

Submersible recirculation pumps

SRP, 50 Hz



Contents

Introduction

General description	3
Applications	3
Constructional features	3
Operating mode	3

Identification

Type key	4
Nameplate	5

Product description

Features	6
Wiring diagrams	7
Water-in-oil sensor	8
Pumped liquids	9
Sound pressure	9
Motor range	10
Explosion-proof variants	10

Selection of product

Ordering a recirculation pump	11
Selecting an SRP pump	11
Selection curve charts, 50 Hz	15

Product range

Standard versions, 400 V 50 Hz	20
Standard versions, 415 V 50 Hz	20
Explosion-proof versions, 400 V 50 Hz	21

Variants

Variants	22
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Construction

Pump	23
Installation drawing	23
Material specification	24
Sectional drawings	25
Dimensions, accessories	31

Positioning

General description	33
---------------------	----

Technical data, 400 V, 50 Hz

SRP.08.30.526.08(.Ex)	34
SRP.10.30.606.08(.Ex)	35
SRP.13.30.678.08(.Ex)	36
SRP.16.30.745.08(.Ex)	37
SRP.18.30.806.08(.Ex)	38
SRP.30.30.517.25(.Ex)	39
SRP.40.30.593.25	40
SRP.50.30.684.25	41
SRP.60.30.752.25(.Ex)	42

SRP.70.30.814.25(.Ex)	43
SRP.35.50.257.27(.Ex)	44
SRP.50.50.291.27(.Ex)	45
SRP.65.50.343.27(.Ex)	46
SRP.80.50.378.27(.Ex)	47
SRP.100.50.412.27	48
SRP.70.80.263.11(.Ex)	49
SRP.100.80.303.11	50
SRP.120.80.323.11(.Ex)	51
SRP.130.80.340.11(.Ex)	52
SRP.160.80.355.11(.Ex)	53
SRP.130.80.375.11(.Ex)	54
SRP.200.80.388.11(.Ex)	55
SRP.180.80.387.11(.Ex)	56
SRP.240.80.417.11	57
SRP.180.80.417.11(.Ex)	58

Technical data, 415 V, 50 Hz

SRP.08.30.526.08	59
SRP.10.30.606.08	60
SRP.13.30.678.08	61
SRP.16.30.745.08	62
SRP.18.30.517.25	63
SRP.30.30.517.25	64
SRP.40.30.593.25	65
SRP.50.30.684.25	66
SRP.60.30.752.25	67
SRP.70.30.814.25	68
SRP.35.50.257.27	69
SRP.50.50.291.27	70
SRP.65.50.343.27	71
SRP.80.50.378.27	72
SRP.100.50.412.27	73
SRP.70.80.263.11	74
SRP.100.80.303.11	75
SRP.120.80.323.11	76
SRP.130.80.340.11	77
SRP.160.80.355.11	78
SRP.130.80.375.11	79
SRP.200.80.388.11	80
SRP.180.80.387.11	81
SRP.240.80.417.11	82
SRP.180.80.417.11	83

Accessories

Selection guide for accessories	85
List of accessories	85

Further product documentation

WebCAPS	89
WinCAPS	90

General description

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



Gr8422

Fig. 1 SRP

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.

Applications

Grundfos SRP 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.

Constructional features

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

Operating mode

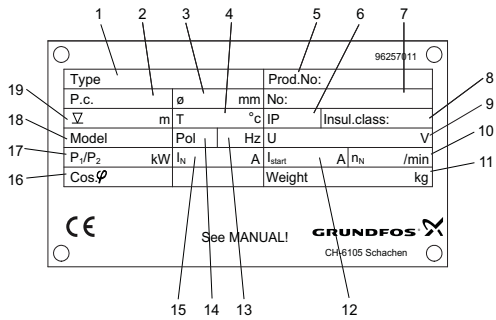
- Continuous operation when fully submerged
- intermittent operation with max. 20 starts per hour.

Type key

Code	Example	SRP	70	30.	814.	25.	Ex	5.	1A.	A
	Type range Submersible recirculation pump									
	Motor output power, P₂ Code from type designation/10 [kW]									
70	7.0 kW									
	Impeller diameter 30 cm									
30	30 cm									
	Impeller speed 814									
814	814									
	Blade pitch 25 degrees									
25	25 degrees									
	Explosion protection Non-explosion-proof									
[]	Non-explosion-proof									
Ex	Explosion-proof									
	Frequency 50 Hz									
5	50 Hz									
	60 Hz									
6	60 Hz									
	Supply voltage and starting method 400 V, DOL									
0A	400 V, DOL									
	400 V, Y/D									
1A	400 V, Y/D									
	400-415 V, DOL									
0B	400-415 V, DOL									
	400-415 V, Y/D									
1B	400-415 V, Y/D									
	415 V, DOL									
0V	415 V, DOL									
	415 V, Y/D									
1V	415 V, Y/D									
	Special, DOL									
0Z	Special, DOL									
	Special, Y/D									
1Z	Special, Y/D									
	Generation First generation									
[]	First generation									
A	Second generation									
B	Third generation									

Nameplate

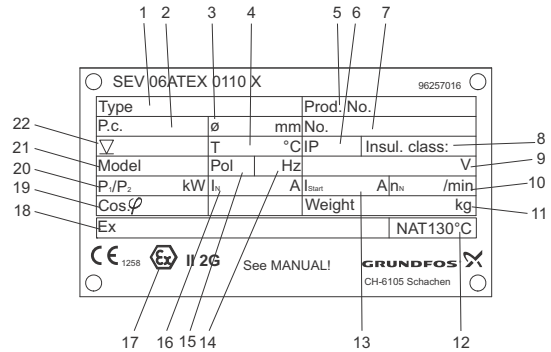
The nameplate is fitted to the motor housing. The details supplied on the nameplate are required for ordering spare parts.



TM03 0315 3310

Fig. 2 Nameplate, standard version

For reference purposes, the additional nameplate supplied with the recirculation pump should be fixed in a visible position at the installation site.



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Fig. 3 Nameplate, explosion-proof version

Key to nameplate

Pos.	Description
1	Type designation
2	Production code
3	Impeller diameter
4	Liquid temperature range
5	Product number
6	Enclosure class according to IEC
7	Serial number
8	Insulation class
9	Rated voltage
10	Rated speed (impeller)
11	Weight
12	Starting current
13	Frequency
14	Number of poles
15	Rated current
16	Power factor
17	Motor power, P ₁ /P ₂
18	Model
19	Maximum installation depth

Key to nameplate

Pos.	Description
1	Type designation
2	Production code
3	Impeller diameter
4	Liquid temperature range
5	Product number
6	Enclosure class according to IEC
7	Serial number
8	Insulation class
9	Rated voltage
10	Rated speed (impeller)
11	Weight
12	Nominal response temperature (NRT)
13	Starting current
14	Frequency
15	Number of poles
16	Rated current
17	ATEX category
18	ATEX approval class
19	Power factor
20	Motor power, P ₁ /P ₂
21	Model
22	Maximum installation depth

Features

Motor

The motor is a 2- or 4-pole squirrel-cage induction motor. The stator is supported by two ball bearings.

The water-tight cable entry prevents moisture ingress down to a depth of 20 metres.

Starting method

Continuous operation: Star-delta starting, soft starter or frequency converter is recommended throughout the entire power range.

Intermittent operation: Star-delta starting, soft starter or frequency converter is mandatory throughout the entire power range.

Gearbox

The planetary gearbox is positioned between the motor and the impeller.

The gearbox is oil-filled, and the gear wheels are hardened to ensure long life. See the installation and operating instructions for information on oil type, oil quality and oil change intervals.

The gearbox/shaft seal housing has water-in-oil sensor and external relay which together can give an alarm or cut out the motor in case of water ingress.

Bearings

Motor: Single-row ball bearings.

Gear: Tapered roller bearings.

Shaft seal

To prevent ingress of the surrounding liquid, the recirculation pumps have shaft seal(s) and possibly seal rings fitted around the impeller shaft. In addition, the recirculation pumps also have a shaft seal or two seal rings between the shaft seal housing/gearbox and the motor.

Sealing against ingress of surrounding liquid	Sealing from gearbox towards motor
Two lip seals and a mechanical shaft seal made of tungsten carbide/tungsten carbide or SiC/SiC	Mechanical shaft seal made of carbon/alox

Shafts

Motor and gear shafts are made of stainless steel. See table below.

Shaft	DIN W.-Nr.	AISI
Motor	1.7147	5120
Gear	1.5713	

Impeller

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

Power cables

The specific cable can be found in the tables in *Technical data*, page 46.

Type		Outer diameter [mm]
Standard		
S1BN8-F 11G1.5	11 x 1.5 mm ²	D17
S1BN8-F 11G2.5	11 x 2.5 mm ²	D21
H07RN-F 7G4 + 4 x 1	7 x 4 mm ² + 4 x 1 mm ²	D21
Screened cable		
H07RC4N8-F 7G4 + 4 x 1	7 x 4 mm ² + 4 x 1 mm ²	D22.5

Cable entry

Elastomer, 70 shore hardness.

Sensors

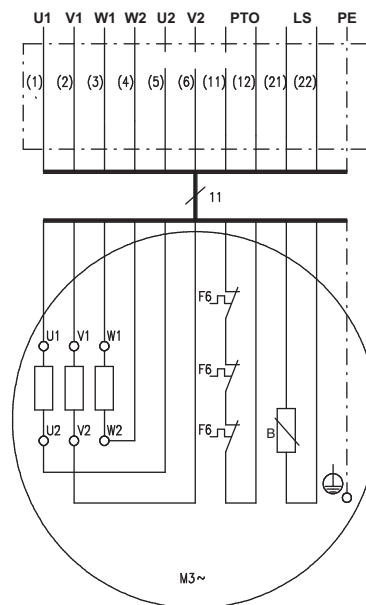
Standard pumps are wired with PTO.

Ex pumps are wired with PTC.

The gearbox is monitored for the ingress of water by a leak sensor incorporated as standard in the gearbox/ shaft seal housing. Via an external relay, the sensor triggers an alarm signal and/or disconnects the motor.

Wiring diagrams

Wiring diagram, three thermal switches (PTO)

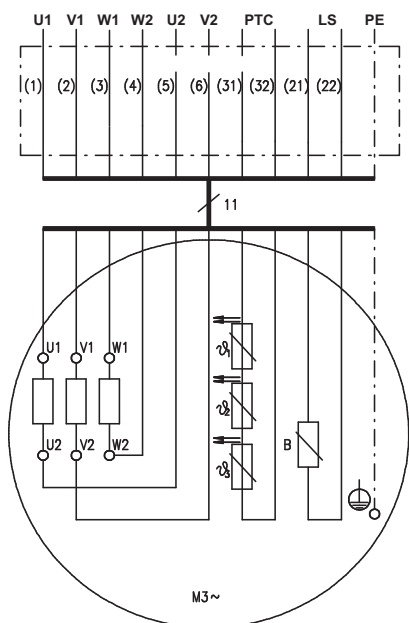


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Fig. 4 Wiring diagram, three thermal switches

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) (water-in-oil sensor)

Wiring diagram, three thermistors (PTC)



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Fig. 5 Wiring diagram, three thermistors

Terminals	Description
1, 2, 3, 4, 5, 6	Ends of the three stator windings (U1, U2, V1, V2, W1, W2)
31, 32	Thermistors (according to DIN 44 081) (J1, J2, J3)
21, 22	Leak sensor in gearbox (water-in-oil sensor)

Water-in-oil sensor

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

We recommend to connect the sensor to a relay. The relay used must be a Grundfos ALR-20/A-Ex type relay, supplied as an optional accessory. See *Accessories*, page 84.

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

ALR-20/A relay

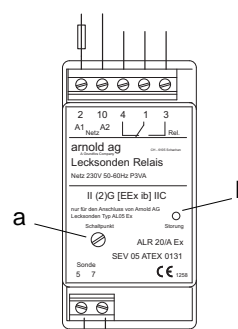


Fig. 6 ALR-20/A relay

Dimensional sketch, ALR-20/A relay

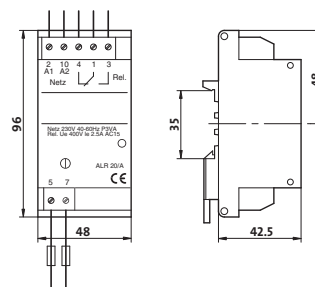


Fig. 7 Dimensions of ALR-20/A relay

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Settings

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

1. Turn the adjusting screw a until the indicator light b of the relay is on. See fig. 6.
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.

Main supply, terminals 2 and 10	
Rated operating voltage	: 230 V AC
Permissible voltage tolerance	: -15 % to +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.

