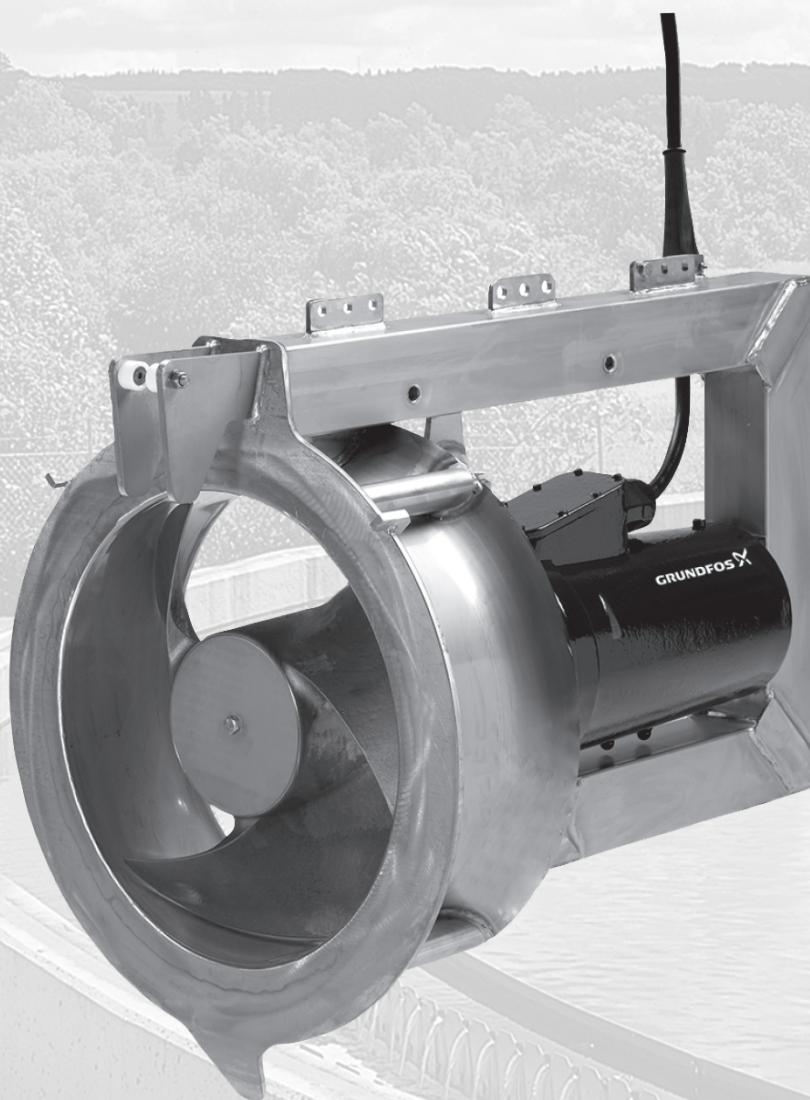


# Submersible recirculation pumps

50 Hz

SRG



**SRG 50Hz**  
Data booklet  
Other languages  
<http://net.grundfos.com/qr/i/98831438>



# Submersible recirculation pumps

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English (GB)

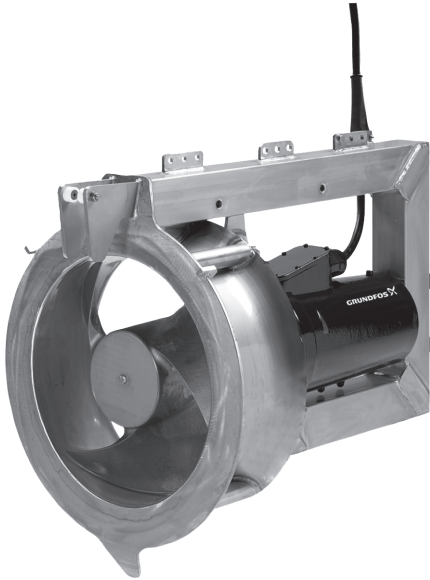
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## 1. Introduction

### 1.1 General description

This data booklet describes Grundfos submersible recirculation pumps, type SRG.



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#### SRG

The Grundfos submersible recirculation pumps are designed for the transfer of liquids of low to medium viscosity.

The pumps are for DN 300, DN 500 and DN 800 pipe diameters and have motors of 0.8 to 24 kW.

The pumps incorporate a squirrel-case induction motor, a planetary gear and a cast stainless-steel impeller ensuring high resistance to wear and corrosion.

The 3-dimensional optimised hydraulic design ensures high efficiency.

### 1.2 Applications

Grundfos SRG recirculation pumps are designed for the pumping of sludge from one tank to another in sewage treatment plants and for other pump applications involving a high flow rate and low head.

### 1.3 Constructional features

- Strong axial gear in slim design for high hydrodynamic efficiency
- integrated overload and thermal protection
- integrated leak sensor
- cast stainless-steel impeller
- good self-cleaning capabilities.

### 1.4 Operating mode

- Continuous operation when fully submerged
- intermittent operation with max. 20 starts per hour.

## 2. Identification

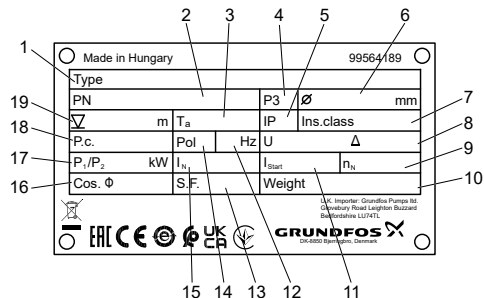
### 2.1 Type key

Example: **SRG.70.30.814.25.5.1B**

Code	Description	Designation
SRG	Submersible recirculation pump	Type range
70	Code from type designation/10 7.0 kW	Motor output power P2
30	30 cm	Impeller diameter
814	814 min <sup>-1</sup>	Impeller speed
25	25°	Blade pitch
[ ]	Standard, non-explosion-proof pump	Explosion protection
5	50 Hz	Frequency
0B	400-415 V, DOL	Supply voltage and starting method
1B	400-415 V, Y/D	
0Z	Special, DOL	
1Z	Special, Y/D	
[ ]	First generation	Generation
A	Second generation	
B	Third generation	

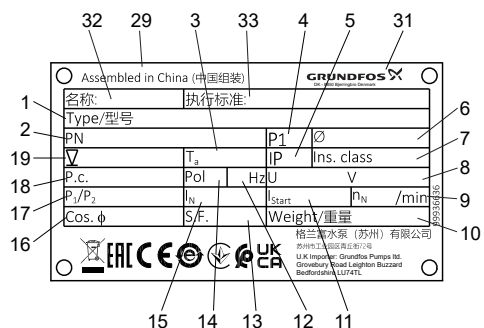
### 2.2 Nameplate

The nameplate is fitted to the motor housing. The details supplied on the nameplate are required when ordering spare parts.



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#### Nameplate



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#### Nameplate for products in China

Pos.	Description
1	Type designation
2	Product number and serial number
3	Liquid temperature range

Pos.	Description
4	Production site
5	Enclosure class according to IEC
6	Impeller diameter
7	Insulation class
8	Rated voltage
9	Rated speed (impeller)
10	Weight
11	Starting current
12	Frequency
13	Service factor
14	Number of poles
15	Rated current
16	Power factor
17	Motor power P1/P2
18	Production code (YYWW)
19	Maximum installation depth
29	Place of production
31	Manufacturer name and address
32	Type: SRG
33	Company standard

The additional nameplate supplied with the pump should be fixed in a visible position at the installation site.

## 3. Product description

### 3.1 Features

The descriptions below are related to the main components of the products. Product variants are available. See section [6.1 Variants](#).

#### Related information

[6.1 Variants](#)

#### 3.1.1 Motor

The motor is a 2- or 4-pole squirrel-cage induction motor. Electromagnetic components, such as stator windings and rotor, are compliant with the IE3 efficiency level of IEC 60034-30.

The rotor is supported by two single-row ball bearings.

#### 3.1.2 Gearbox

A planetary gearbox is positioned between the motor and the impeller. The pump has one gear stage. The gearbox shaft is supported by two separated tapered roller bearings. This construction ensures that no axial or radial forces from the propeller can load neither the gear wheels nor the motor bearings.

The gearbox is oil-filled, and the gear wheels are hardened to ensure long life. The gearbox housing has an integrated water-in-oil sensor which can be connected to an external relay to give an alarm or to cut out the motor in case of water ingress.

See the installation and operating instructions for information on oil type, oil quality and oil change intervals.

#### 3.1.3 Bearings

Motor: Single-row ball bearings.

Gear: Tapered roller bearings.

#### 3.1.4 Sealing system

To prevent ingress of the surrounding liquid, the pump has a multistage sealing system. The first seal is placed behind of the propeller and encapsulates the inside of the gearbox inclusive shaft completely.

This primary seal consists of a labyrinth seal, two lip seals of FKM running on a low-wear ceramic layer and a mechanical shaft seal.

A secondary seal is located between gearbox and motor and consists of a mechanical shaft seal.

	Sealing against ingress of surrounding liquid	Sealing between gearbox and motor
SRG.xx30 SRG.35.50	Two lip seals and a mechanical shaft seal, SiC/SiC <sup>1)</sup>	Mechanical shaft seal, carbon/Alox
Other SRG pumps	Two lip seals and a mechanical shaft seal, tungsten carbide/tungsten carbide	

<sup>1)</sup> SiC: Silicon carbide.

#### 3.1.5 Impeller

The three-blade, self-cleaning impeller is made of cast stainless steel.

#### 3.1.6 Cable and cable entry

The watertight cable entry prevents moisture ingress down to a depth of 20 metres. The cable entry is sealed by a double set of elastomeric rubber with a clamping ring.

The factory-fitted cable leads six power wires out to allow star-delta starting of the motors.

Standard cable types	Dimensions	Outer diameter [mm]
S1BN8-F 11G1.5	11 x 1.5 mm <sup>2</sup>	17
S1BN8-F 11G2.5	11 x 2.5 mm <sup>2</sup>	21
H07RN-F 7G4 + 4 x 1	7 x 4 mm <sup>2</sup> + 4 x 1 mm <sup>2</sup>	21

The cable type required for each product appears from the tables in section [Technical data](#).

#### 3.1.7 Sensors

As standard, the SRG is supplied with the following:

- three thermal switches (PTO)
- one water-in-oil sensor incorporated in the gearbox.

For the water-in-oil sensor a relay, type ALR-20/A-Ex, is needed. See section [Water-in-oil sensor](#).

#### Related information

[3.4 Water-in-oil sensor](#)

## 3.2 Starting method

#### Continuous operation

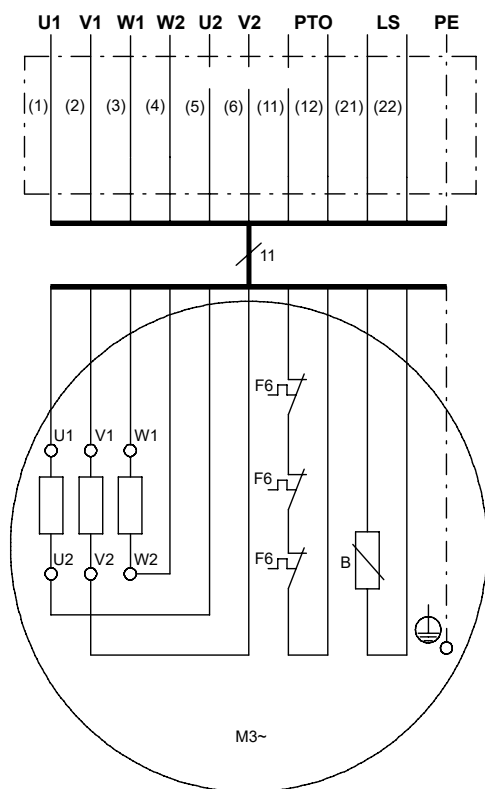
We recommend star-delta starting, a soft starter or frequency converter throughout the entire power range.

#### Intermittent operation

Use star-delta starting, a soft starter or frequency converter.



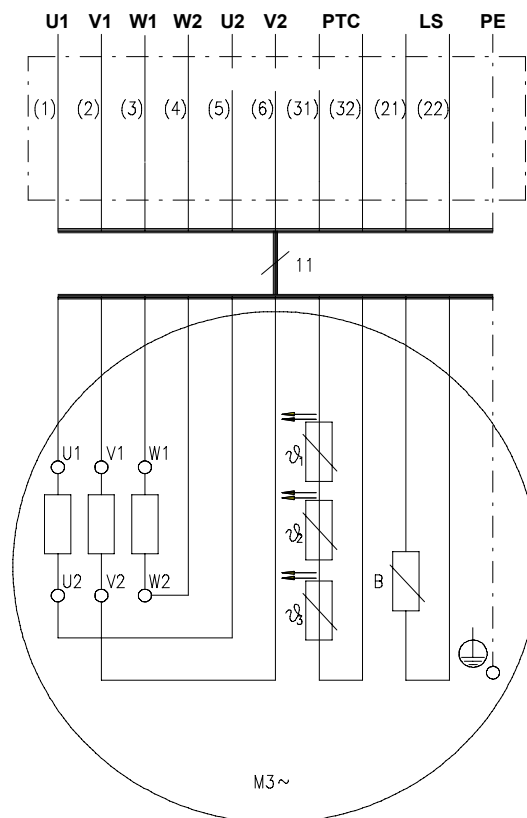
### 3.3 Wiring diagrams



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Three thermal switches (PTO)

Terminals	Description
1, 2, 3, 4, 5, 6	Ends of the three stator windings (U1, U2, V1, V2, W1, W2)
11, 12	Thermal switches (F6)
21, 22	Leak sensor in gearbox (B). See section Water-in-oil sensor.



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Three thermistors (PTC sensors)

Terminals	Description
1, 2, 3, 4, 5, 6	Ends of the three stator windings (U1, U2, V1, V2, W1, W2)
31, 32	PTC sensors according to DIN 44081 (ø1, ø2, ø3)
21, 22	Leak sensor in gearbox (B). See section Water-in-oil sensor.

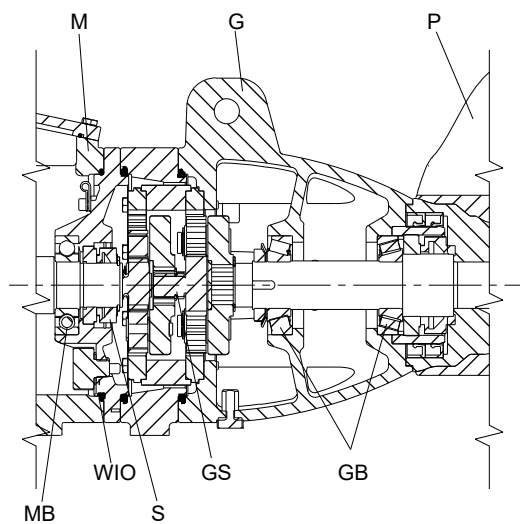
#### Related information

##### [3.4 Water-in-oil sensor](#)



### 3.4 Water-in-oil sensor

The gearbox is monitored for the ingress of water by means of a water-in-oil sensor (leak sensor) incorporated in the gearbox or shaft seal housing. Via an external relay, the sensor triggers an alarm signal and/or switches off the motor.



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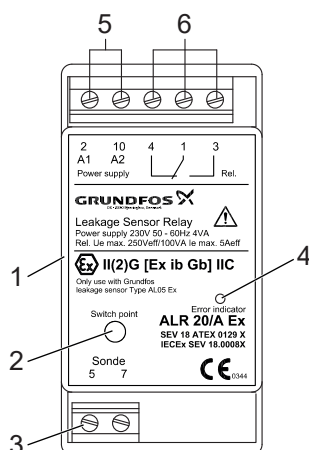
#### Gear box

Pos.	Description
WIO	Water-in-oil sensor
MB	Motor bearing
S	Secondary shaft seal
GS	Gear stages
GB	Gear bearings
M	Motor
G	Gearbox
P	Impeller

We recommend that you connect the sensor to a relay. The relay must be a Grundfos ALR-20/A-Ex relay, supplied as an optional accessory. See section [10. Accessories](#).

**Note:** Being an electronic component, the water-in-oil sensor must not be tested with an ohmmeter or another measuring instrument.

### 3.5 ALR-20/A-Ex relay



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#### ALR-20/A-Ex relay

Dimensions of the ALR-20/A-Ex relay are shown in section [7.7 Dimensions, accessories](#).

#### Settings

The sensitivity of the ALR-20/A-Ex relay can be tested as follows:

1. Turn the adjusting screw (2) until the indicator light (4) of the relay is on. See fig. [ALR-20/A-Ex relay](#).
2. Turn the adjusting screw in the opposite direction until the indicator light is off.
3. Turn the adjusting screw another 60 ° in the same direction as under step 2.

**Note:** The maximum cable length between the relay and the mixer/flowmaker is 50 metres. An external alarm indicator, if any, must be connected to the potential-free output, terminals 1 and 3 or 4 (6).

Main supply, terminals 2 and 10	
Rated operating voltage	: 230 VAC
Permissible voltage tolerance	: - 15/+ 10 %
Frequency	: 50-60 Hz
Power input	: Approx. 3 VA
Power transformer	: According to VDE 0551, VDE and SEV mark of conformity.

Relay output, terminals 4, 1 and 3	
Max. switching voltage	: 250 VAC/24 V DC
Max. switching current	: 5 A
Max. switching capacity	: 100 VA/100 W

For further information, see the data sheet for ALR-20/A-Ex.

#### Related information

[7.7 Dimensions, accessories](#)

### 3.6 Pumped liquids

pH value	: 4-10
Liquid temperature	: 5-40 °C
Maximum density	: 1060 kg/m <sup>3</sup>
Maximum dynamic viscosity	: 500 mPas
Maximum dry solids content	: 1.5 %
Chloride content	: Stainless steel DIN W.-Nr. 1.4301: ≤ 200 mg/l

### 3.7 Sound pressure level

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

### 3.8 Motor range

Type designation	Supply voltage	Shaft power [kW]	Number of poles
SRG.08.30.526.08	400-415 V Y	0.8	2
SRG.10.30.606.08	400-415 V Y	1.0	
SRG.13.30.678.08	400-415 V Y	1.3	
SRG.16.30.745.08	400-415 V Y	1.6	
SRG.18.30.806.08	400-415 V Y	1.8	
SRG.30.30.517.25	400-415 V D	3.0	
SRG.40.30.593.25	400-415 V D	4.0	
SRG.50.30.684.25	400-415 V D	5.0	
SRG.60.30.752.25	400-415 V D	6.0	
SRG.70.30.814.25	400-415 V D	7.0	
SRG.35.50.257.27	400-415 V D	3.5	4
SRG.50.50.291.27	400-415 V D	5.0	
SRG.65.50.343.27	400-415 V D	6.5	
SRG.80.50.378.27	400-415 V D	8.0	
SRG.100.50.412.27	400-415 V D	10.0	
SRG.70.80.263.11	400-415 V D	7.0	
SRG.100.80.303.11	400-415 V D	10.0	
SRG.120.80.323.11	400-415 V D	12.0	
SRG.130.80.340.11	400-415 V D	13.0	
SRG.160.80.355.11	400-415 V D	16.0	
SRG.130.80.375.11	400-415 V D	13.0	4
SRG.200.80.388.11	400-415 V D	20.0	
SRG.240.80.417.11	400-415 V D	24.0	

## 4. Selection of product

### 4.1 Ordering a recirculation pump

You only need to select a few product numbers to complete your order:

- SRG recirculation pump (standard)
- custom-built variants (option)
- mechanical installation accessories
- electrical accessories, leak detector relay and variable speed drive.

#### 4.1.1 Standard pump

This is an example of what you get when you order a standard SRG pump:

- recirculation pump with motor, gearbox, impeller and rack
- factory-fitted 10 m power supply cable
- paint, black, NCS9000N, coating according to ISO 12944-2:2017 Im2 H
- three thermal switches (PTO), one in each motor winding
- one water-in-oil sensor incorporated in the gearbox.

**Note:** In Grundfos Product Center you can find product data by entering the type designation, e.g. SRG.30.30.517.25.

#### 4.1.2 Variants

If a longer cable or an explosion-proof version is required, it is no longer a standard pump. A list of variants can be found in section Variants.

#### 4.1.3 Accessories

For selection of the correct accessories, see section [Accessories](#).

**Note:** The accessories are not fitted from factory.

#### 4.1.4 Relay

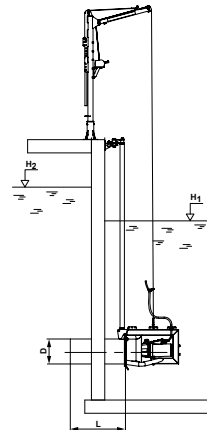
The ALR-20/A-Ex leak detector relay can be selected.

### 4.2 Selecting an SRG pump

The selection guide is for guidance only. For detailed information, please contact Grundfos. The performance curves for SRG pumps shown later in this section are based on the following:

- system description and layout
- flow rate,  $Q$ , in l/sec
- geodetic head,  $H_{geo}$ , in m ( $H_{geo} = H_2 - H_1$ ).

**Note:** In contrast to a common wastewater pump, the head loss of recirculation pumps has a significant influence on the total head and it must be calculated.



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*System layout*

Head loss can be calculated on the basis of information in the system layout.

