3.120.300.650.8.70M.C.464.G.N.D	464	120	10	20
S3.120.300.650.8.70M.D.464.G.N.D	464	120	10	20
S3.120.300.650.8.70M.H.464.G.N.D	464	120	10	20
S3.120.300.800.6.70M.S.407.G.N.D	407	120	10	20
S3.120.300.800.6.70M.C.407.G.N.D	407	120	10	20
S3.120.300.800.6.70M.D.407.G.N.D	407	120	10	20
S3.120.300.800.6.70M.H.407.G.N.D	407	120	10	20

Dimensional sketches



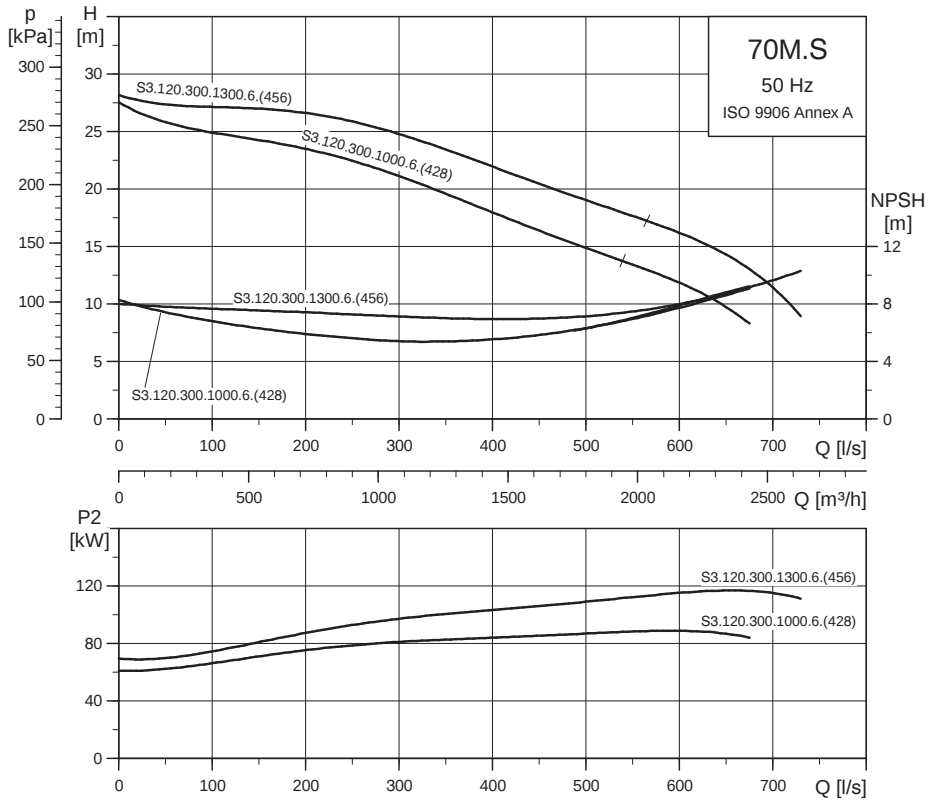
TM04 2412 2508

Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

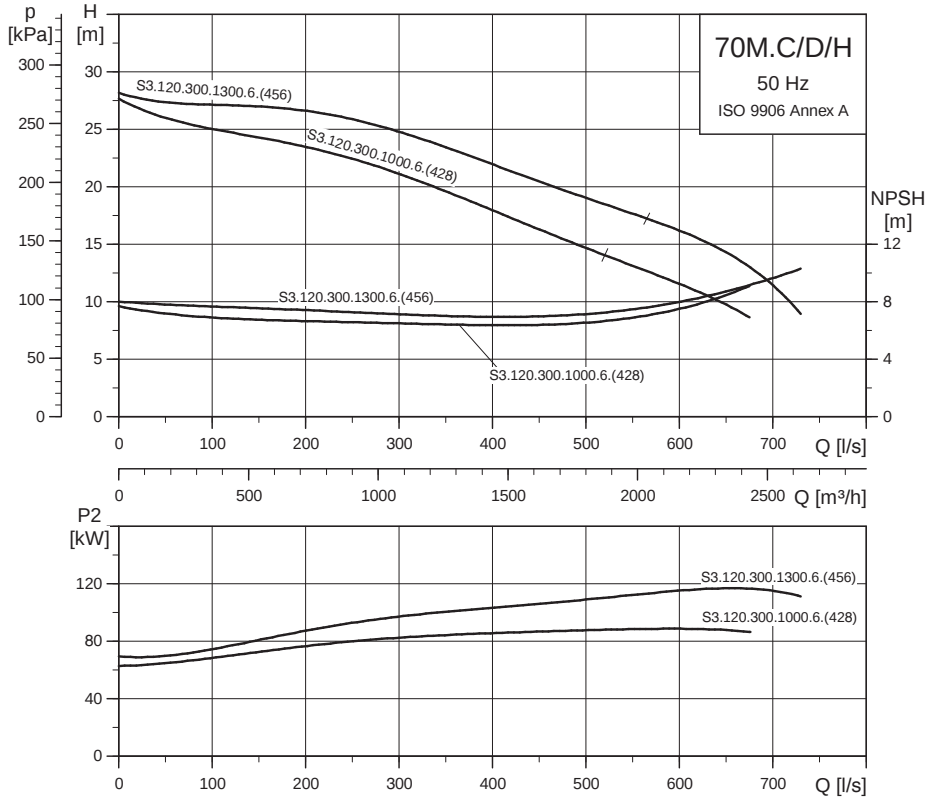
Performance curves

Medium pressure - 3 x 400/690 V

S3.120.300.1000 and S3.120.300.1300



TM04 1869 4908



TM04 1870 4908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.120.300.1000.6.70M.S.428.G.N.D	S	1915	1139	522	700	907	450	-	300	1240	95112954
S3.120.300.1000.6.70M.C.428.G.N.D	C	1915	1139	522	700	907	450	-	300	1270	95112955
S3.120.300.1000.6.70M.D.428.G.N.D	D	1744	1139	522	700	907	279	DN 300	300	1270	95112956
S3.120.300.1000.6.70M.H.428.G.N.D	H	1744	1139	522	700	907	279	DN 300	300	1270	96796978
S3.120.300.1300.6.70M.S.456.G.N.D	S	2070	1284	570	760	1041	455	-	300	1390	95112963
S3.120.300.1300.6.70M.C.456.G.N.D	C	2070	1284	570	760	1041	455	-	300	1520	95112964
S3.120.300.1300.6.70M.D.456.G.N.D	D	1899	1284	570	760	1041	283	DN 300	300	1520	95112965
S3.120.300.1300.6.70M.H.456.G.N.D	H	1899	1284	570	760	1041	283	DN 300	300	1520	96796998

With 10 m cable

Electrical data

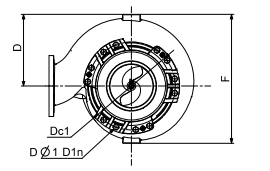
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm²]	M_{max} [Nm]
S3.120.300.1000.6.70M.S.428.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	3.4443	2090
S3.120.300.1000.6.70M.C.428.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	3.4443	2090
S3.120.300.1000.6.70M.D.428.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	3.4443	2090
S3.120.300.1000.6.70M.H.428.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	3.4443	2090
S3.120.300.1300.6.70M.S.456.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	4.4057	3273
S3.120.300.1300.6.70M.C.456.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	4.4057	3273
S3.120.300.1300.6.70M.D.456.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	4.4057	3273
S3.120.300.1300.6.70M.H.456.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	4.4057	3273

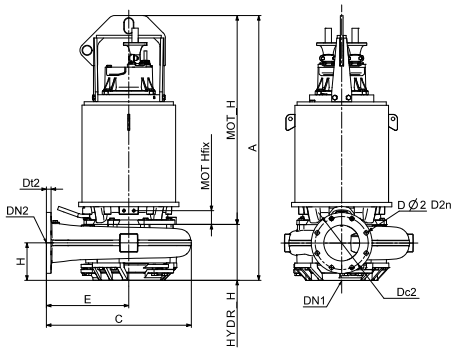
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.120.300.1000.6.70M.S.428.G.N.D	428	120	10	20
S3.120.300.1000.6.70M.C.428.G.N.D	428	120	10	20
S3.120.300.1000.6.70M.D.428.G.N.D	428	120	10	20
S3.120.300.1000.6.70M.H.428.G.N.D	428	120	10	20
S3.120.300.1300.6.70M.S.456.G.N.D	456	120	10	20
S3.120.300.1300.6.70M.C.456.G.N.D	456	120	10	20
S3.120.300.1300.6.70M.D.456.G.N.D	456	120	10	20
S3.120.300.1300.6.70M.H.456.G.N.D	456	120	10	20

Dimensional sketches



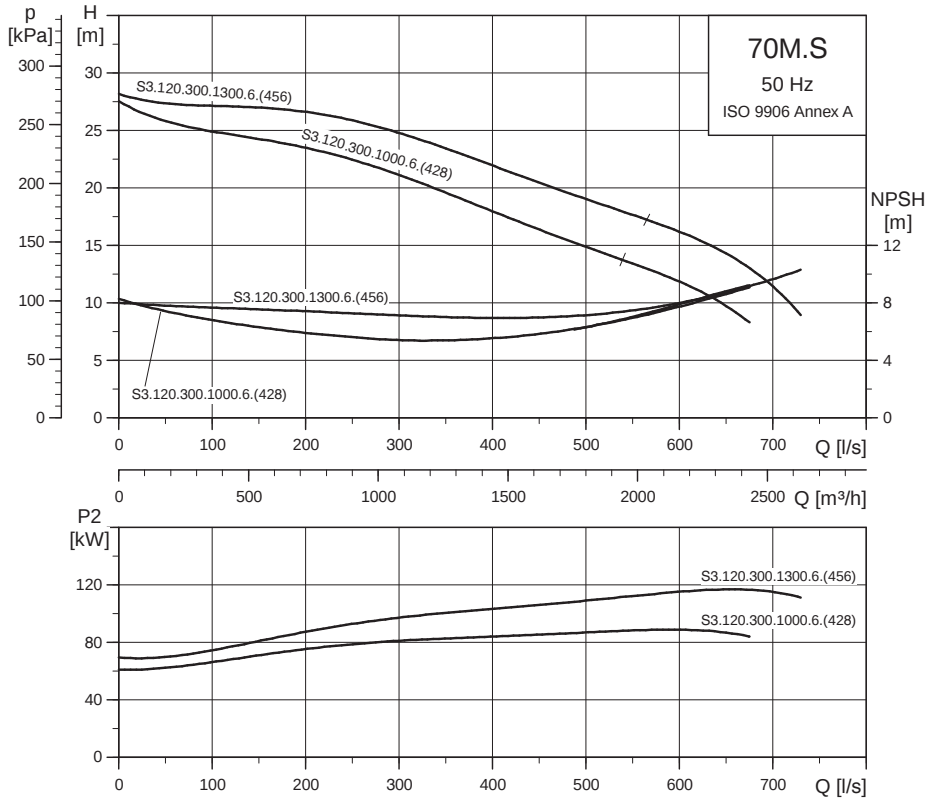


TM04 2412 2508

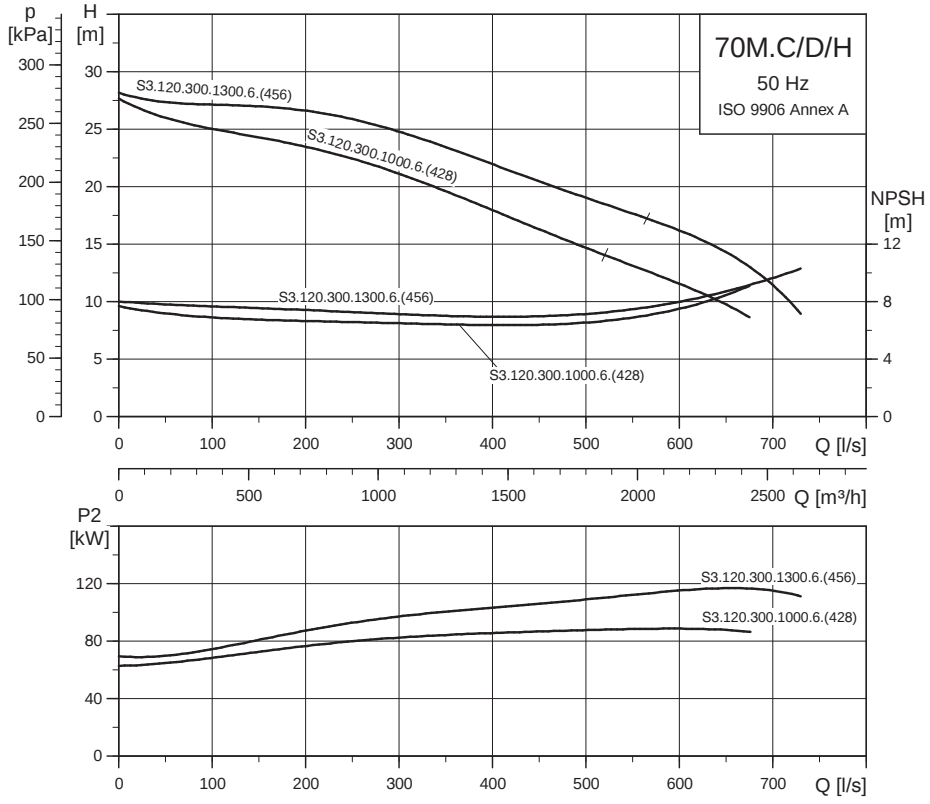
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Medium pressure - 3 x 415 V

S3.120.300.1000 and S3.120.300.1300



TM04 1869 4908



TM04 1870 4908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S3.120.300.1000.6.70M.S.428.G.N.D	S	1915	1139	522	700	907	450	-	300	1240	96796975
S3.120.300.1000.6.70M.C.428.G.N.D	C	1915	1139	522	700	907	450	-	300	1270	96796976
S3.120.300.1000.6.70M.D.428.G.N.D	D	1744	1139	522	700	907	279	DN 300	300	1270	96796977
S3.120.300.1000.6.70M.H.428.G.N.D	H	1744	1139	522	700	907	279	DN 300	300	1270	96796979
S3.120.300.1300.6.70M.S.456.G.N.D	S	2070	1284	570	760	1041	455	-	300	1390	96796995
S3.120.300.1300.6.70M.C.456.G.N.D	C	2070	1284	570	760	1041	455	-	300	1520	96796996
S3.120.300.1300.6.70M.D.456.G.N.D	D	1899	1284	570	760	1041	283	DN 300	300	1520	96796997
S3.120.300.1300.6.70M.H.456.G.N.D	H	1899	1284	570	760	1041	283	DN 300	300	1520	96796999

With 10 m cable

Electrical data

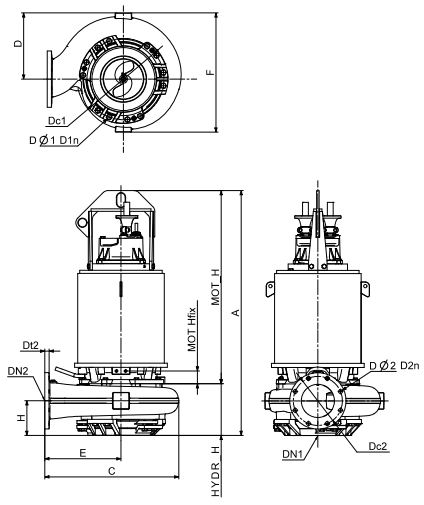
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S3.120.300.1000.6.70M.S.428.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	3.4443	2090
S3.120.300.1000.6.70M.C.428.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	3.4443	2090
S3.120.300.1000.6.70M.D.428.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	3.4443	2090
S3.120.300.1000.6.70M.H.428.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	3.4443	2090
S3.120.300.1300.6.70M.S.456.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	4.4057	3273
S3.120.300.1300.6.70M.C.456.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	4.4057	3273
S3.120.300.1300.6.70M.D.456.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	4.4057	3273
S3.120.300.1300.6.70M.H.456.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	4.4057	3273

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S3.120.300.1000.6.70M.S.428.G.N.D	428	120	10	20
S3.120.300.1000.6.70M.C.428.G.N.D	428	120	10	20
S3.120.300.1000.6.70M.D.428.G.N.D	428	120	10	20
S3.120.300.1000.6.70M.H.428.G.N.D	428	120	10	20
S3.120.300.1300.6.70M.S.456.G.N.D	456	120	10	20
S3.120.300.1300.6.70M.C.456.G.N.D	456	120	10	20
S3.120.300.1300.6.70M.D.456.G.N.D	456	120	10	20
S3.120.300.1300.6.70M.H.456.G.N.D	456	120	10	20