Pumped liquids

pH value	: 4-10
Liquid temperature	: 5 to +40 °C
Maximum density	: 1060 kg/m ³
Maximum dynamic viscosity	: 500 mPas
Maximum sludge index	: 125 ml/g
Chloride content	: ≤ 200 mg/l (for stainless steel DIN W.-Nr. 1.4301)

Sound pressure

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

Motor range

50 Hz

Pump type	Shaft power [kW]	Number of poles
SRP.08.30.526.08.	0.8	2
SRP.10.30.606.08.	1.0	
SRP.13.30.678.08.	1.3	
SRP.16.30.745.08.	1.6	
SRP.18.30.806.08.	1.8	
SRP.30.30.517.25.	3.0	
SRP.40.30.593.25.	4.0	
SRP.50.30.684.25.	5.0	
SRP.60.30.752.25.	6.0	
SRP.70.30.814.25.	7.0	
SRP.35.50.257.27.	3.5	4
SRP.50.50.291.27.	5.0	
SRP.65.50.343.27.	6.5	
SRP.80.50.378.27.	8.0	
SRP.100.50.412.27.	10.0	
SRP.70.80.263.11.	7.0	
SRP.100.80.303.11.	10.0	
SRP.120.80.323.11.	12.0	
SRP.130.80.340.11.	13.0	
SRP.160.80.355.11.	16.0	
SRP.130.80.375.11.	13.0	4
SRP.200.80.388.11.	20.0	
SRP.180.80.387.11.	18.0	
SRP.240.80.417.11.	24.0	
SRP.180.80.417.11.	18.0	

Explosion-proof variants

Use explosion-proof pumps in potentially explosive environments. The explosion classification is II 2G Ex e ck ib IIC T3

In each individual case, the installation must be approved by the local authorities.

Ordering a recirculation pump

Few product numbers need to be selected to make the order complete:

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

Standard pump

See below example of what you get when you order a standard SRP pump:

SRP	Product number
SRP.30.30.517.25	96569932

- recirculation pump
- 10 m cable
- paint, graphic grey, NCS8005-r-80b 350 µm thickness
- three thermal switches (PTO), one in each motor winding
- or three thermal sensors (PTC), one in each motor winding for explosion-proof versions only
- one water-in-oil sensor incorporated in the gearbox.

Note: In WebCAPS you can find product specific data via the product number, e.g. 96569932.

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 Variants, page 22.

Accessories

For selection of the correct accessories, see Accessories, page 84.

Note: The accessories are not fitted from factory.

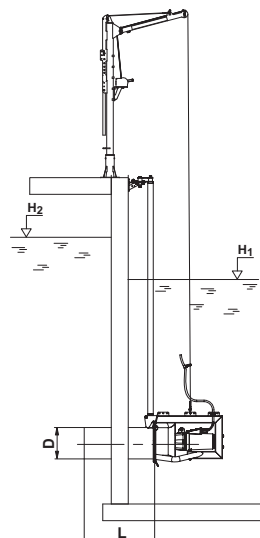
Controller

Control unit ALR-20/A Ex can be used in combination with SRP pumps.

Selecting an SRP pump

The selection guide is for guidance only. For detailed information, please contact Arnold AG - A Grundfos Company, Switzerland. The selection curve charts for the Grundfos SRP pumps shown later in this section are based on the following:

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



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Fig. 8 System layout

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

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 ²)
H	= Total pump head
H ₁	= Liquid level in tank 1
H ₂	= Liquid level in tank 2
H _f	= Head loss due to friction
H _{geo}	= Geodetic head
H _{system}	= Head loss in system
H _J	= Head loss in pipes
H _{Jn}	= Head loss in fittings and system
H _{valve}	= Head loss in valves (supplier data - typically 0.05 to 0.5 m)
Q	= Flow rate
V	= Flow velocity
ζ	= Loss coefficient $V = \frac{Q \text{ [m}^3\text{/sec]}}{A \text{ [m}^2\text{]}}$

Equations

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

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

Cross-sectional area of pipes

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

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
Galvanised steel	0.15	
Bituminised 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

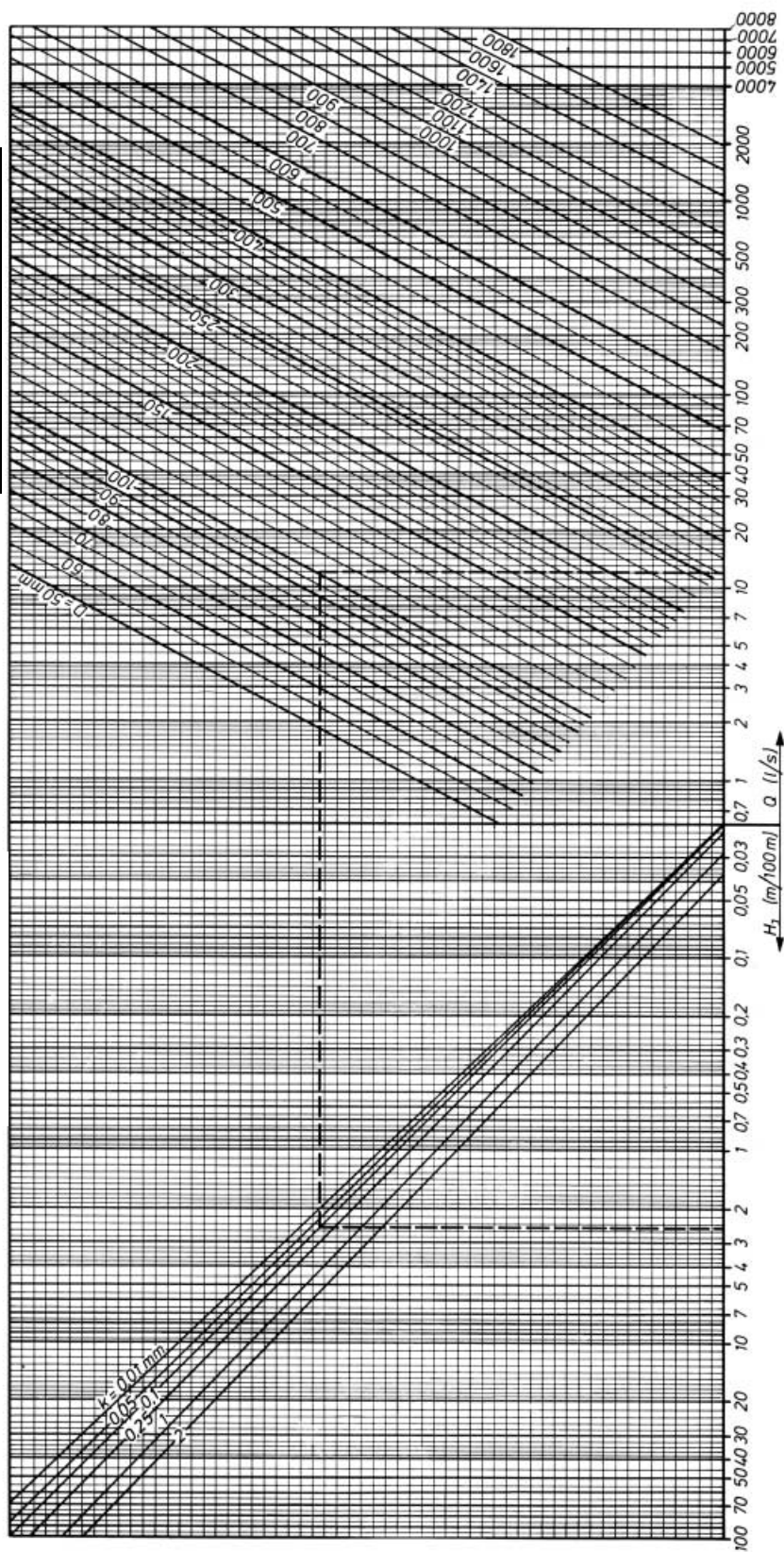
H_J = 2.5 m/100 m

Q = Flow [l/s]

D = Internal pipe diameter [mm]

k = Surface roughness [mm]

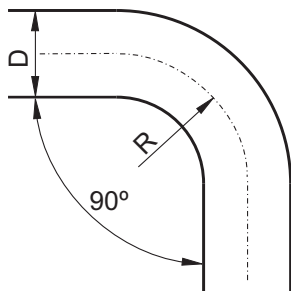
H_J = Pipe losses [m/100 m]



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Fig. 9 Pipe loss nomogram

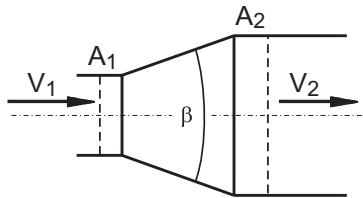
Head loss in fittings and systems



TM03 0837 0505

Fig. 10 Head loss in elbow

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

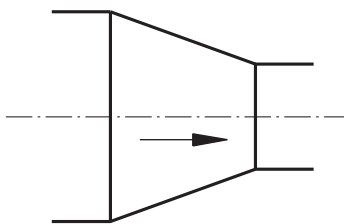


TM03 0838 0505

Fig. 11 Head loss in expansion

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

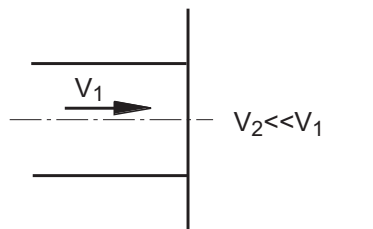
β°	5	10	15	20	30	40	45	50
k	0.13	0.17	0.26	0.41	0.71	0.90	0.93	1.05
β°	60	70	80	90	100	120	140	160
k	1.12	1.13	1.10	1.07	1.06	1.05	1.04	1.02



TM03 0839 0505

Fig. 12 Head loss in reduction

$$H_{Jn} \approx 0$$



TM03 0840 0505

Fig. 13 Head loss in outlet

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

Example

Calculation of H [m]

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

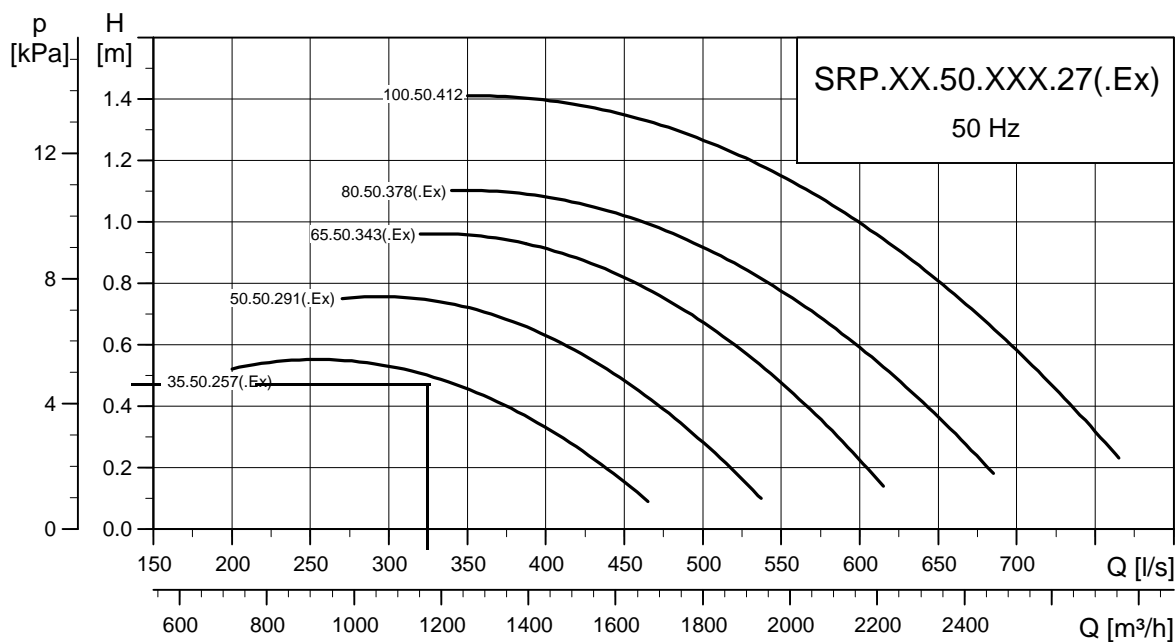
Result:

H _{system}	= 0 m + 0.14 m + 0 m = 0.14 m
H	= 0.35 m + 0.14 m = 0.49 m

$$Q = 325 \text{ l/sec}$$

$$H = 0.49 \text{ m}$$

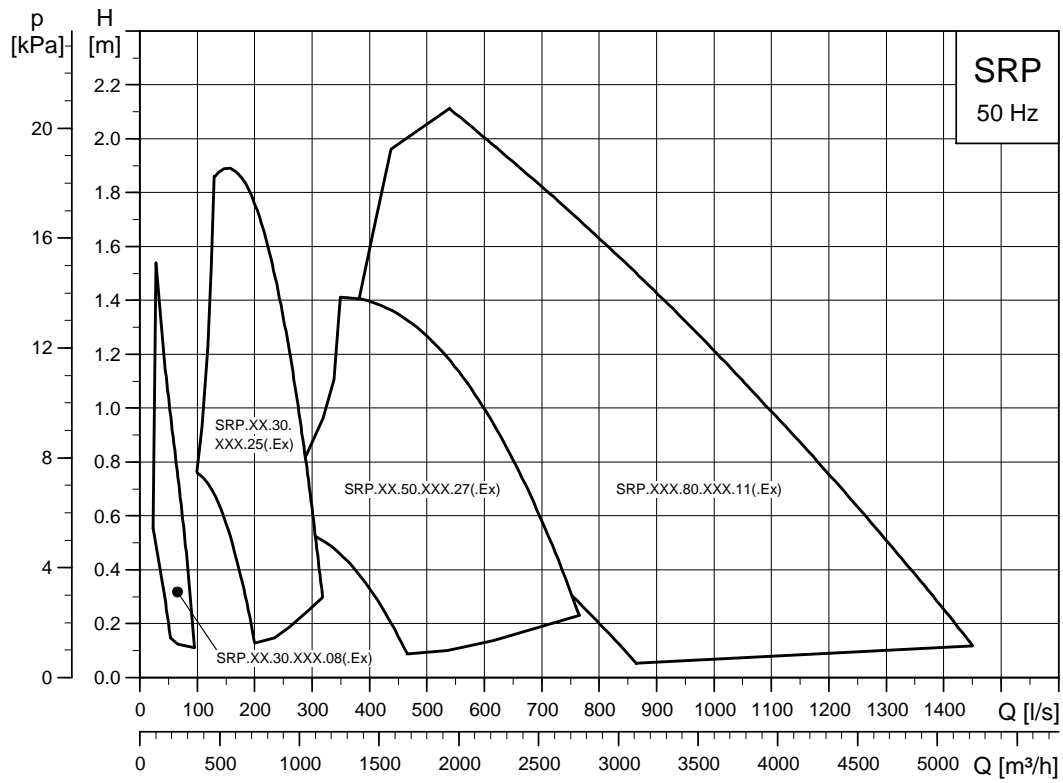
On the basis of the above calculation, we can now determine that SRP.35.50.257.27.(Ex).5.1A.A is suitable for the application.



TM03 0843 0505

Fig. 14 Selection curves for SRP.xx.50.xxx.27(Ex)

Selection curve charts, 50 Hz



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Fig. 15 Performance range, 50 Hz