### 4.2.1 Symbols

These symbols are used in the calculations on the following pages:

A	=	Area
D	=	Internal pipe diameter
L	=	Length of pipe
g	=	Acceleration of gravity (9.81 m/sec <sup>2</sup> )
H	=	Total pump head
H <sub>1</sub>	=	Liquid level in tank 1
H <sub>2</sub>	=	Liquid level in tank 2
H <sub>f</sub>	=	Head loss due to friction
H <sub>geo</sub>	=	Geodetic head
H <sub>system</sub>	=	Head loss in system
H <sub>J</sub>	=	Head loss in pipes
H <sub>Jn</sub>	=	Head loss in fittings and system
H <sub>valve</sub>	=	Head loss in valves (supplier data - typically 0.05 to 0.5 m)
Q	=	Flow rate
V	=	Flow velocity
ζ	=	Loss coefficient
	V	= $\frac{Q \text{ [m}^3\text{/sec]}}{A \text{ [m}^2\text{]}}$

### 4.2.2 Equations

$$H_f = H_{geo} + H_{system}$$

$$H_{system} = H_{valve} + \sum H_{Jn} + H_J$$

### 4.2.3 Cross-sectional area of pipes

DN	Area [m <sup>2</sup> ]
300	0.0707
400	0.1257
500	0.1963
600	0.2827
700	0.3848
800	0.5027

4.2.4 Pipe loss nomogram

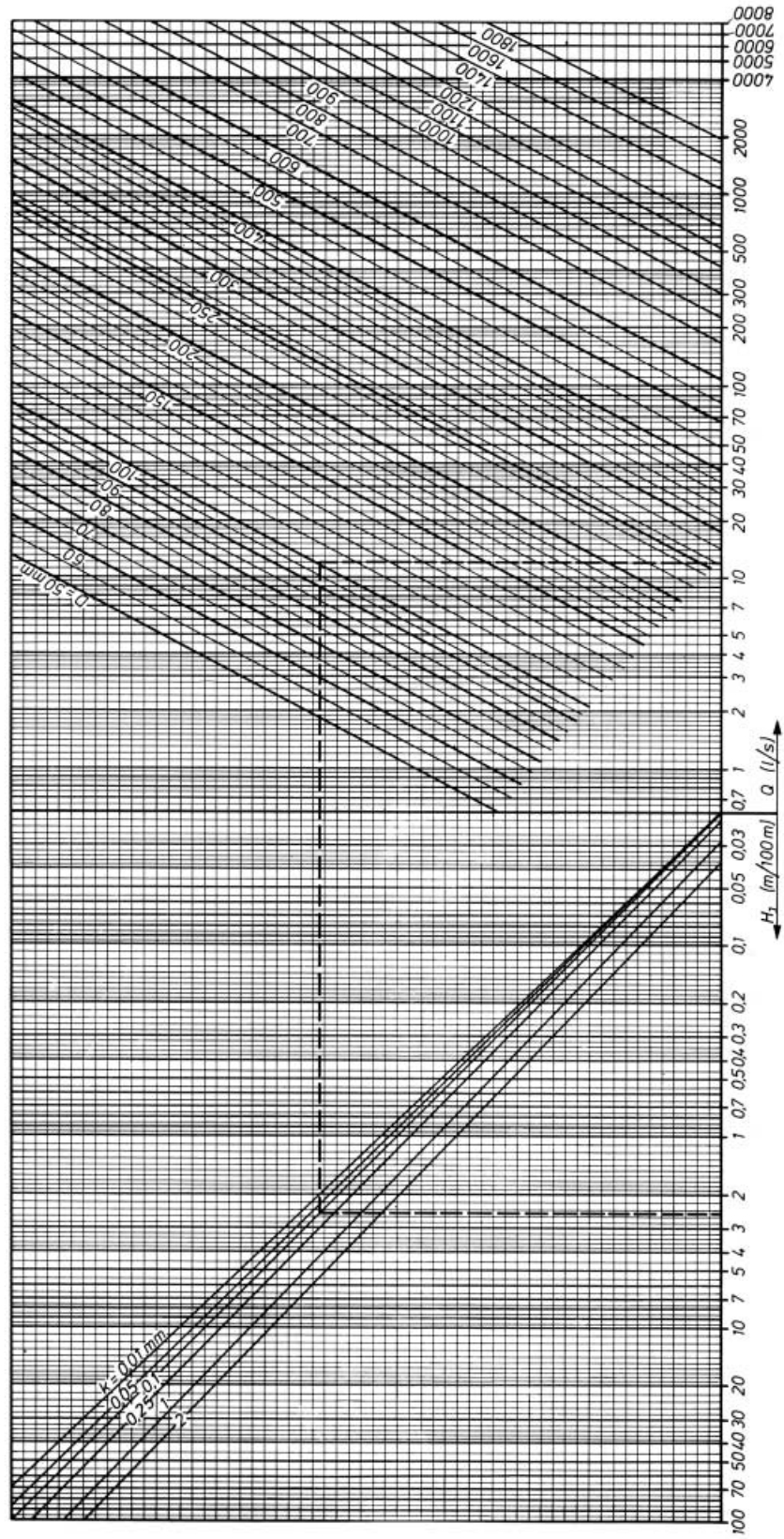
Guide values for surface roughness (k) for pipes

pipe material	new pipe k (mm)	old pipe k (mm)
plastic	0.01	0.25
drawn steel	0.05	1.0
welded steel	0.1	1.0
drawn stainless steel	0.05	0.25
welded stainless steel	0.1	0.25
cast iron	0.25	1.0
galvanized steel	0.15	
bituminized cast iron	0.12	
concrete	0.3...2.0	
asbestos cement	0.025	

# Pipe loss nomogram for clean water 20 °C

Example  
 Q = 12 l/s  
 D = 100 mm  
 k = 0.1 mm  
 H<sub>0</sub> = 2.5 m / 100 m

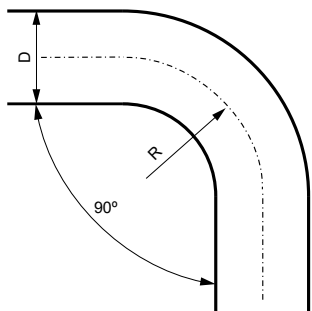
Q = Flow, l/s  
 D = Pipe inner diameter, mm  
 k = Surface roughness, mm  
 H<sub>0</sub> = Pipe losses, m/100 m



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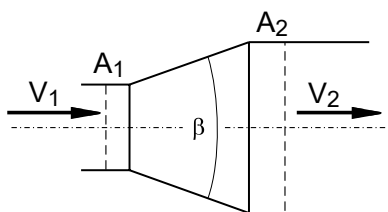
Pipe loss nomogram

### 4.2.5 Head loss in fittings and systems



Head loss in elbow

R/D	1	2	3	4	6
z	0.36	0.19	0.16	0.15	0.21
R/D	8	10	12	16	20
z	0.28	0.32	0.35	0.39	0.41



Head loss in expansion

$$H_{Jn} = \zeta \frac{V_1^2}{2g} \quad \zeta = k \left( 1 - \frac{A_1}{A_2} \right)^2$$

**Example**

**Calculation of H [m]**

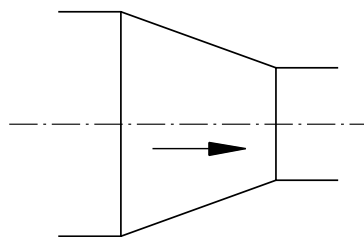
Q	=	325 l/sec
H <sub>geo</sub>	=	0.35 m
L <sub>pipe</sub>	=	2 m
H	=	H <sub>geo</sub> + H <sub>system</sub>
H <sub>system</sub>	=	H <sub>J</sub> + ΣH <sub>Jn</sub> + H <sub>valve</sub>
H <sub>J</sub>	=	0 due to the short pipe length
H <sub>Jn</sub>	=	limited to the outlet loss
H <sub>Jn</sub>	=	$\frac{V_1^2}{2g} \Rightarrow V_1 = \frac{(0.325 \text{ [m}^3\text{/sec]})}{0.1963 \text{ [m}^2]} = 1.66 \text{ [m/sec]} \Rightarrow H_{Jn} = \frac{1.66^2 \text{ [m}^2\text{/sec}^2]}{2 \times 9.81 \text{ [m/sec}^2]} = 0.14 \text{ [m]}$
H <sub>valve</sub>	=	0 as no valve is installed
<b>Result</b>		
H <sub>system</sub>	=	0 m + 0.14 m + 0 m = 0.14 m
H	=	0.35 m + 0.14 m = 0.49 m

Q: 325 l/sec

H: 0.49 m

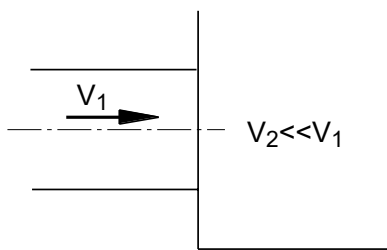
On the basis of the above calculation, we can now determine that SRG.35.50.257.27.5.1B is suitable for the application.

b°	5	10	15	20	30	40	45	50
k	0.13	0.17	0.26	0.41	0.71	0.90	0.93	1.05
β°	60	70	80	90	100	120	140	160
k	1.12	1.13	1.10	1.07	1.06	1.05	1.04	1.02



Head loss in reduction

$H_{Jn} \approx 0$



Head loss in outlet

$$H_{Jn} = \frac{V_1^2}{2g}$$

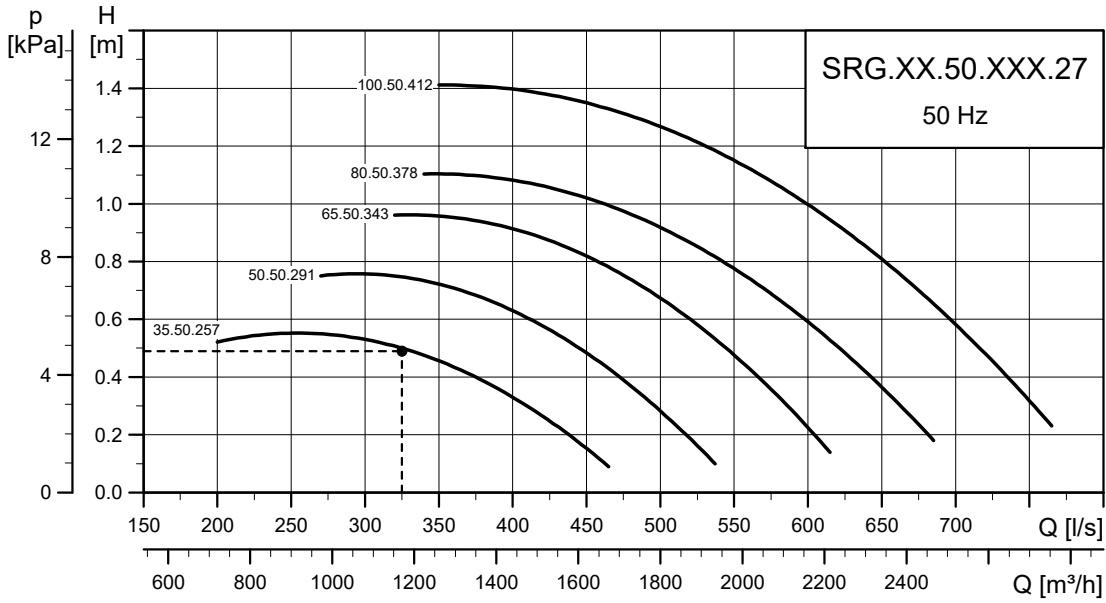
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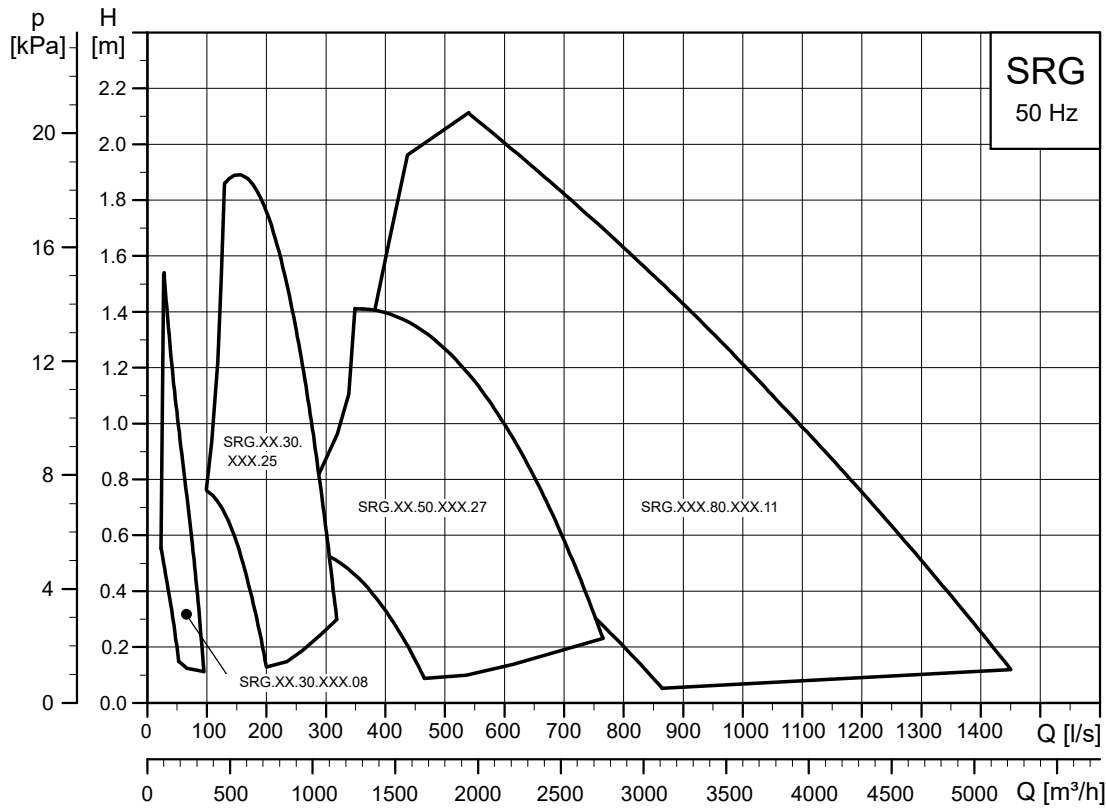




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Selection curves for SRG.xx.50.xxx.27

### 4.3 Performance range, 50 Hz



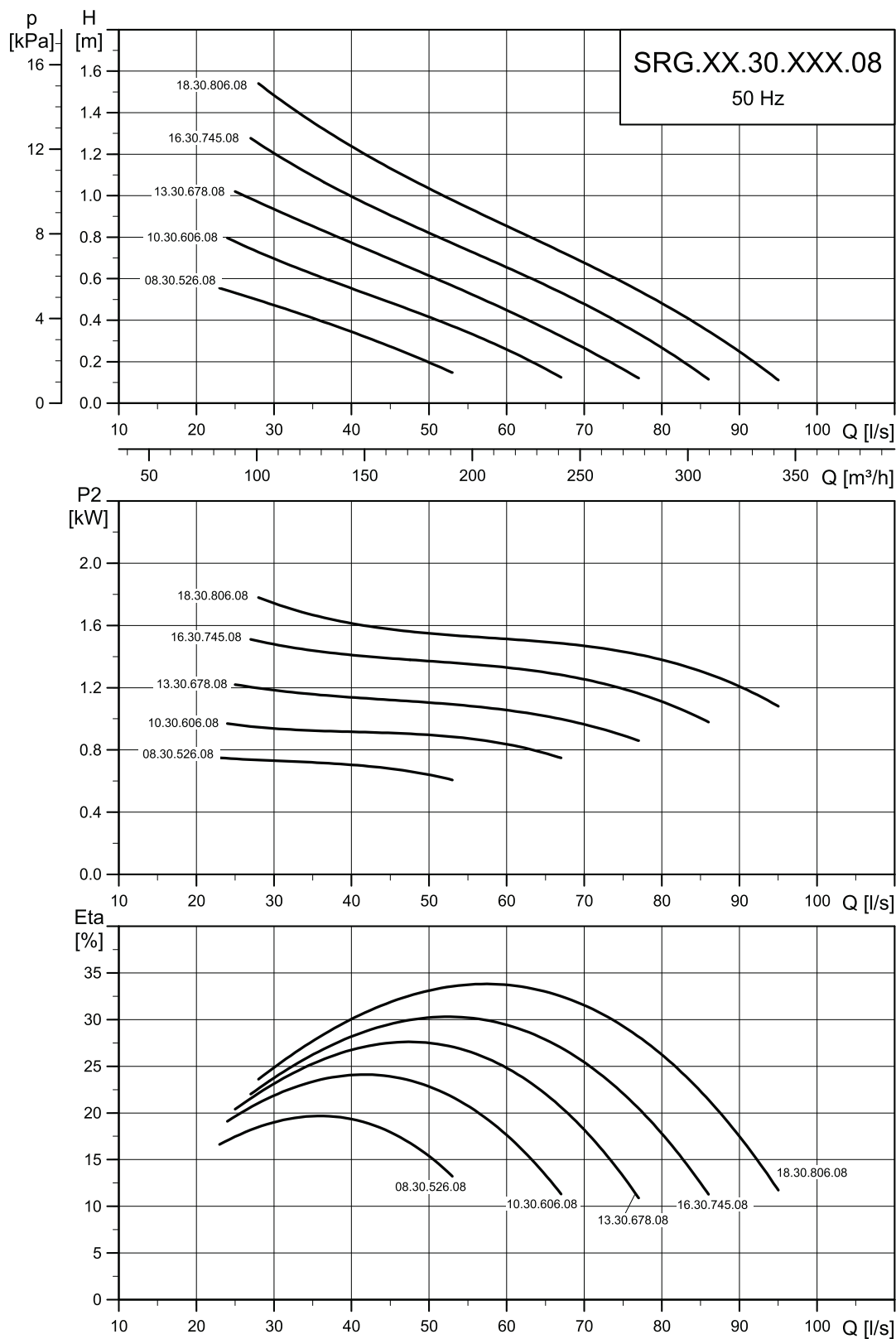
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Performance range, 50 Hz



### 4.4 Performance curves

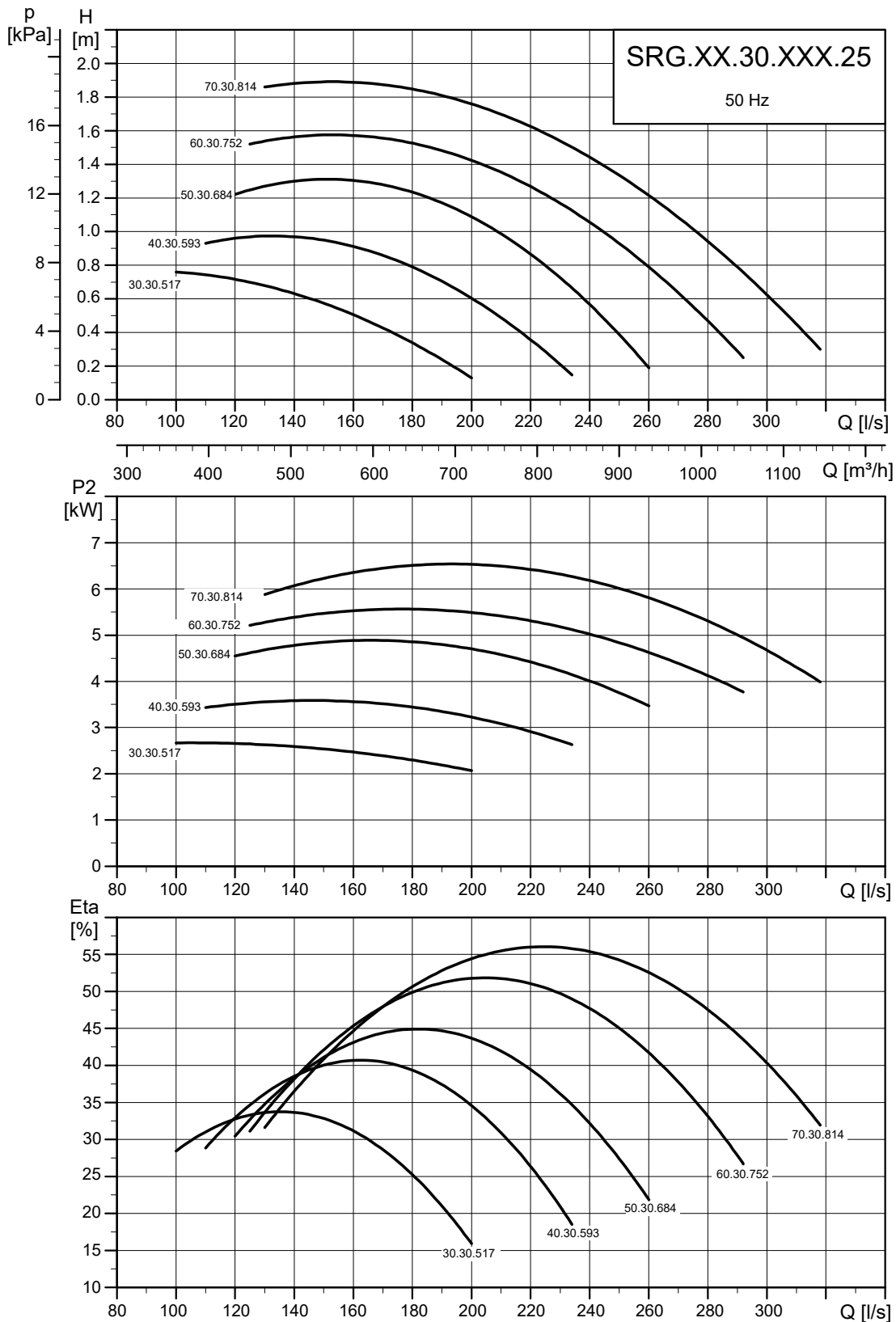
#### 4.4.1 SRG.xx.30.xxx.08



Performance curves, SRG.xx.30.xxx.08

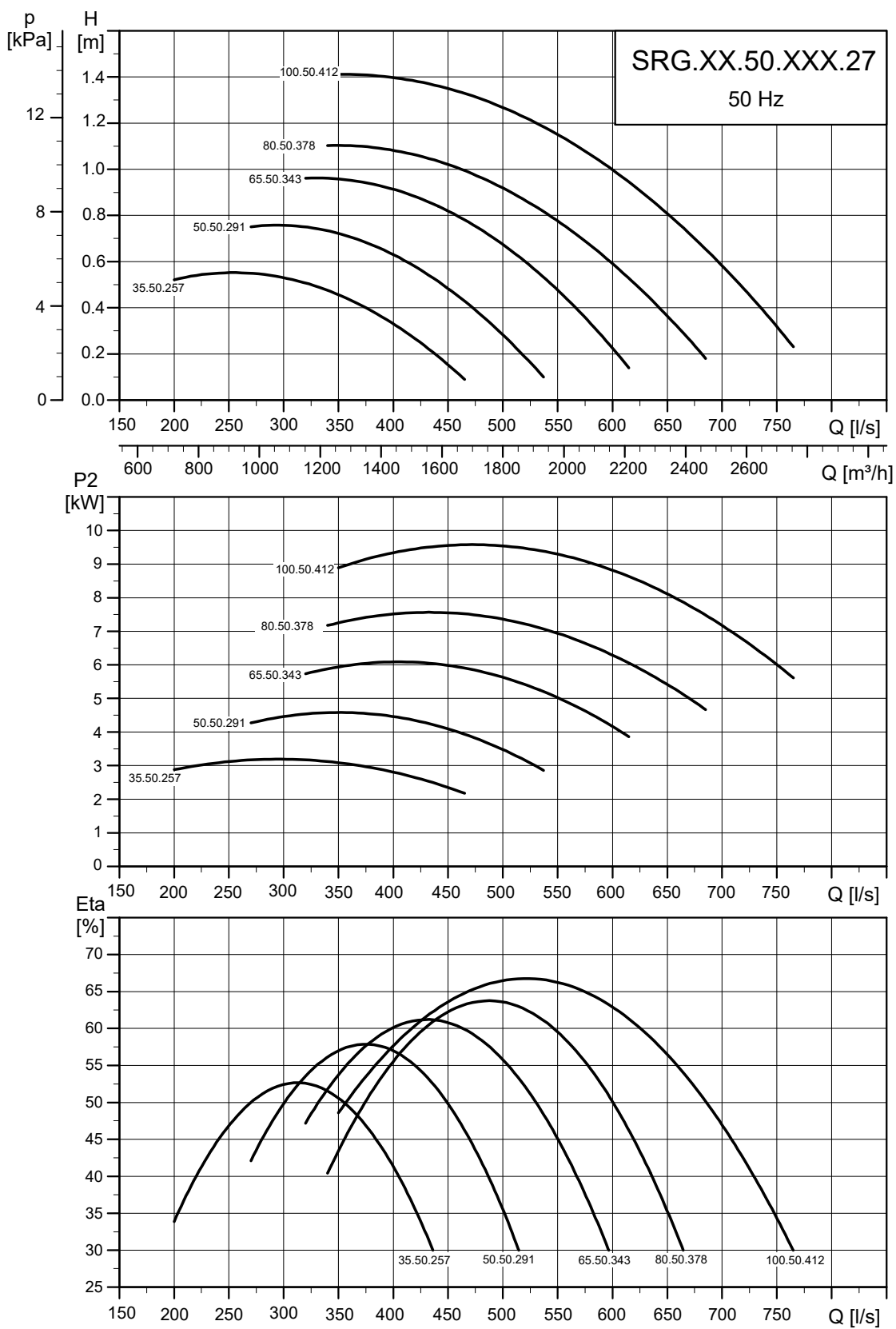
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4.4.2 SRG.xx.30.xxx.25