Dimensional sketches

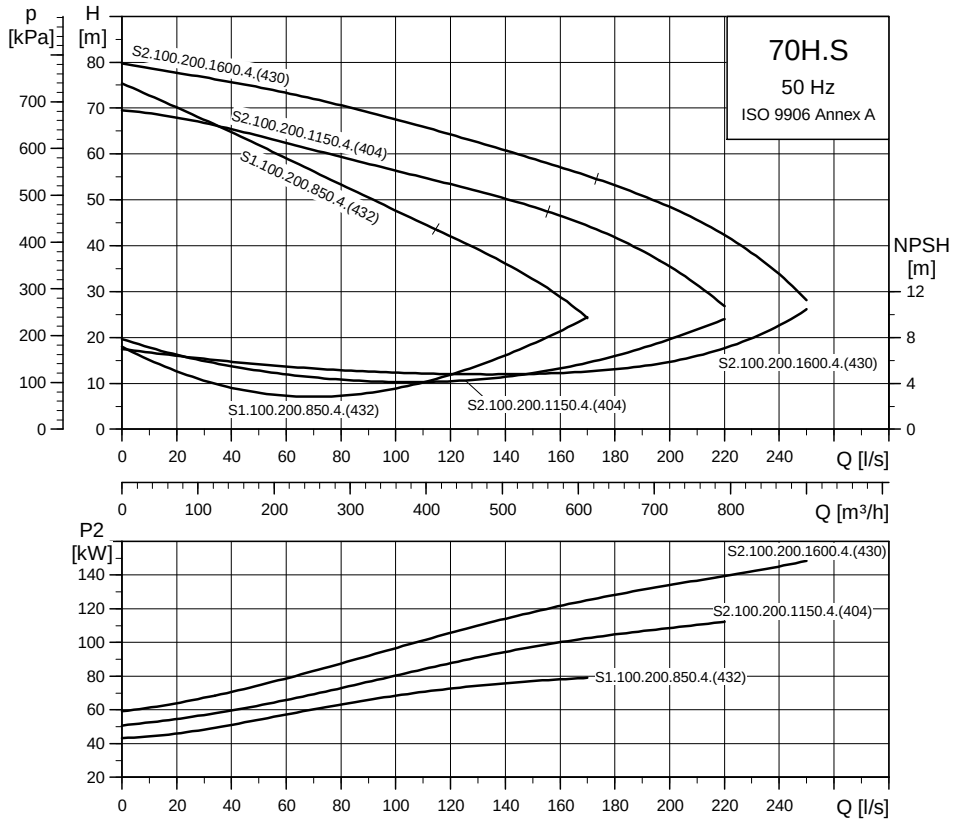


TM04 2412 2508

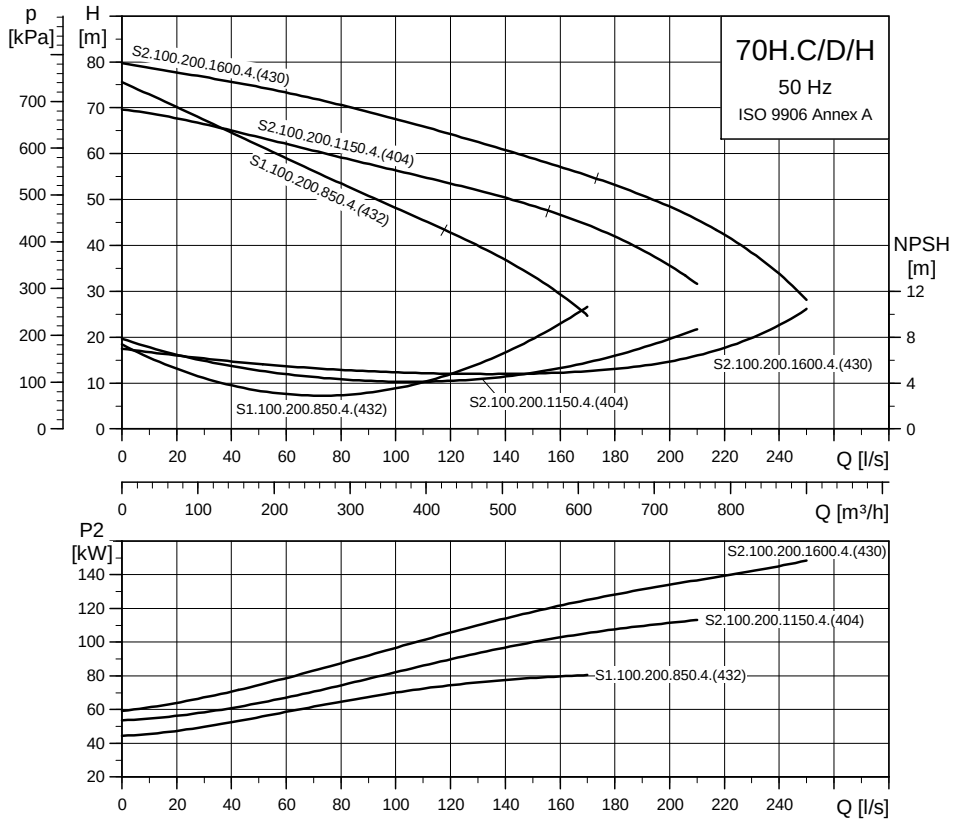
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

High pressure - 3 x 400/690 V

S1.100 and S2.100



TM04 0658 0908



TM04 0686 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.100.200.850.4.70H.S.432.G.N.D	S	1653	1083	300	800	596	225	-	200	900	95112897
S1.100.200.850.4.70H.C.432.G.N.D	C	1653	1083	300	800	596	225	-	200	950	95112898
S1.100.200.850.4.70H.H.432.G.N.D	H	1654	883	300	600	596	226	DN 250	200	950	95112899
S1.100.200.850.4.70H.D.432.G.N.D	D	1654	883	300	600	596	226	DN 250	200	950	96796922
S2.100.200.1150.4.70H.S.404.G.N.D	S	1633	883	300	600	596	205	-	200	900	95112903
S2.100.200.1150.4.70H.C.404.G.N.D	C	1633	883	300	600	596	205	-	200	950	95112904
S2.100.200.1150.4.70H.H.404.G.N.D	H	1654	883	300	600	596	226	DN 250	200	1260	95112905
S2.100.200.1150.4.70H.D.404.G.N.D	D	1654	883	300	600	596	226	DN 250	200	950	96797007
S2.100.200.1600.4.70H.S.430.G.N.D	S	1788	1083	300	800	596	205	-	200	1200	95112915
S2.100.200.1600.4.70H.C.430.G.N.D	C	1788	1083	300	800	596	205	-	200	1350	95112916
S2.100.200.1600.4.70H.H.430.G.N.D	H	1809	883	300	600	596	226	DN 250	200	1350	95112917
S2.100.200.1600.4.70H.D.430.G.N.D	D	1809	883	300	600	596	226	DN 250	200	1350	96797022

With 10 m cable

Electrical data

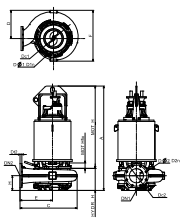
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm^2]	M_{max} [Nm]
S1.100.200.850.4.70H.S.432.G.N.D	90	85	4	1478	Y/D	154	1044	94	95	94	0.75	0.83	0.85	2.2197	1647
S1.100.200.850.4.70H.C.432.G.N.D	90	85	4	1478	Y/D	154	1044	94	95	94	0.75	0.83	0.85	2.2197	1647
S1.100.200.850.4.70H.H.432.G.N.D	90	85	4	1478	Y/D	154	1044	94	95	94	0.75	0.83	0.85	2.2197	1647
S1.100.200.850.4.70H.D.432.G.N.D	90	85	4	1478	Y/D	154	1044	94	95	94	0.75	0.83	0.85	2.2197	1647
S2.100.200.1150.4.70H.S.404.G.N.D	122	115	4	1475	Y/D	211	1430	94	95	94	0.69	0.79	0.84	2.1463	2232
S2.100.200.1150.4.70H.C.404.G.N.D	122	115	4	1475	Y/D	211	1430	94	95	94	0.69	0.79	0.84	2.1463	2232
S2.100.200.1150.4.70H.H.404.G.N.D	122	115	4	1475	Y/D	211	1430	94	95	94	0.69	0.79	0.84	2.1463	2232
S2.100.200.1150.4.70H.D.404.G.N.D	122	115	4	1475	Y/D	211	1430	94	95	94	0.69	0.79	0.84	2.1463	2232
S2.100.200.1600.4.70H.S.430.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	3	3414
S2.100.200.1600.4.70H.C.430.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	3	3414
S2.100.200.1600.4.70H.H.430.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	3	3414
S2.100.200.1600.4.70H.D.430.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	3	3414

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.100.200.850.4.70H.S.432.G.N.D	432	100	10	20
S1.100.200.850.4.70H.C.432.G.N.D	432	100	10	20
S1.100.200.850.4.70H.H.432.G.N.D	432	100	10	20
S1.100.200.850.4.70H.D.432.G.N.D	432	100	10	20
S2.100.200.1150.4.70H.S.404.G.N.D	404	100	10	20
S2.100.200.1150.4.70H.C.404.G.N.D	404	100	10	20
S2.100.200.1150.4.70H.H.404.G.N.D	404	100	10	20
S2.100.200.1150.4.70H.D.404.G.N.D	404	100	10	20
S2.100.200.1600.4.70H.S.430.G.N.D	430	100	10	20
S2.100.200.1600.4.70H.C.430.G.N.D	430	100	10	20
S2.100.200.1600.4.70H.H.430.G.N.D	430	100	10	20
S2.100.200.1600.4.70H.D.430.G.N.D	430	100	10	20

Dimensional sketches

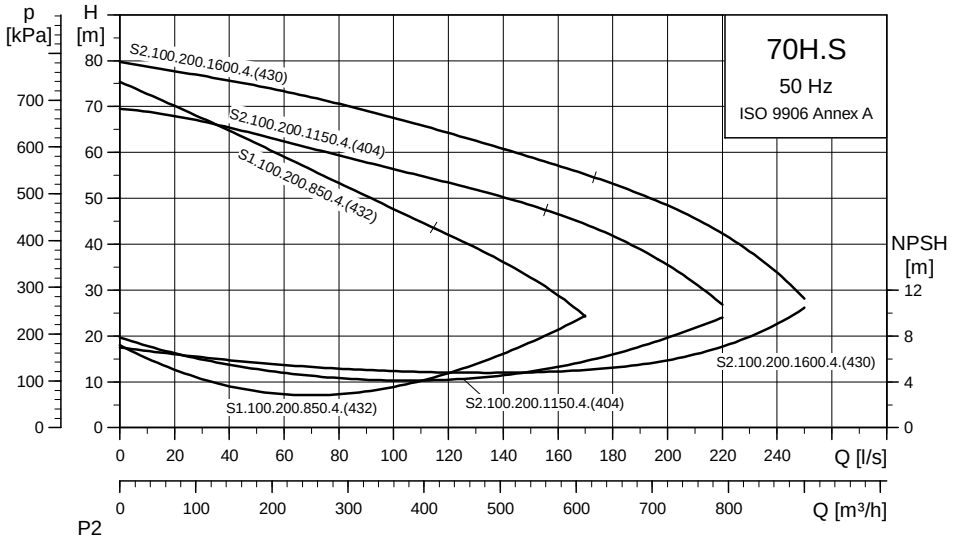


TM04 2412 2508

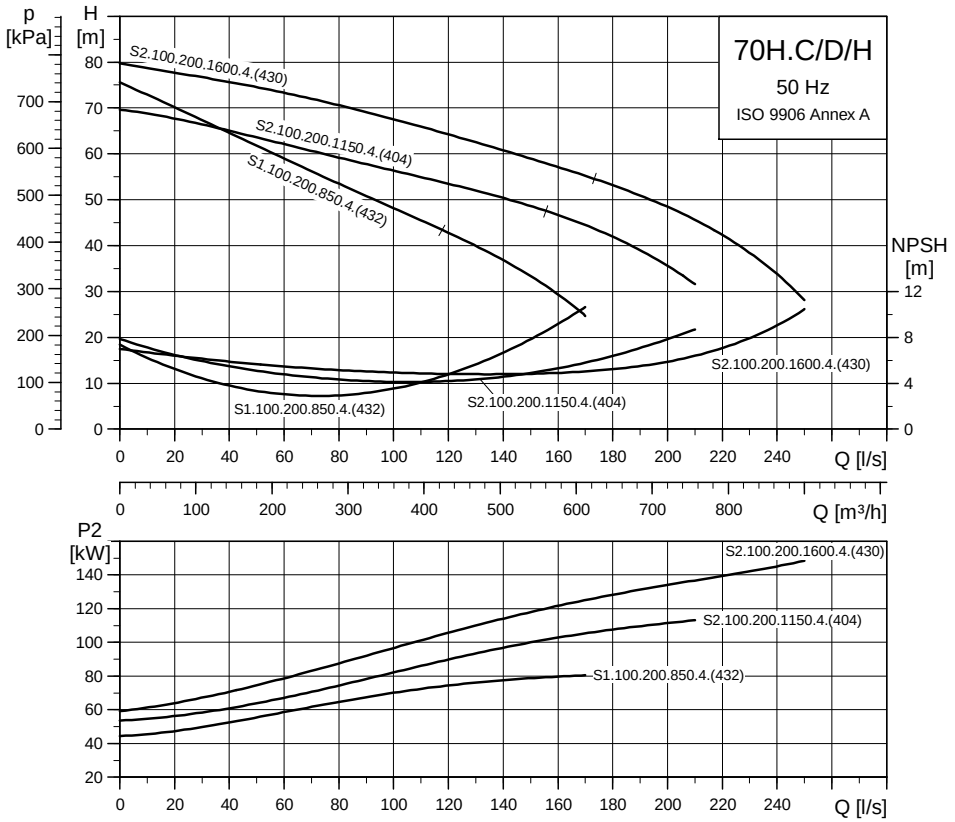
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

High pressure - 3 x 415 V

S1.100 and S2.100



TM04 0658 0908



TM04 0686 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.100.200.850.4.70H.S.432.G.N.D	S	1653	1083	300	800	596	225	-	200	900	96796899
S1.100.200.850.4.70H.C.432.G.N.D	C	1653	1083	300	800	596	225	-	200	950	96796900
S1.100.200.850.4.70H.D.432.G.N.D	D	1654	883	300	600	596	226	DN 250	200	950	96796923
S1.100.200.850.4.70H.H.432.G.N.D	H	1654	883	300	600	596	226	DN 250	200	950	96796924
S2.100.200.1150.4.70H.S.404.G.N.D	S	1633	883	300	600	596	205	-	200	900	96797005
S2.100.200.1150.4.70H.C.404.G.N.D	C	1633	883	300	600	596	205	-	200	950	96797006
S2.100.200.1150.4.70H.D.404.G.N.D	D	1654	883	300	600	596	226	DN 250	200	950	96797008
S2.100.200.1150.4.70H.H.404.G.N.D	H	1654	883	300	600	596	226	DN 250	200	1260	96797009
S2.100.200.1600.4.70H.S.430.G.N.D	S	1788	1083	300	800	596	205	-	200	1200	96797020
S2.100.200.1600.4.70H.C.430.G.N.D	C	1788	1083	300	800	596	205	-	200	1350	96797021
S2.100.200.1600.4.70H.D.430.G.N.D	D	1809	883	300	600	596	226	DN 250	200	1350	96797023
S2.100.200.1600.4.70H.H.430.G.N.D	H	1809	883	300	600	596	226	DN 250	200	1350	96797024