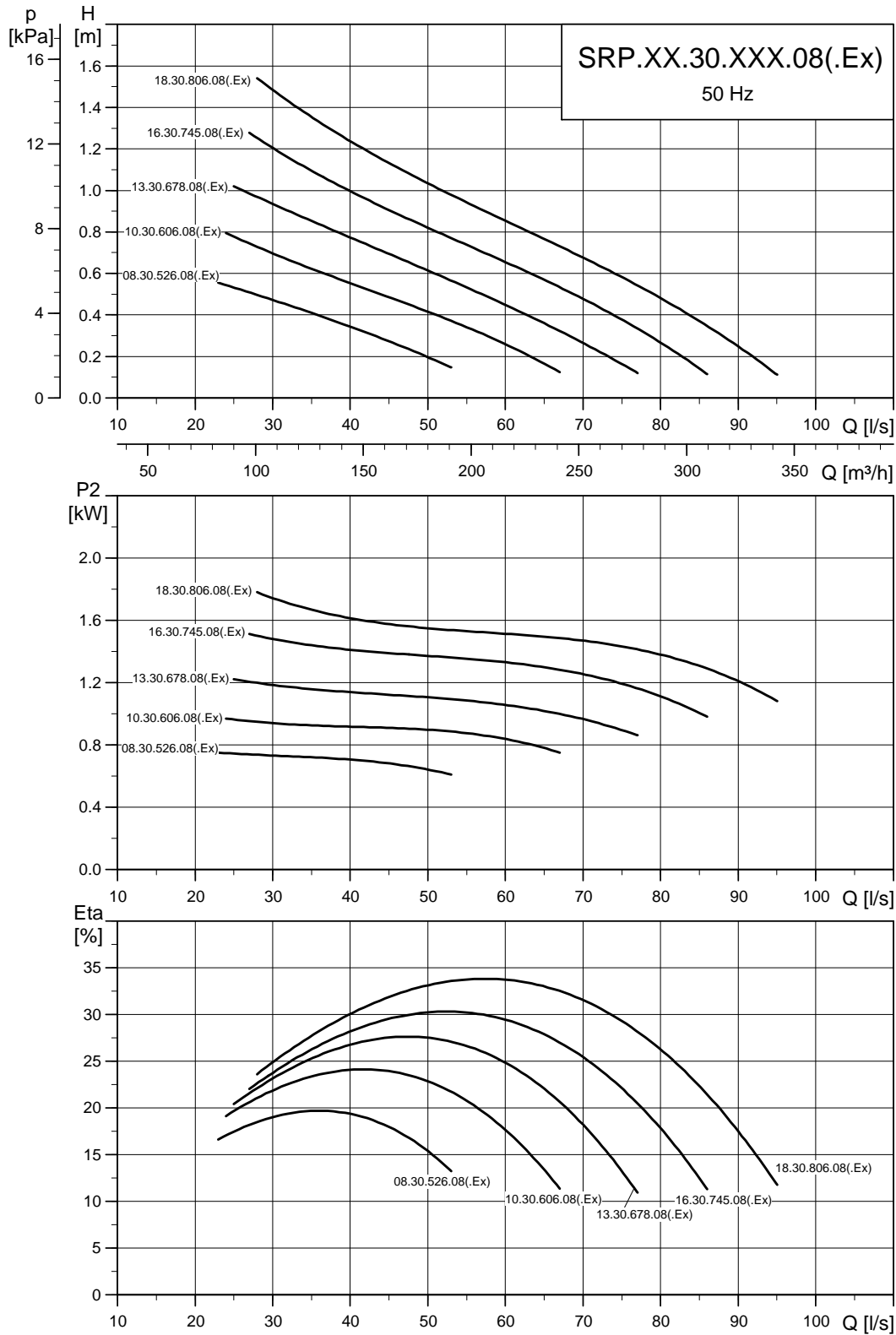


Fig. 16 Selection curve charts for SRP.xx.30.xxx.08, 50 Hz

TM04 3054 4210

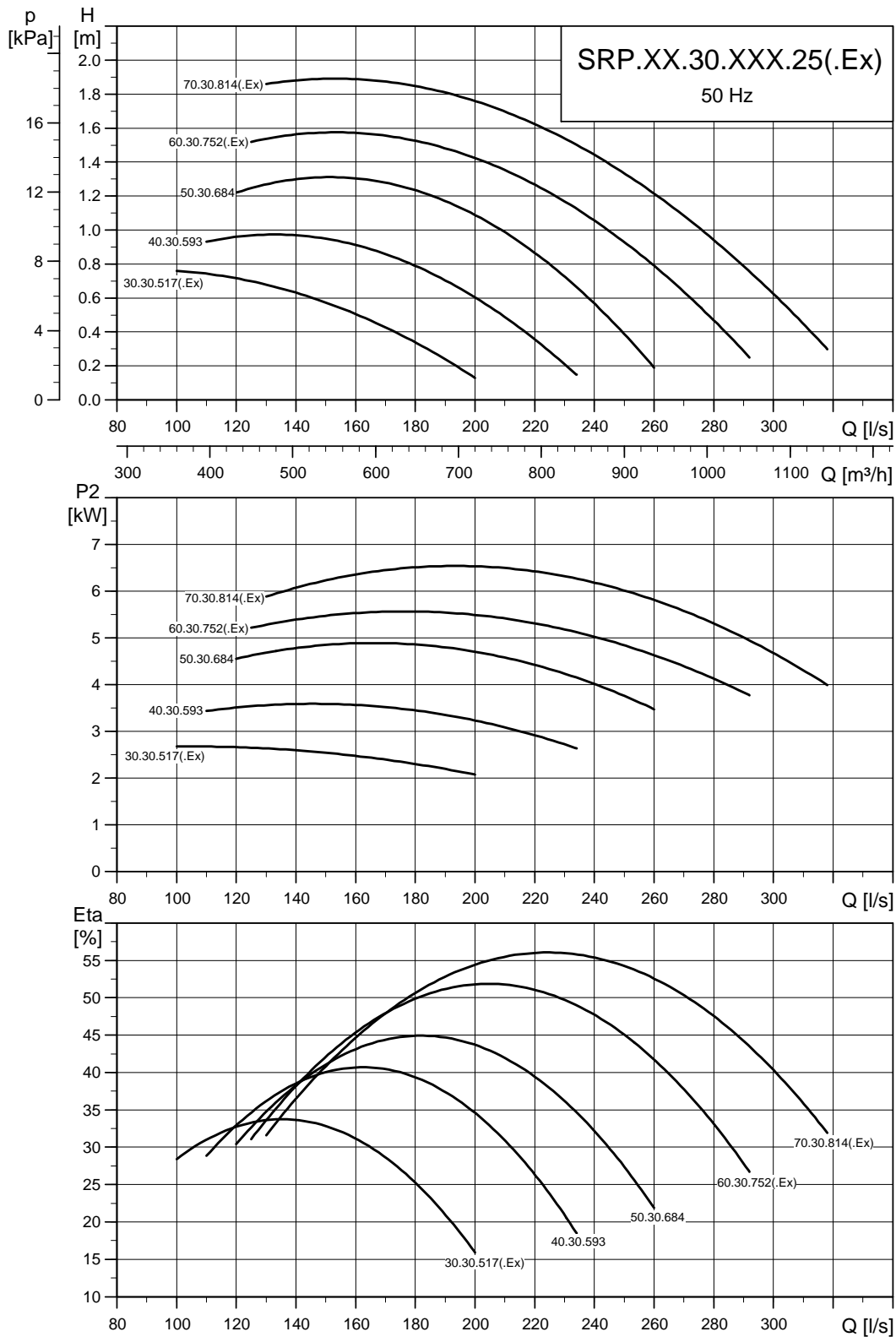


Fig. 17 Selection curve charts for SRP.xx.30.xxx.25, 50 Hz

TM02 9939 4210

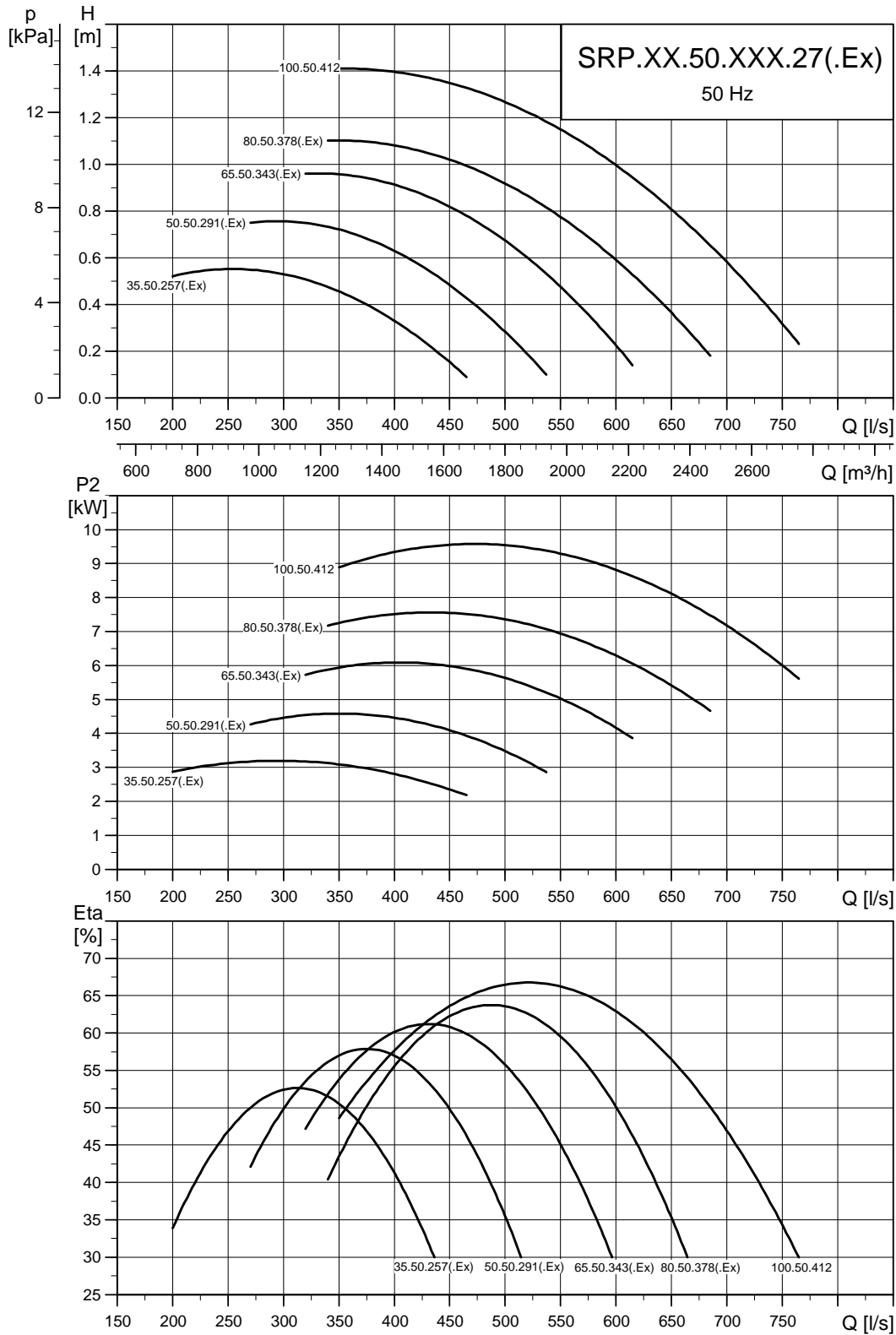


Fig. 18 Selection curve charts for SRP.xx.50.xxx.27, 50 Hz

TM02 9940 4210

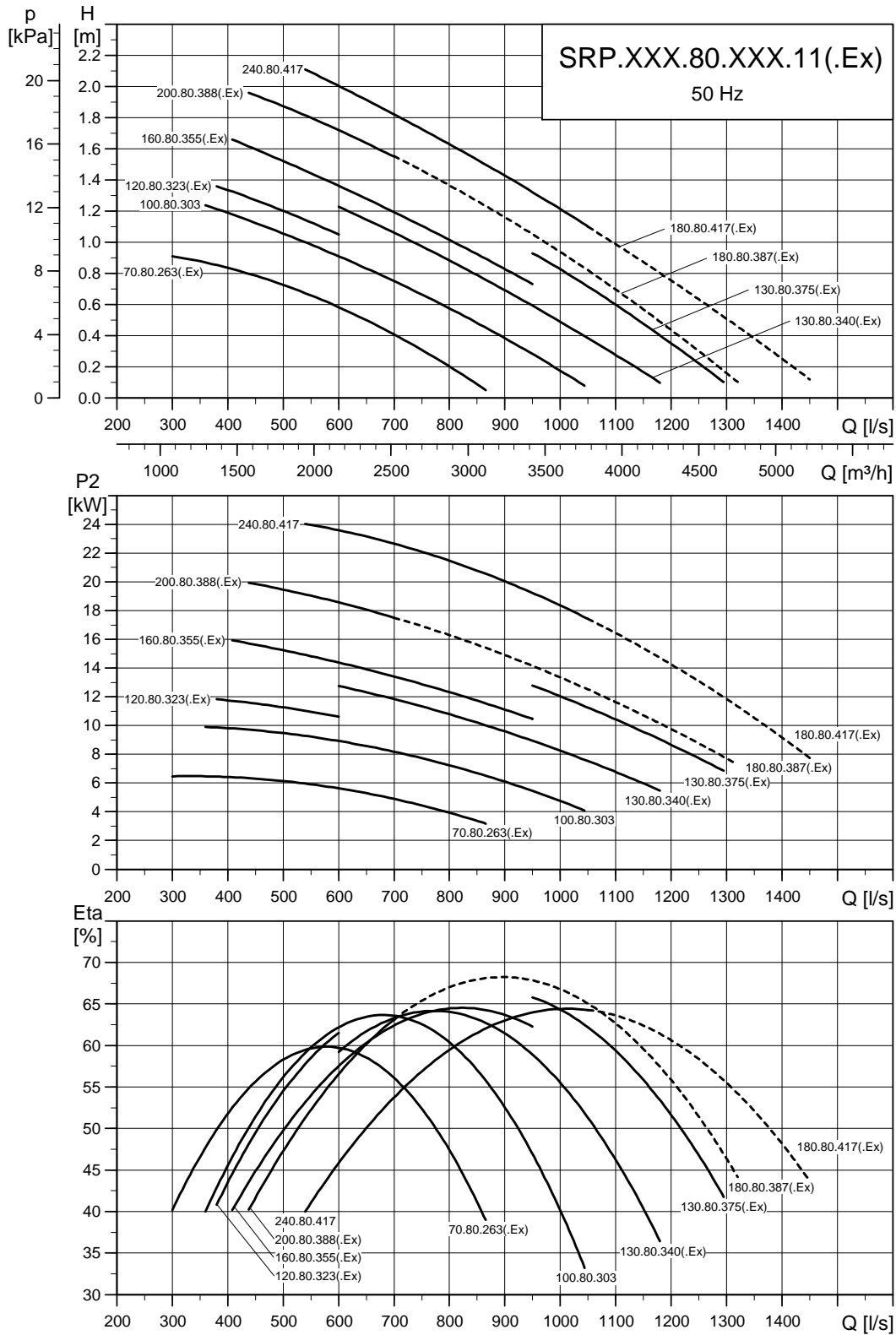


Fig. 19 Selection curve charts for SRP.xx.80.xxx.11, 50 Hz

TM02 9941 4210

Standard versions, 400 V 50 Hz

Type designation	Product numbers					
	10 m cable		15 m cable		25 m cable	
	Standard	Screened	Standard	Screened	Standard	Screened
SRP.08.30.526.08.	96869296	96869301	96869303	96869304	96869306	96869322
SRP.10.30.606.08.	96869696	96869697	96869698	96869699	96869701	96869712
SRP.13.30.678.08.	96869713	96869714	96869715	96869716	96869717	96869718
SRP.16.30.745.08.	96869720	96869721	96869722	96869723	96869724	96869725
SRP.18.30.806.08.	96869726	96869728	96869729	96869730	96869731	96869732
SRP.30.30.517.25.	96569932	95100542	95908392	95908458	95908409	95908477
SRP.40.30.593.25.	96569933	95100543	95908393	95908459	95908410	95908478
SRP.50.30.684.25.	96569934	95100544	95908394	95908460	95908411	95908479
SRP.60.30.752.25.	96569935	95100545	95036335	95908461	95908412	95908480
SRP.70.30.814.25.	96569937	95100546	95908395	95908462	95908413	95908481
SRP.35.50.257.27.	96569938	95100547	96736698	95908463	95908414	95908482
SRP.50.50.291.27.	96569939	95100548	96735760	95908464	95908415	95908483
SRP.65.50.343.27.	96569970	95100549	95908396	95908465	95908416	95908484
SRP.80.50.378.27.	96569971	95100550	95908397	95908466	95908417	95908485
SRP.100.50.412.27.	96569972	95100551	95908398	95035820	95908418	95908486
SRP.70.80.263.11.	96569973	95100552	95908399	95908467	95908419	95908487
SRP.100.80.303.11.	96569976	95100553	95908400	95908468	95908420	95908488
SRP.120.80.323.11.	96569977	95100554	95908401	95908469	95908421	95908489
SRP.130.80.340.11.	96569978	95100555	95908402	95908470	95908422	95908490
SRP.130.80.375.11.	96569990	95100557	95908404	95908472	95908424	95908492
SRP.160.80.355.11.	96569979	95100556	95908403	95908471	95908423	95908491
SRP.180.80.387.11.	96569992	95100559	95908406	95908474	95908426	95908494
SRP.180.80.417.11.	96569994	95100561	95908408	95908476	95036309	95908496
SRP.200.80.388.11.	96569991	95100558	95908405	95908473	95908425	95908493
SRP.240.80.417.11.	96569993	95100560	95908407	95908475	95908427	95908495

Standard versions, 415 V 50 Hz

Type designation	Product numbers			
	15 m cable		25 m cable	
	Standard	Screened	Standard	Screened
SRP.08.30.526.08.	97754158	97754168	97754163	97754173
SRP.10.30.606.08.	97754159	97754169	97754164	97754174
SRP.13.30.678.08.	97754160	97754170	97754165	97754175
SRP.16.30.745.08.	97754161	97754171	97754166	97754176
SRP.18.30.806.08.	97754162	97754172	97754167	97754177
SRP.30.30.517.25.	95908542	95908612	95908562	95908632
SRP.40.30.593.25.	95908543	95908613	95908563	95908633
SRP.50.30.684.25.	95908544	95908614	95908564	95908634
SRP.60.30.752.25.	95908545	95908615	95908565	95908635
SRP.70.30.814.25.	95908546	95908616	95908566	95908636
SRP.35.50.257.27.	95908547	95908617	95908567	95908637
SRP.50.50.291.27.	95908548	95908618	95908568	95908638
SRP.65.50.343.27.	95908549	95908619	95908569	95908639
SRP.80.50.378.27.	95908550	95908620	95908570	95908640
SRP.100.50.412.27.	95908551	95908621	95908571	95908641
SRP.70.80.263.11.	95908552	95908622	95908572	95908642
SRP.100.80.303.11.	95908553	95908623	95908573	95908643
SRP.120.80.323.11.	95908554	95908624	95908574	95908644
SRP.130.80.340.11.	95908555	95908625	95908575	95908645
SRP.130.80.375.11.	95908557	95908627	95908577	95908647
SRP.160.80.355.11.	95908556	95908626	95908576	95908646
SRP.180.80.387.11.	95908559	95908629	95908579	95908649
SRP.180.80.417.11.	95908561	95908631	95908581	95908651
SRP.200.80.388.11.	95908558	95908628	95908578	95908648
SRP.240.80.417.11.	95908560	95908630	95908580	95908650

Explosion-proof versions, 400 V 50 Hz

Type designation	Product numbers					
	10 m cable		15 m cable		25 m cable	
	Standard	Screened	Standard	Screened	Standard	Screened
SRP.08.30.526.08.Ex.	97754178	97754193	97754183	97754198	97754188	97754203
SRP.10.30.606.08.Ex.	97754179	97754194	97754184	97754199	97754189	97754204
SRP.13.30.678.08.Ex.	97754180	97754195	97754185	97754200	97754190	97754205
SRP.16.30.745.08.Ex.	97754181	97754196	97754186	97754201	97754191	97754206
SRP.18.30.806.08.Ex.	97754182	97754197	97754187	97754202	97754192	97754207
SRP.30.30.517.25.Ex.	96616246	95908497	95908428	95908512	95908443	95908527
SRP.60.30.752.25.Ex.	96616247	95908498	95908429	95908513	95908444	95908528
SRP.70.30.814.25.Ex.	96616248	95908499	95908430	95908514	95908445	95908529
SRP.35.50.257.27.Ex.	96616249	95908500	95908431	95908515	95908446	95908530
SRP.50.50.291.27.Ex.	96616260	95908501	95908432	95908516	95908447	95908531
SRP.65.50.343.27.Ex.	96616261	95908502	95908433	95908517	95908448	95908532
SRP.80.50.378.27.Ex.	96616262	95908503	95908434	95908518	95908449	95908533
SRP.70.80.263.11.Ex.	96616263	95908504	95908435	95908519	95908450	95908534
SRP.120.80.323.11.Ex.	96616264	95908505	95908436	95908520	95908451	95908535
SRP.130.80.340.11.Ex.	96616265	95908506	95908437	95908521	95908452	95908536
SRP.130.80.375.11.Ex.	96616267	95908508	95908439	95908523	95908454	95908538
SRP.160.80.355.11.Ex.	96616266	95908507	95908438	95908522	95908453	95908537
SRP.180.80.387.11.Ex.	96616269	95908510	95908441	95908525	95908456	95908540
SRP.180.80.417.11.Ex.	96616270	95908511	95908442	95908526	95908457	95908541
SRP.200.80.388.11.Ex.	96616268	95908509	95908440	95908524	95908455	95908539

Variants

Motor					
Power cable	Standard cable longer than 25 m	7 x 4 mm ² + 4 x 1.0 mm ² , D21	H07RN-F 7G4 + 4 x 1	<u>35 m</u> 50 m	Contact Grundfos.
		11 x 1.5 mm ² , D17	S1BN8-F 11G1.5	<u>35 m</u> 50 m	
		11 x 2.5 mm ² , D21	S1BN8-F 11G2.5	<u>35 m</u> 50 m	
Screened power cable	Screened cable complete (cast in the cable entry)	7 x 4 mm ² + 4 x 1.0 mm ² D22.5	H07RC4N8-F 7G4 + 4 x 1	<u>35 m</u> 50 m	
Thermal protection	PTC sensor - one in each phase				Contact Grundfos.
Coating					
Product coating	Motor/gear housing		Different colours Thicker protection layer	<u>450 micron epoxy</u>	
Impeller coating	Epoxy or stainless-steel impellers		Different colours Protection layer	<u>300 micron epoxy</u>	
Testing					
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.
Other					
For special packaging	Batch packaging, hard/soft box, ex.				Contact Grundfos.
For special nameplate					Contact Grundfos.
For any other variants					Contact Grundfos.

Pump

The position numbers in fig. 20 refer to *Material specification*, page 24.