Performance curves, SRG.xx.30.xxx.25

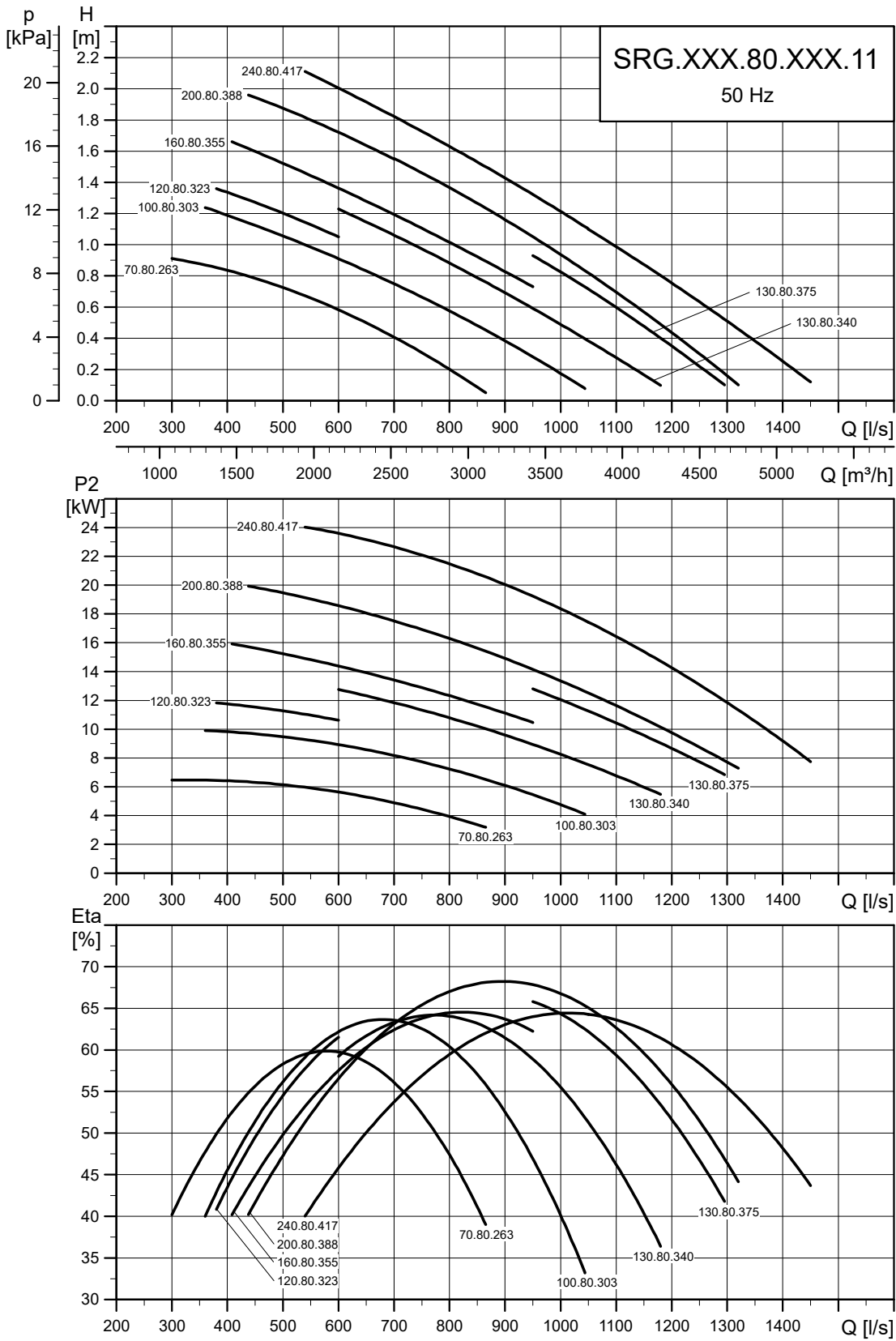
4.4.3 SRG.xx.50.xxx.27



TM062642

Performance curves, SRG.xx.50.xxx.27

4.4.4 SRG.xxx.80.xxx.11



TM062643

Performance curves, SRG.xx.80.xxx.11

## 5. Product range

### 5.1 400-415 V

Type designation	Product numbers of standard cables	Product numbers of screened cables
	10 m	10 m
SRG.08.30.526.08.5.0B	98798022	98798072
SRG.10.30.606.08.5.0B	98798023	98798073
SRG.13.30.678.08.5.0B	98798024	98798074
SRG.16.30.745.08.5.0B	98798025	98798075
SRG.18.30.806.08.5.0B	98798026	98798076
SRG.30.30.517.25.5.1B	98798027	98798077
SRG.40.30.593.25.5.1B	98798028	98798078
SRG.50.30.684.25.5.1B	98798029	98798079
SRG.60.30.752.25.5.1B	98798030	98798080
SRG.70.30.814.25.5.1B	98798031	98798081
SRG.35.50.257.27.5.1B	98798032	98798082
SRG.50.50.291.27.5.1B	98798033	98798083
SRG.65.50.343.27.5.1B	98798034	98798084
SRG.80.50.378.27.5.1B	98798035	98798085
SRG.100.50.412.27.5.1B	98798036	98798086
SRG.70.80.263.11.5.1B	98798037	98798087
SRG.100.80.303.11.5.1B	98798038	98798088
SRG.120.80.323.11.5.1B	98798039	98798089
SRG.130.80.340.11.5.1B	98798040	98798090
SRG.130.80.375.11.5.1B	98798042	98798092
SRG.160.80.355.11.5.1B	98798041	98798091
SRG.200.80.388.11.5.1B	98798043	98798093
SRG.240.80.417.11.5.1B	98798045	98798095

## 6. Variants

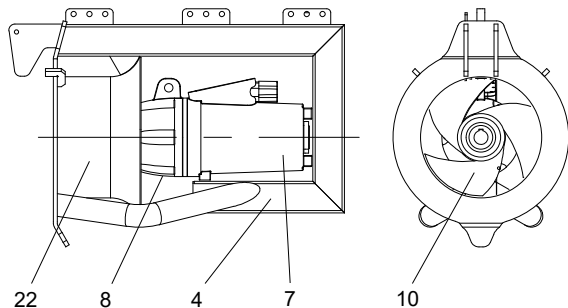
### 6.1 Variants

<b>Motor</b>			
			15 m
		7 x 4 mm <sup>2</sup> + 4 x 1.0 mm <sup>2</sup> , Ø21	25 m
			35 m
			50 m
			15 m
Power supply cable	Standard cable longer than 10 m	11 x 1.5 mm <sup>2</sup> , Ø17	25 m
			35 m
			50 m
			15 m
		11 x 2.5 mm <sup>2</sup> , Ø21	25 m
			35 m
			50 m
Screened power supply cable	Screened cable, complete, (cast in the cable entry)	7 x 4 mm <sup>2</sup> + 4 x 1 mm <sup>2</sup> , Ø22.5	15 m
			25 m
			35 m
Thermal protection	PTC sensor - one in each phase		Contact Grundfos.
<b>Coating</b>			
Product coating	Motor/gear housing		Different colours
			Thicker protection layer
			Contact Grundfos.
Impeller coating	Stainless-steel impellers		Different colours
			Protection layer
			300 micron epoxy
<b>Testing</b>			
Dry-testing motor certificate	Electrical properties and tightness		Contact Grundfos.
Production certificate	Certificate of compliance to EN 10204 2.1		Contact Grundfos.
Factory test certificate	Inspection and test certificate according to EN 10204 2.2		Contact Grundfos.
<b>Other</b>			
Special packaging	Batch packaging, hard/soft box, ex.		Contact Grundfos.
Special nameplate			Contact Grundfos.
Other variants			Contact Grundfos.

## 7. Construction

### 7.1 Pump

The position numbers in fig. *SRG* refer to section [7.4 Material specification](#).



TM030374

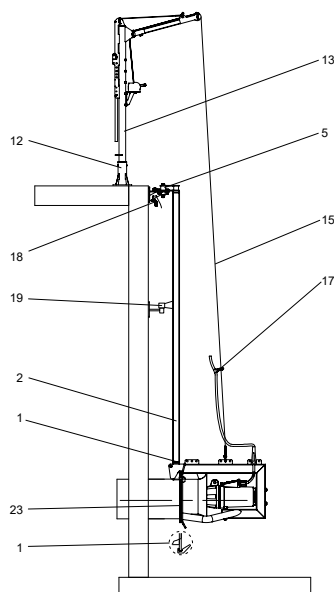
*SRG*

#### Related information

[7.4 Material specification](#)

### 7.2 Installation drawing

The position numbers in fig. *Example of pump installation* refer to section [7.4 Material specification](#).



TM043962

*Example of pump installation*

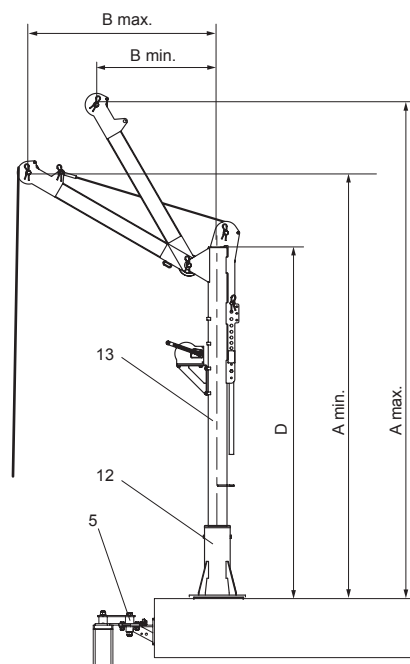
For detailed drawings of each accessory, see section List of accessories.

#### Related information

[7.4 Material specification](#)

### 7.3 Crane

In order to select the right size of crane for a specific SRG, see section Selection guide for accessories. The crane can easily be lifted off the crane foot (pos. 12) if it is needed in another installation.



TM043873

*Crane*

Crane type	A <sub>min.</sub> [mm]	A <sub>max.</sub> [mm]	B <sub>min.</sub> [mm]	B <sub>max.</sub> [mm]	D [mm]
M	2838	3521	654	1474	2286
L	2838	3521	654	1474	2280

Crane type	M	L
Wire diameter	Ø6	Ø7
Type of winch	8 AF	12 AF
Max. load	250 kg	500 kg
Total weight	61.2 kg	76.5 kg



## 7.4 Material specification

The position numbers refer to figures [SRG](#) to [Crane](#).

Pos.	Component	Material	DIN W.-Nr./EN standard	AISI/ASTM
1	Bottom fixation for connection flange	Stainless steel	1.4301	304
2	Column profile	Stainless steel	1.4301	304
4	Pump rack	Stainless steel	1.4301	304
5	Top fixation bracket	Stainless steel	1.4301	304
7	Motor housing	Cast iron, grade 25 (EN-GJL-250)	EN-JL1040	
8	Gear box	Cast iron, grade 25 (EN-GJL-250)	EN-JL1040	
10	Impeller	Stainless steel	1.4581/1.4408	316
12	Crane foot	Stainless steel	1.4301	304
13	Crane with winch and lifting wire	Stainless steel	1.4301	304
15	Lifting wire including wire clamp	Stainless steel	1.4404	316 L
17	Cable clamp	Stainless steel	1.4301	304
18	Cable sock including shackle. Ø10	Stainless steel/synthetic material	1.4404	316 L
19	Intermediate fixation bracket	Stainless steel	1.4301	304
22	Hydraulic inlet	Stainless steel	1.4301	304
23	Connection flange	Steel	1.4301	304

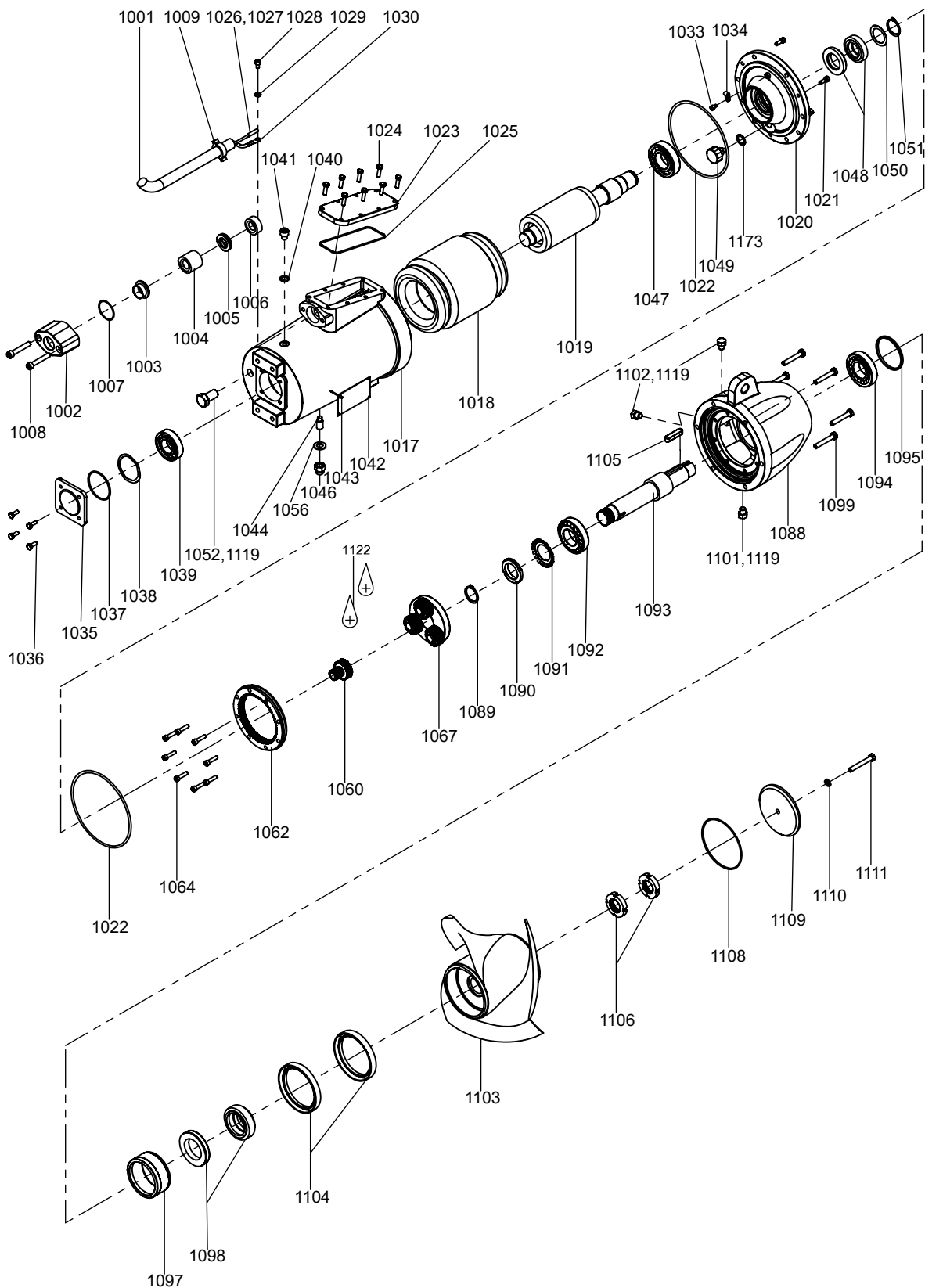
### Related information

[7.1 Pump](#)

[7.3 Crane](#)

## 7.5 Exploded views

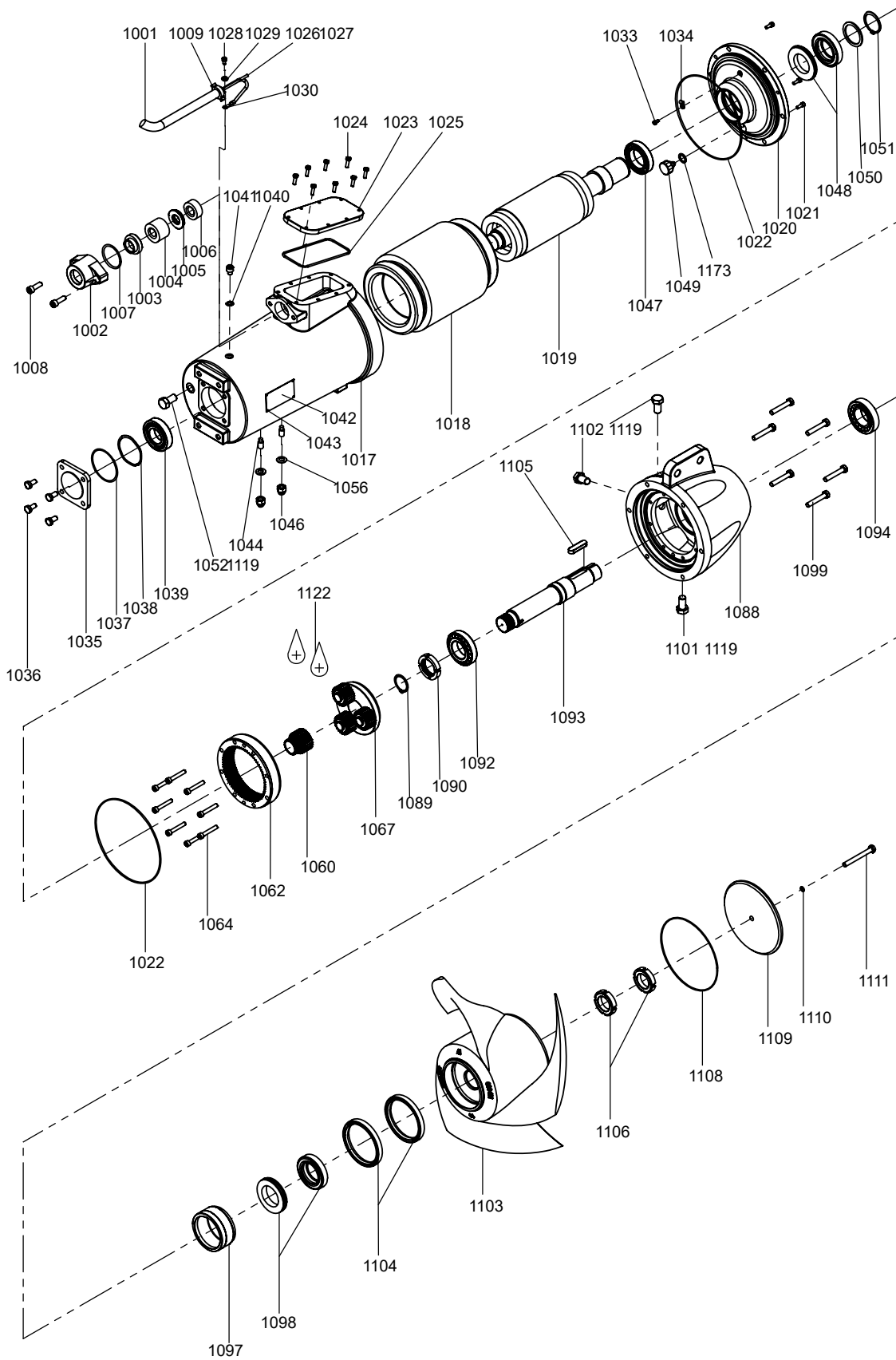
### 7.5.1 SRG.xx.30.xxx and SRG.35.50.xxx