With 10 m cable

Electrical data

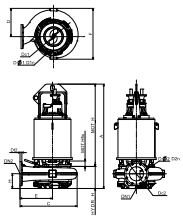
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm^2]	M_{max} [Nm]
S1.100.200.850.4.70H.S.432.G.N.D	90	85	4	1478	Y/D	149	1006	94	95	94	0.75	0.83	0.85	2.2197	1647
S1.100.200.850.4.70H.C.432.G.N.D	90	85	4	1478	Y/D	149	1006	94	95	94	0.75	0.83	0.85	2.2197	1647
S1.100.200.850.4.70H.D.432.G.N.D	90	85	4	1478	Y/D	149	1006	94	95	94	0.75	0.83	0.85	2.2197	1647
S1.100.200.850.4.70H.H.432.G.N.D	90	85	4	1478	Y/D	149	1006	94	95	94	0.75	0.83	0.85	2.2197	1647
S2.100.200.1150.4.70H.S.404.G.N.D	122	115	4	1475	Y/D	203	1378	94	95	94	0.69	0.79	0.84	2.1463	2232
S2.100.200.1150.4.70H.C.404.G.N.D	122	115	4	1475	Y/D	203	1378	94	95	94	0.69	0.79	0.84	2.1463	2232
S2.100.200.1150.4.70H.D.404.G.N.D	122	115	4	1475	Y/D	203	1378	94	95	94	0.69	0.79	0.84	2.1463	2232
S2.100.200.1150.4.70H.H.404.G.N.D	122	115	4	1475	Y/D	203	1378	94	95	94	0.69	0.79	0.84	2.1463	2232
S2.100.200.1600.4.70H.S.430.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	3	3414
S2.100.200.1600.4.70H.C.430.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	3	3414
S2.100.200.1600.4.70H.D.430.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	3	3414
S2.100.200.1600.4.70H.H.430.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	3	3414

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.100.200.850.4.70H.S.432.G.N.D	432	100	10	20
S1.100.200.850.4.70H.C.432.G.N.D	432	100	10	20
S1.100.200.850.4.70H.D.432.G.N.D	432	100	10	20
S1.100.200.850.4.70H.H.432.G.N.D	432	100	10	20
S2.100.200.1150.4.70H.S.404.G.N.D	404	100	10	20
S2.100.200.1150.4.70H.C.404.G.N.D	404	100	10	20
S2.100.200.1150.4.70H.D.404.G.N.D	404	100	10	20
S2.100.200.1150.4.70H.H.404.G.N.D	404	100	10	20
S2.100.200.1600.4.70H.S.430.G.N.D	430	100	10	20
S2.100.200.1600.4.70H.C.430.G.N.D	430	100	10	20
S2.100.200.1600.4.70H.D.430.G.N.D	430	100	10	20
S2.100.200.1600.4.70H.H.430.G.N.D	430	100	10	20

Dimensional sketches

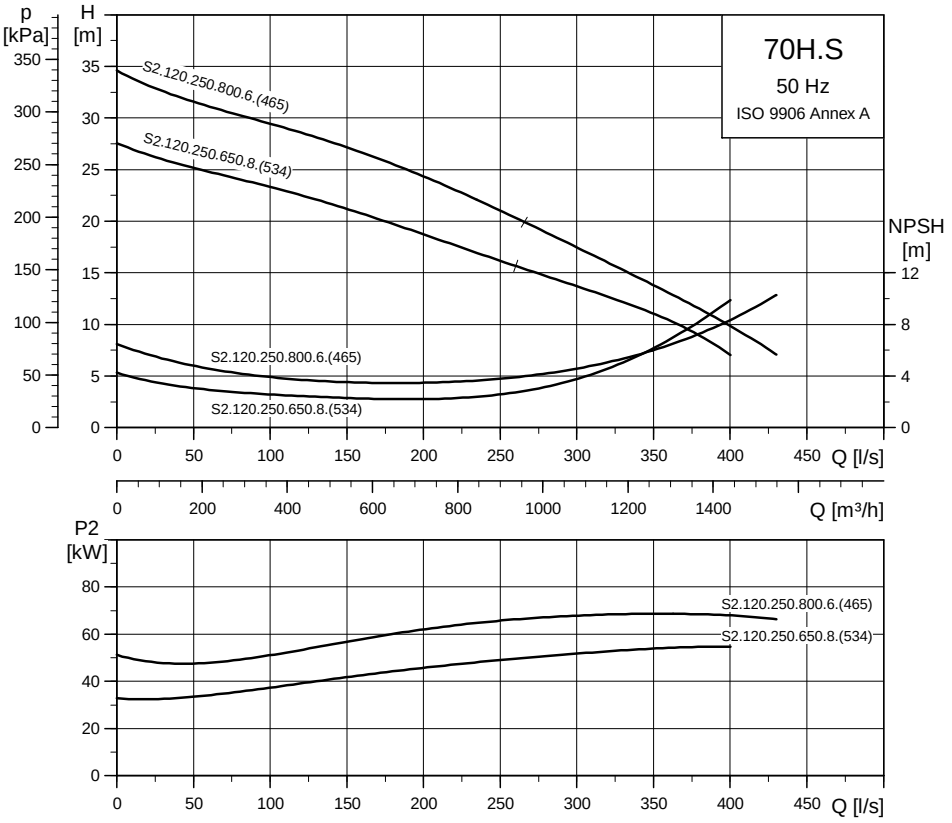


TM04 2412 2508

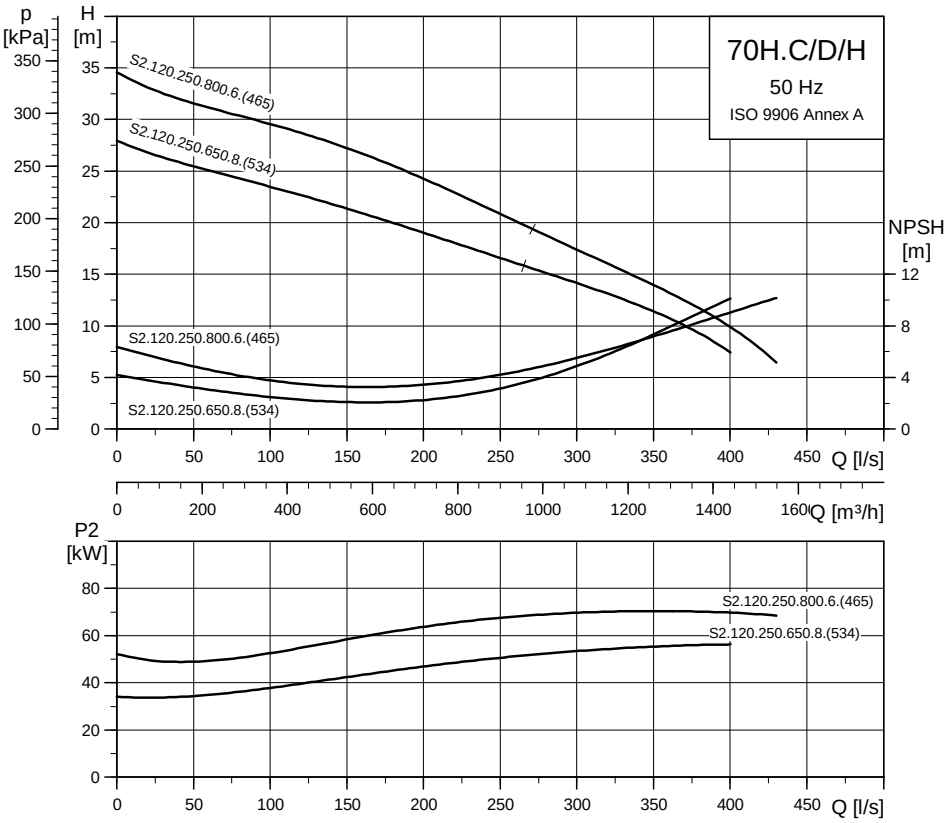
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

High pressure - 3 x 400/690 V

S2.120.250.650 and S2.120.250.800



TM04 1932 0908



TM04 1934 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.120.250.650.8.70H.S.534.G.N.D	S	1689	1193	478	750	891	235	-	250	1200	95112927
S2.120.250.650.8.70H.C.534.G.N.D	C	1689	1193	478	750	891	235	-	250	1250	95112928
S2.120.250.650.8.70H.D.534.G.N.D	D	1744	1193	478	750	891	290	DN 300	250	1250	95112929
S2.120.250.650.8.70H.H.534.G.N.D	H	1744	1193	478	750	891	290	DN 300	250	1250	96796933
S2.120.250.800.6.70H.S.465.G.N.D	S	1689	1193	478	750	891	235	-	250	1280	95112930
S2.120.250.800.6.70H.C.465.G.N.D	C	1689	1193	478	750	891	235	-	250	1370	95112931
S2.120.250.800.6.70H.D.465.G.N.D	D	1744	1193	478	750	891	290	DN 300	250	1380	95112932
S2.120.250.800.6.70H.H.465.G.N.D	H	1744	1193	478	750	891	290	DN 300	250	1380	96796953

With 10 m cable

Electrical data

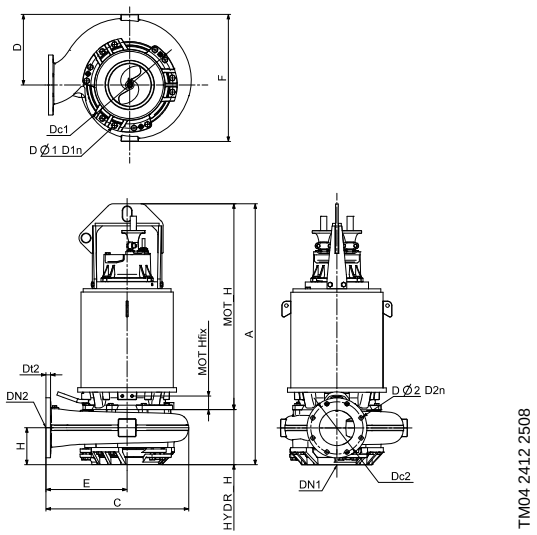
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm^2]	M_{max} [Nm]
S2.120.250.650.8.70H.S.534.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	4.7863	2135
S2.120.250.650.8.70H.C.534.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	4.7863	2135
S2.120.250.650.8.70H.D.534.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	4.7863	2135
S2.120.250.650.8.70H.H.534.G.N.D	70	65	8	732	Y/D	121	733	94	94	93	0.70	0.80	0.84	4.7863	2135
S2.120.250.800.6.70H.S.465.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.8727	2090
S2.120.250.800.6.70H.C.465.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.8727	2090
S2.120.250.800.6.70H.D.465.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.8727	2090
S2.120.250.800.6.70H.H.465.G.N.D	87	80	6	988	Y/D	155	1249	91	92	92	0.64	0.75	0.81	3.8727	2090

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.120.250.650.8.70H.S.534.G.N.D	534	120	10	20
S2.120.250.650.8.70H.C.534.G.N.D	534	120	10	20
S2.120.250.650.8.70H.D.534.G.N.D	534	120	10	20
S2.120.250.650.8.70H.H.534.G.N.D	534	120	10	20
S2.120.250.800.6.70H.S.465.G.N.D	465	120	10	20
S2.120.250.800.6.70H.C.465.G.N.D	465	120	10	20
S2.120.250.800.6.70H.D.465.G.N.D	465	120	10	20
S2.120.250.800.6.70H.H.465.G.N.D	465	120	10	20

Dimensional sketches

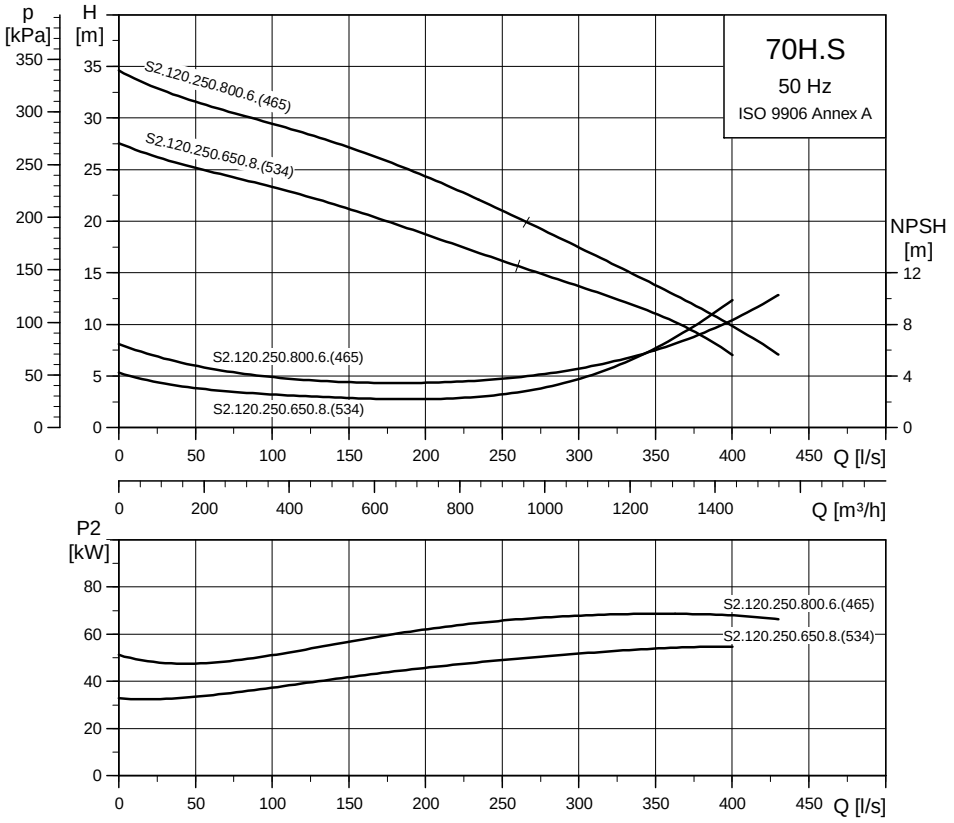


TM04 2412 2508

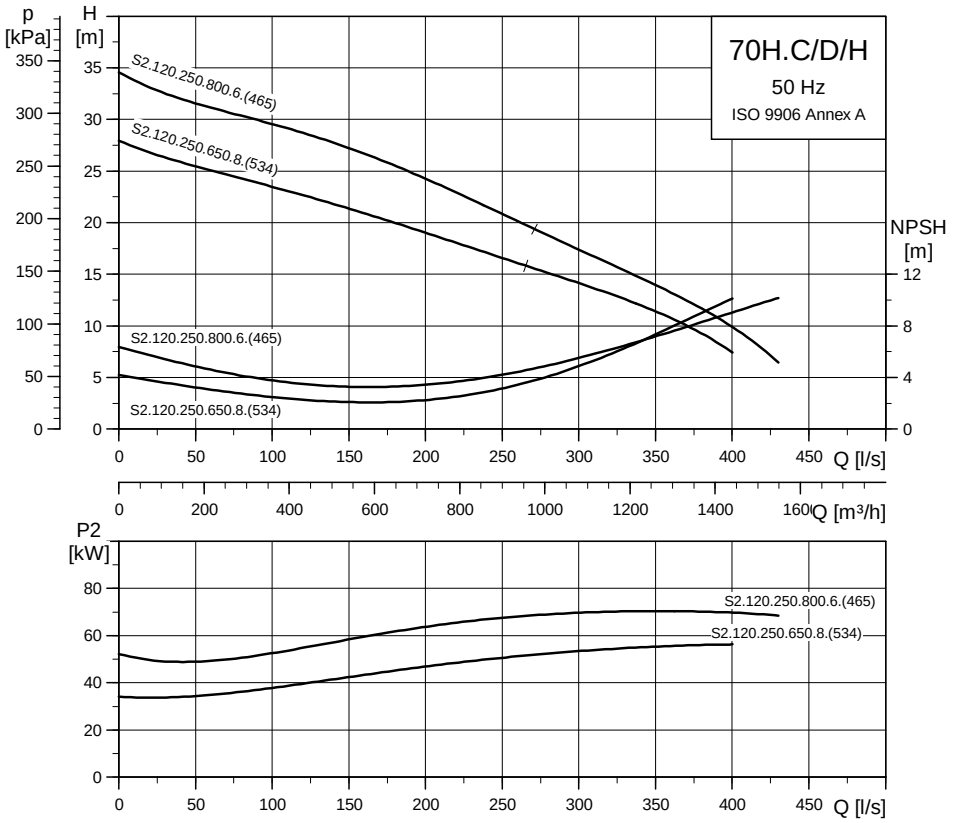
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

High pressure - 3 x 415 V

S2.120.250.650 and S2.120.250.800



TM04 1932 0908



TM04 1934 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.120.250.650.8.70H.S.534.G.N.D	S	1689	1193	478	750	891	235	-	250	1200	96796930
S2.120.250.650.8.70H.C.534.G.N.D	C	1689	1193	478	750	891	235	-	250	1250	96796931
S2.120.250.650.8.70H.D.534.G.N.D	D	1744	1193	478	750	891	290	DN 300	250	1250	96796932
S2.120.250.650.8.70H.H.534.G.N.D	H	1744	1193	478	750	891	290	DN 300	250	1250	96796934
S2.120.250.800.6.70H.S.465.G.N.D	S	1689	1193	478	750	891	235	-	250	1280	96796950
S2.120.250.800.6.70H.C.465.G.N.D	C	1689	1193	478	750	891	235	-	250	1370	96796951
S2.120.250.800.6.70H.D.465.G.N.D	D	1744	1193	478	750	891	290	DN 300	250	1380	96796952
S2.120.250.800.6.70H.H.465.G.N.D	H	1744	1193	478	750	891	290	DN 300	250	1380	96796954