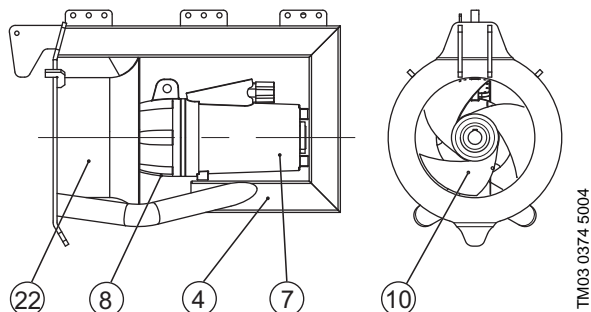


Fig. 20 Construction, SRP

Installation drawing

The position numbers in fig. 21 refer to *Material specification*, page 24.

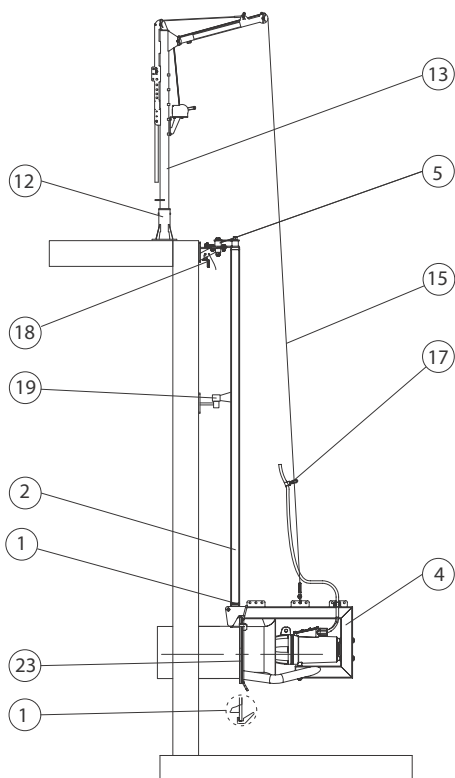


Fig. 21 Example of pump installation

For detailed drawings of each accessory, see *List of accessories*, page 85.

Crane

In order to select the right size of crane for a specific SRP, see *Selection guide for accessories*, page 85. The crane can easily be lifted off the crane foot, pos. 12, if it is needed in another installation.

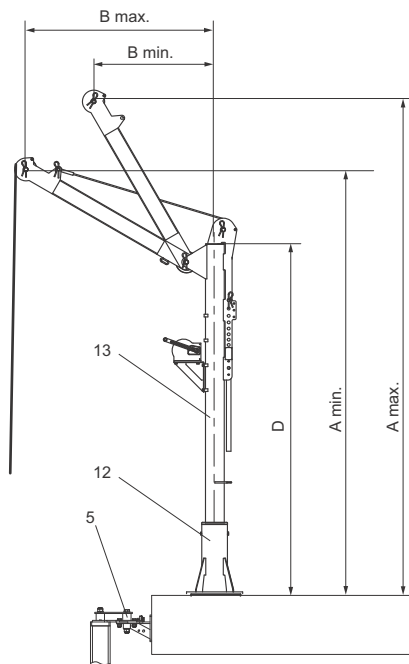


Fig. 22 Crane

Crane type	A _{min.} [mm]	A _{max.} [mm]	B _{min.} [mm]	B _{max.} [mm]	D [mm]
M	2838	3521	350	1406	2286
L	2838	3521	350	1406	2280

Crane type	M	L
Wire diameter	∅ 6	∅ 7
Type of winch	8 AF	12 AF
Max. load	250 kg	500 kg
Total weight	61.2 kg	76.5 kg

Material specification

The position numbers refer to figures 20, 21 and 22.

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	1.4581/1.4404	316
12	Crane foot	Stainless steel	1.4301	304
13	Crane with winch and lifting wire	Stainless steel	1.4301	304
15	Lifting wire, incl. wire clamp	Stainless steel		316 L
17	Cable clamp	Stainless steel	1.4301	304
18	Cable sock, incl. shackle. Ø 10	Stainless steel/synthetic material	1.4404	316 L
19	Intermediate fixation bracket	Stainless steel		304
22	Hydraulic inlet	Stainless steel	1.4581/1.4404	304
23	Connection flange	Steel	1.4301	304