Exploded view, SRG.xx.30.xxx and SRG.35.50.xxx

TM062752

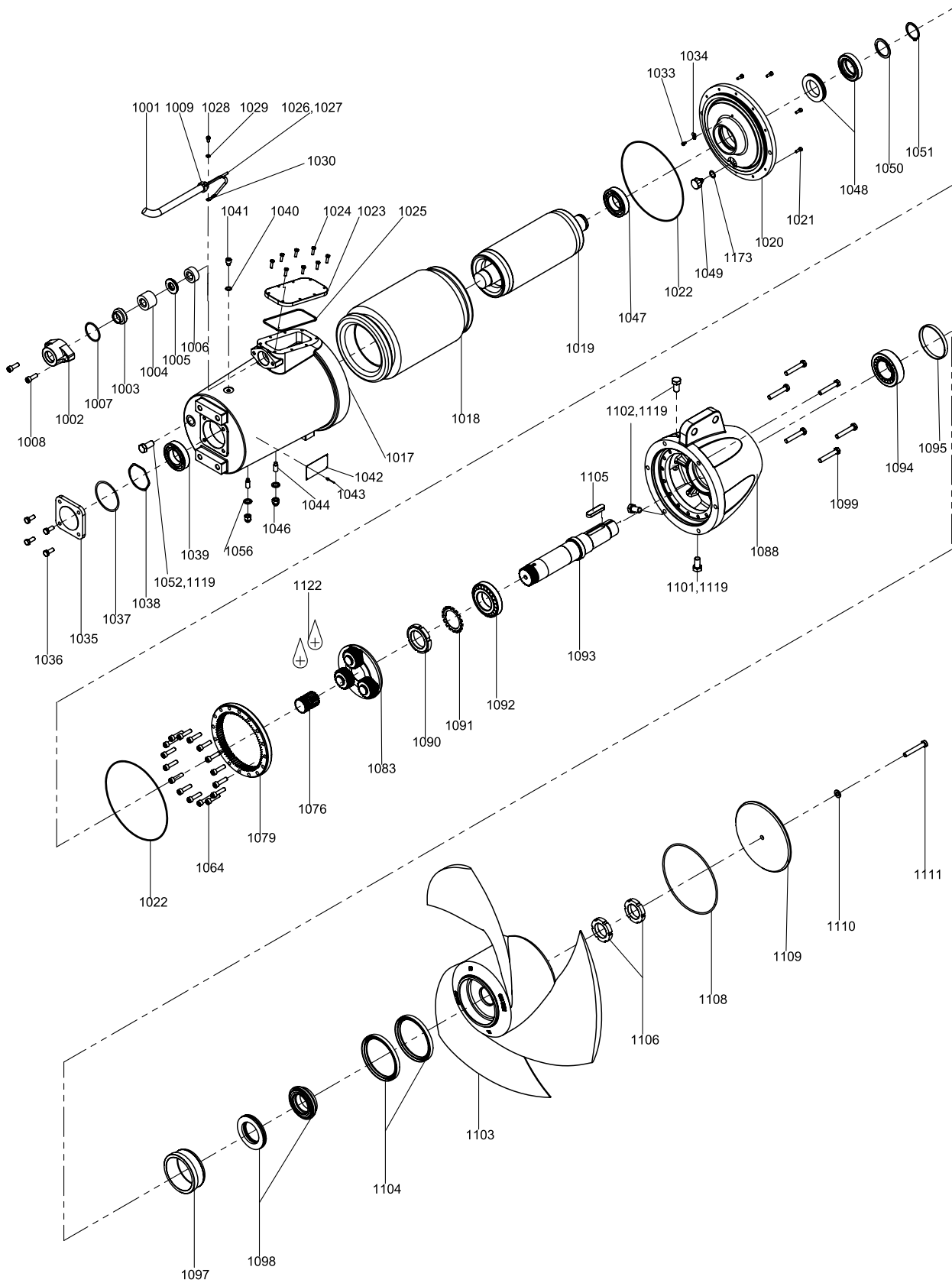
7.5.2 SRG.50-100.50.xxx and SRG.70-130.80.xxx



TM062750

Exploded view, SRG.50-100.50.xxx and SRG.70-130.80.xxx

7.5.3 SRG.150-240.80.xxx and SRG.120.323.11.5.1B



Exploded view, SRG.150-240.80.xxx and SRG.120.323.11.5.1B

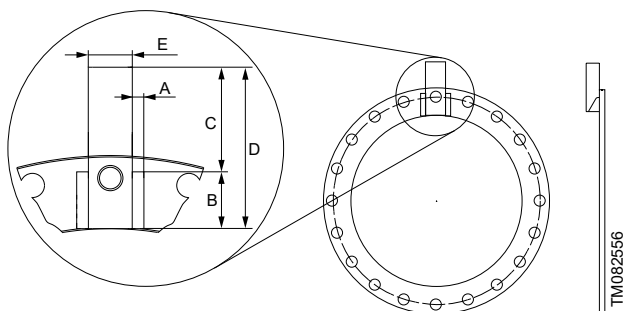
TM062751

## 7.6 Position numbers and material description

Pos.	Description	Material
1001	Cable	CPE (rubber)
1002	Cable flange	EN-GJL250
1003	Cable guide	DIN 1.4301
1004	Cable seal, large	Elastomer (70 shore hardness)
1005	Thrust washer	DIN 1.4301
1006	Cable seal, small	Elastomer (70 shore hardness)
1007	O-ring	NBR
1008	Screw	DIN 1.4301
1009	Cable relief	Zinc-plated steel
1017	Motor housing	EN-GJL250
1018	Stator	Treated sheet metal/copper
1019	Rotor with shaft	Treated sheet metal/aluminium /DIN 1.7147
1020	Motor flange	EN-GJL250
1021	Screw	Zinc-plated steel
1022	O-ring	NBR
1023	Terminal box cover	EN-GJL250
1024	Screw	DIN 1.4301
1025	O-ring	NBR
1026	Cable joint	Tin-plated copper, PA-insulated
1027	Cable joint	Tin-plated copper, PA-insulated
1028	Screw	Zinc-plated steel
1029	Lock washer	Zinc-plated spring steel
1030	Cable shoe	Tin-plated copper
1033	Screw	Zinc-plated steel
1034	Cable clamp	
1035	Bearing cover	EN-GJL250
1036	Screw	DIN 1.4301
1037	O-ring	NBR
1038	Compensation disc	DIN 1.0605
1039	Ball bearing	
1040	U-washer	Copper
1041	Screw	DIN 1.4301
1042	Nameplate	DIN 1.4301
1043	Rivet	DIN 1.4301 (INOX/INOX)
1044	Set screw	Plain steel 45H / DIN 1.4401
1046	Nut	DIN 1.4301
1047	Ball bearing	
1048	Mechanical shaft seal	Carbon/alox/NBR
1049	Water-in-oil sensor	Brass/epoxy resin
1050	Shim	Bright steel
1051	Circlip	Spring steel (DIN 17222)
1052	Plug	Brass (DIN 2.0220)
1053	Connection for protective earthing	Nickel-plated brass
1056	Seal washer	Copper
1060	Sun wheel	34CrMo4V (DIN 1.7220)
1062	Ring gear	34CrMo4V (DIN 1.7220)
1064	Screw	Zinc-plated steel
1067	Planet gear, complete	Ck45N (DIN 1.1191) /34CrMo4V
1088	Gear housing	EN-GJL250
1089	Circlip	Spring steel (DIN 17222)
1090	Slotted nut	Bright steel
1091	Lock washer	Bright steel

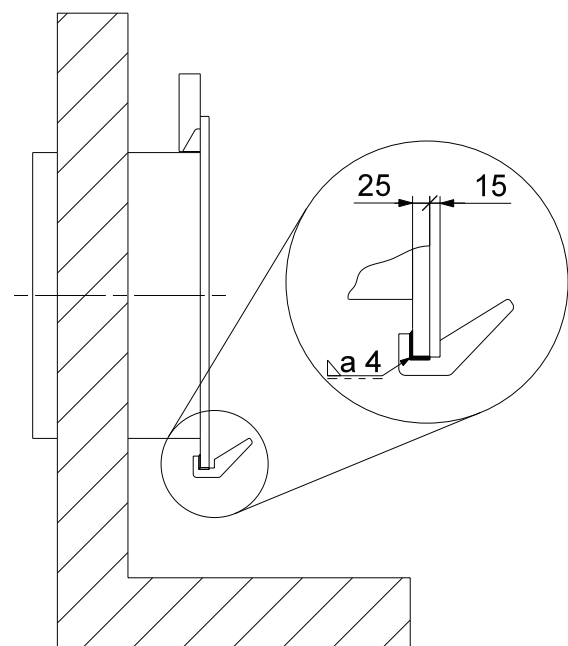
Pos.	Description	Material
1092	Tapered roller bearing	
1093	Gear shaft	16CrNi4 (DIN 1.5713)
1094	Tapered roller bearing	
1095	Intermediate ring	DIN 1.0570
1097	Wear ring	DIN 1.4301
1098	Mechanical shaft seal	Tungsten carbide/SiC-SiC
1099	Screw	DIN 1.4301
1101	Drain plug with magnet	Brass (DIN 2.0220)
1102	Plug	Brass (DIN 2.0220)
1103	Impeller	DIN 1.4408/DIN 1.4581
1104	Lip seal	FKM
1105	Fit-in key	Ck45
1106	Slotted nut	Bright steel
1108	O-ring	NBR
1109	Hub cover	DIN 1.4301
1110	Washer	Brass (DIN 2.0220)
1111	Screw	DIN 1.4301
1119	Tape	PTFE
1120	Screw-sealing paste	
1121	Sealing paste	
1122	Gear oil	ISO VG 68
1173	Seal washer	Copper

### 7.7 Dimensions, accessories

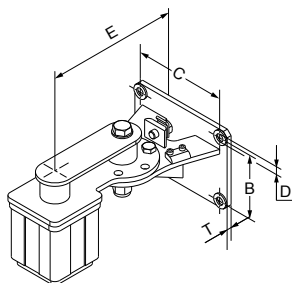


Bottom fixation on connection flange

Pump type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
All	15	64	156	220	60 x 60 x 3

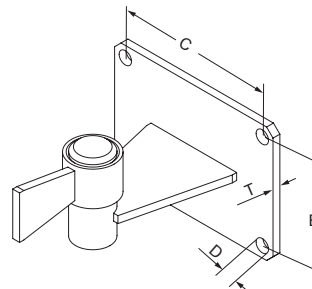


Claws for connection flange, SRG.xx.80.xx, (delivered together with the bottom fixation)



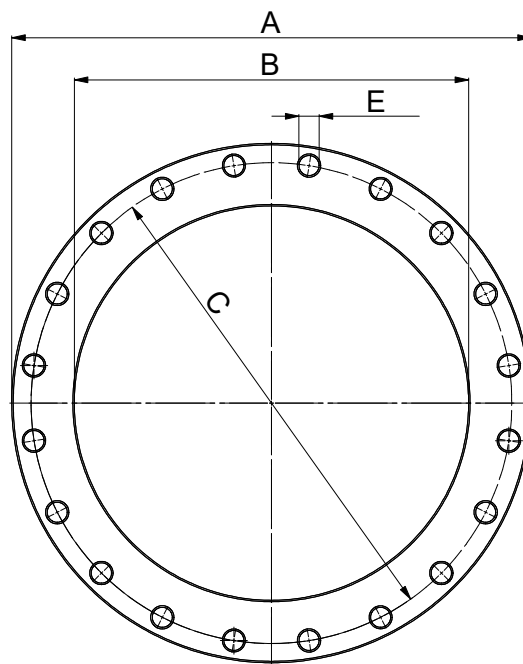
Top fixation bracket

Column profile	B [mm]	C [mm]	D [mm]	E [mm]	T [mm]
60 x 60				240	
80 x 80	110	160	15	250	8
100 x 100				261	
120 x 120				261	



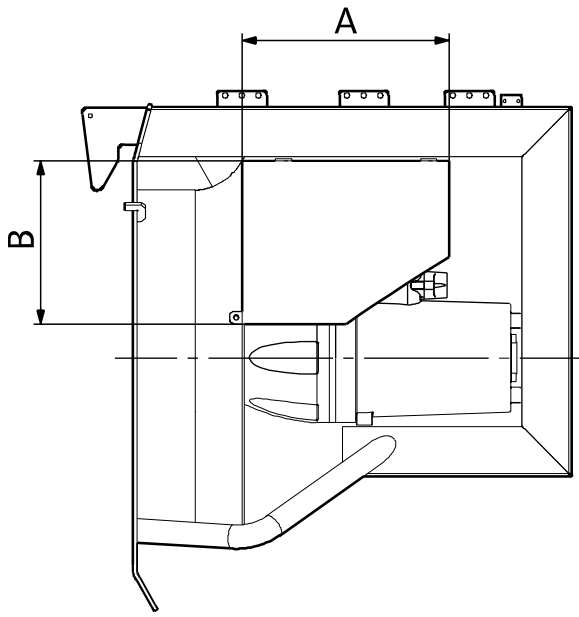
Intermediate fixation bracket

B [mm]	C [mm]	D [mm]	T [mm]
110	160	15	8



Connection flange

DN	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
300	445	306.5	400	15	12 x Ø22
500	670	508.5	620	25	20 x Ø26
800	1015	816	950	25	24 x Ø33

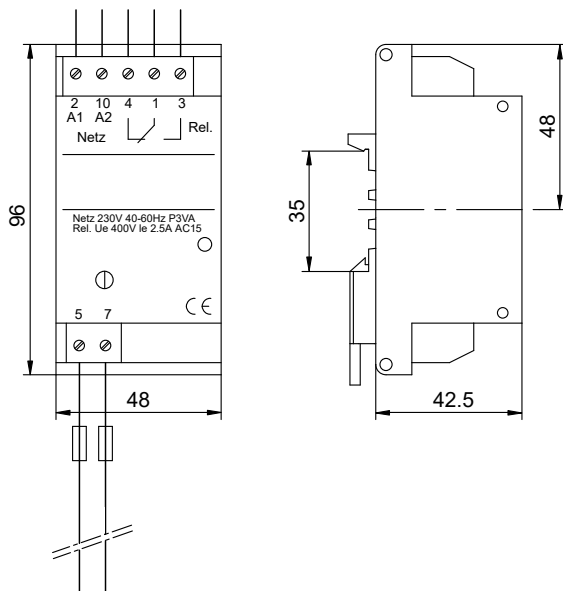


TM030563

Vortex shield

Pump type	A [mm]	B [mm]	Weight [kg]
SRG.xx.30.xx	300	174	3
SRG.xx.50.xx	420	256	6
SRG.xx.80.xx	500	399	15

### 7.7.1 Dimensional sketch of ALR-20/A-Ex relay



TM028867

ALR-20/A-Ex relay

Dimensions are in mm.

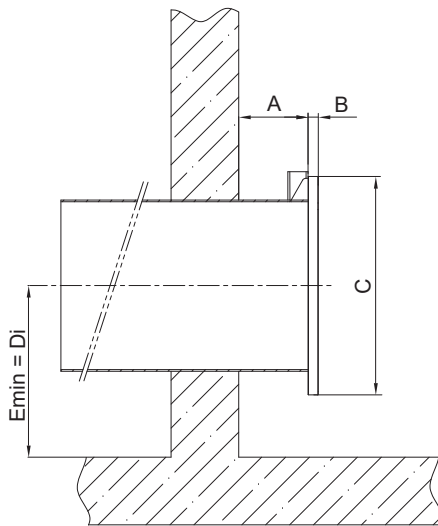


## 8. Positioning

### 8.1 General description

Submersible recirculation pumps must be positioned properly in order to obtain efficient operation and prevent vibrations resulting in wear and/or reduced pump performance.

Submersible recirculation pumps are normally equipped with a hydraulic inlet connecting to the connection flange. See the following figure.



TM062654

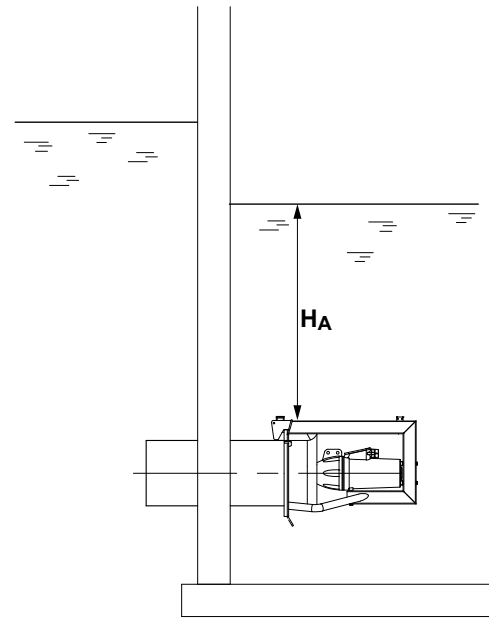
Dimensions of connecting pipe

Pump type	DN	Flange	A [mm]	B [mm]	C [mm]	E <sub>min</sub> [mm]
SRG.xx.30	300			15	445	300
SRG.xx.50	500	PN 10 2/3	270		670	500
SRG.xx.80	800			25	1015	800

E<sub>min</sub>: distance from bottom of tank to middle of connecting pipe.

D<sub>i</sub>: D impeller

If the pump is operating at low water levels, install a vortex shield in order to prevent the pump from sucking air into the impeller. A vortex shield is available as an accessory. See fig. [Installation with vortex shield](#).



TM062663

Installation with vortex shield

H<sub>A</sub>: distance from top of pump rack to surface of liquid.

Pump type	Min. H <sub>A</sub> without vortex shield [mm]	Min. H <sub>A</sub> with vortex shield [mm]
SRG.xx.30	450	300
SRG.xx.50	750	500
SRG.xx.80	1200	800

Aeration diffusers cannot be positioned below the pump.

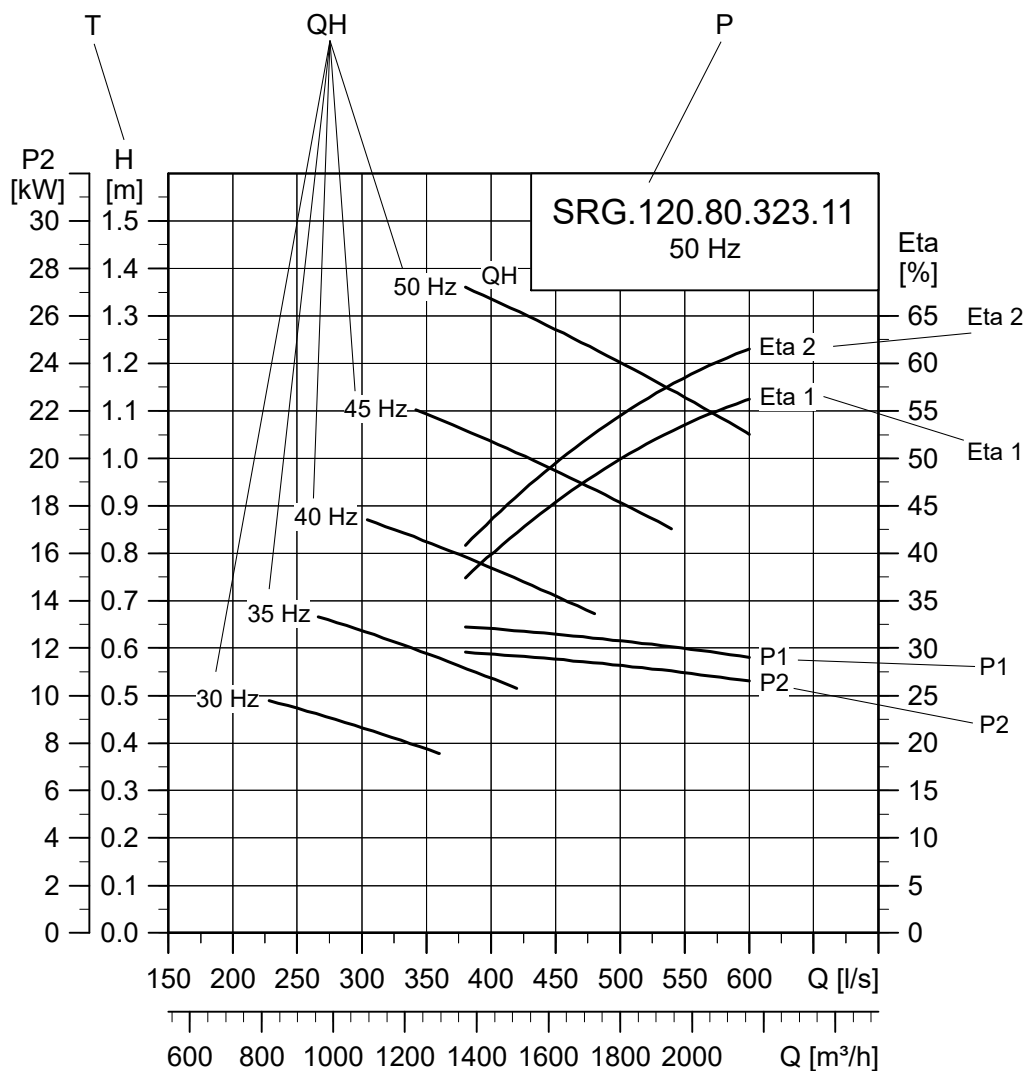
The distance from the pump impeller to the nearest aeration diffuser must be at least 5 x the propeller diameter plus the installation height.

It is possible to operate several pumps in parallel. The distance between pumps must be at least 3 x the propeller diameter measured from centre line to centre line.

## 9. Technical data

### 9.1 How to read the performance curves

The guidelines below apply to the curves on the following pages. Tolerances are according to ISO 9906:2012, grade 3B.