With 10 m cable

Electrical data

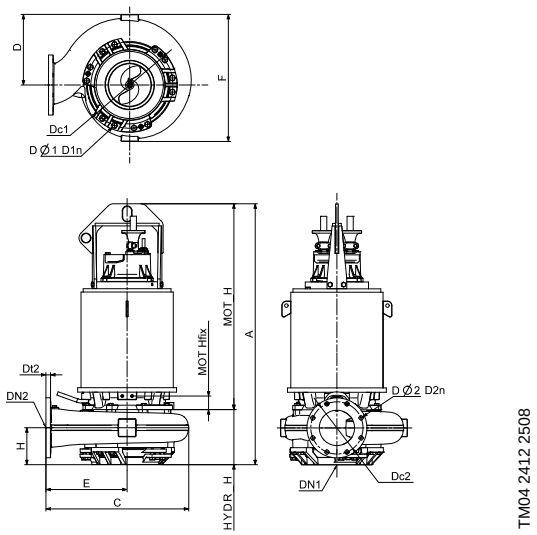
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm^2]	M_{max} [Nm]
S2.120.250.650.8.70H.S.534.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	4.7863	2135
S2.120.250.650.8.70H.C.534.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	4.7863	2135
S2.120.250.650.8.70H.D.534.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	4.7863	2135
S2.120.250.650.8.70H.H.534.G.N.D	70	65	8	732	Y/D	116	706	94	94	93	0.70	0.80	0.84	4.7863	2135
S2.120.250.800.6.70H.S.465.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.8727	2090
S2.120.250.800.6.70H.C.465.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.8727	2090
S2.120.250.800.6.70H.D.465.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.8727	2090
S2.120.250.800.6.70H.H.465.G.N.D	87	80	6	988	Y/D	149	1203	91	92	92	0.64	0.75	0.81	3.8727	2090

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.120.250.650.8.70H.S.534.G.N.D	534	120	10	20
S2.120.250.650.8.70H.C.534.G.N.D	534	120	10	20
S2.120.250.650.8.70H.D.534.G.N.D	534	120	10	20
S2.120.250.650.8.70H.H.534.G.N.D	534	120	10	20
S2.120.250.800.6.70H.S.465.G.N.D	465	120	10	20
S2.120.250.800.6.70H.C.465.G.N.D	465	120	10	20
S2.120.250.800.6.70H.D.465.G.N.D	465	120	10	20
S2.120.250.800.6.70H.H.465.G.N.D	465	120	10	20

Dimensional sketches

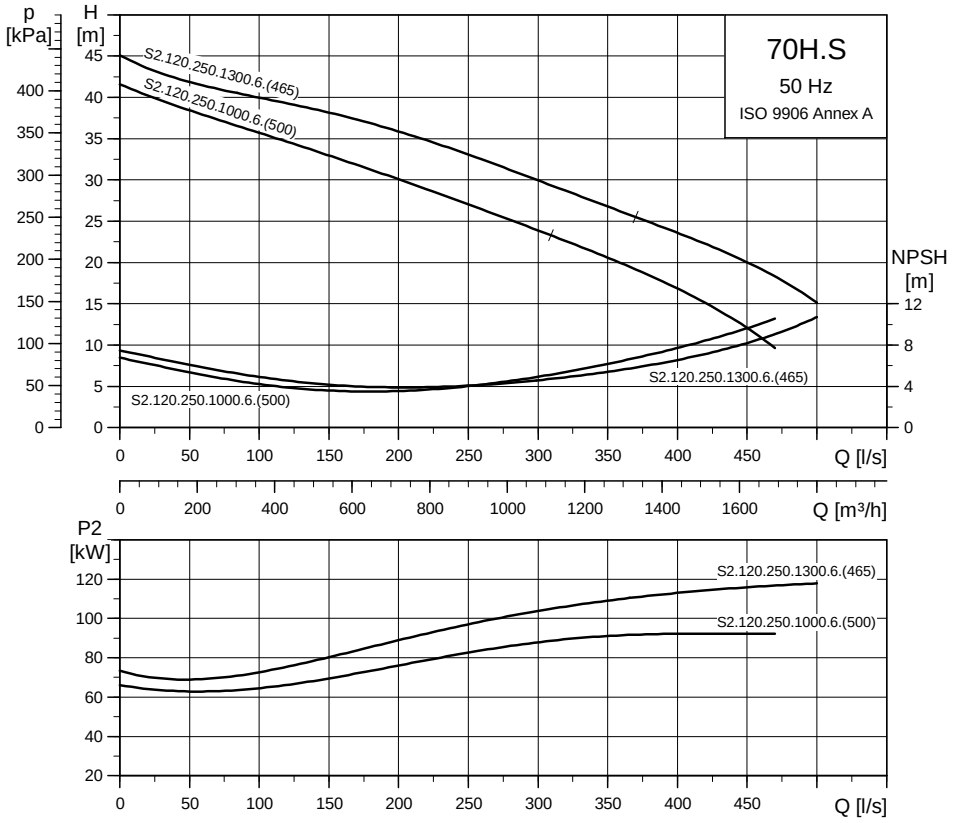


TM04 2412 2508

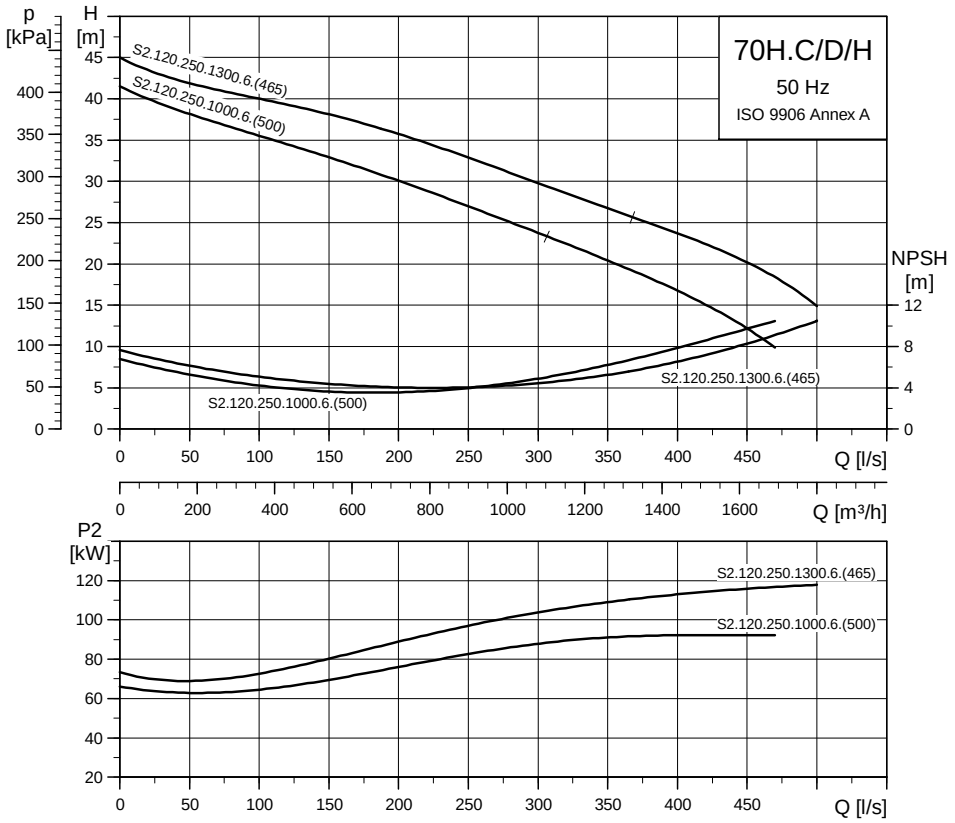
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

High pressure - 3 x 400/690 V

S2.120.250.1000 and S2.120.250.1300



TM04 1931 0908



TM04 1933 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.120.250.1000.6.70H.S.500.G.N.D	S	1689	1193	478	750	891	235	-	250	1260	95112900
S2.120.250.1000.6.70H.C.500.G.N.D	C	1689	1193	478	750	891	235	-	250	1320	95112901
S2.120.250.1000.6.70H.D.500.G.N.D	D	1744	1193	478	750	891	290	DN 300	250	1320	95112902
S2.120.250.1000.6.70H.H.500.G.N.D	H	1744	1193	478	750	891	290	DN 300	250	1320	96796968
S2.120.250.1300.6.70H.S.528.G.N.D	S	1844	1193	478	750	891	235	-	250	1300	95112912
S2.120.250.1300.6.70H.C.528.G.N.D	C	1844	1193	478	750	891	235	-	250	1320	95112913
S2.120.250.1300.6.70H.D.528.G.N.D	D	1899	1193	478	750	891	290	DN 300	250	1320	95112914
S2.120.250.1300.6.70H.H.528.G.N.D	H	1899	1193	478	750	891	290	DN 300	250	1320	96796988

With 10 m cable

Electrical data

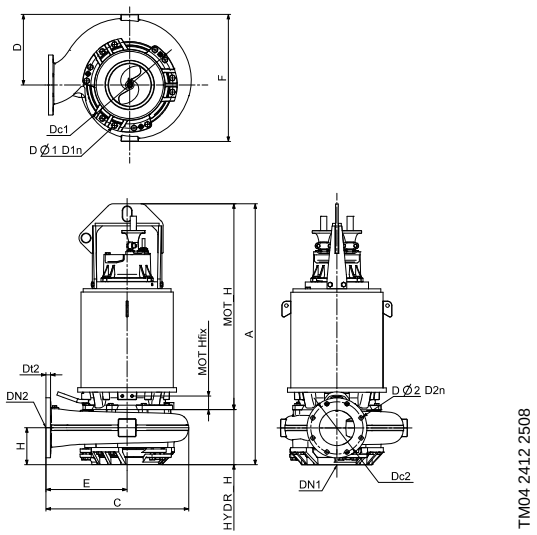
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm²]	M_{max} [Nm]
S2.120.250.1000.6.70H.S.500.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	4.296	2090
S2.120.250.1000.6.70H.C.500.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	4.296	2090
S2.120.250.1000.6.70H.D.500.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	4.296	2090
S2.120.250.1000.6.70H.H.500.G.N.D	109	100	6	984	Y/D	190	1249	91	92	92	0.70	0.80	0.83	4.296	2090
S2.120.250.1300.6.70H.S.528.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.4103	3273
S2.120.250.1300.6.70H.C.528.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.4103	3273
S2.120.250.1300.6.70H.D.528.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.4103	3273
S2.120.250.1300.6.70H.H.528.G.N.D	141	130	6	984	Y/D	265	1965	90	92	92	0.62	0.72	0.77	5.4103	3273

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.120.250.1000.6.70H.S.500.G.N.D	500	120	10	20
S2.120.250.1000.6.70H.C.500.G.N.D	500	120	10	20
S2.120.250.1000.6.70H.D.500.G.N.D	500	120	10	20
S2.120.250.1000.6.70H.H.500.G.N.D	500	120	10	20
S2.120.250.1300.6.70H.S.528.G.N.D	528	120	10	20
S2.120.250.1300.6.70H.C.528.G.N.D	528	120	10	20
S2.120.250.1300.6.70H.D.528.G.N.D	528	120	10	20
S2.120.250.1300.6.70H.H.528.G.N.D	528	120	10	20

Dimensional sketches

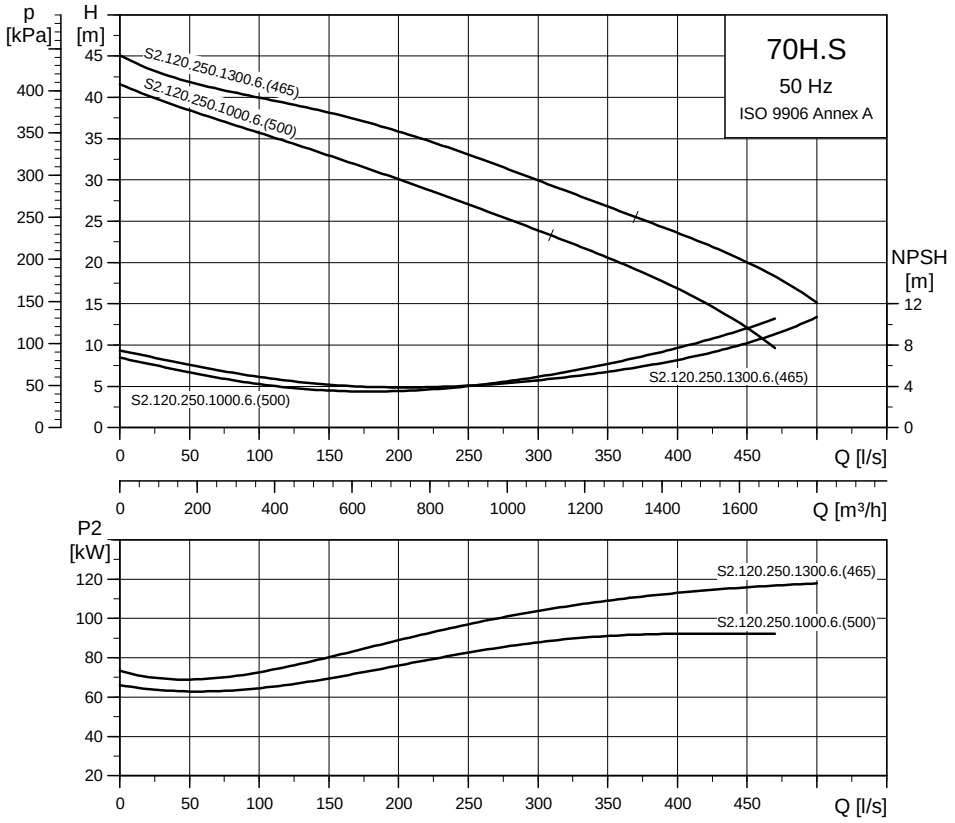


TM04 2412 2508

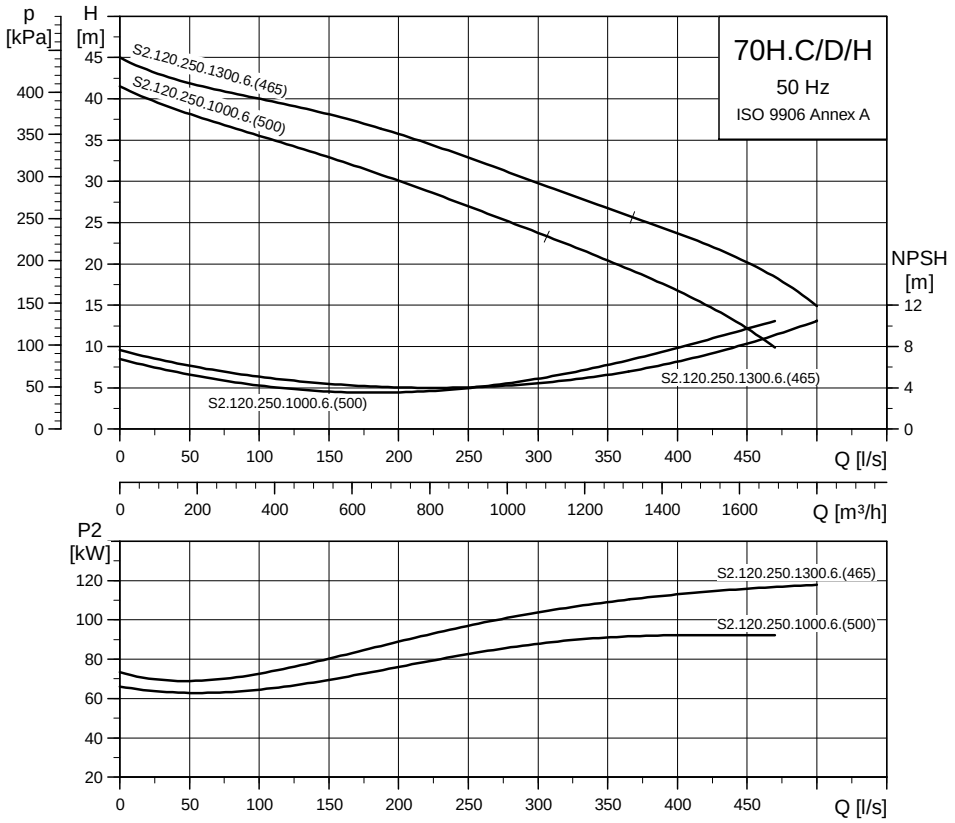
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