Sectional drawings

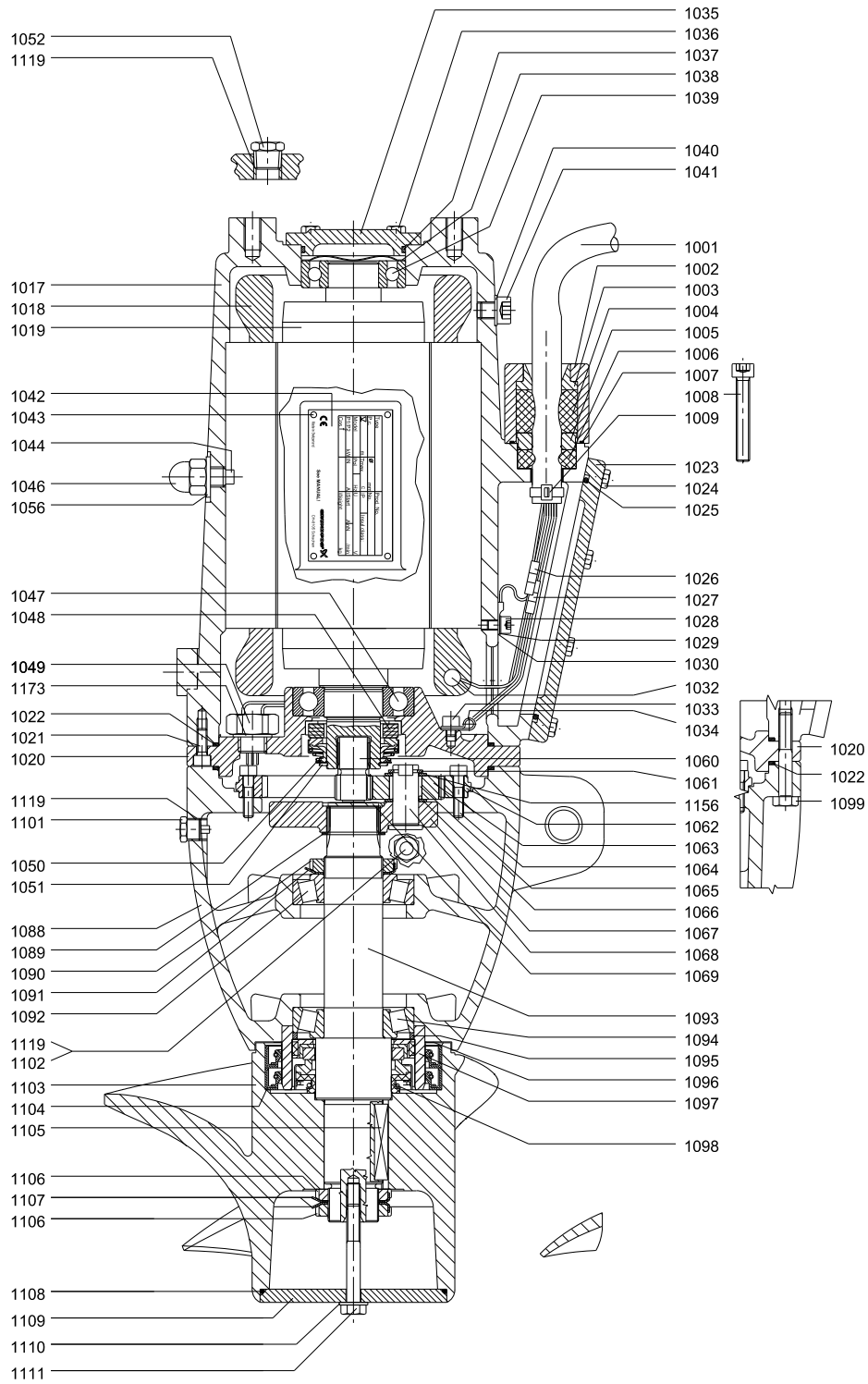


Fig. 23 Sectional drawing, SRP.xx.30.xxx

TM03 53794310

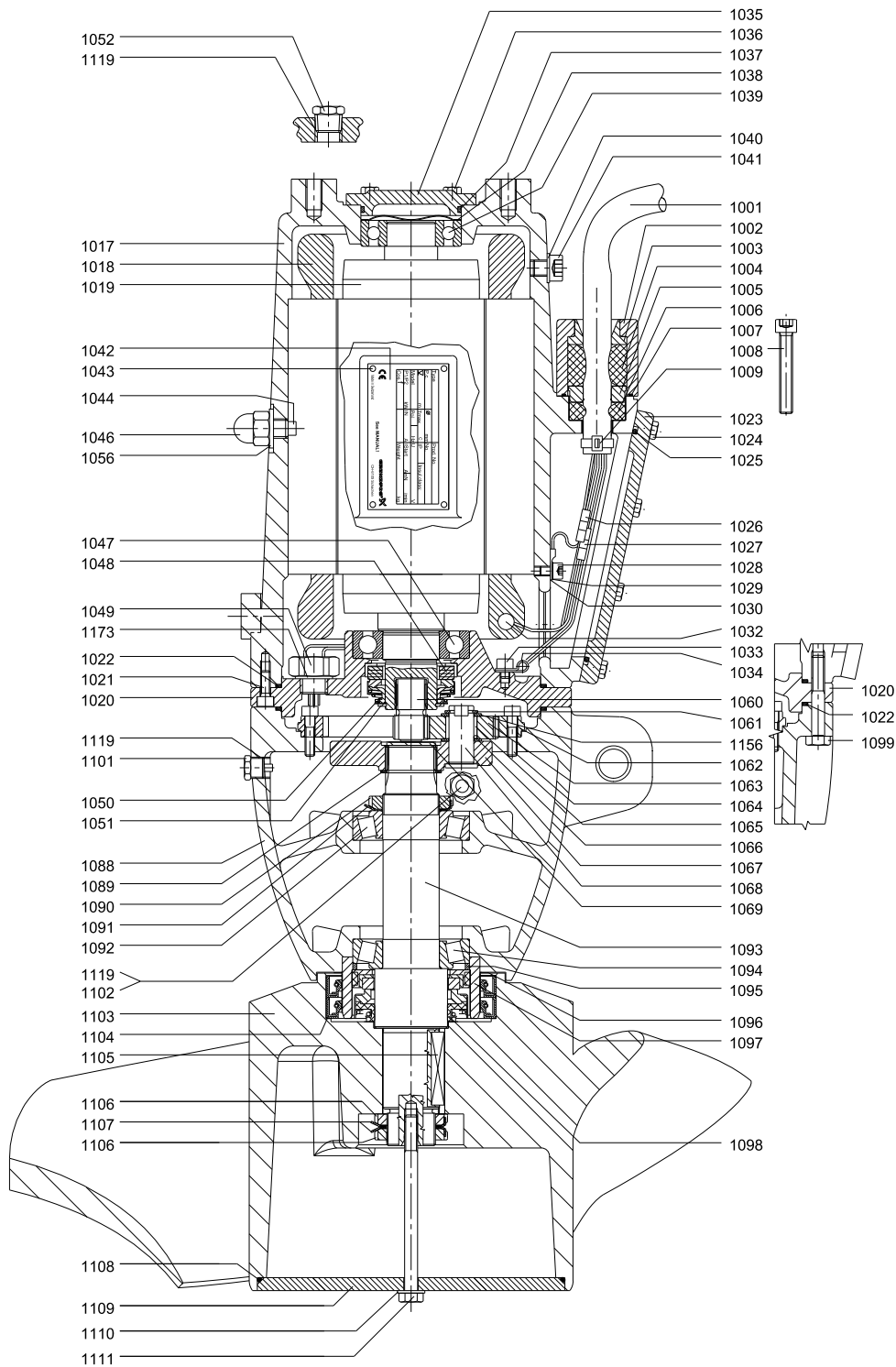


Fig. 24 Sectional drawing, SRP.35.50.xxx, SRP.50.50.xxx

TM03 5380410

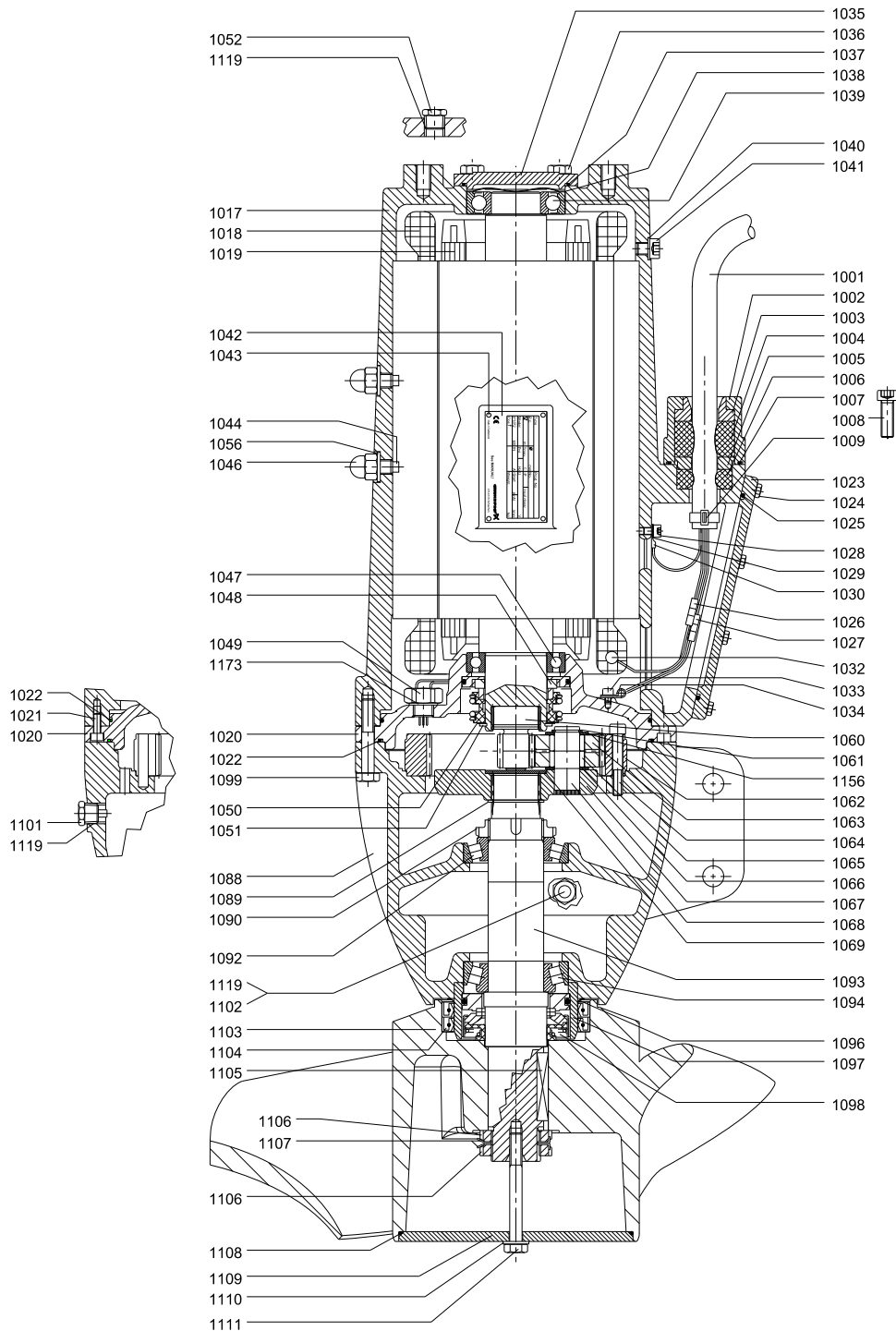


Fig. 25 Sectional drawing, SRP.65.50.xxx, SRP.80.50.xxx and SRP.100.50.xxx

TM03 53814310

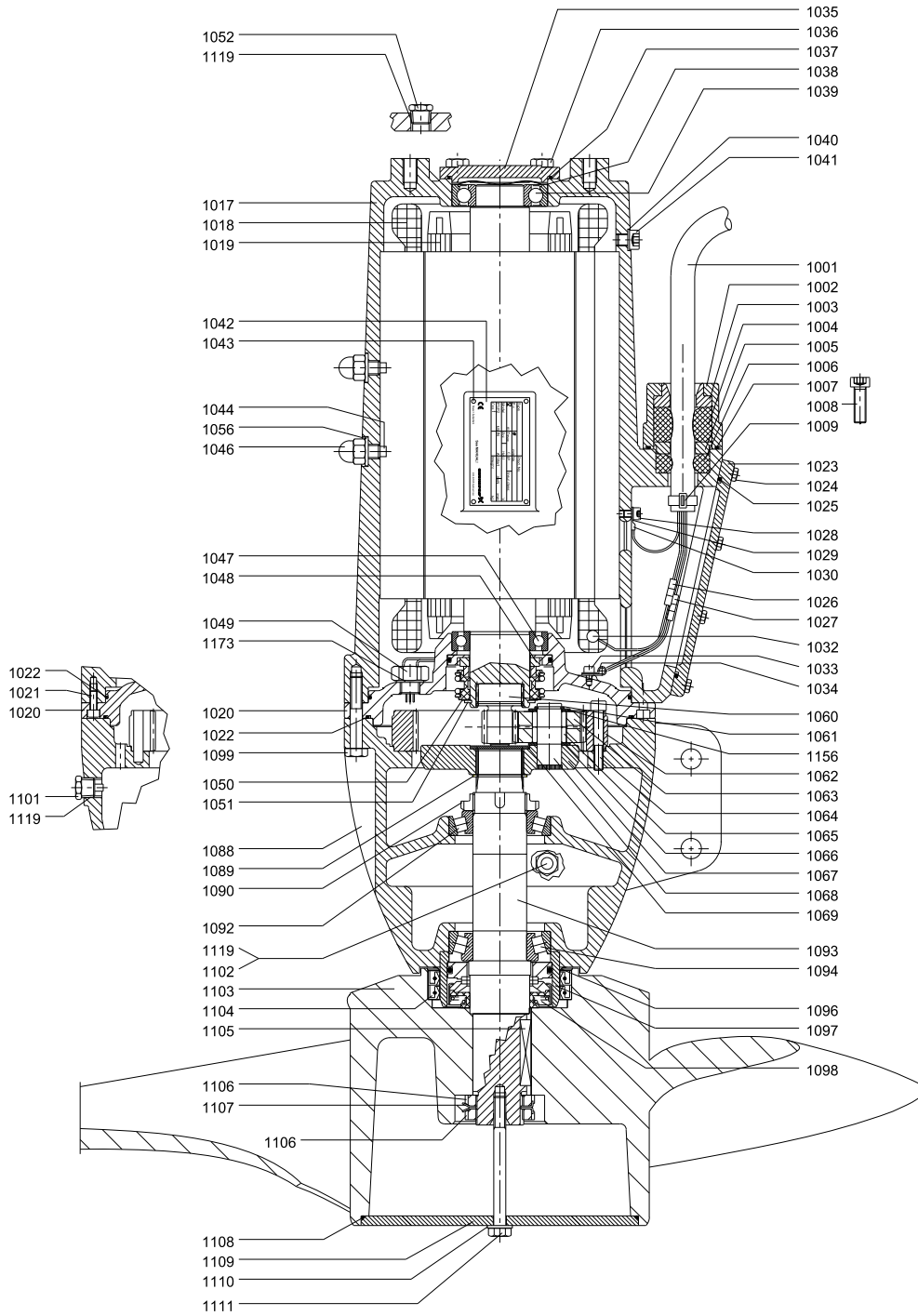
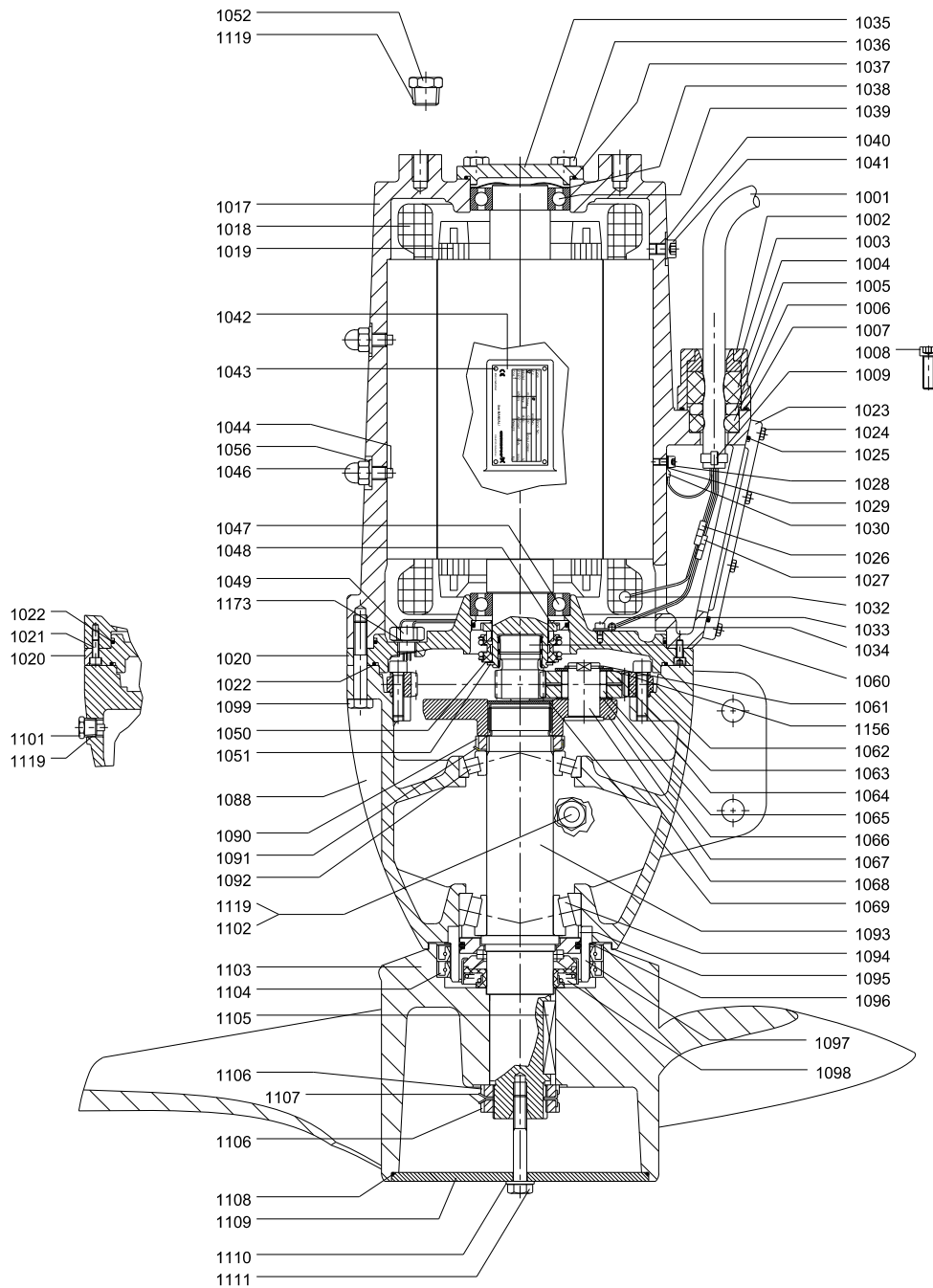


Fig. 26 Sectional drawing, SRP.70.80.xxx, SRP.100.80.xxx and SRP.130.80.xxx

TM03 5382 4310



TM03 54704310

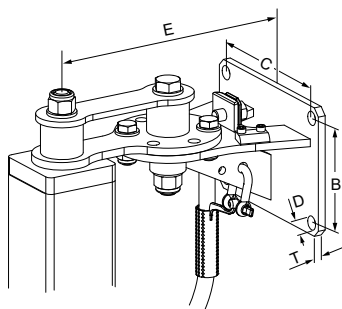
Fig. 27 Sectional drawing, SRP.120.80.xxx, SRP.160.80.xxx, SRP.180.80.xxx, SRP.200.80.xxx and SRP.240.80.xxx

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 sealing, large	Elastomer (70 shore hardness)
1005	Thrust washer	DIN 1.4301
1006	Cable sealing 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
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
1031	PTC	
1032	PTO/PTC	
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	Zinc-plated steel
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)

Pos.	Description	Material
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)
1061	Circlip	Spring steel (DIN 17222)
1062	Ring gear	34CrMo4V (DIN 1.7220)
1063	Planet gear	34CrMo4V (DIN 1.7220)
1064	Screw	Zinc-plated steel
1065	Roller	Roller bearing steel
1066	Washer	Ck45N (DIN 1.1191)
1067	Planet carrier	Ck45N (DIN 1.1191)
1068	Planet pin	Ck45N (DIN 1.1191)
1069	Cover	Ck45N (DIN 1.1191)
1088	Gear housing	EN-GJL250
1089	Circlip	Spring steel (DIN 17222)
1090	Slotted nut	Bright steel
1091	Lock washer	Bright steel
1092	Tapered roller bearing	
1093	Gear shaft	16CrNi4 (DIN 1.5713)
1094	Tapered roller bearing	
1095	Intermediate ring	DIN 1.0570
1096	Wear sleeve	DIN 1.4300
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
1107	Lock washer	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, Curil K2	
1122	Gear oil	ISO VG 68
1156	Washer	Ck45N (DIN 1.1191)
1173	Seal washer	Copper