TM079683

Performance curves

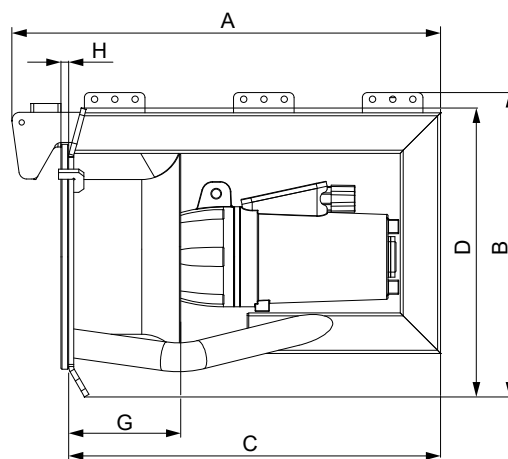
Pos.	Description
T	Total pump head $H = H_{total}$
QH	QH curves at different frequencies
P	Pump type
Eta 1	Eta 1: overall efficiency
Eta2	Eta 2: hydraulic efficiency
P1	P1: motor output power
P2	P2: shaft power

## 9.2 SRG.08.30.526.08.5.0B

### 9.2.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	0.8 kW
$I_N$	2.0 A
$I_{start}$	28 A
Cos $\phi$ 1/1 load	0.76
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	526 min <sup>-1</sup>
Blade angle	8 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

### 9.2.2 Dimensions and weights

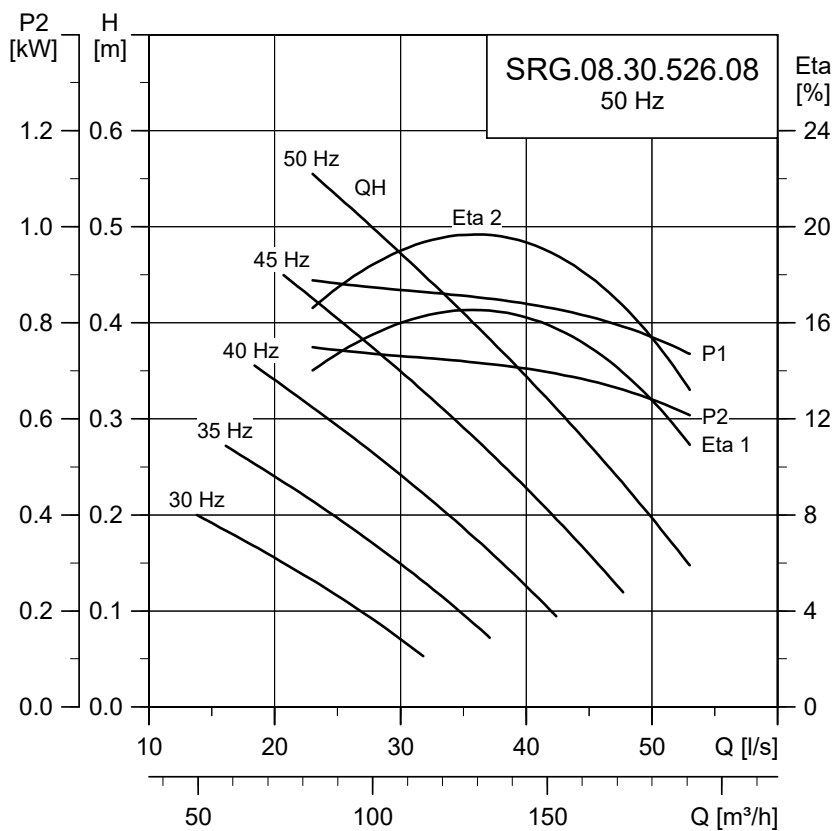


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>2)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	109	113

2) Including the cable.

### 9.2.3 Performance curves



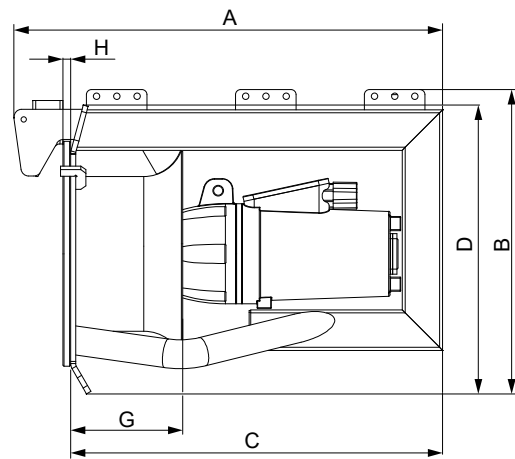
TM062597

### 9.3 SRG.10.30.606.08.5.0B

#### 9.3.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	1.0 kW
$I_N$	2.3 A
$I_{start}$	28 A
Cos $\phi$ 1/1 load	0.81
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	606 min <sup>-1</sup>
Blade angle	8 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.3.2 Dimensions and weights

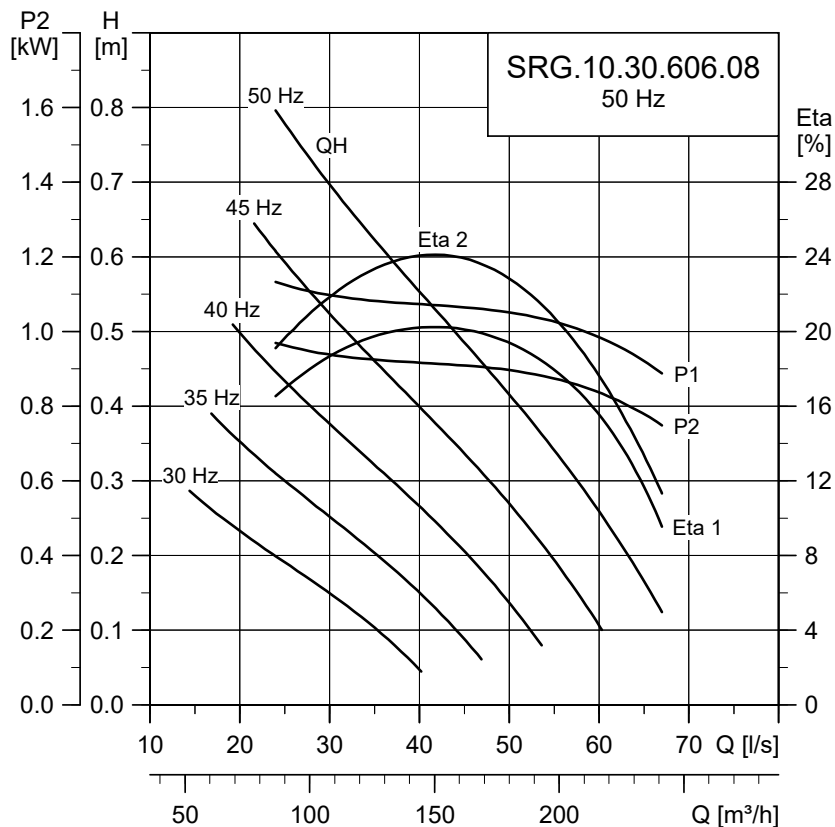


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>2)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	109	113

2) Including the cable.

#### 9.3.3 Performance curves



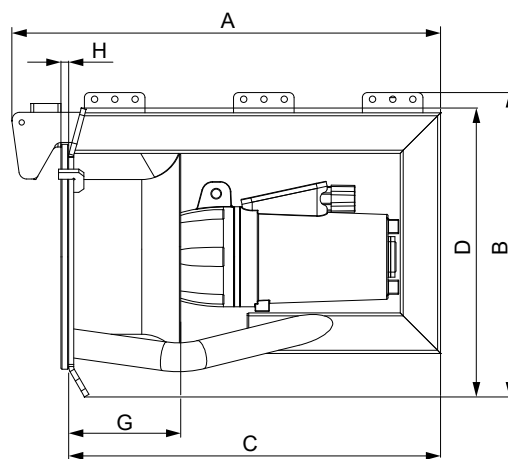
TM062598

### 9.4 SRG.13.30.678.08.5.0B

#### 9.4.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	1.3 kW
$I_N$	2.7 A
$I_{start}$	28 A
Cos $\phi$ 1/1 load	0.86
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	678 min <sup>-1</sup>
Blade angle	8 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.4.2 Dimensions and weights

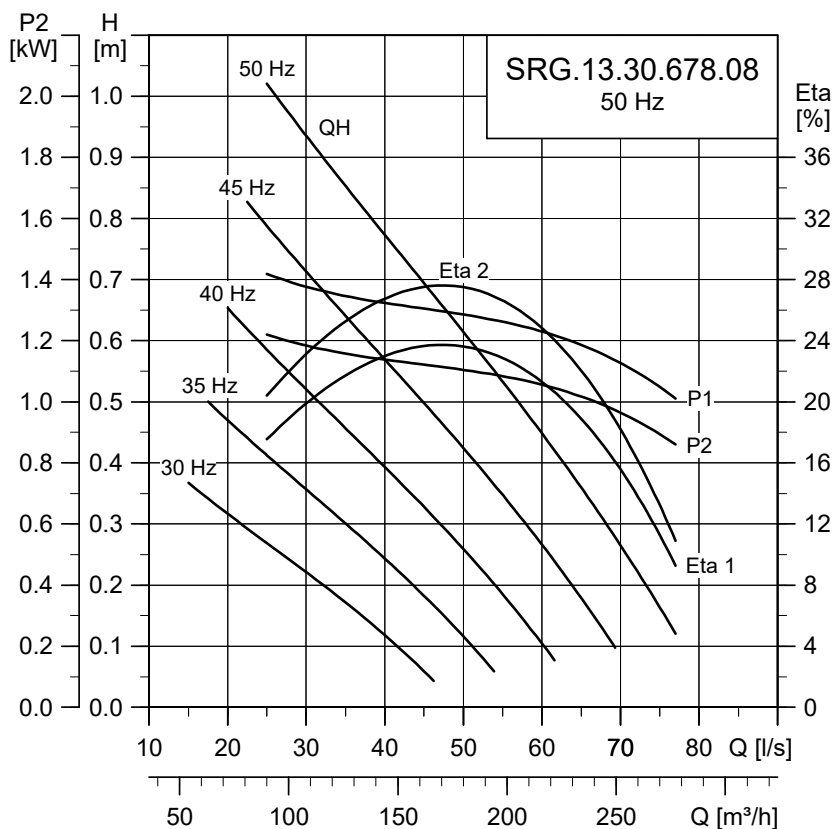


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>2)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	109	113

2) Including the cable.

#### 9.4.3 Performance curves



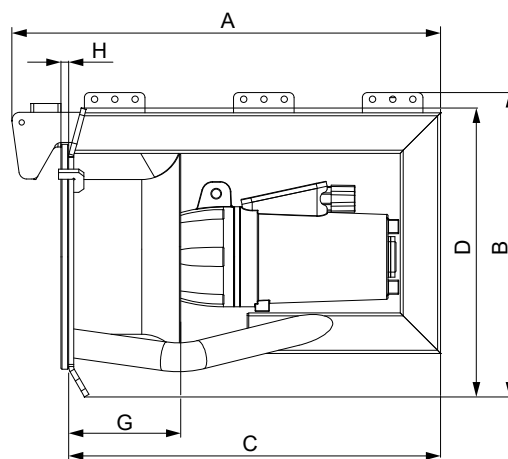
TM062599

### 9.5 SRG.16.30.745.08.5.0B

#### 9.5.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	1.6 kW
$I_N$	3.2 A
$I_{start}$	28 A
Cos $\phi$ 1/1 load	0.89
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	745 min <sup>-1</sup>
Blade angle	8 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.5.2 Dimensions and weights

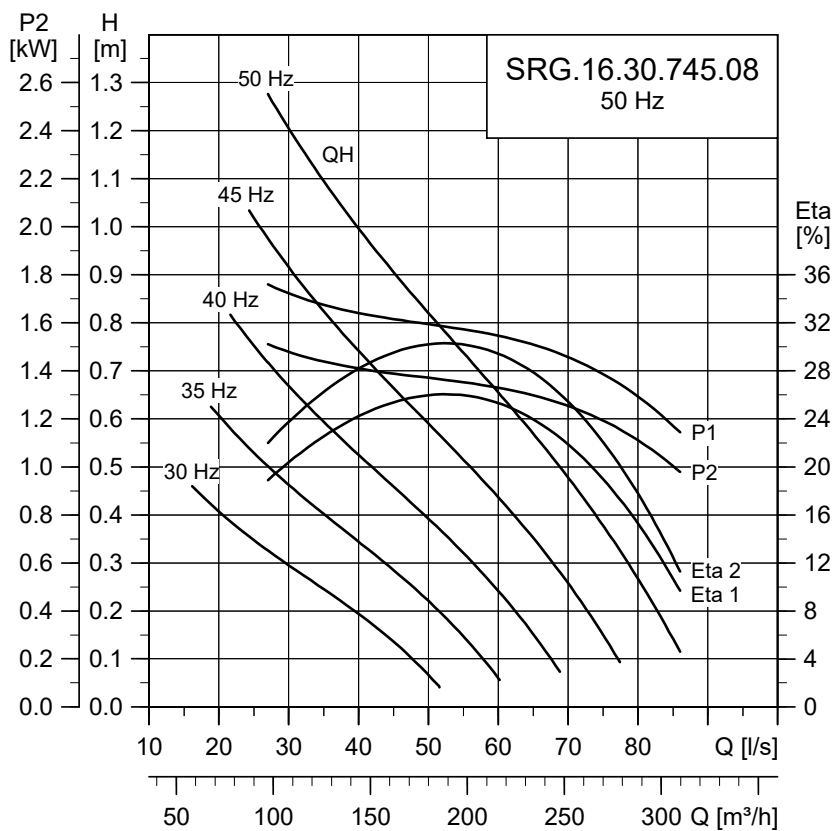


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>2)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	109	113

2) Including the cable.

#### 9.5.3 Performance curves



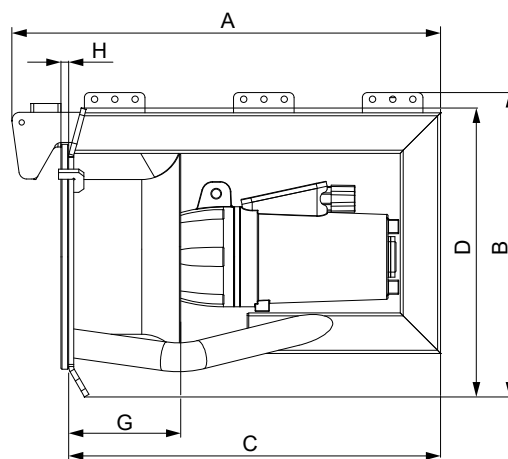
TM062600

### 9.6 SRG.18.30.806.08.5.0B

#### 9.6.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	1.8 kW
$I_N$	3.6 A
$I_{start}$	28 A
Cos $\phi$ 1/1 load	0.90
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	806 min <sup>-1</sup>
Blade angle	8 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.6.2 Dimensions and weights

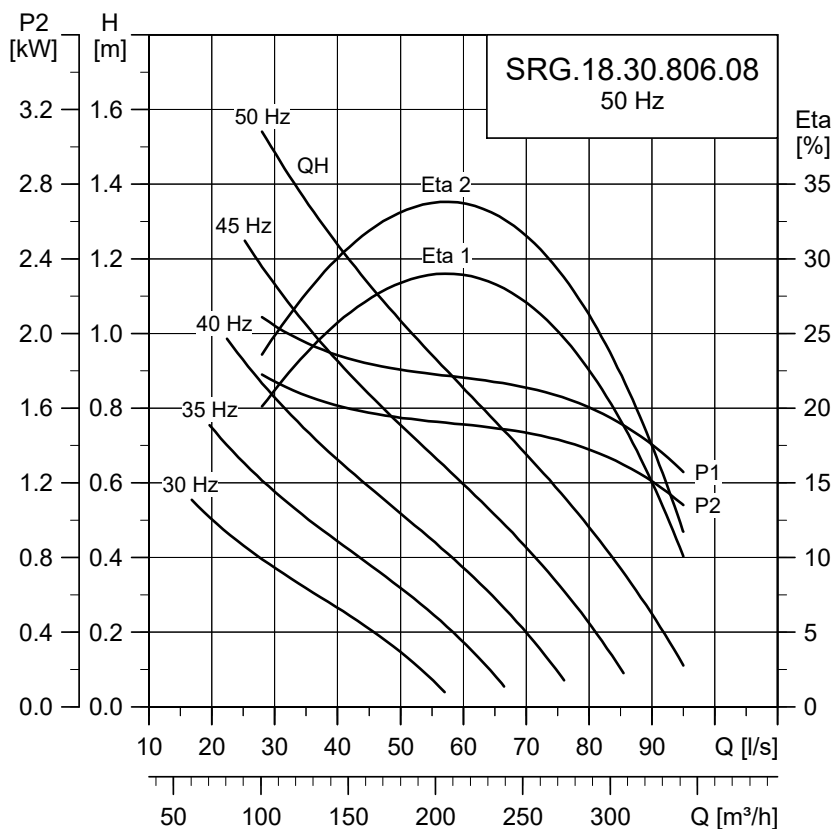


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>2)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	109	113

2) Including the cable.

#### 9.6.3 Performance curves



TM062601

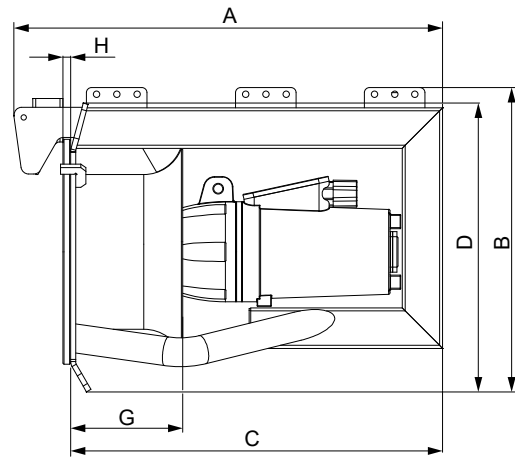


## 9.7 SRG.30.30.517.25.5.1B

### 9.7.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	3.0 kW
$I_N$	5.8 A
$I_{start}$	62 A
Cos $\phi$ 1/1 load	0.86
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	517 min <sup>-1</sup>
Blade angle	25 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

### 9.7.2 Dimensions and weights

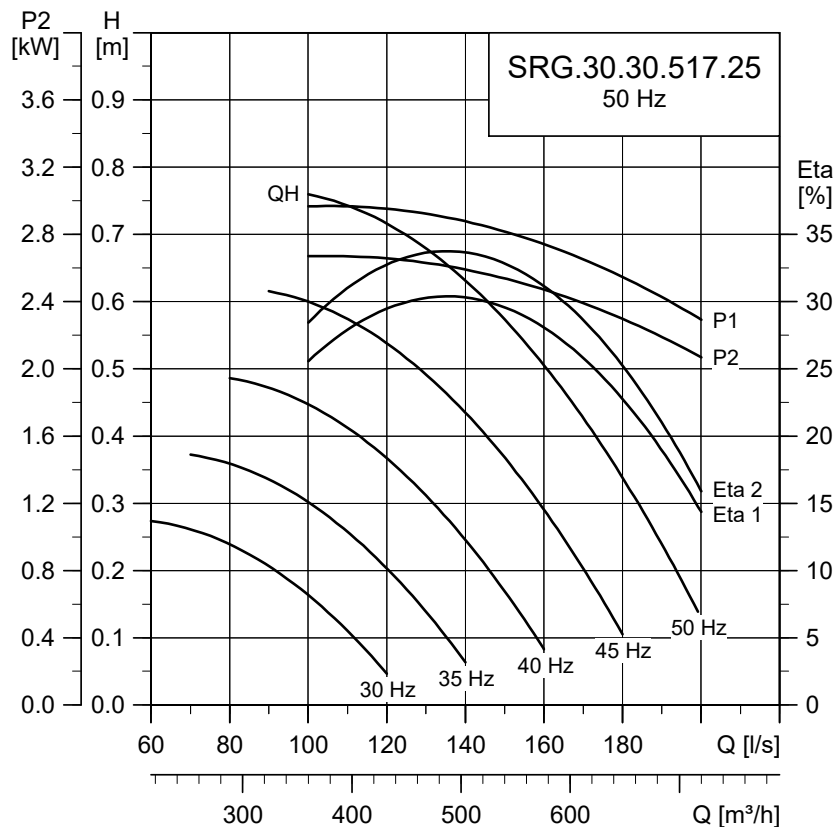


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>3)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	112	116

3) Including the cable.

### 9.7.3 Performance curves



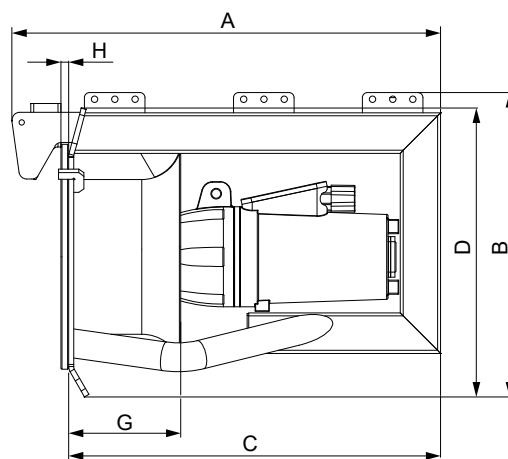
TM062602

### 9.8 SRG.40.30.593.25.5.1B

#### 9.8.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	4.0 kW
$I_N$	7.5 A
$I_{start}$	62 A
Cos $\phi$ 1/1 load	0.89
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	593 min <sup>-1</sup>
Blade angle	25 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.8.2 Dimensions and weights

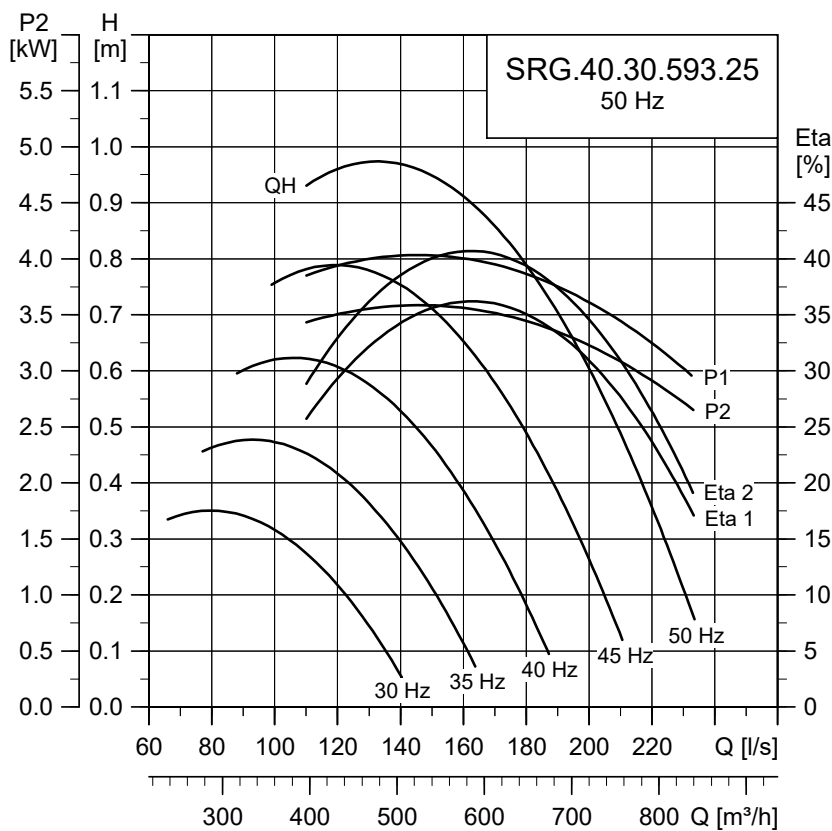


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>3)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	112	116

3) Including the cable.