High pressure - 3 x 415 V

S2.120.250.1000 and S2.120.250.1300



TM04 1931 0908



TM04 1933 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.120.250.1000.6.70H.S.500.G.N.D	S	1689	1193	478	750	891	235	-	250	1260	96796965
S2.120.250.1000.6.70H.C.500.G.N.D	C	1689	1193	478	750	891	235	-	250	1320	96796966
S2.120.250.1000.6.70H.D.500.G.N.D	D	1744	1193	478	750	891	290	DN 300	250	1320	96796967
S2.120.250.1000.6.70H.H.500.G.N.D	H	1744	1193	478	750	891	290	DN 300	250	1320	96796969
S2.120.250.1300.6.70H.S.528.G.N.D	S	1844	1193	478	750	891	235	-	250	1300	96796985
S2.120.250.1300.6.70H.C.528.G.N.D	C	1844	1193	478	750	891	235	-	250	1320	96796986
S2.120.250.1300.6.70H.D.528.G.N.D	D	1899	1193	478	750	891	290	DN 300	250	1320	96796987
S2.120.250.1300.6.70H.H.528.G.N.D	H	1899	1193	478	750	891	290	DN 300	250	1320	96796989

With 10 m cable

Electrical data

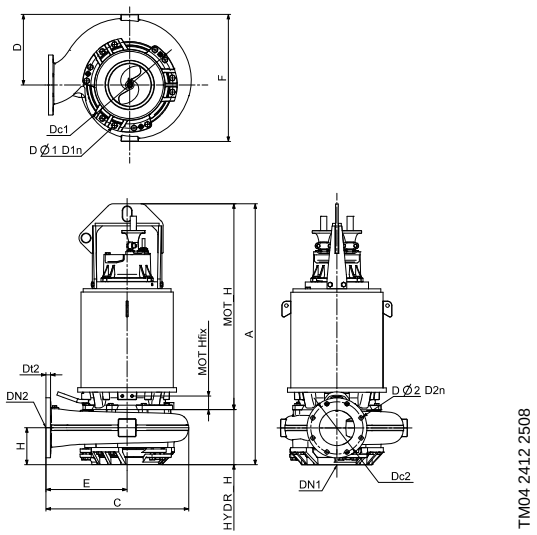
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	η_{motor} [%] 3/4	η_{motor} [%] 1/1	Cos φ 1/2	Cos φ 3/4	Cos φ 1/1	Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
S2.120.250.1000.6.70H.S.500.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	4.296	2090
S2.120.250.1000.6.70H.C.500.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	4.296	2090
S2.120.250.1000.6.70H.D.500.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	4.296	2090
S2.120.250.1000.6.70H.H.500.G.N.D	109	100	6	984	Y/D	183	1203	91	92	92	0.70	0.80	0.83	4.296	2090
S2.120.250.1300.6.70H.S.528.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.4103	3273
S2.120.250.1300.6.70H.C.528.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.4103	3273
S2.120.250.1300.6.70H.D.528.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.4103	3273
S2.120.250.1300.6.70H.H.528.G.N.D	141	130	6	984	Y/D	256	1894	90	92	92	0.62	0.72	0.77	5.4103	3273

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.120.250.1000.6.70H.S.500.G.N.D	500	120	10	20
S2.120.250.1000.6.70H.C.500.G.N.D	500	120	10	20
S2.120.250.1000.6.70H.D.500.G.N.D	500	120	10	20
S2.120.250.1000.6.70H.H.500.G.N.D	500	120	10	20
S2.120.250.1300.6.70H.S.528.G.N.D	528	120	10	20
S2.120.250.1300.6.70H.C.528.G.N.D	528	120	10	20
S2.120.250.1300.6.70H.D.528.G.N.D	528	120	10	20
S2.120.250.1300.6.70H.H.528.G.N.D	528	120	10	20

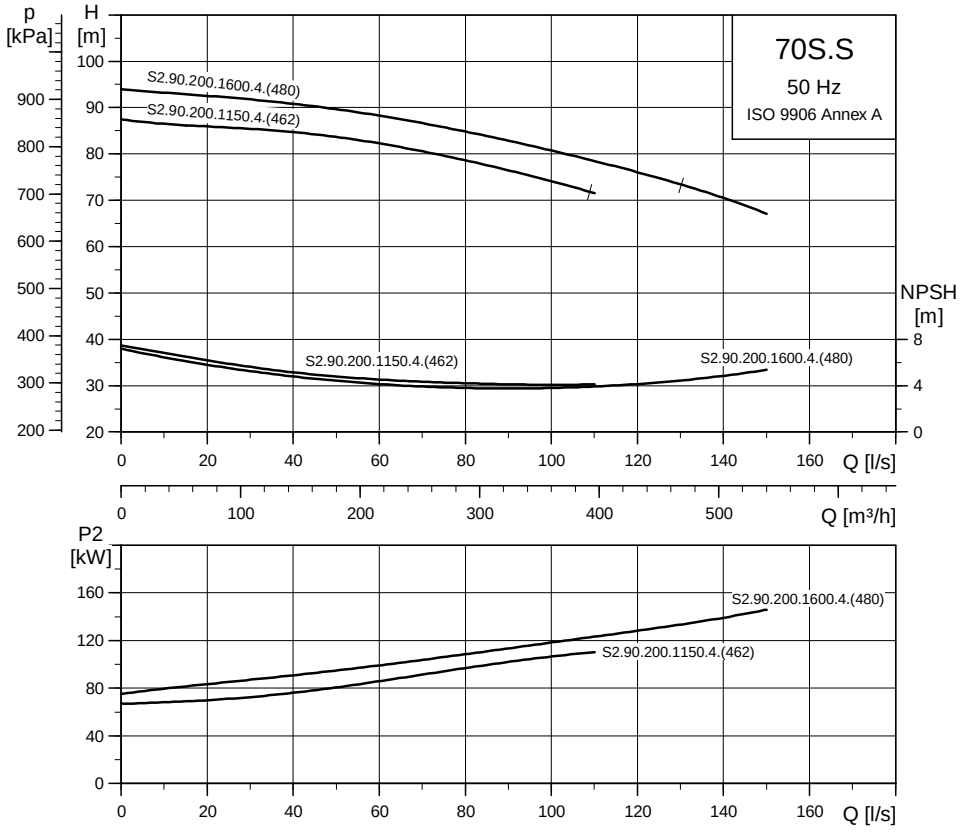
Dimensional sketches



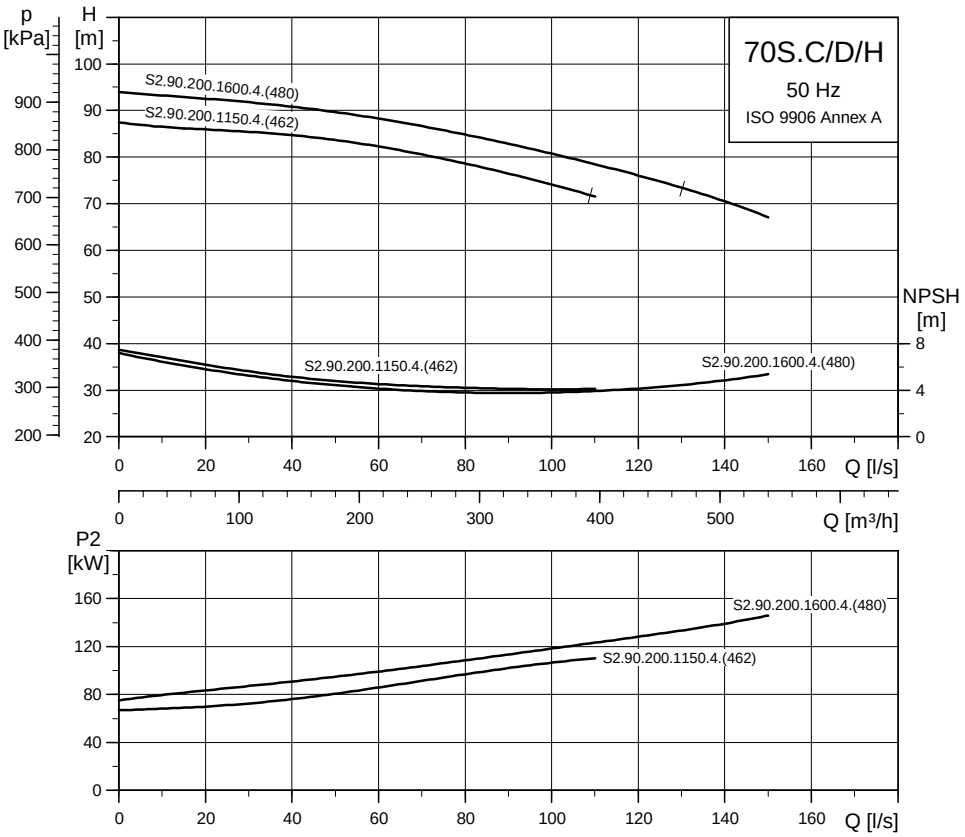
TM04 2412 2508

Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Super-high pressure - 3 x 400/690 V



TM04 1871 0908



TM04 1872 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.90.200.1150.4.70S.S.462.G.N.D	S	1615	1069	360	750	710	185	-	200	900	95112909
S2.90.200.1150.4.70S.C.462.G.N.D	C	1615	1069	360	750	710	185	-	200	950	95112910
S2.90.200.1150.4.70S.H.462.G.N.D	H	1660	1069	360	750	710	229	DN 250	200	950	95112911
S2.90.200.1150.4.70S.D.462.G.N.D	D	1660	1069	360	750	710	229	DN 250	200	950	96797017
S2.90.200.1600.4.70S.S.480.G.N.D	S	1770	1069	360	750	710	185	-	200	1300	95112924
S2.90.200.1600.4.70S.C.480.G.N.D	C	1770	1069	360	750	710	185	-	200	1350	95112925
S2.90.200.1600.4.70S.H.480.G.N.D	H	1815	1069	360	750	710	229	DN 250	200	1350	95112926
S2.90.200.1600.4.70S.D.480.G.N.D	D	1815	1069	360	750	710	229	DN 250	200	1350	96797037

With 10 m cable

Electrical data

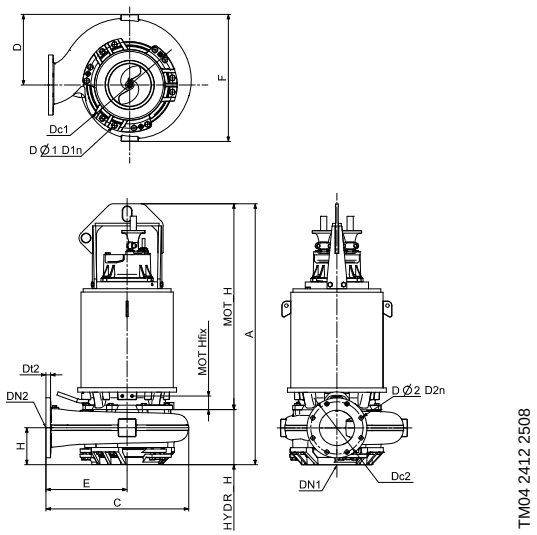
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm²]	M_{max} [Nm]
S2.90.200.1150.4.70S.S.462.G.N.D	122	115	4	1483	Y/D	211	1430	94	95	94	0.69	0.79	0.84	2.6	2232
S2.90.200.1150.4.70S.C.462.G.N.D	122	115	4	1483	Y/D	211	1430	94	95	94	0.69	0.79	0.84	2.6	2232
S2.90.200.1150.4.70S.H.462.G.N.D	122	115	4	1483	Y/D	211	1430	94	95	94	0.69	0.79	0.84	2.6	2232
S2.90.200.1150.4.70S.D.462.G.N.D	122	115	4	1483	Y/D	211	1430	94	95	94	0.69	0.79	0.84	2.6	2232
S2.90.200.1600.4.70S.S.480.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	3.1	3414
S2.90.200.1600.4.70S.C.480.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	3.1	3414
S2.90.200.1600.4.70S.H.480.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	3.1	3414
S2.90.200.1600.4.70S.D.480.G.N.D	167	155	4	1475	Y/D	280	2098	94	94	93	0.72	0.82	0.86	3.1	3414

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.90.200.1150.4.70S.S.462.G.N.D	462	90	10	20
S2.90.200.1150.4.70S.C.462.G.N.D	462	90	10	20
S2.90.200.1150.4.70S.H.462.G.N.D	462	90	10	20
S2.90.200.1150.4.70S.D.462.G.N.D	462	90	10	20
S2.90.200.1600.4.70S.S.480.G.N.D	480	90	10	20
S2.90.200.1600.4.70S.C.480.G.N.D	480	90	10	20
S2.90.200.1600.4.70S.H.480.G.N.D	480	90	10	20
S2.90.200.1600.4.70S.D.480.G.N.D	480	90	10	20

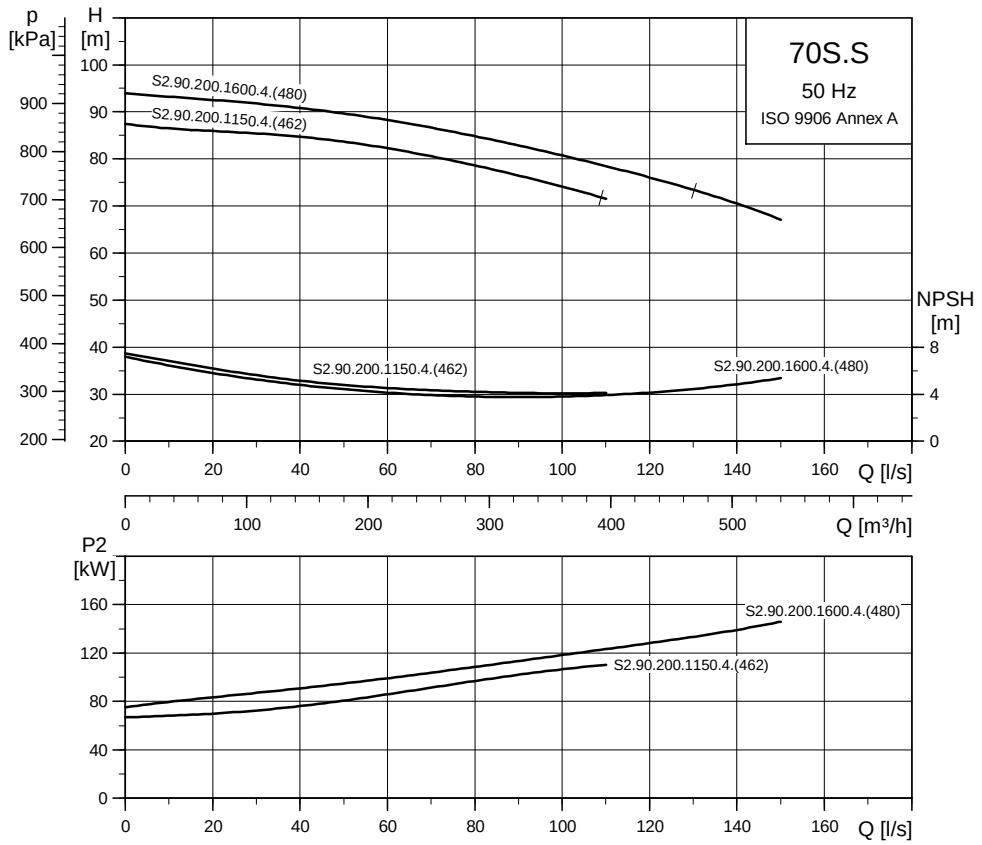
Dimensional sketches



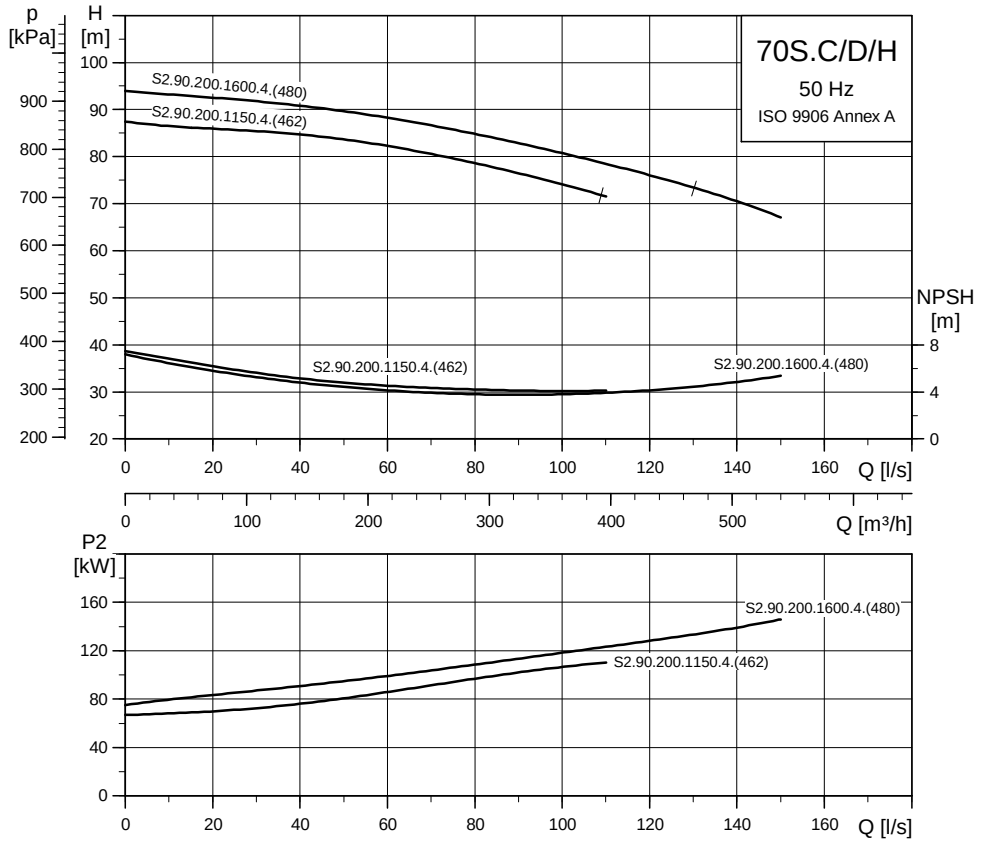
TM04 2412 2508

Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Super-high pressure - 3 x 415 V