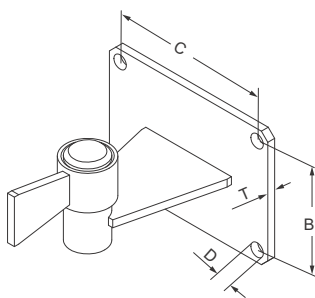
Dimensions, accessories



TM04 3899 0309

Fig. 28 Top fixation bracket

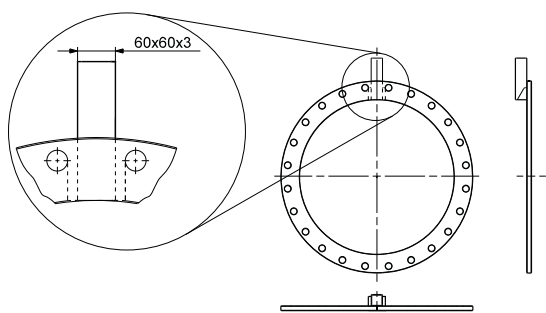
Column profile	B [mm]	C [mm]	D [mm]	E [mm]	T [mm]
60 x 60				240	
80 x 80	110	160	15	250	8
100 x 100				261	
120 x 120				261	



TM04 3903 0309

Fig. 29 Intermediate fixation bracket

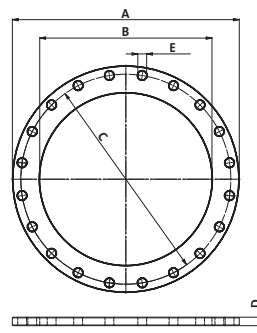
B [mm]	C [mm]	D [mm]	T [mm]
110	160	15	8



TM03 0572 0205

Fig. 30 Bottom fixation on connection flange

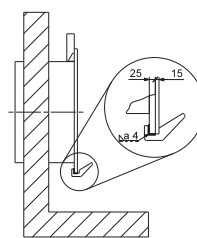
Pump type	A [mm]	B [mm]	C [mm]	D [mm]
All SRP pump types	15	64	156	220



TM03 0465 5104

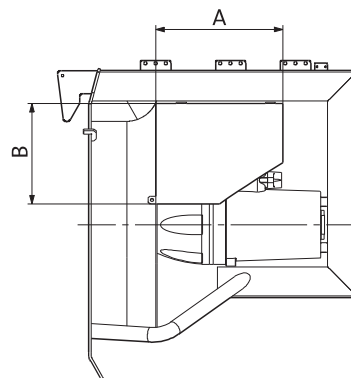
Fig. 31 Connection flange

Diameter	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
DN 300	445	306.5	400	15	12 x Ø 22
DN 500	670	508.5	620	25	20 x Ø 26
DN 800	1015	816	950	25	24 x Ø 33



TM03 1773 3105

Fig. 32 Claws for connection flange, SRP.xx.80.xx

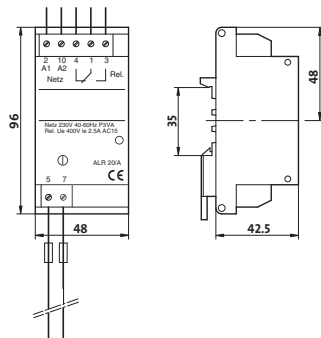


TM03 0563 0502

Fig. 33 Vortex shield

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

Dimensional sketch of ALR-20/A relay



TM02 8867 0904

Fig. 34 ALR-20/A relay

All dimensions are in mm.

The dimensions also apply to the explosion-proof version of the relay.

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.

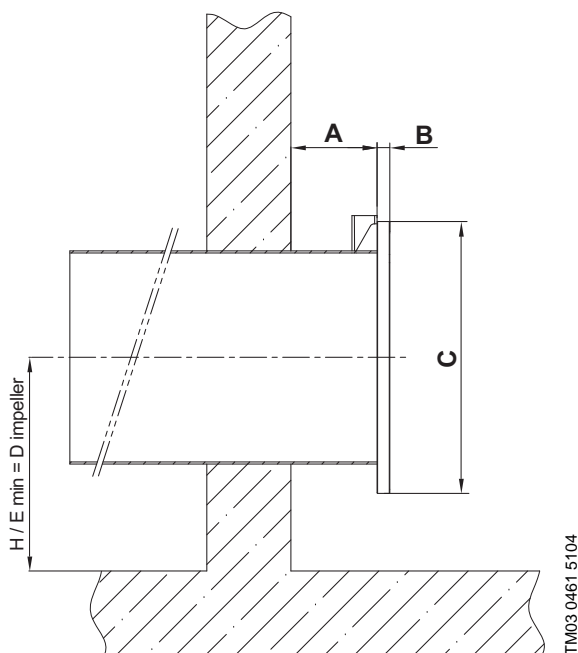


Fig. 35 Dimensions of connecting pipe

Pump type	DN	Flange	A [mm]	B [mm]	C [mm]	E _{min} [mm]
SRP.xx.30	300	PN 10 2/3	270	15	445	300
SRP.xx.50	500			25	670	500
SRP.xx.80	800			1015	800	

H/E_{\min} = distance from bottom of tank to middle of connecting pipe.

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.

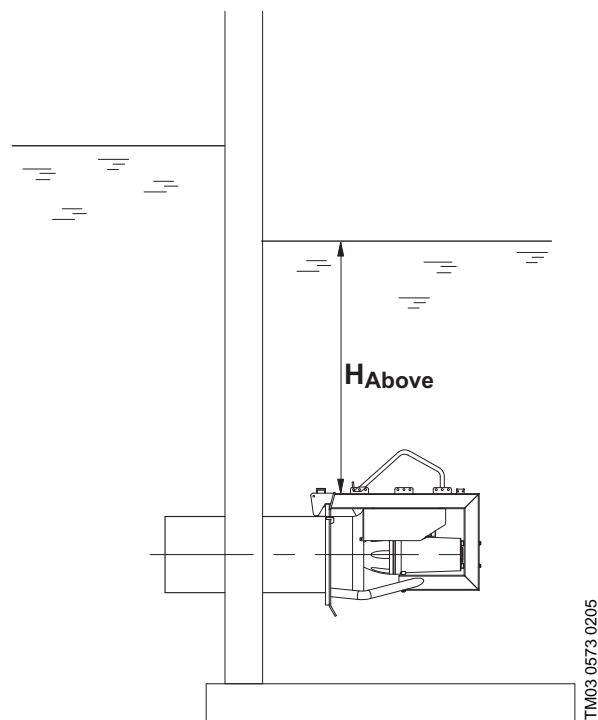


Fig. 36 Installation with vortex shield

H_{Above} = distance from top of pump rack to surface of liquid.

Pump type	Min. H_{Above} without vortex shield [mm]	Min. H_{Above} with vortex shield [mm]
SRP.xx.30	450	300
SRP.xx.50	750	500
SRP.xx.80	1200	800

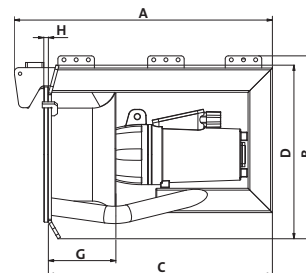
The curves on the following pages apply to both standard and explosion-proof pump versions when available.

SRP.08.30.526.08.(Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		2
Power output, P ₂		0.8 kW
I _N		2.5 A
I _{start}		24 A
Cos φ		0.79
Nominal impeller diameter		300 mm
Number of impeller blades		3
Impeller speed		526 min ⁻¹
Blade angle		8 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard		S1BN8-F 11G1.5
Cable type, screened		H07RC4N8-F 7G4+4x1

Dimensions and weights

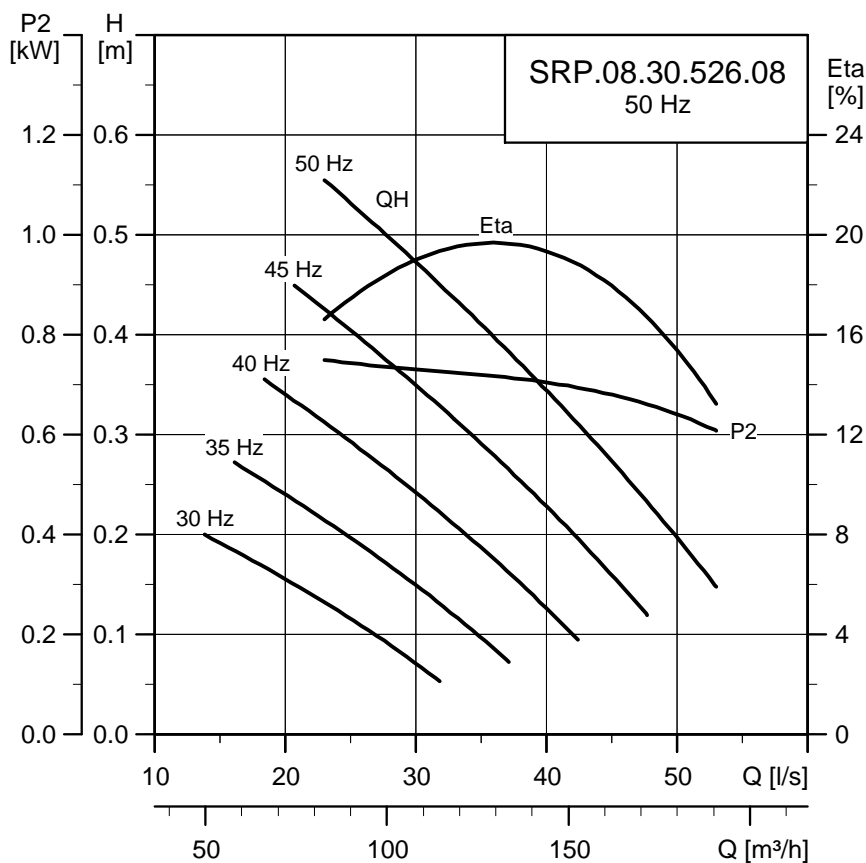


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
						10	110	113
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



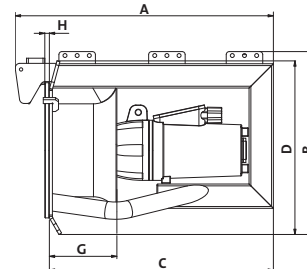
TM04 3056 3608

SRP.10.30.606.08(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage	3 x 400 V	
Voltage tolerance	± 10 %	± 5 %
Number of poles	2	
Power output, P2	1 kW	
I_N	2.8 A	
I_{start}	24 A	
Cos ϕ	0.83	
Nominal impeller diameter	300 mm	
Number of impeller blades	3	
Impeller speed	606 min ⁻¹	
Blade angle	8 degrees	
Enclosure class	IP68	
Maximum installation depth	20 m	
Maximum number of starts per hour	20	
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G1.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

Dimensions and weights

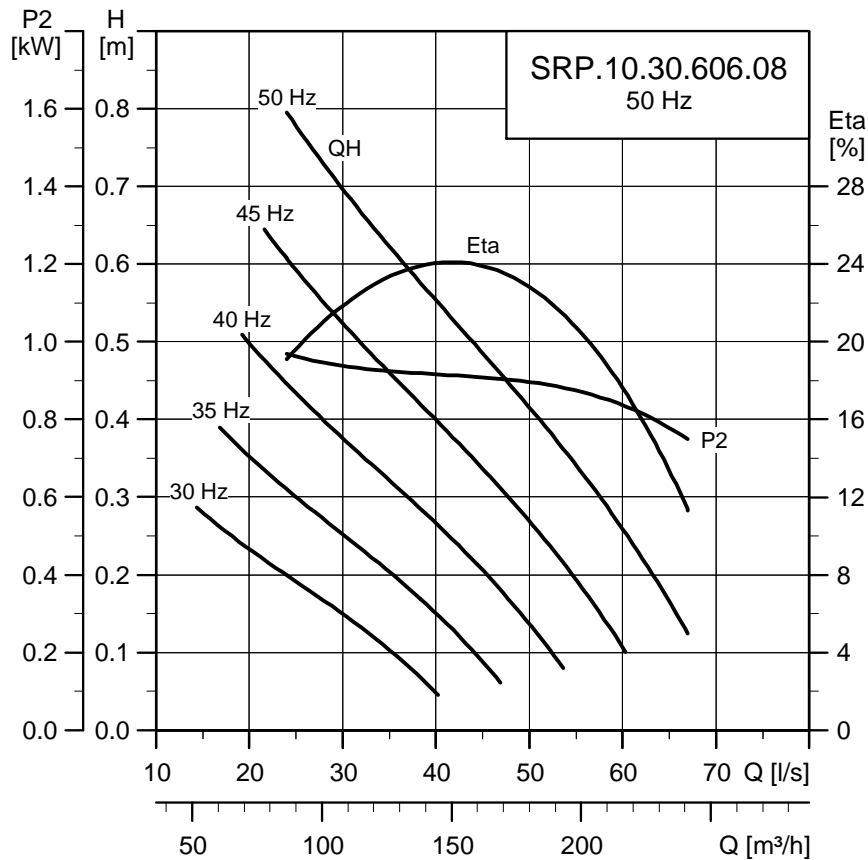


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	10	110	113
						15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