#### 9.8.3 Performance curves



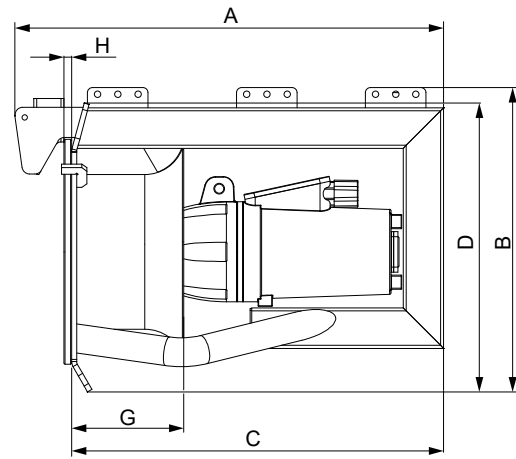
TM062603

### 9.9 SRG.50.30.684.25.5.1B

#### 9.9.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	5.0 kW
$I_N$	9.5 A
$I_{start}$	62 A
Cos $\phi$ 1/1 load	0.90
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	684 min <sup>-1</sup>
Blade angle	25 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.9.2 Dimensions and weights

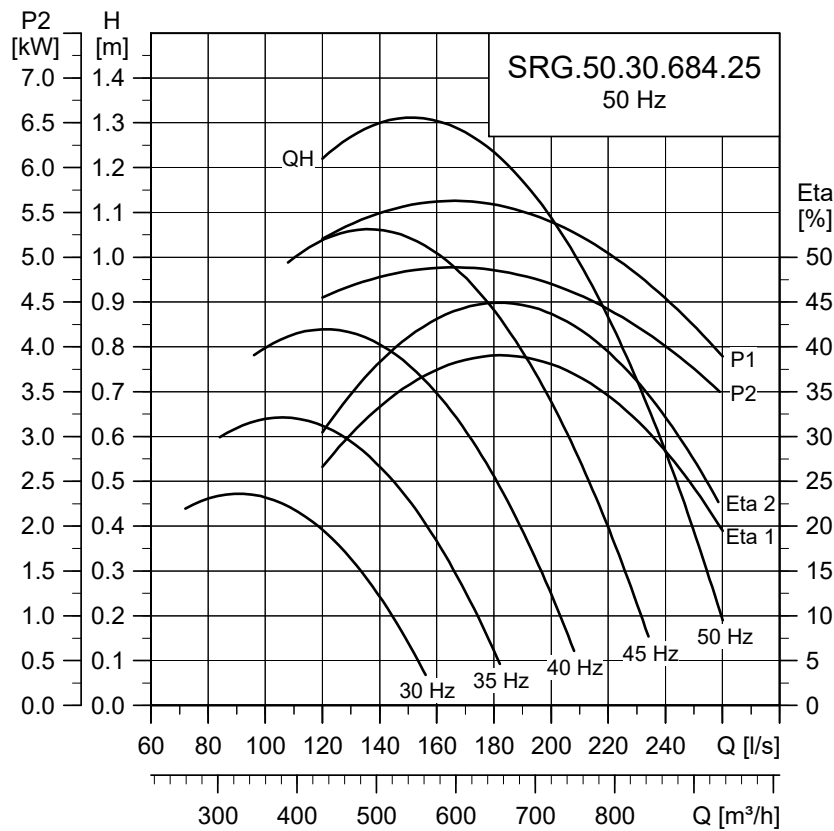


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>3)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	112	116

3) Including the cable.

#### 9.9.3 Performance curves



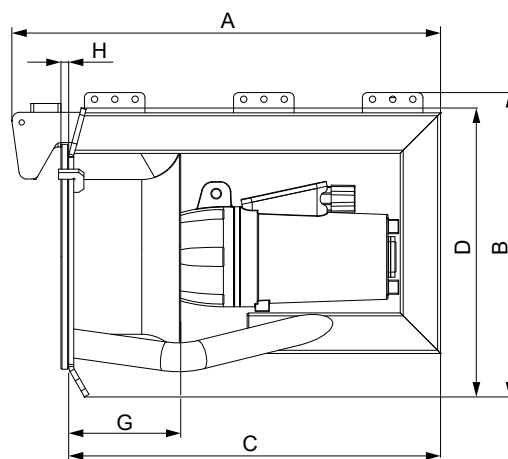
TM062604

### 9.10 SRG.60.30.752.25.5.1B

#### 9.10.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	6.0 kW
I <sub>N</sub>	14.0 A
I <sub>start</sub>	138 A
Cos φ 1/1 load	0.72
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	752 min <sup>-1</sup>
Blade angle	25 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.10.2 Dimensions and weights

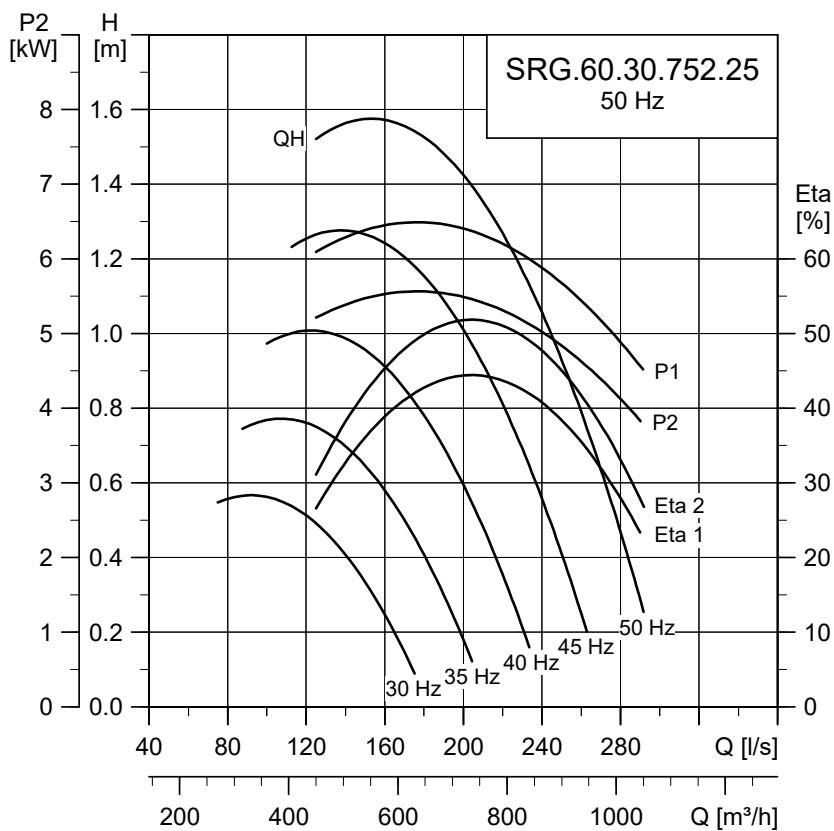


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>4)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	120	124

4) Including the cable.

#### 9.10.3 Performance curves



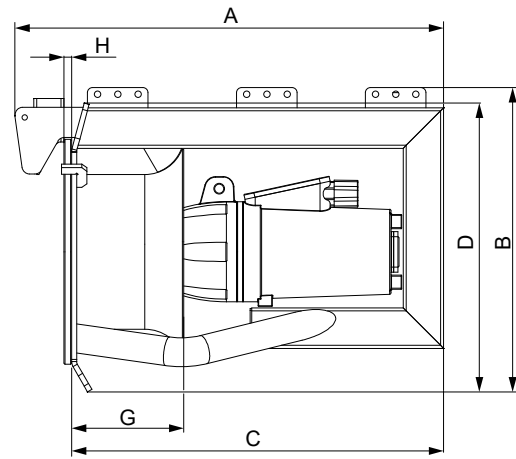
TM062605

### 9.11 SRG.70.30.814.25.5.1B

#### 9.11.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	2
Power output P2	7.0 kW
$I_N$	15.4 A
$I_{start}$	138 A
Cos $\phi$ 1/1 load	0.77
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	814 $min^{-1}$
Blade angle	25 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.11.2 Dimensions and weights

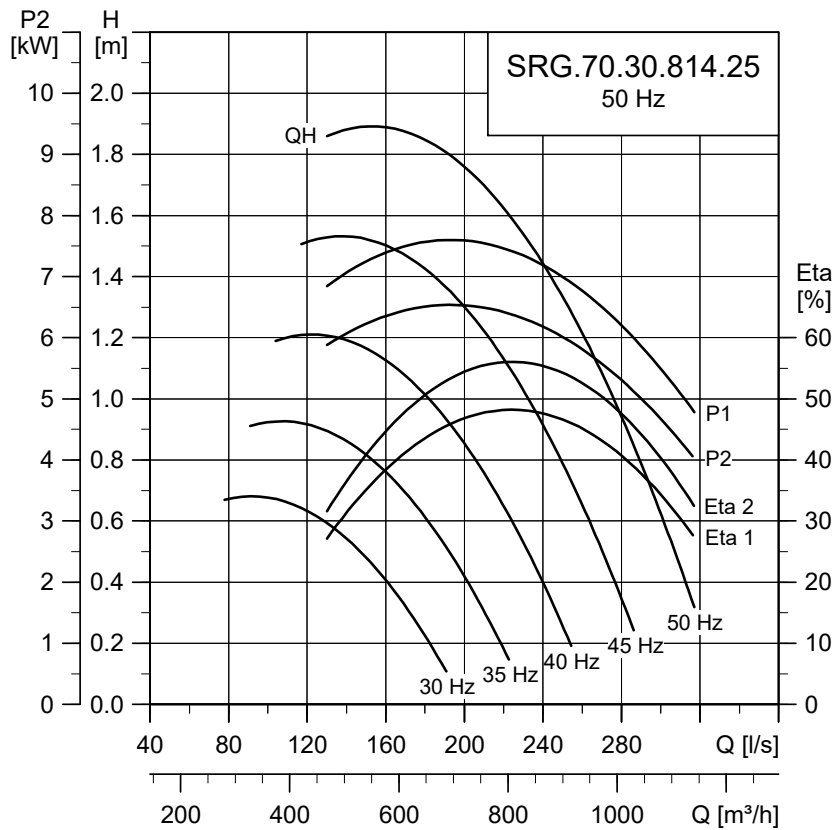


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>4)</sup> [kg]	
							Standard	Screened
848	602	736	571	220	15	10	120	124

4) Including the cable.

#### 9.11.3 Performance curves



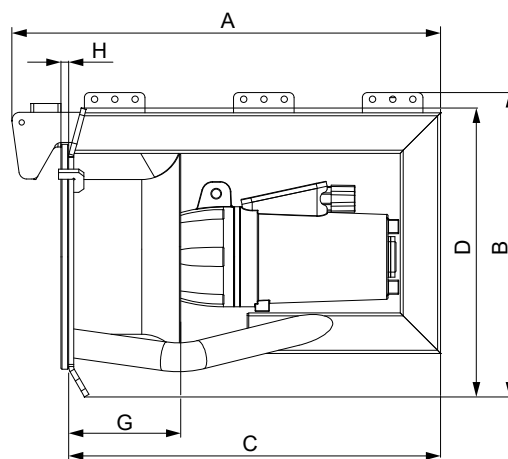
TM062606

### 9.12 SRG.35.50.257.27.5.1B

#### 9.12.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	3.5 kW
$I_N$	7.0 A
$I_{start}$	47 A
Cos $\phi$ 1/1 load	0.86
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	257 min <sup>-1</sup>
Blade angle	27 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G1.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.12.2 Dimensions and weights

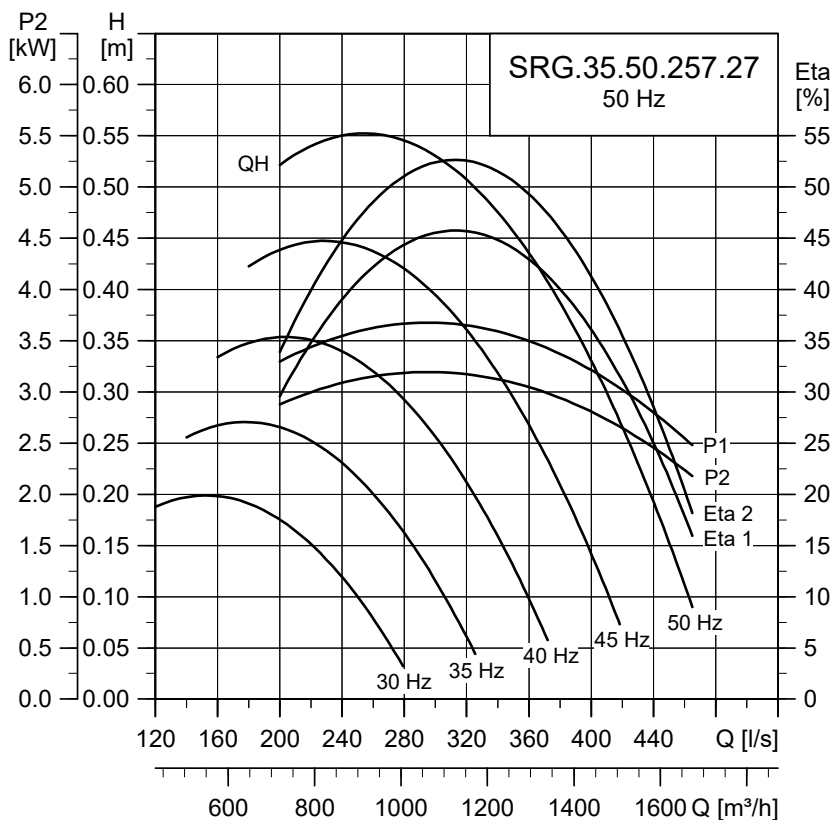


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>5)</sup> [kg]	
							Standard	Screened
910	835	757	824	230	25	10	150	154

5) Including the cable.

#### 9.12.3 Performance curves



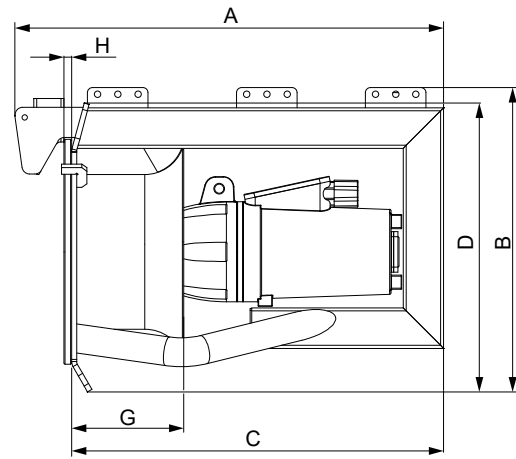
TM062607

### 9.13 SRG.50.50.291.27.5.1B

#### 9.13.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	5.0 kW
$I_N$	12.5 A
$I_{start}$	109 A
Cos $\phi$ 1/1 load	0.69
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	291 min <sup>-1</sup>
Blade angle	27 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G2.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.13.2 Dimensions and weights

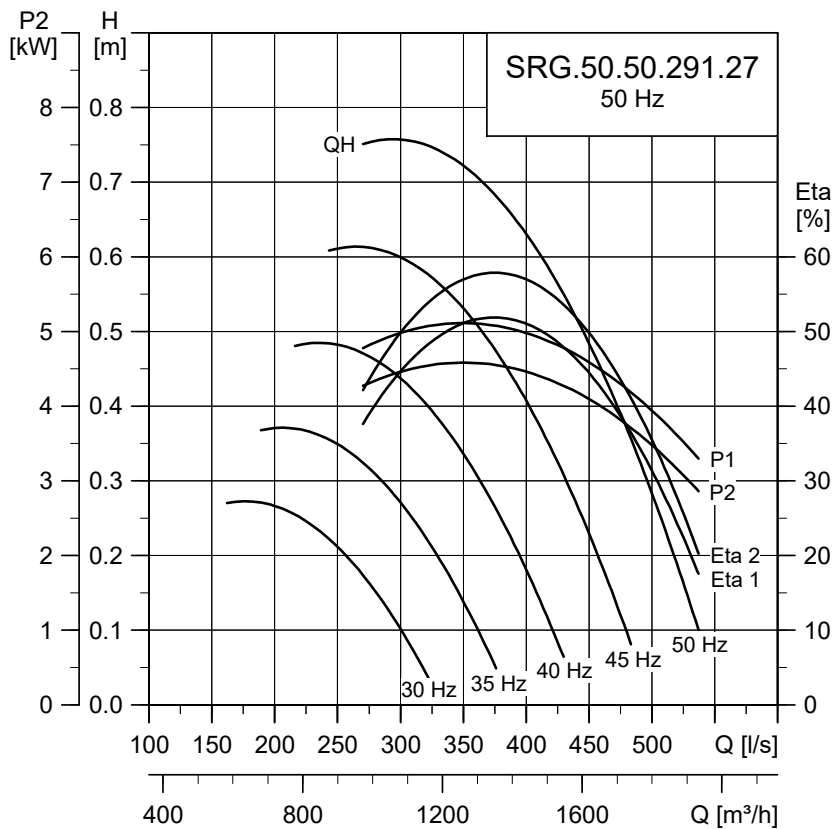


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>6)</sup> [kg]	
							Standard	Screened
1119	855	996	824	230	25	10	240	243

6) Including the cable.

#### 9.13.3 Performance curves



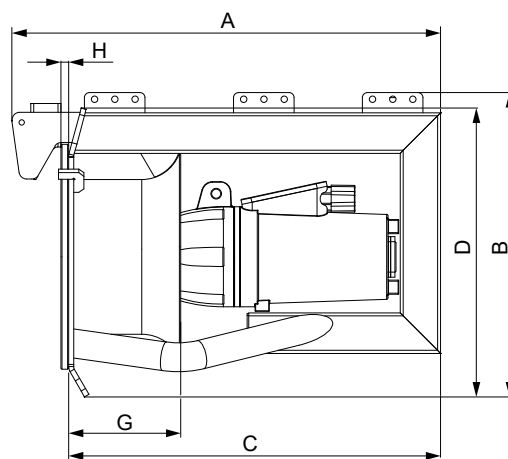
TM062608

### 9.14 SRG.65.50.343.27.5.1B

#### 9.14.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	6.5 kW
$I_N$	14.0 A
$I_{start}$	109 A
Cos $\phi$ 1/1 load	0.76
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	343 min <sup>-1</sup>
Blade angle	27 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G2.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.14.2 Dimensions and weights

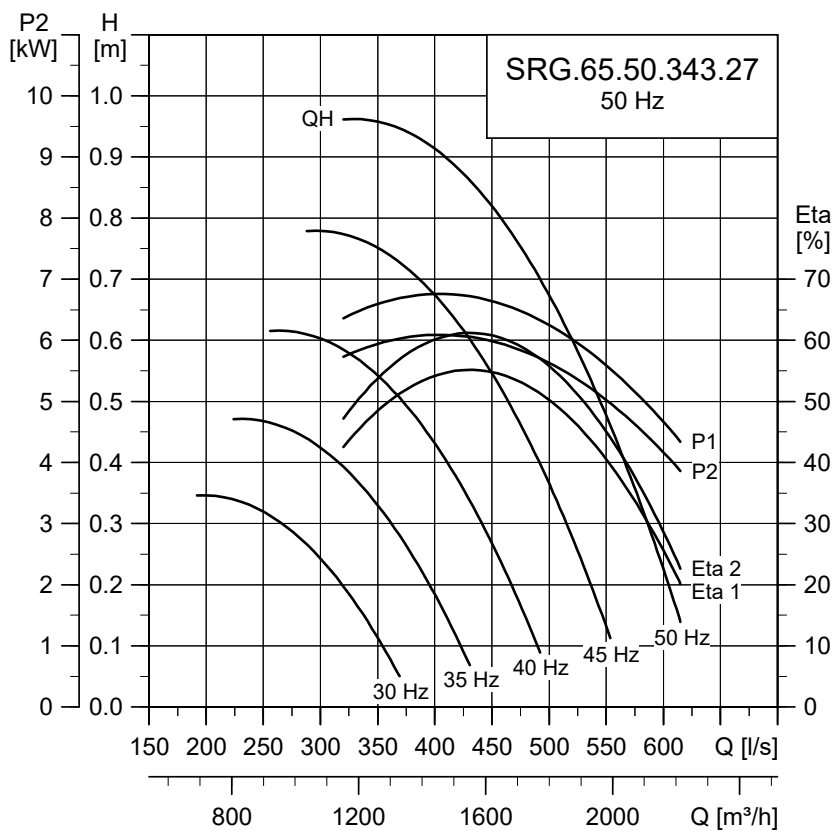


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>6)</sup> [kg]	
							Standard	Screened
1119	855	996	824	230	25	10	240	243

6) Including the cable.