TM04 1871 0908



TM04 1872 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S2.90.200.1150.4.70S.S.462.G.N.D	S	1615	1069	360	750	710	185	-	200	900	96797015
S2.90.200.1150.4.70S.C.462.G.N.D	C	1615	1069	360	750	710	185	-	200	950	96797016
S2.90.200.1150.4.70S.D.462.G.N.D	D	1660	1069	360	750	710	229	DN 250	200	950	96797018
S2.90.200.1150.4.70S.H.462.G.N.D	H	1660	1069	360	750	710	229	DN 250	200	950	96797019
S2.90.200.1600.4.70S.S.480.G.N.D	S	1770	1069	360	750	710	185	-	200	1300	96797035
S2.90.200.1600.4.70S.C.480.G.N.D	C	1770	1069	360	750	710	185	-	200	1350	96797036
S2.90.200.1600.4.70S.D.480.G.N.D	D	1815	1069	360	750	710	229	DN 250	200	1350	96797038
S2.90.200.1600.4.70S.H.480.G.N.D	H	1815	1069	360	750	710	229	DN 250	200	1350	96797039

With 10 m cable

Electrical data

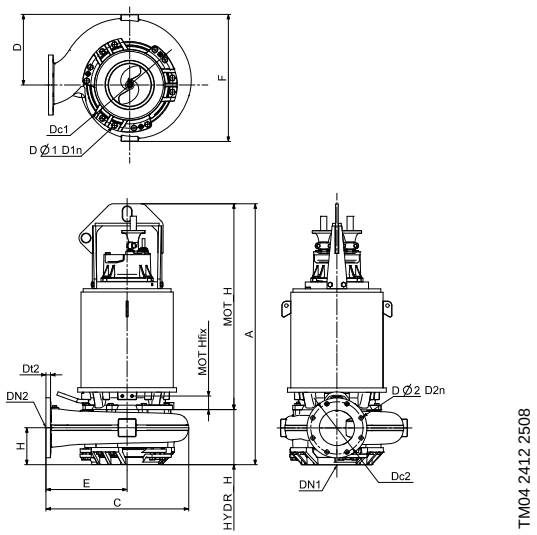
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm²]	M_{max} [Nm]
S2.90.200.1150.4.70S.S.462.G.N.D	122	115	4	1483	Y/D	203	1378	94	95	94	0.69	0.79	0.84	2.6	2232
S2.90.200.1150.4.70S.C.462.G.N.D	122	115	4	1483	Y/D	203	1378	94	95	94	0.69	0.79	0.84	2.6	2232
S2.90.200.1150.4.70S.D.462.G.N.D	122	115	4	1483	Y/D	203	1378	94	95	94	0.69	0.79	0.84	2.6	2232
S2.90.200.1150.4.70S.H.462.G.N.D	122	115	4	1483	Y/D	203	1378	94	95	94	0.69	0.79	0.84	2.6	2232
S2.90.200.1600.4.70S.S.480.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	3.1	3414
S2.90.200.1600.4.70S.C.480.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	3.1	3414
S2.90.200.1600.4.70S.D.480.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	3.1	3414
S2.90.200.1600.4.70S.H.480.G.N.D	167	155	4	1475	Y/D	270	2022	94	94	93	0.72	0.82	0.86	3.1	3414

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S2.90.200.1150.4.70S.S.462.G.N.D	462	90	10	20
S2.90.200.1150.4.70S.C.462.G.N.D	462	90	10	20
S2.90.200.1150.4.70S.D.462.G.N.D	462	90	10	20
S2.90.200.1150.4.70S.H.462.G.N.D	462	90	10	20
S2.90.200.1600.4.70S.S.480.G.N.D	480	90	10	20
S2.90.200.1600.4.70S.C.480.G.N.D	480	90	10	20
S2.90.200.1600.4.70S.D.480.G.N.D	480	90	10	20
S2.90.200.1600.4.70S.H.480.G.N.D	480	90	10	20

Dimensional sketches

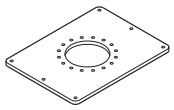
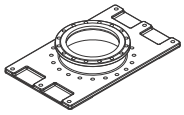


TM04 2412 2508

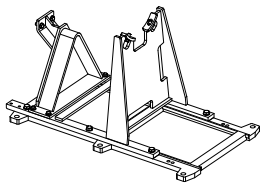
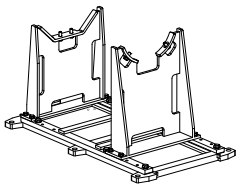
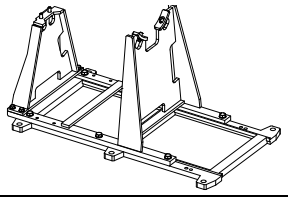
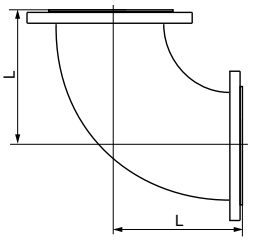
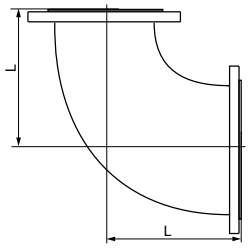
Size DN	PN	Dc	Dt	DØ
100	10	180	20	8 x 18
125	10	210	22	8 x 18
150	10	240	22	8 x 22
200	10	295	24	8 x 22
250	10	350	26	12 x 22

Accessories (for installation)

Pump type	Installation accessories
S 50-70 S and C	DN 80-200 without guide claw (guide claw included in auto-coupling kit)
S 50-70 S and C	DN 250-600 with guide claw mounted on the pump
S 50-70 D	Pump without installation accessories (accessories as separate kit)
S 50-70 H	Base stand for horizontal, dry installation supplied together with the pump

Pictures		Description		Size	Weight [kg]	PN	Product numbers
	GR8126	Cast-iron, epoxy-coated auto-coupling system complete with: • guide claw * • base unit • upper guide rail bracket • gaskets and bolts.	Discharge flange	DN 200	250	10	96641489
				DN 250	225	10	96782483
				DN 300	275	10	96782484
				DN 500	705	10	96782485
				DN 600	900	10	96782486
Intermediate guide rail bracket		For guide rails longer than 6 m		DN 200-600	8		96255842
Guide rails		Standard pipes. Not supplied by Grundfos					
	TM03 2015 3505	Base plate for vertical, dry installation. With gaskets and bolts. Steel, epoxy-coated.	Suction flange	DN 250	90		96308240
				DN 300	87		96308241
				DN 500	167		96308245
	TM04 3693 4908			DN 400	195		96308244

Accessories

Pictures	Description	Size	Weight [kg]	PN	Product numbers
 TM04 4158 0909	Base stand for horizontal, dry installation		140		96308192
 TM04 4160 0909			140		96308212
 TM04 4159 0909			125		96308255
 TM04 4033 0509	Equal bend L = 350 mm	DN 250		10	96060942
	Equal bend L = 400 mm	DN 300		10	96060946
	Equal bend L = 500 mm	DN 400		10	96060949
	Equal bend L = 600 mm	DN 500		10	96060951
 TM04 4034 0509	Reducing bend L = 350	DN 200 / DN 250		10	96090776
	Reducing bend L = 400	DN 200 / DN 300		10	96060940
	Reducing bend L = 500	DN 200 / DN 400		10	96605615
	Reducing bend L = 400	DN 250 / DN 300		10	96060943
	Reducing bend L = 450	DN 250 / DN 350		10	96060944
	Reducing bend L = 500	DN 250 / DN 400		10	96060945
	Reducing bend L = 500	DN 300 / DN 400		10	96060947
	Reducing bend L = 600	DN 400 / DN 500		10	96060950
	Reducing bend L = 700	DN 500 / DN 600		10	96733539

* Installation type S and C pumps with discharge flange size DN 250 and higher are supplied with guide claw mounted on the flange.

Other accessories

Pictures		Description	Dimensions		Product number
	TM02 6126 5102	4 m galvanized lifting chain with lifting link and safety hook. Certified.	3200 kg	S 70-72	96468294
		6 m galvanized lifting chain with lifting link and safety hook. Certified.			96468295
		8 m galvanized lifting chain with lifting link and safety hook. Certified.			96468296
		10 m galvanized lifting chain with lifting link and safety hook. Certified.			96468297
		12 m galvanized lifting chain with lifting link and safety hook. Certified.			96468298
		4 m stainless steel lifting chain with lifting link and safety hook. Certified.	3200 kg	S 70-72	96490259
		6 m stainless steel lifting chain with lifting link and safety hook. Certified.			96490270
		8 m stainless steel lifting chain with lifting link and safety hook. Certified.			96490271
		10 m stainless steel lifting chain with lifting link and safety hook. Certified.			96490272
		12 m stainless steel lifting chain with lifting link and safety hook. Certified.			96490273
	GR7871	AMD.07.18.1410 mixer, 3 x 400 V, 50 Hz			96113490
		Bracket for wall mounting	2” thread		96115291
		Bracket for floor mounting	2” thread		96115292
		Bracket for suspended mounting	2” thread		96115293
		Tube for suspended mounting, length 3 m	2” thread		96115294
	TM01 6982 3999	Float switch with 10 m cable			96003332
		Float switch with 20 m cable			96003695
		Float switch for use in potentially explosive environments. With 10 m cable			96003421
		Float switch for use in potentially explosive environments. With 20 m cable			96003536
	TM02 8862 0904	Bracket for two float switches			96003338
	TM02 0670 5000	Float switches with bracket, 10 m cable	2 switches, 1 pump without alarm		
			3 switches, 1 pump with alarm		
			3 switches, 2 pumps with alarm		
			4 switches, 2 pumps with alarm		
	TM02 0670 5000	Float switches for use in potentially explosive environments. With bracket and 10 m cable.	2 switches, 1 pump without alarm		62500016
			3 switches, 1 pump with alarm		62500017
			3 switches, 2 pumps with alarm		62500017
			4 switches, 2 pumps with alarm		62500018
	TM02 8860 0904	Bracket for level electrodes	For mounting on a 38 mm pipe		91713196

Installation on auto coupling

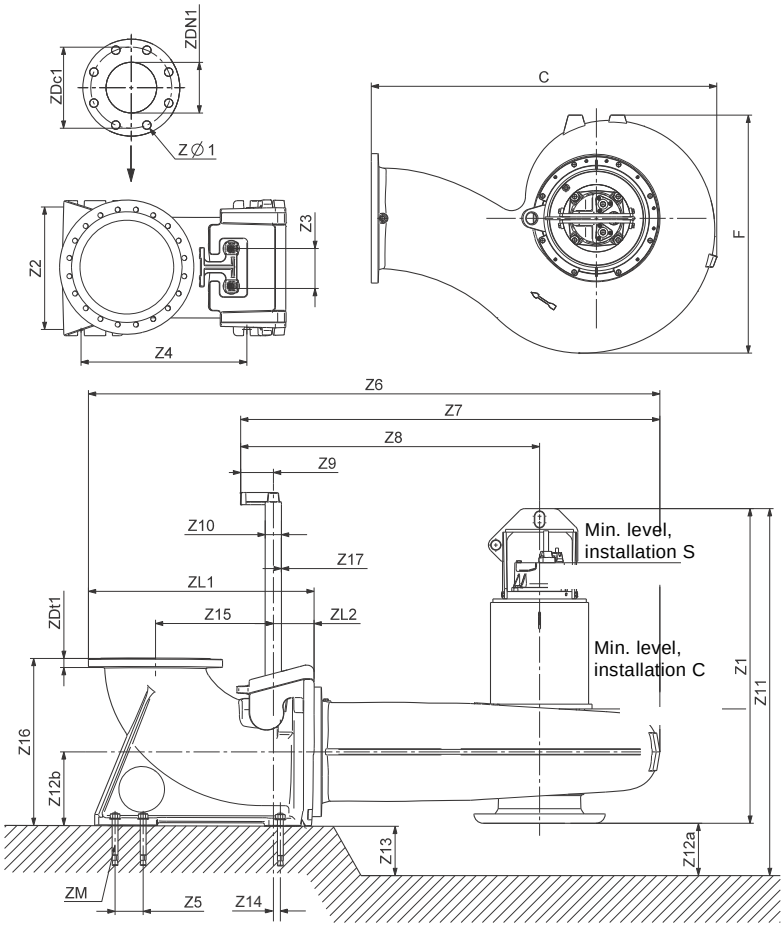


Fig. 15 Dimensional sketches, installation on auto-coupling system

Note: Z12a is minimal recommended distance from pit bottom to bottom of pump suction side.
Z11 is total height of pump installed on Grundfos installation accessory in the pit. NOTE: This figure might not equal Z12a + Z1.