#### 9.14.3 Performance curves



TM062609

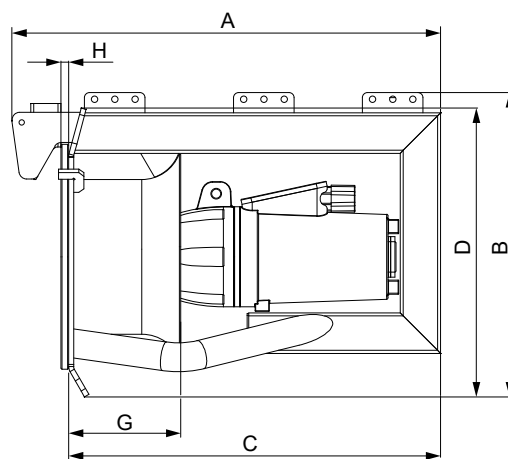


### 9.15 SRG.80.50.378.27.5.1B

#### 9.15.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	8.0 kW
$I_N$	19.5 A
$I_{start}$	165 A
Cos $\phi$ 1/1 load	0.68
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	378 min <sup>-1</sup>
Blade angle	27 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G2.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.15.2 Dimensions and weights

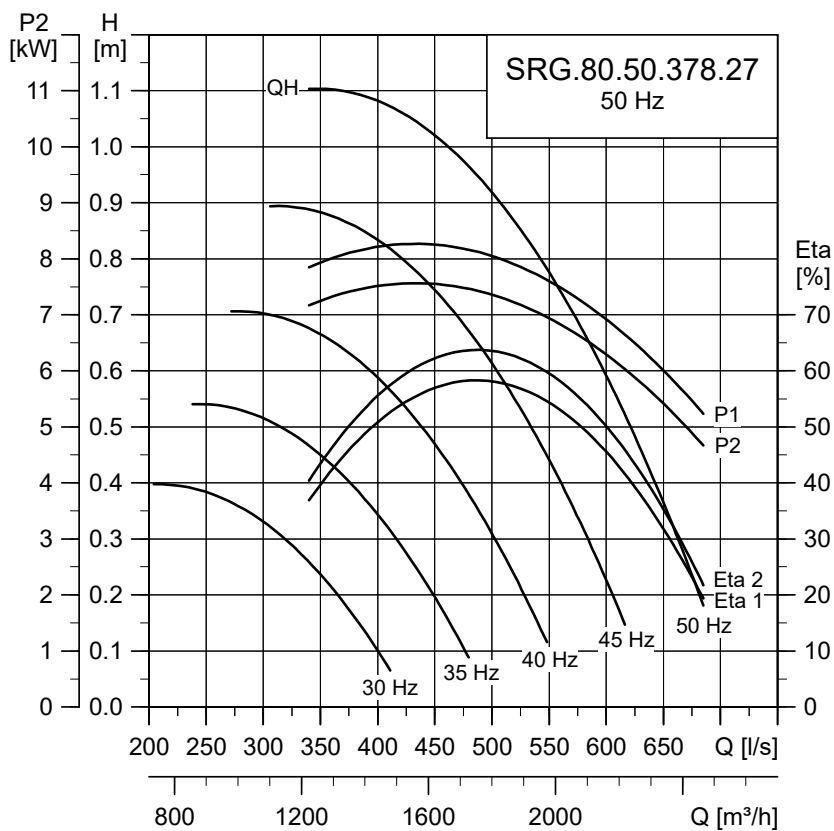


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>7)</sup> [kg]	
							Standard	Screened
1119	855	996	824	230	25	10	256	259

7) Including the cable.

#### 9.15.3 Performance curves



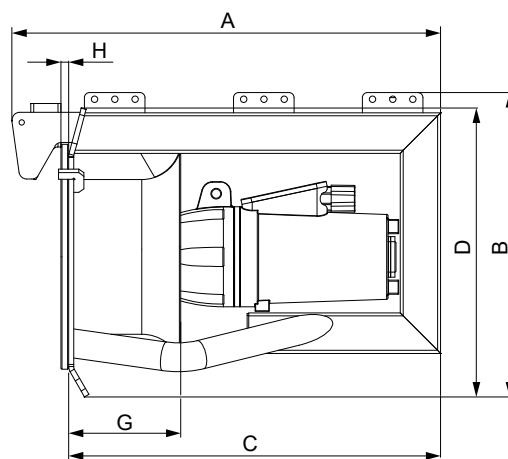
TM062610

### 9.16 SRG.100.50.412.27.5.1B

#### 9.16.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	10.0 kW
$I_N$	22.0 A
$I_{start}$	165 A
Cos $\phi$ 1/1 load	0.75
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	412 min <sup>-1</sup>
Blade angle	27 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G2.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.16.2 Dimensions and weights

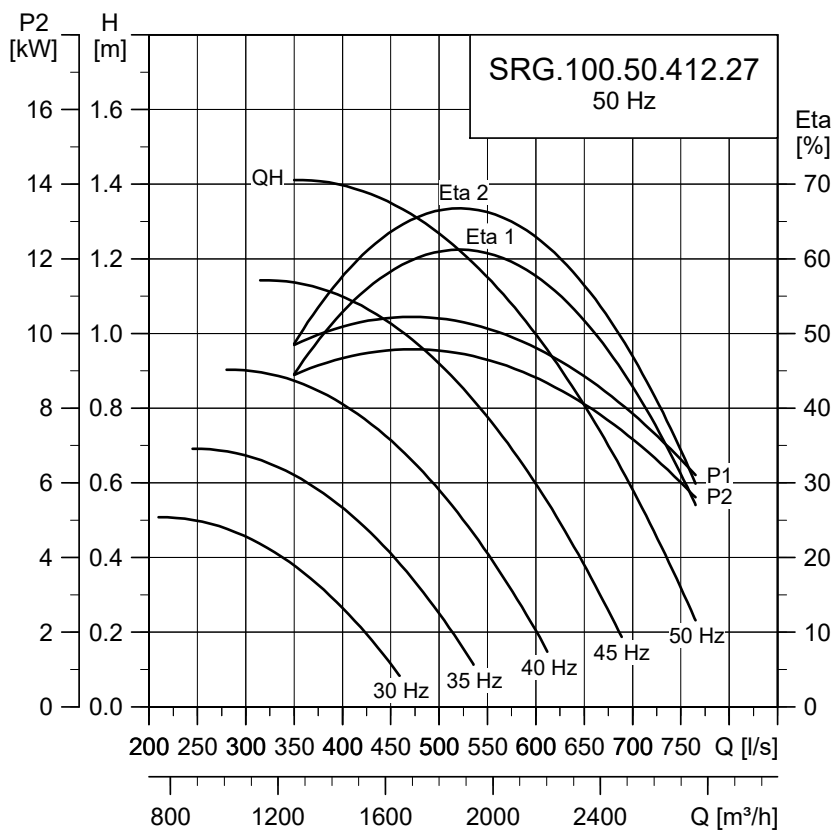


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>7)</sup> [kg]	
							Standard	Screened
1119	855	996	824	230	25	10	256	259

7) Including the cable.

#### 9.16.3 Performance curves



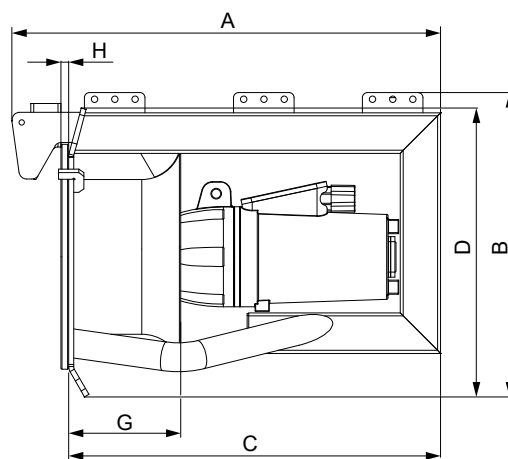
TM062611

### 9.17 SRG.70.80.263.11.5.1B

#### 9.17.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	7.0 kW
$I_N$	14.5 A
$I_{start}$	109 A
Cos $\phi$ 1/1 load	0.78
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	263 min <sup>-1</sup>
Blade angle	11 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G2.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.17.2 Dimensions and weights

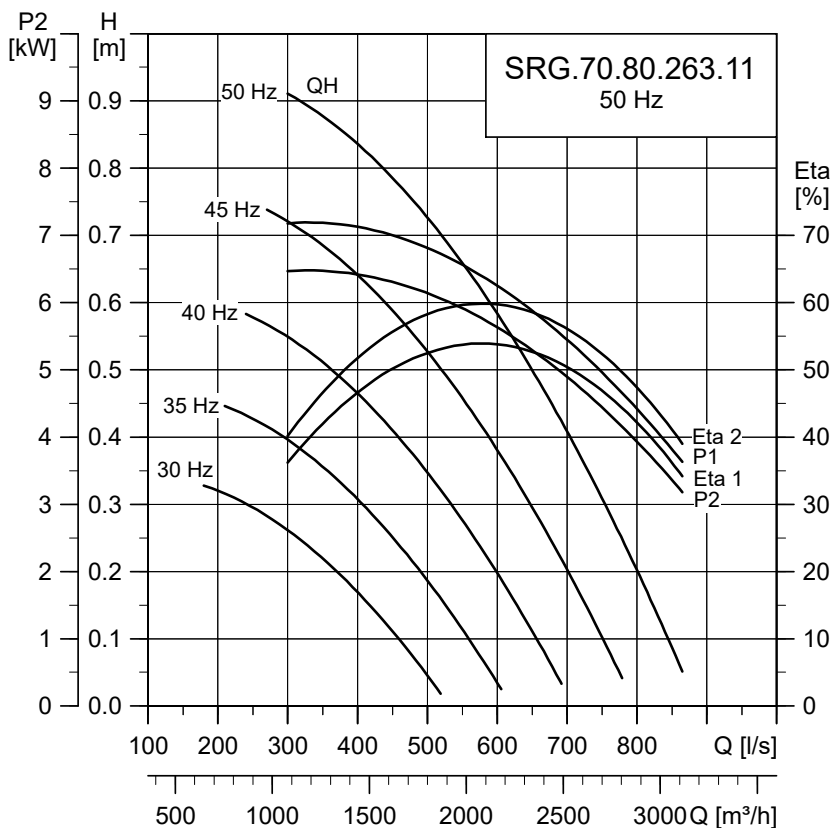


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>8)</sup> [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	10	334	337

8) Including the cable.

#### 9.17.3 Performance curves



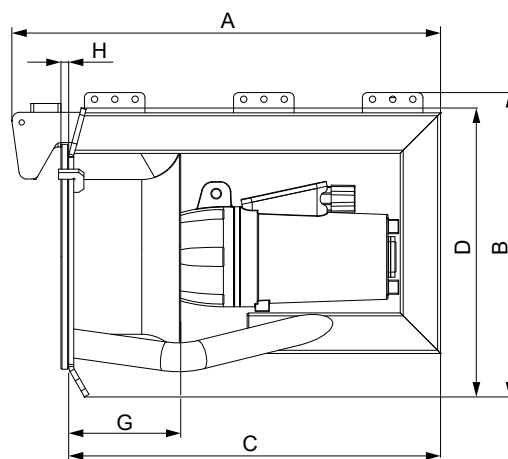
TM062612

### 9.18 SRG.100.80.303.11.5.1B

#### 9.18.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	10.0 kW
$I_N$	22.0 A
$I_{start}$	165 A
Cos $\phi$ 1/1 load	0.75
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	303 min <sup>-1</sup>
Blade angle	11 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G2.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.18.2 Dimensions and weights

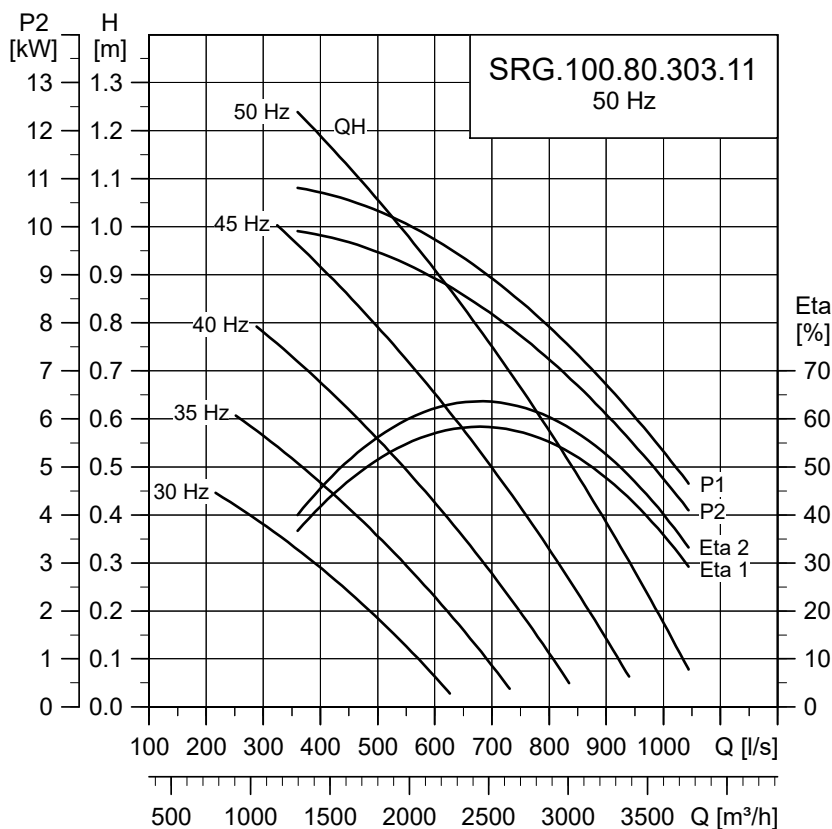


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>9)</sup> [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	10	350	353

9) Including the cable.

#### 9.18.3 Performance curves



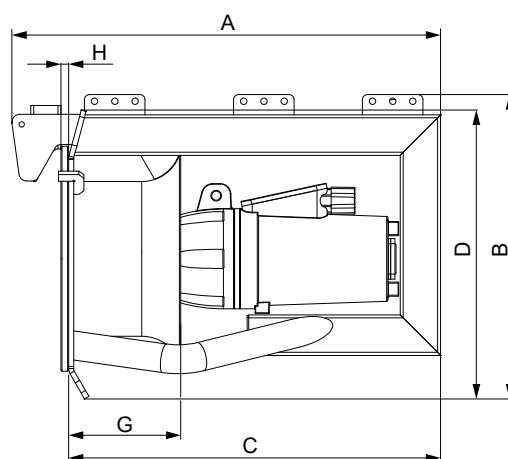
TM062613

### 9.19 SRG.120.80.323.11.5.1B

#### 9.19.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	12.0 kW
$I_N$	28.0 A
$I_{start}$	220 A
Cos $\phi$ 1/1 load	0.70
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	323 min <sup>-1</sup>
Blade angle	11 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	H07RN-F 7G4 + 4 x 1
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.19.2 Dimensions and weights

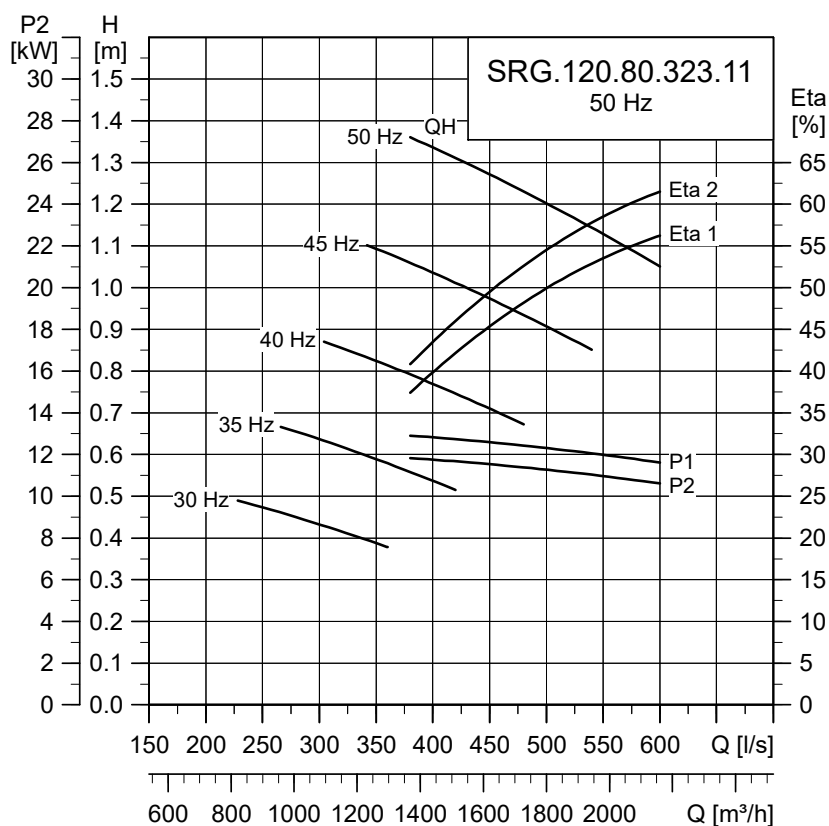


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>10)</sup> [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	430	433

<sup>10)</sup> Including the cable.

#### 9.19.3 Performance curves



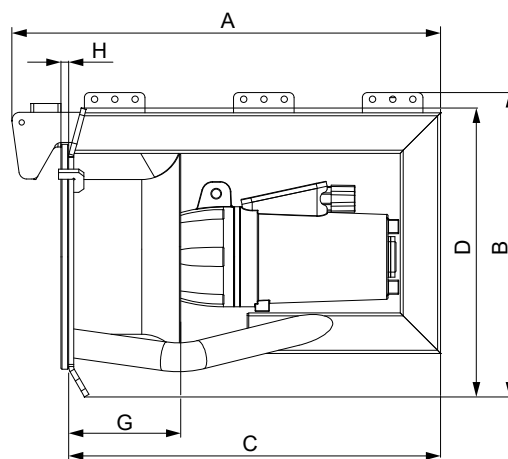
TM062614

### 9.20 SRG.130.80.340.11.5.1B

#### 9.20.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	13.0 kW
$I_N$	26.0 A
$I_{start}$	165 A
Cos $\phi$ 1/1 load	0.80
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	340 min <sup>-1</sup>
Blade angle	11 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G2.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.20.2 Dimensions and weights

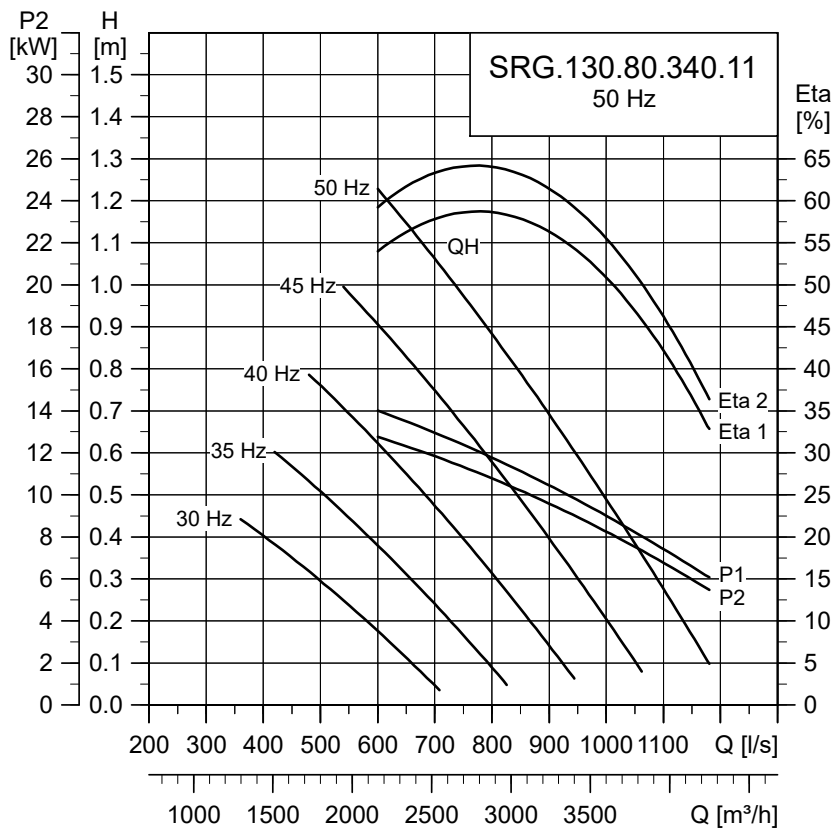


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>9)</sup> [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	10	350	353

9) Including the cable.

#### 9.20.3 Performance curves



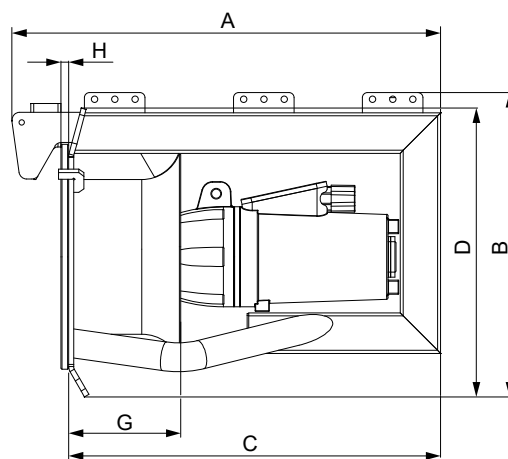
TM062615

### 9.21 SRG.130.80.375.11.5.1B

#### 9.21.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	13.0 kW
$I_N$	26.0 A
$I_{start}$	165 A
Cos $\phi$ 1/1 load	0.78
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	375 min <sup>-1</sup>
Blade angle	11 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	S1BN8-F 11G2.5
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.21.2 Dimensions and weights

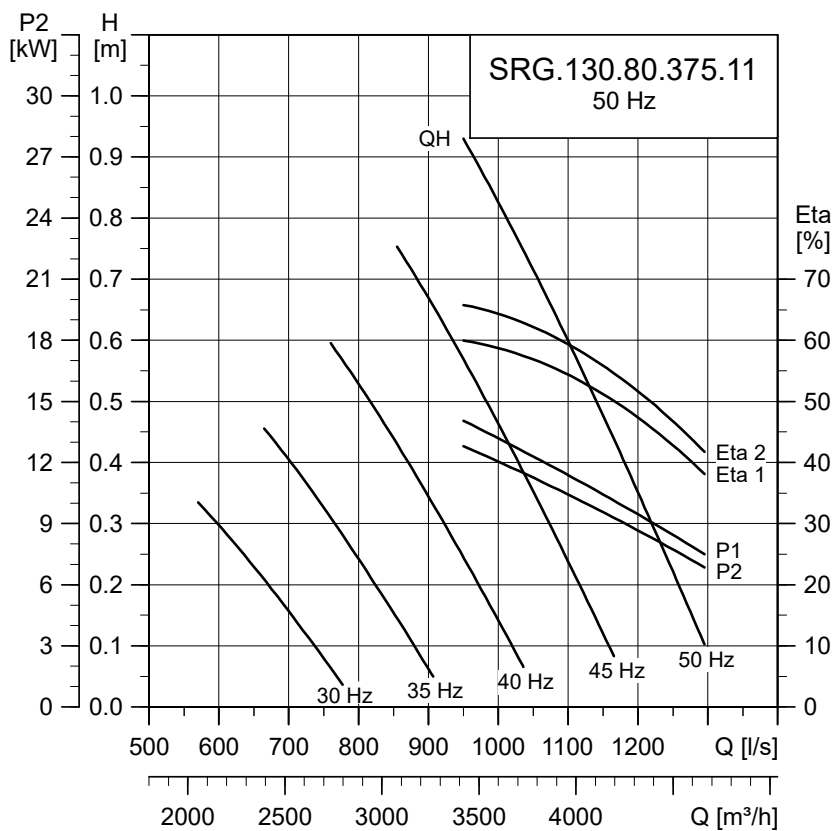


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A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>9)</sup> [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	10	350	353

9) Including the cable.

#### 9.21.3 Performance curves



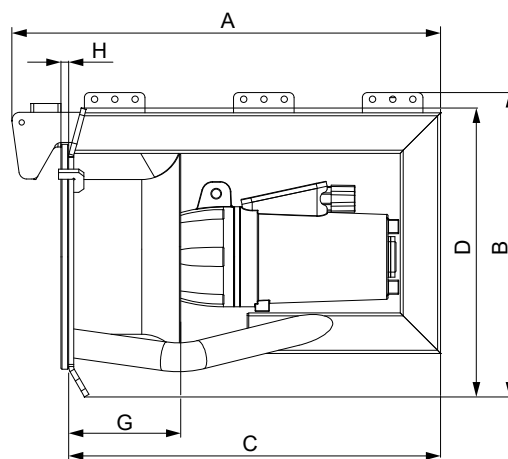
TM062617

## 9.22 SRG.160.80.355.11.5.1B

### 9.22.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	16.0 kW
$I_N$	33.0 A
$I_{start}$	220 A
Cos $\phi$ 1/1 load	0.78
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	355 min <sup>-1</sup>
Blade angle	11 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	H07RN-F 7G4 + 4 x 1
Screened cable	S1BC4N8-F 7G4 + 4 x 1

### 9.22.2 Dimensions and weights

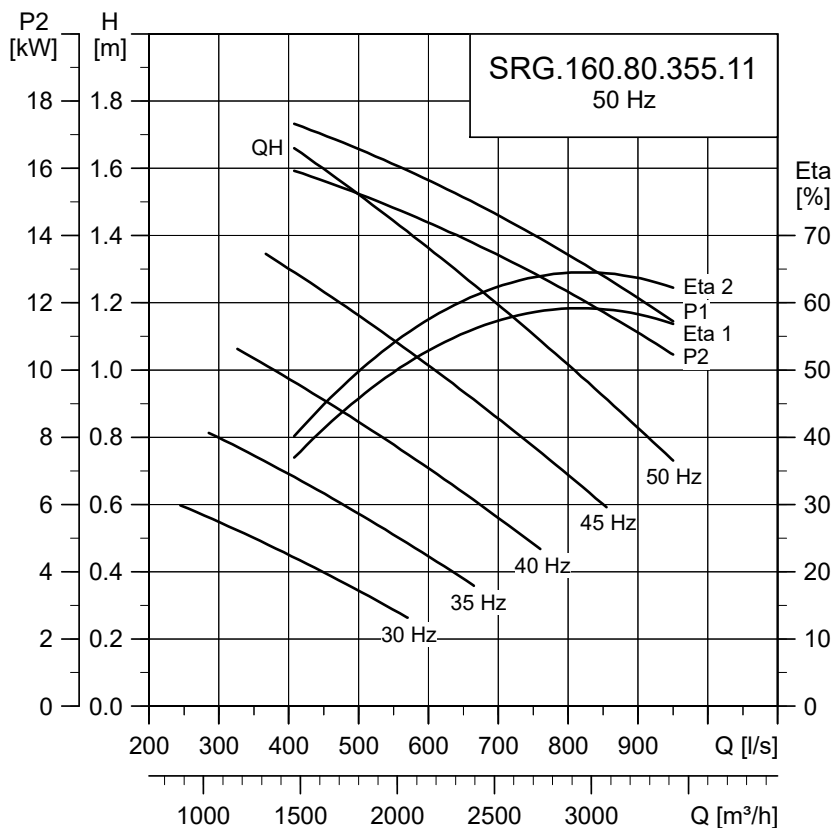


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>10)</sup> [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	430	433

<sup>10)</sup> Including the cable.

### 9.22.3 Performance curves



TM062616

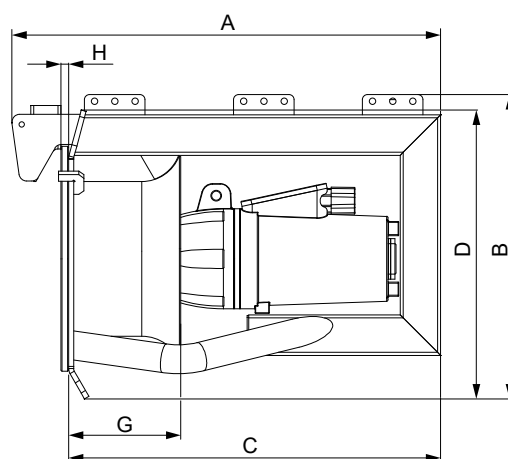


### 9.23 SRG.200.80.388.11.5.1B

#### 9.23.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	20.0 kW
$I_N$	40.0 A
$I_{start}$	220 A
Cos $\phi$ 1/1 load	0.81
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	388 min <sup>-1</sup>
Blade angle	11 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	H07RN-F 7G4 + 4 x 1
Screened cable	S1BC4N8-F 7G4 + 4 x 1

#### 9.23.2 Dimensions and weights

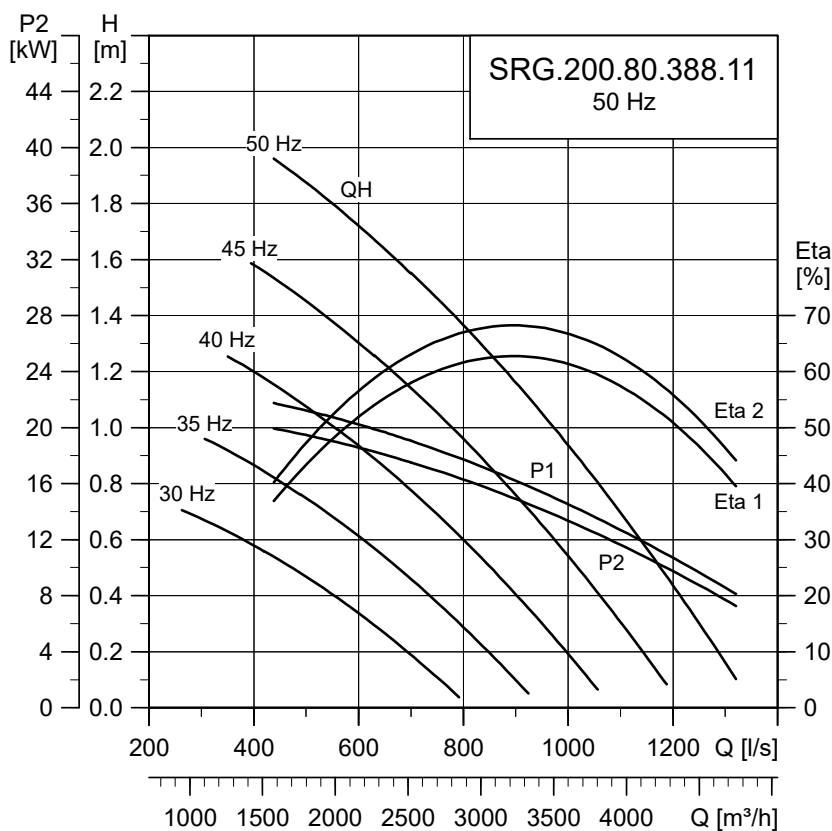


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>10)</sup> [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	430	433

<sup>10)</sup> Including the cable.

#### 9.23.3 Performance curves



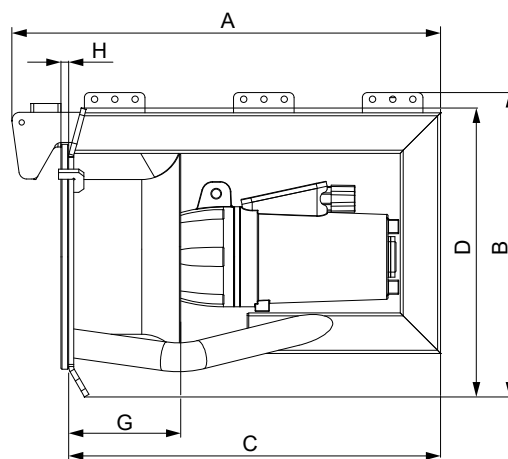
TM062618

## 9.24 SRG.240.80.417.11.5.1B

### 9.24.1 Product data

Continuous frequency converter operation	30-50 Hz
Voltage	3 x 400-415 V
Voltage tolerance	- 10/+ 6 %
Number of poles	4
Power output P2	24.0 kW
$I_N$	47.0 A
$I_{start}$	220 A
Cos $\phi$ 1/1 load	0.82
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	417 min <sup>-1</sup>
Blade angle	11 °
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable length	10 m
Standard cable	H07RN-F 7G4 + 4 x 1
Screened cable	S1BC4N8-F 7G4 + 4 x 1

### 9.24.2 Dimensions and weights

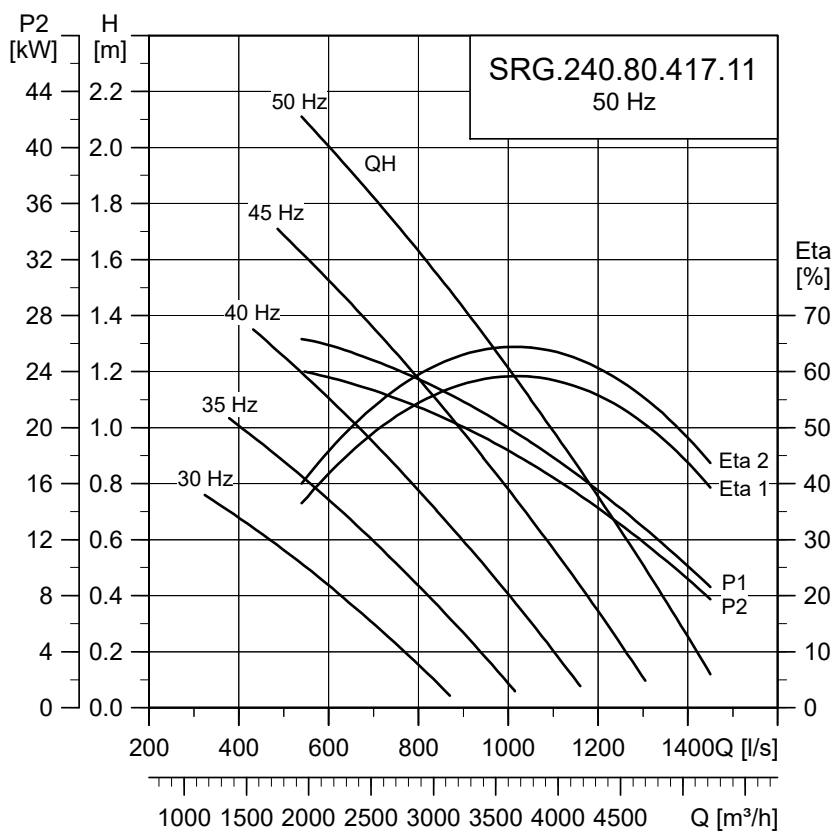


TM030547

A [mm]	B [mm]	C [mm]	D [mm]	G [mm]	H [mm]	Cable length [m]	Weight <sup>10)</sup> [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	430	433

<sup>10)</sup> Including the cable.

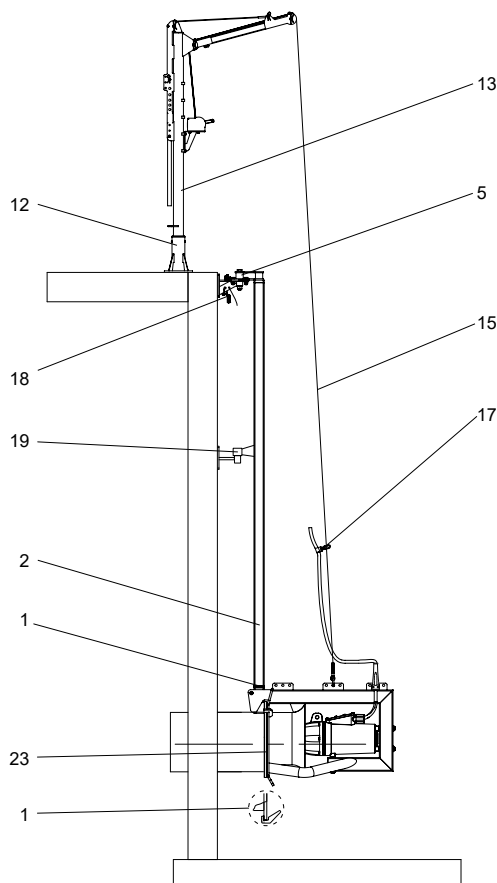
### 9.24.3 Performance curves



TM062620

## 10. Accessories

Grundfos offers the following equipment for installation, inspection and service of submersible recirculation pumps. The position numbers in fig. *SRG installation drawing* refer to section List of accessories.



TM043962

*SRG installation drawing*

### 10.1 Selection guide for accessories

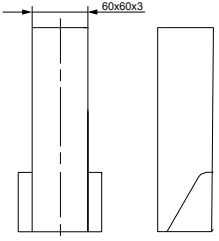
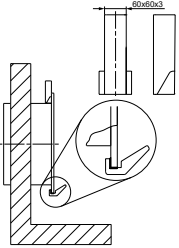
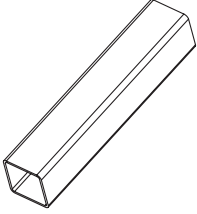
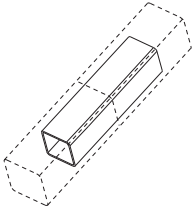
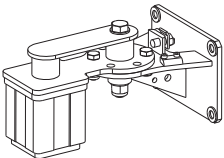
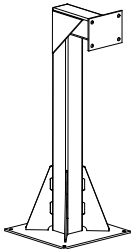
Type designation	Column profile <sup>11)</sup>	Crane type	Wire size	Cable clamp <sup>12)</sup>
SRG.xx.30	60 x 60 x 3	M (250 kg)	∅6	∅17
SRG.35.50	60 x 60 x 3	M (250 kg)	∅6	∅17
SRG.50.50 - SRG.100.50	60 x 60 x 3	L (500 kg)	∅7	∅20
SRG.xx.80	60 x 60 x 3	L (500 kg)	∅7	∅20

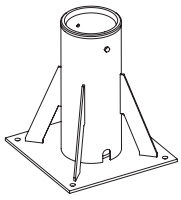
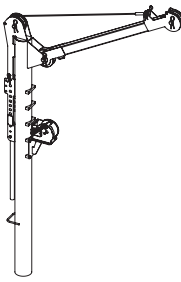
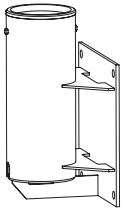
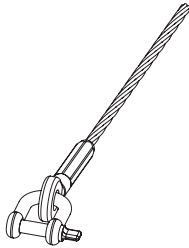

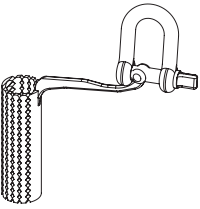
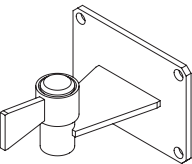
<sup>11)</sup> If the installation height exceeds 6 m, use an intermediate fixation bracket. If this is not possible, please contact Grundfos.

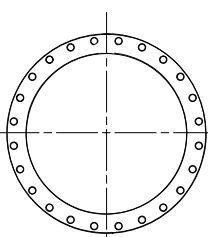

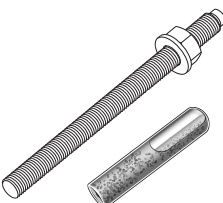
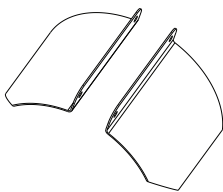
<sup>12)</sup> For all pump with screened cable, use cable clamp type ∅20.

## 10.2 List of accessories

The position numbers refer to fig. *SRG installation drawing*.

Drawing	Pos.	Item	Dimensions and product range	Material DIN W.-Nr./AISI	Product number
	1	Bottom fixation	SRG.xx.30-50	1.4301/304 1.4404/316 L	96564825 95037581
	1	Bottom fixation	SRG.xx.80.xxx	1.4301/304 1.4404/316 L	96585482 95037600
	2	Column profile	60 x 60 x 3 mm 6 m	1.4301/304 1.4404/316 L	99381044 99381045
	2	Connection piece for column Required for column profile longer than 6 m.	60 x 60 x 3 mm 0.20 m	1.4301/304 1.4404/316 L	95037960 9503796
	5	Top fixation bracket complete including safety wire	60 x 60 mm column profile	1.4301/304 1.4404/316 L	95037090 95037091
		Support for top fixation		1.4301/304 1.4404/316 L	95037404 95039149

Drawing	Pos. Item	Dimensions and product range	Material DIN W.-Nr./AISI	Product number
	12 Crane foot TM044000	250 and 500 kg cranes	1.4301/304	95036908
			1.4404/316 L	95037685
			Galvanised steel	95036894
	13 Crane with winch TM043999	M 250 kg  L 500 kg	1.4301/304	95036900
			1.4404/316 L	95037670
			Galvanised steel	95036874
			1.4301/304	95036950
			1.4404/316 L	95037700
	14 Crane foot for vertical installation TM044001	250 and 500 kg cranes	1.4301/304	95036980
			1.4404/316 L	95037710
			Galvanised steel	95037000
	15 TM044002	Lifting wire, Ø6, 10 m, easy mounting, including Ø8 shackle and wire clamp Lifting wire, Ø6, 15 m, easy mounting, including Ø8 shackle and wire clamp Lifting wire, Ø7, 10 m, easy mounting, including Ø10 shackle and wire clamp Lifting wire, Ø7, 15 m, easy mounting, including Ø10 shackle and wire clamp	1.4404/316 L	95037144
			1.4404/316 L	95037145
			1.4404/316 L	95037146
			1.4404/316 L	95037147
	17 Cable clamp TM044003	Ø17  Ø20	1.4404/316 L	96494352
			1.4404/316 L	96494354
	18 Cable sock, including shackle, Ø10 TM043998		Synthetic material, 1.4404/316 L	95037141
	19 Intermediate fixation bracket complete TM044004	All profile sizes longer than 6 m	1.4301/304	95037148
			1.4404/316 L	95037149

Drawing	Pos. Item	Dimensions and product range	Material DIN W.-Nr./AISI	Product number
 <p>TM043997</p>	23 Connection flange	DN 300	1.4301/304	96564826
			1.4404/316 L	95011105
		DN 500	1.4301/304	96564827
			1.4404/316 L	95011106
		DN 800	1.4301/304	96564828
			1.4404/316 L	95011107
 <p>TM070971</p>	ALR-20/A-Ex relay for leak sensor, 230 V			99794613
 <p>TM065361</p>	Anchor bolt: 1 x anchor 1 x nut 1 x washer 1 x spring washer 1 x glue cartridge	M12 x 160	1.4404/316 L	95036113
	Anchor bolt: 1 x anchor 1 x nut 1 x washer 1 x spring washer 1 x glue cartridge	M16 x 190	1.4404/316 L	95037179
 <p>TM067913</p>	Vortex shield	SRG.xx.30.	1.4301/304	96564832
			1.4404/316 L	95037601
		SRG.xx.50.	1.4301/304	96564833
			1.4404/316 L	95037602
SRG.xx.80.	1.4301/304	96564834		
	1.4404/316 L	95037603		

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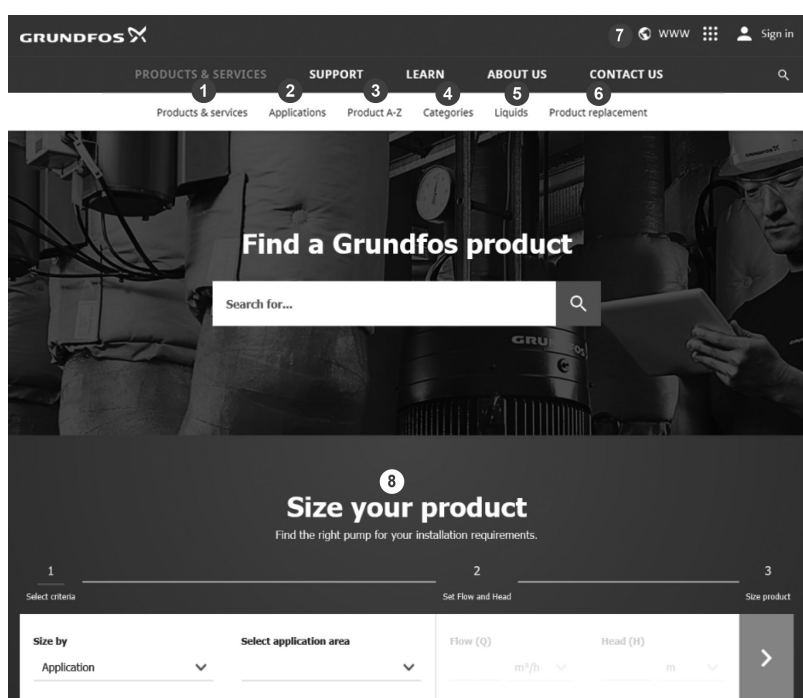
International view: <https://product-selection.grundfos.com>

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