Pump type	C	F	ZØ1	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	Z11
S1.100.200.850.4.70H.S.xxx.G.N.D	1083	596	8 x 23	1653	430	200	535	0	1844	1475	1192	170	88.0	1774
S1.100.200.850.4.70H.S.xxx.Q.N.D	1083	596	8 x 23	1653	430	200	535	0	1844	1475	1192	170	88.0	1774
S2.90.200.1150.4.70S.S.xxx.G.N.D	1069	710	8 x 23	1615	430	200	535	0	1830	1461	1142	170	88.0	1726
S2.90.200.1150.4.70S.S.xxx.Q.N.D	1069	710	8 x 23	1615	430	200	535	0	1830	1461	1142	170	88.0	1726
S2.90.200.1600.4.70S.S.xxx.G.N.D	1069	710	8 x 23	1770	430	200	535	0	1830	1461	1142	170	88.0	1881
S2.90.200.1600.4.70S.S.xxx.Q.N.D	1069	710	8 x 23	1770	430	200	535	0	1830	1461	1142	170	88.0	1881
S2.100.200.1150.4.70H.S.xxx.G.N.D	883	596	8 x 23	1633	430	200	535	0	1644	1275	992	170	88.0	1774
S2.100.200.1150.4.70H.S.xxx.Q.N.D	883	596	8 x 23	1633	430	200	535	0	1644	1275	992	170	88.0	1774
S2.100.200.1600.4.70H.S.xxx.G.N.D	1083	596	8 x 23	1788	430	200	535	0	1844	1475	1192	170	88.0	1929
S2.100.200.1600.4.70H.S.xxx.Q.N.D	1083	596	8 x 23	1788	430	200	535	0	1844	1475	1192	170	88.0	1929
S2.110.200.850.4.70M.S.xxx.G.N.D	809	720	8 x 23	1638	430	200	535	0	1570	1201	852	170	88.0	1769
S2.110.200.850.4.70M.S.xxx.Q.N.D	809	720	8 x 23	1638	430	200	535	0	1570	1201	852	170	88.0	1769
S2.110.200.1150.4.70M.S.xxx.G.N.D	837	669	8 x 23	1636	430	200	535	0	1598	1229	942	170	88.0	1782
S2.110.200.1150.4.70M.S.xxx.Q.N.D	837	669	8 x 23	1636	430	200	535	0	1598	1229	942	170	88.0	1782
S2.110.200.1600.4.70M.S.xxx.G.N.D	837	669	8 x 23	1791	430	200	535	0	1598	1229	942	170	88.0	1937
S2.110.200.1600.4.70M.S.xxx.Q.N.D	837	669	8 x 23	1791	430	200	535	0	1598	1229	942	170	88.0	1937
S2.120.250.650.8.70H.S.xxx.G.N.D	1193	891	12 x 23	1689	471	200	565	0	1992	1585	1142	170	88.0	1828
S2.120.250.650.8.70H.S.xxx.Q.N.D	1193	891	12 x 23	1689	471	200	565	0	1992	1585	1142	170	88.0	1828
S2.120.250.800.6.70H.S.xxx.G.N.D	1193	891	12 x 23	1689	471	200	565	0	1992	1585	1142	170	88.0	1828
S2.120.250.800.6.70H.S.xxx.Q.N.D	1193	891	12 x 23	1689	471	200	565	0	1992	1585	1142	170	88.0	1828
S2.120.250.1000.6.70H.S.xxx.G.N.D	1193	891	12 x 23	1689	471	200	565	0	1992	1585	1142	170	88.0	1828
S2.120.250.1000.6.70H.S.xxx.Q.N.D	1193	891	12 x 23	1689	471	200	565	0	1992	1585	1142	170	88.0	1828
S2.120.250.1300.6.70H.S.xxx.G.N.D	1193	891	12 x 23	1844	471	200	565	0	1992	1585	1142	170	88.0	2033
S2.120.250.1300.6.70H.S.xxx.Q.N.D	1193	891	12 x 23	1844	471	200	565	0	1992	1585	1142	170	88.0	2033
S2.120.250.1600.4.70L.S.xxx.G.N.D	1068	730	12 x 23	1825	471	200	565	0	1867	1460	1142	170	88.0	2016
S2.120.250.1600.4.70L.S.xxx.Q.N.D	1068	730	12 x 23	1825	471	200	565	0	1867	1460	1142	170	88.0	2016
S3.110.500.650.8.70L.S.xxx.G.N.D	1843	1269	20 x 27	1830	657	200	885	150	3028	2297	1654	170	88.0	2030
S3.110.500.650.8.70L.S.xxx.Q.N.D	1843	1269	20 x 27	1830	657	200	885	150	3028	2297	1654	170	88.0	2030
S3.110.500.800.6.70L.S.xxx.G.N.D	1843	1269	20 x 27	1830	657	200	885	150	3028	2297	1654	170	88.0	2030
S3.110.500.800.6.70L.S.xxx.Q.N.D	1843	1269	20 x 27	1830	657	200	885	150	3028	2297	1654	170	88.0	2030
S3.110.500.1000.6.70L.S.xxx.G.N.D	1843	1269	20 x 27	1830	657	200	885	150	3028	2297	1654	170	88.0	2080
S3.110.500.1000.6.70L.S.xxx.Q.N.D	1843	1269	20 x 27	1830	657	200	885	150	3028	2297	1654	170	88.0	2080
S3.110.500.1300.6.70L.S.xxx.G.N.D	1843	1269	20 x 27	1985	657	200	885	150	3028	2297	1654	170	88.0	2235
S3.110.500.1300.6.70L.S.xxx.Q.N.D	1843	1269	20 x 27	1985	657	200	885	150	3028	2297	1654	170	88.0	2235
S3.120.300.650.8.70M.S.xxx.G.N.D	1284	1041	12 x 23	1915	551	200	670	0	2185	1676	1152	170	88.0	2066
S3.120.300.650.8.70M.S.xxx.Q.N.D	1284	1041	12 x 23	1915	551	200	670	0	2185	1676	1152	170	88.0	2066
S3.120.300.800.6.70M.S.xxx.G.N.D	1139	907	12 x 23	1915	551	200	670	0	2040	1531	1092	170	88.0	2121
S3.120.300.800.6.70M.S.xxx.Q.N.D	1139	907	12 x 23	1915	551	200	670	0	2040	1531	1092	170	88.0	2121
S3.120.300.1000.6.70M.S.xxx.G.N.D	1139	907	12 x 23	1915	551	200	670	0	2040	1531	1092	170	88.0	2121
S3.120.300.1000.6.70M.S.xxx.Q.N.D	1139	907	12 x 23	1915	551	200	670	0	2040	1531	1092	170	88.0	2121
S3.120.300.1300.6.70M.S.xxx.G.N.D	1284	1041	12 x 23	2070	551	200	670	0	2185	1676	1152	170	88.0	2321
S3.120.300.1300.6.70M.S.xxx.Q.N.D	1284	1041	12 x 23	2070	551	200	670	0	2185	1676	1152	170	88.0	2321
S3.120.600.650.8.70E.S.xxx.G.N.D	2124	1506	20 x 31	1911	710	200	990	160	3444	2574	1800	170	88.0	2142
S3.120.600.650.8.70E.S.xxx.Q.N.D	2124	1506	20 x 31	1911	710	200	990	160	3444	2574	1800	170	88.0	2142
S3.120.600.1000.6.70E.S.xxx.G.N.D	2124	1506	20 x 31	1911	710	200	990	160	3444	2574	1800	170	88.0	2192
S3.120.600.1000.6.70E.S.xxx.Q.N.D	2124	1506	20 x 31	1911	710	200	990	160	3444	2574	1800	170	88.0	2192
S3.120.600.1300.6.70E.S.xxx.G.N.D	2124	1506	20 x 31	2066	710	200	990	160	3444	2574	1800	170	88.0	2347
S3.120.600.1300.6.70E.S.xxx.Q.N.D	2124	1506	20 x 31	2066	710	200	990	160	3444	2574	1800	170	88.0	2347

Dimensions

Pump type	Z12a	Z12b	Z13	Z14	Z15	Z16	Z17G	Z17S	ZDc1	DN1	ZDt1	ZL1	ZL2	ZM
S1.100.200.850.4.70H.S.xxx.G.N.D	121	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S1.100.200.850.4.70H.S.xxx.Q.N.D	121	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.90.200.1150.4.70S.S.xxx.G.N.D	111	196	100	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.90.200.1150.4.70S.S.xxx.Q.N.D	111	196	100	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.90.200.1600.4.70S.S.xxx.G.N.D	111	196	100	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.90.200.1600.4.70S.S.xxx.Q.N.D	111	196	100	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.100.200.1150.4.70H.S.xxx.G.N.D	141	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.100.200.1150.4.70H.S.xxx.Q.N.D	141	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.100.200.1600.4.70H.S.xxx.G.N.D	141	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.100.200.1600.4.70H.S.xxx.Q.N.D	141	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.110.200.850.4.70M.S.xxx.G.N.D	131	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.110.200.850.4.70M.S.xxx.Q.N.D	131	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.110.200.1150.4.70M.S.xxx.G.N.D	146	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.110.200.1150.4.70M.S.xxx.Q.N.D	146	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.110.200.1600.4.70M.S.xxx.G.N.D	146	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.110.200.1600.4.70M.S.xxx.Q.N.D	146	196	150	86	365	485	3.0	3.0	295	200	31	761	222	4 x M24
S2.120.250.650.8.70H.S.xxx.G.N.D	139	224	150	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.650.8.70H.S.xxx.Q.N.D	139	224	150	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.800.6.70H.S.xxx.G.N.D	139	224	150	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.800.6.70H.S.xxx.Q.N.D	139	224	150	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.1000.6.70H.S.xxx.G.N.D	139	224	150	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.1000.6.70H.S.xxx.Q.N.D	139	224	150	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.1300.6.70H.S.xxx.G.N.D	189	224	200	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.1300.6.70H.S.xxx.Q.N.D	189	224	200	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.1600.4.70L.S.xxx.G.N.D	191	224	200	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S2.120.250.1600.4.70L.S.xxx.Q.N.D	191	224	200	86	375	545	3.0	3.0	350	250	32	799	222	4 x M24
S3.110.500.650.8.70L.S.xxx.G.N.D	200	380	200	98	565	890	3.0	3.0	620	500	42	1185	284	6 x M30
S3.110.500.650.8.70L.S.xxx.Q.N.D	200	380	200	98	565	890	3.0	3.0	620	500	42	1185	284	6 x M30
S3.110.500.800.6.70L.S.xxx.G.N.D	200	380	200	98	565	890	3.0	3.0	620	500	42	1185	284	6 x M30
S3.110.500.800.6.70L.S.xxx.Q.N.D	200	380	200	98	565	890	3.0	3.0	620	500	42	1185	284	6 x M30
S3.110.500.1000.6.70L.S.xxx.G.N.D	250	380	250	98	565	890	3.0	3.0	620	500	42	1185	284	6 x M30
S3.110.500.1000.6.70L.S.xxx.Q.N.D	250	380	250	98	565	890	3.0	3.0	620	500	42	1185	284	6 x M30
S3.110.500.1300.6.70L.S.xxx.G.N.D	250	380	250	98	565	890	3.0	3.0	620	500	42	1185	284	6 x M30
S3.110.500.1300.6.70L.S.xxx.Q.N.D	250	380	250	98	565	890	3.0	3.0	620	500	42	1185	284	6 x M30
S3.120.300.650.8.70M.S.xxx.G.N.D	151	256	350	95	450	650	3.0	3.0	400	300	32	901	222	4 x M24
S3.120.300.650.8.70M.S.xxx.Q.N.D	151	256	350	95	450	650	3.0	3.0	400	300	32	901	222	4 x M24
S3.120.300.800.6.70M.S.xxx.G.N.D	206	256	400	95	450	650	3.0	3.0	400	300	32	901	222	4 x M24
S3.120.300.800.6.70M.S.xxx.Q.N.D	206	256	400	95	450	650	3.0	3.0	400	300	32	901	222	4 x M24
S3.120.300.1000.6.70M.S.xxx.G.N.D	206	256	400	95	450	650	3.0	3.0	400	300	32	901	222	4 x M24
S3.120.300.1000.6.70M.S.xxx.Q.N.D	206	256	400	95	450	650	3.0	3.0	400	300	32	901	222	4 x M24
S3.120.300.1300.6.70M.S.xxx.G.N.D	251	256	450	95	450	650	3.0	3.0	400	300	32	901	222	4 x M24
S3.120.300.1300.6.70M.S.xxx.Q.N.D	251	256	450	95	450	650	3.0	3.0	400	300	32	901	222	4 x M24
S3.120.600.650.8.70E.S.xxx.G.N.D	231	431	250	98	615	1050	3.0	3.0	725	600	48	1320	280	6 x M30
S3.120.600.650.8.70E.S.xxx.Q.N.D	231	431	250	98	615	1050	3.0	3.0	725	600	48	1320	280	6 x M30
S3.120.600.1000.6.70E.S.xxx.G.N.D	281	431	300	98	615	1050	3.0	3.0	725	600	48	1320	280	6 x M30
S3.120.600.1000.6.70E.S.xxx.Q.N.D	281	431	300	98	615	1050	3.0	3.0	725	600	48	1320	280	6 x M30
S3.120.600.1300.6.70E.S.xxx.G.N.D	281	431	300	98	615	1050	3.0	3.0	725	600	48	1320	280	6 x M30
S3.120.600.1300.6.70E.S.xxx.Q.N.D	281	431	300	98	615	1050	3.0	3.0	725	600	48	1320	280	6 x M30

Dry, vertical installation on concrete foundation

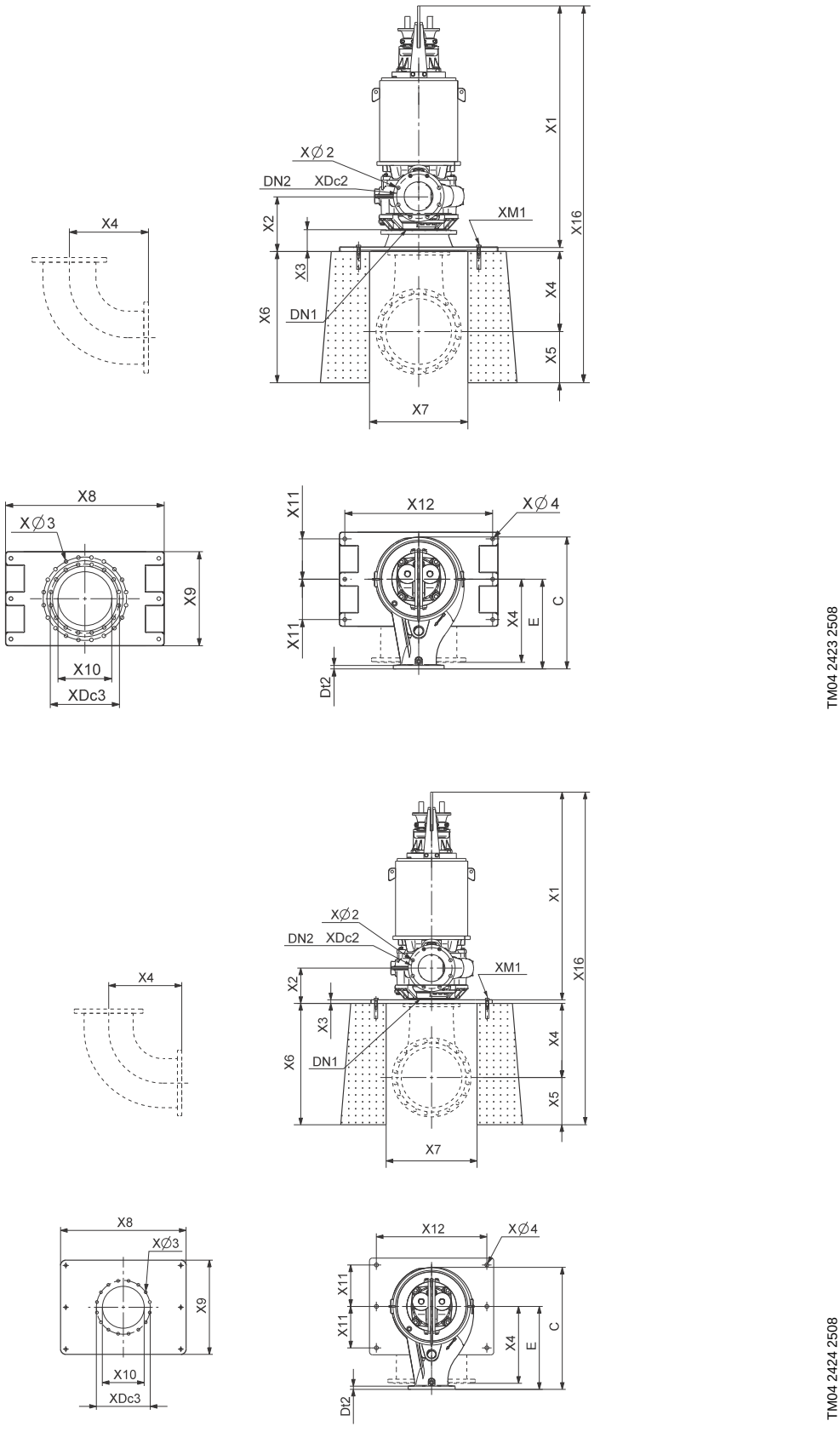


Fig. 16 Dimensional sketches, dry, vertical installation on concrete foundation

Dimensions

Pump type	C	E	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X16
S1.100.200.850.4.70H.D	883	600	1654	246	20	400	300	700	500	900	700	250	300	800	2374
S2.90.200.1150.4.70S.D	1069	750	1660	249	20	400	300	700	500	900	700	250	300	800	2380
S2.90.200.1600.4.70S.D	1069	750	1815	249	20	400	300	700	500	900	700	250	300	800	2535
S2.100.200.1150.4.70H.D	883	600	1654	246	20	400	300	700	500	900	700	250	300	800	2374
S2.100.200.1600.4.70H.D	883	600	1809	246	20	400	300	700	500	900	700	250	300	800	2529
S2.110.200.850.4.70M.D	809	460	1638	235	20	400	300	700	500	900	700	250	300	800	2358
S2.110.200.1150.4.70M.D	837	550	1659	243	20	400	300	700	500	900	700	250	300	800	2379
S2.110.200.1600.4.70M.D	837	550	1814	243	20	400	300	700	500	900	700	250	300	800	2534
S2.120.250.650.8.70H.D	1193	750	1744	310	20	500	300	800	600	900	700	300	300	800	2564
S2.120.250.800.6.70H.D	1193	750	1744	310	20	500	300	800	600	900	700	300	300	800	2564
S2.120.250.1000.6.70H.D	1193	750	1744	310	20	500	300	800	600	900	700	300	300	800	2564
S2.120.250.1300.6.70H.D	1193	750	1899	310	20	500	300	800	600	900	700	300	300	800	2719
S2.120.250.1600.4.70L.D	1068	750	1825	253	20	500	300	800	600	900	700	300	300	800	2645
S3.110.500.650.8.70L.D	1843	1200	1783	493	160	700	750	1450	850	1180	700	400	300	1100	3393
S3.110.500.800.6.70L.D	1843	1200	1783	493	160	700	750	1450	850	1180	700	400	300	1100	3393
S3.110.500.1000.6.70L.D	1843	1200	1783	493	160	700	750	1450	850	1180	700	400	300	1100	3393
S3.110.500.1300.6.70L.D	1843	1200	1938	493	160	700	750	1450	850	1180	700	400	300	1100	3548
S3.120.300.650.8.70M.D	1284	760	1744	303	20	500	300	800	600	900	700	300	300	800	2564
S3.120.300.800.6.70M.D	1139	700	1744	299	20	500	300	800	600	900	700	300	300	800	2564
S3.120.300.1000.6.70M.D	1139	700	1744	299	20	500	300	800	600	900	700	300	300	800	2564
S3.120.300.1300.6.70M.D	1284	760	1899	303	20	500	300	800	600	900	700	300	300	800	2719
S3.120.600.650.8.70E.D	2124	1350	1877	452	35	700	750	1450	850	1180	700	500	300	1100	3362
S3.120.600.1000.6.70E.D	2124	1350	1877	452	35	700	750	1450	850	1180	700	500	300	1100	3362
S3.120.600.1300.6.70E.D	2124	1350	2032	452	35	700	750	1450	850	1180	700	500	300	1100	3517

Pump type	DN1	XDc3	DN2	XDc2	Dt2	XØ2	XØ3	XØ4	XM1
S1.100.200.850.4.70H.D	250	350	200	296	28	24	23	28	M24 x 6
S2.90.200.1150.4.70S.D	250	350	200	295	28	24	23	28	M24 x 6
S2.90.200.1600.4.70S.D	250	350	200	295	28	24	23	28	M24 x 6
S2.100.200.1150.4.70H.D	250	350	200	296	28	24	23	28	M24 x 6
S2.100.200.1600.4.70H.D	250	350	200	296	28	24	23	28	M24 x 6
S2.110.200.850.4.70M.D	250	350	200	296	28	24	23	28	M24 x 6
S2.110.200.1150.4.70M.D	250	350	200	296	28	24	23	28	M24 x 6
S2.110.200.1600.4.70M.D	250	350	200	296	28	24	23	28	M24 x 6
S2.120.250.650.8.70H.D	300	400	250	350	28	24	23	28	M24 x 6
S2.120.250.800.6.70H.D	300	400	250	350	28	24	23	28	M24 x 6
S2.120.250.1000.6.70H.D	300	400	250	350	28	24	23	28	M24 x 6
S2.120.250.1300.6.70H.D	300	400	250	350	28	24	23	28	M24 x 6
S2.120.250.1600.4.70L.D	300	400	250	350	28	24	23	28	M24 x 6
S3.110.500.650.8.70L.D	400	620	500	620	34	27	27	28	M24 x 6
S3.110.500.800.6.70L.D	400	620	500	620	34	27	27	28	M24 x 6
S3.110.500.1000.6.70L.D	400	620	500	620	34	27	27	28	M24 x 6
S3.110.500.1300.6.70L.D	400	620	500	620	34	27	27	28	M24 x 6
S3.120.300.650.8.70M.D	300	400	300	400	28	24	23	28	M24 x 6
S3.120.300.800.6.70M.D	300	400	300	400	28	24	23	28	M24 x 6
S3.120.300.1000.6.70M.D	300	400	300	400	28	24	23	28	M24 x 6
S3.120.300.1300.6.70M.D	300	400	300	400	28	24	23	28	M24 x 6
S3.120.600.650.8.70E.D	500	620	600	725	34	30	27	28	M24 x 6
S3.120.600.1000.6.70E.D	500	620	600	725	34	30	27	28	M24 x 6
S3.120.600.1300.6.70E.D	500	620	600	725	34	30	27	28	M24 x 6

Dry, horisontal installation on bracket

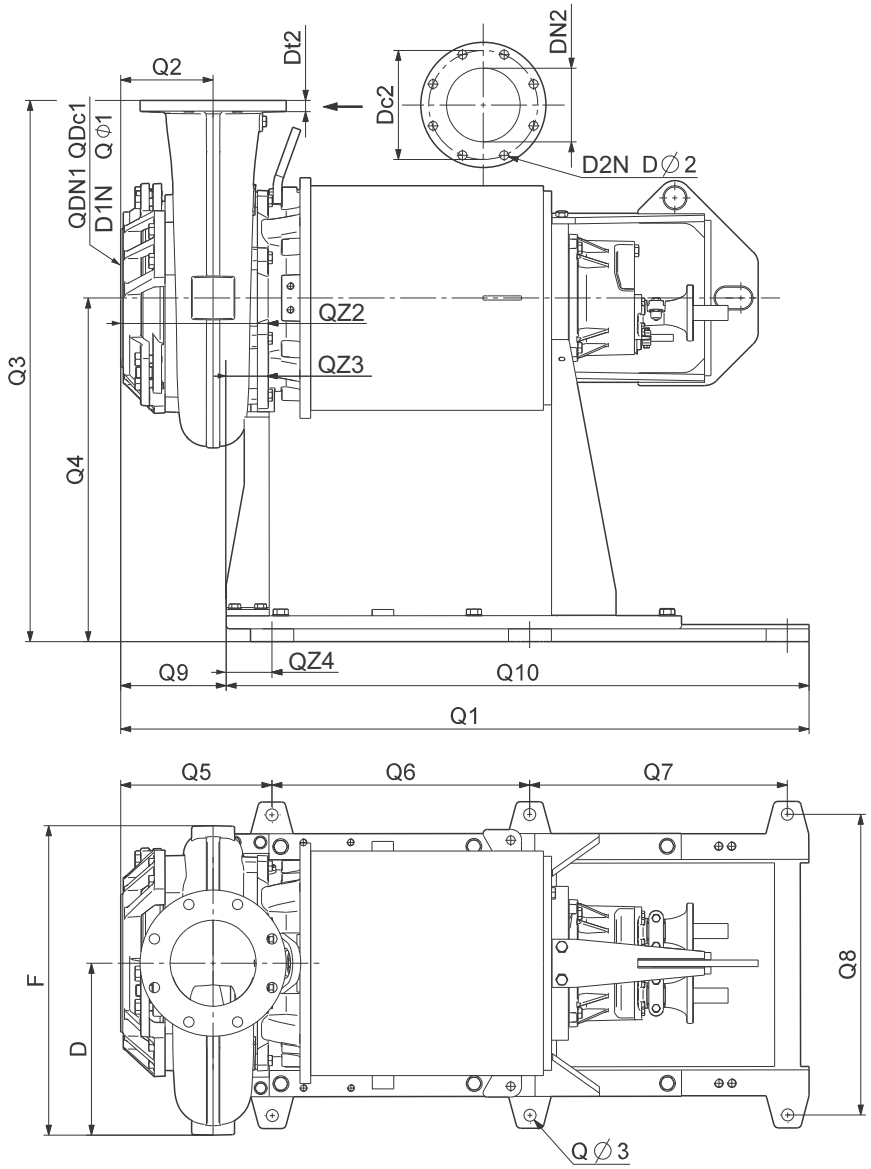


Fig. 17 Dimensional sketches, dry, horisontal installation on bracket

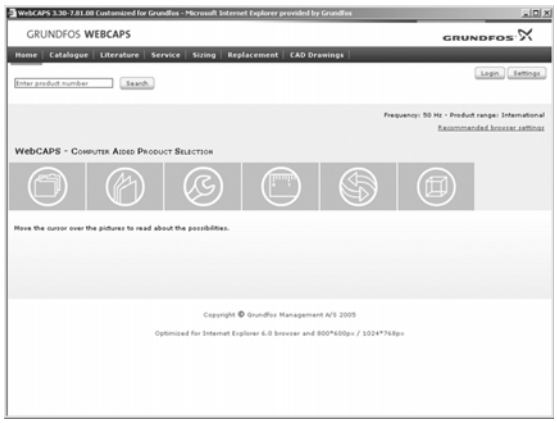
Dimensions

Pump type	D	F	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
S1.100.200.850.4.70H.H	300	596	1654	226	1400	800	411	600	600	700	304	1357
S2.90.200.1150.4.70S.H	360	710	1660	229	1550	800	417	600	600	700	310	1357
S2.90.200.1600.4.70S.H	360	710	1815	229	1550	800	417	600	600	700	310	1357
S2.100.200.1150.4.70H.H	300	596	1654	226	1400	800	411	600	600	700	304	1357
S2.100.200.1600.4.70H.H	300	596	1809	226	1400	800	411	600	600	700	304	1357
S2.110.200.850.4.70M.H	400	720	1638	215	1260	800	395	600	600	700	288	1357
S2.110.200.1150.4.70M.H	357	669	1659	223	1350	800	416	600	600	700	309	1357
S2.110.200.1600.4.70M.H	357	669	1814	223	1350	800	416	600	600	700	309	1357
S2.120.250.650.8.70H.H	478	891	1744	290	1550	800	501	600	600	700	394	1357
S2.120.250.800.6.70H.H	478	891	1744	290	1550	800	501	600	600	700	394	1357
S2.120.250.1000.6.70H.H	478	891	1744	290	1550	800	501	600	600	700	394	1357
S2.120.250.1300.6.70H.H	478	891	1899	290	1550	800	501	600	600	700	394	1357
S2.120.250.1600.4.70L.H	410	730	1825	233	1550	800	427	600	600	700	320	1357
S3.110.500.650.8.70L.H	719	1269	1783	333	2000	800	540	600	600	700	433	1357
S3.110.500.800.6.70L.H	719	1269	1783	333	2000	800	540	600	600	700	433	1357
S3.110.500.1000.6.70L.H	719	1269	1783	333	2000	800	540	600	600	700	433	1357
S3.110.500.1300.6.70L.H	719	1269	1938	333	2000	800	540	600	600	700	433	1357
S3.120.300.650.8.70M.H	570	1041	1744	283	1560	800	501	600	600	700	394	1357
S3.120.300.800.6.70M.H	522	907	1744	279	1500	800	501	600	600	700	394	1357
S3.120.300.1000.6.70M.H	522	907	1744	279	1500	800	501	600	600	700	394	1357
S3.120.300.1300.6.70M.H	570	1041	1899	283	1560	800	501	600	600	700	394	1357
S3.120.600.650.8.70E.H	886	1506	1877	417	2150	800	634	600	600	700	527	1357
S3.120.600.1000.6.70E.H	886	1506	1877	417	2150	800	634	600	600	700	527	1357
S3.120.600.1300.6.70E.H	886	1506	2032	417	2150	800	634	600	600	700	527	1357

Pump type	QDN1	QDc1	QD1N	Qø1	DN2	Dc2	D2N	Dø2	Dt2	Qø3	QZ2	QZ3	QZ4
S1.100.200.850.4.70H.H	250	350	12	M20	200	296	8	24	26	28	354	-50	107
S2.90.200.1150.4.70S.H	250	350	12	M20	200	295	8	24	24	28	360	-50	107
S2.90.200.1600.4.70S.H	250	350	12	M20	200	295	8	24	24	28	360	-50	107
S2.100.200.1150.4.70H.H	250	350	12	M20	200	296	8	24	26	28	354	-50	107
S2.100.200.1600.4.70H.H	250	350	12	M20	200	296	8	24	26	28	354	-50	107
S2.110.200.850.4.70M.H	250	350	12	M20	200	296	8	24	26	28	338	-50	107
S2.110.200.1150.4.70M.H	250	350	12	M20	200	296	8	24	24	28	359	-50	107
S2.110.200.1600.4.70M.H	250	350	12	M20	200	296	8	24	24	28	359	-50	107
S2.120.250.650.8.70H.H	300	400	12	M20	250	350	12	24	30	28	444	-50	107
S2.120.250.800.6.70H.H	300	400	12	M20	250	350	12	24	30	28	444	-50	107
S2.120.250.1000.6.70H.H	300	400	12	M20	250	350	12	24	30	28	444	-50	107
S2.120.250.1300.6.70H.H	300	400	12	M20	250	350	12	24	30	28	444	-50	107
S2.120.250.1600.4.70L.H	300	400	12	M20	250	350	12	24	30	28	370	-50	107
S3.110.500.650.8.70L.H	400	515	16	M24	500	620	20	27	37	28	483	-50	107
S3.110.500.800.6.70L.H	400	515	16	M24	500	620	20	27	37	28	483	-50	107
S3.110.500.1000.6.70L.H	400	515	16	M24	500	620	20	27	37	28	483	-50	107
S3.110.500.1300.6.70L.H	400	515	16	M24	500	620	20	27	37	28	483	-50	107
S3.120.300.650.8.70M.H	300	400	12	M20	300	400	12	24	33	28	444	-50	107
S3.120.300.800.6.70M.H	300	400	12	M20	300	400	12	24	33	28	444	-50	107
S3.120.300.1000.6.70M.H	300	400	12	M20	300	400	12	24	33	28	444	-50	107
S3.120.300.1300.6.70M.H	300	400	12	M20	300	400	12	24	33	28	444	-50	107
S3.120.600.650.8.70E.H	500	620	20	M24	600	725	20	30	40	28	577	-50	107
S3.120.600.1000.6.70E.H	500	620	20	M24	600	725	20	30	40	28	577	-50	107
S3.120.600.1300.6.70E.H	500	620	20	M24	600	725	20	30	40	28	577	-50	107

Further product documentation

WebCAPS



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

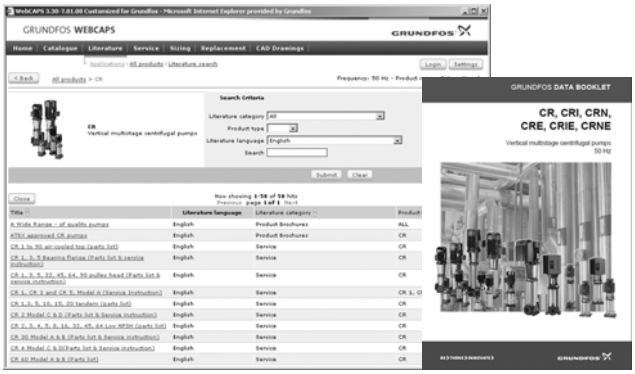
WebCAPS contains detailed information on more than 185,000 Grundfos products in more than 20 languages.

In WebCAPS, all information is divided into 6 sections:

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

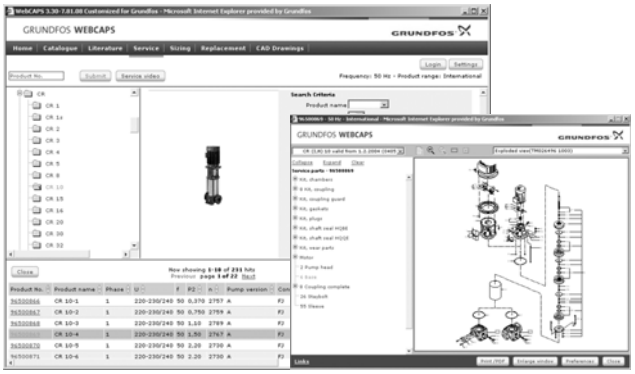
Catalogue

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



Literature

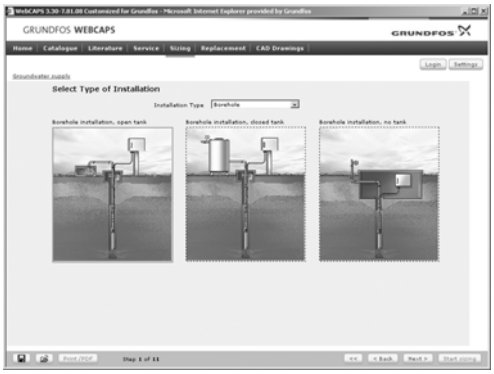
In this section you can access all the latest documents of a given pump, such as
- data booklets
- installation and operating instructions
- service documentation, such as Service kit catalogue and Service kit instructions
- quick guides
- product brochures.



Service

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

Further product documentation



Sizing

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

Replacement

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

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

CAD drawings

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

These formats are available in WebCAPS:

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

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

WinCAPS

Fig. 18 WinCAPS CD-ROM

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

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

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

BE THINK INNOVATE

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

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