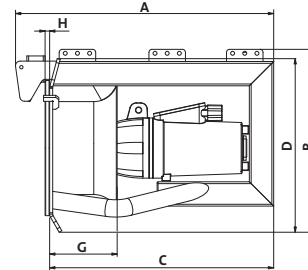
TM04 3057 3608

SRP.13.30.678.08(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		2
Power output, P2		1.3 kW
I_N		3.2 A
I_{start}		24 A
$\cos \varphi$		0.87
Nominal impeller diameter		300 mm
Number of impeller blades		3
Impeller speed		678 min ⁻¹
Blade angle		8 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G1.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

Dimensions and weights

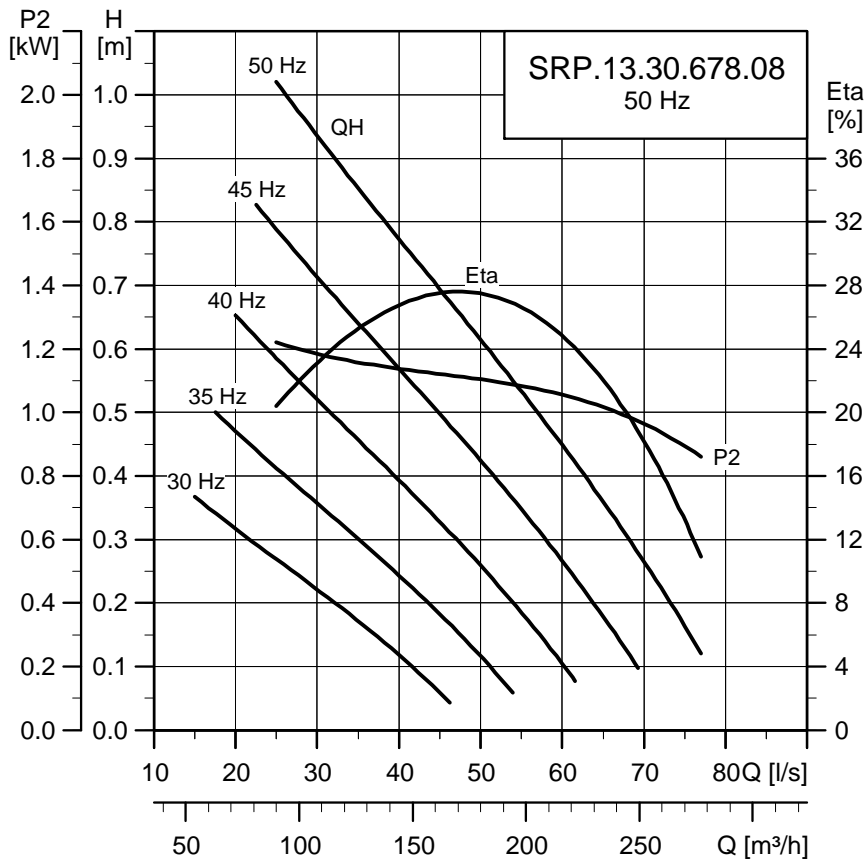


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
						10	110	113
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



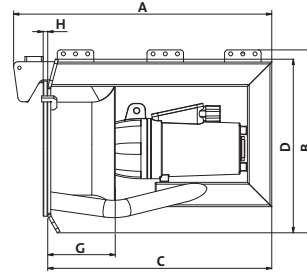
TM04 3058 3608

SRP.16.30.745.08(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage	3 x 400 V	
Voltage tolerance	± 10 %	± 5 %
Number of poles	2	
Power output, P2	1.6 kW	
I_N	3.8 A	
I_{start}	24 A	
Cos ϕ	0.89	
Nominal impeller diameter	300 mm	
Number of impeller blades	3	
Impeller speed	745 min ⁻¹	
Blade angle	8 degrees	
Enclosure class	IP68	
Maximum installation depth	20 m	
Maximum number of starts per hour	20	
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G1.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

Dimensions and weights

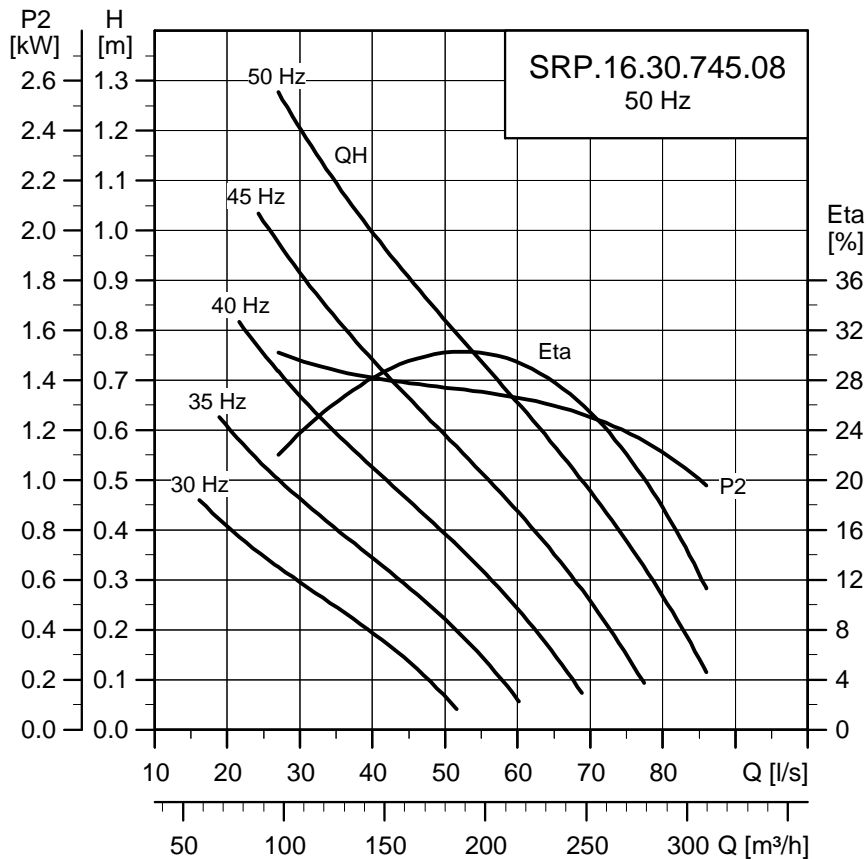


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
						10	110	113
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



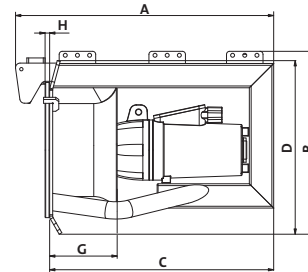
TM04 3059 3608

SRP.18.30.806.08(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		2
Power output, P2		1.8 kW
I_N		4.2 A
I_{start}		24 A
Cos φ		0.90
Nominal impeller diameter		300 mm
Number of impeller blades		3
Impeller speed		806 min ⁻¹
Blade angle		8 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths		10 m, 15 m, 25 m
Cable type, standard		S1BN8-F 11G1.5
Cable type, screened		H07RC4N8-F 7G4+4x1

Dimensions and weights

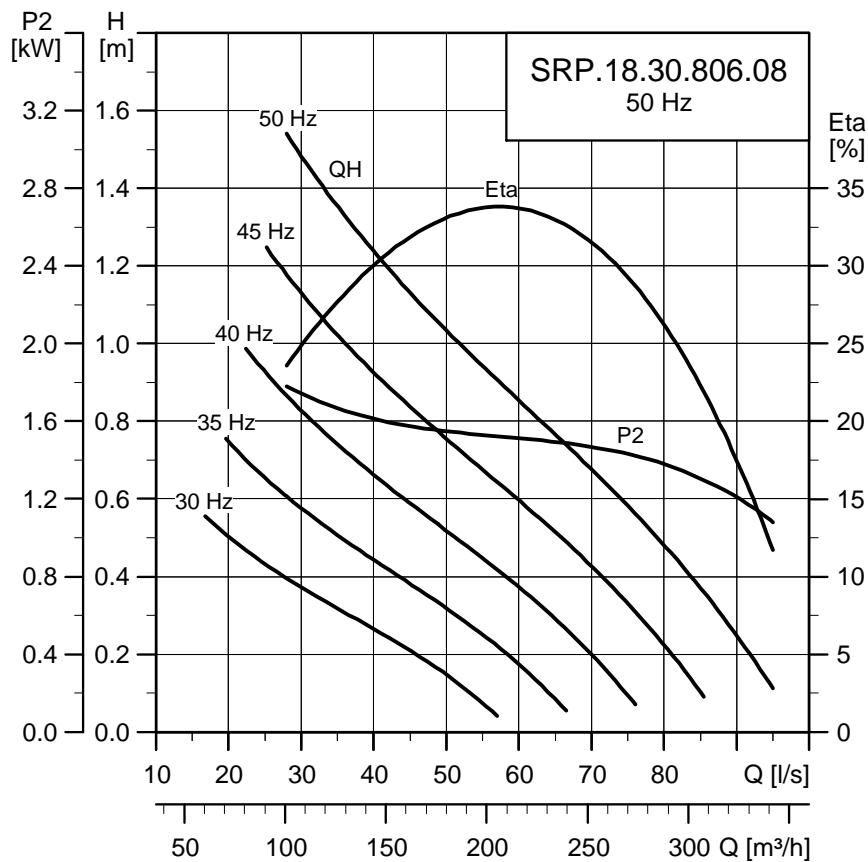


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
						10	110	113
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



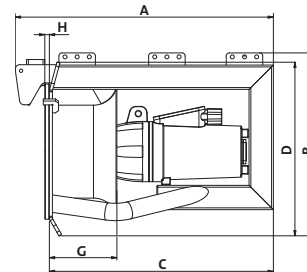
TM04 3060 3608

SRP.30.30.517.25(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage	3 x 400 V	
Voltage tolerance	± 10 %	± 5 %
Number of poles	2	
Power output, P2	3.0 kW	
I_N	6.7 A	
I_{start}	56 A	
Cos ϕ	0.83	
Nominal impeller diameter	300 mm	
Number of impeller blades	3	
Impeller speed	517 min ⁻¹	
Blade angle	25 degrees	
Enclosure class	IP68	
Maximum installation depth	20 m	
Maximum number of starts per hour	20	
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G1.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

Dimensions and weights

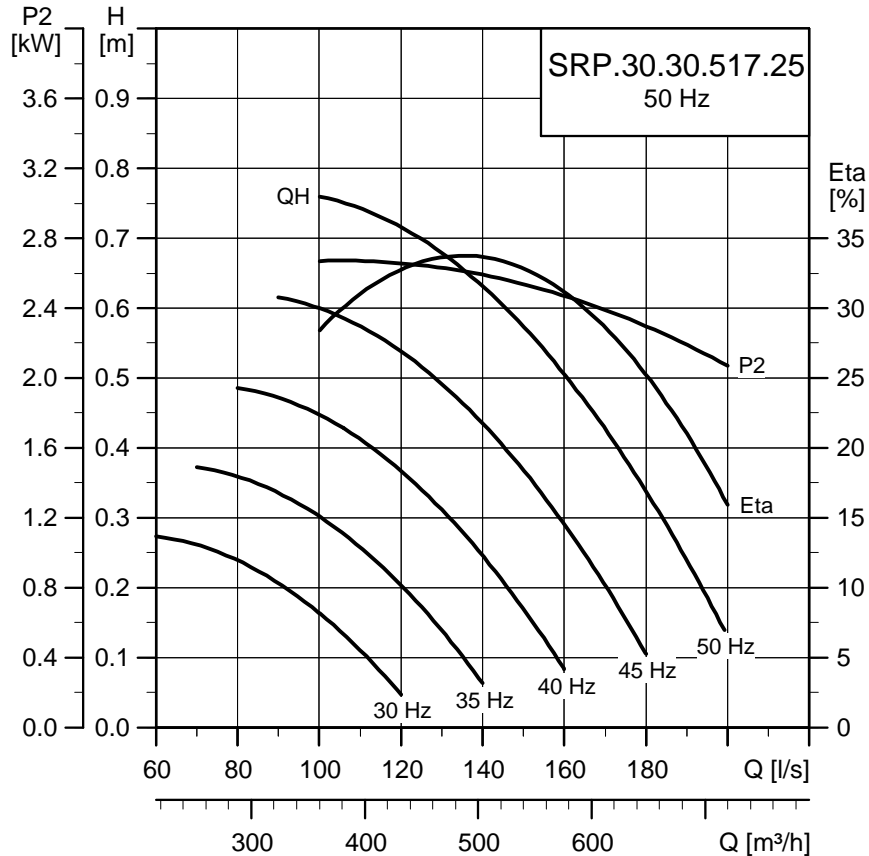


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
						10	110	113
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



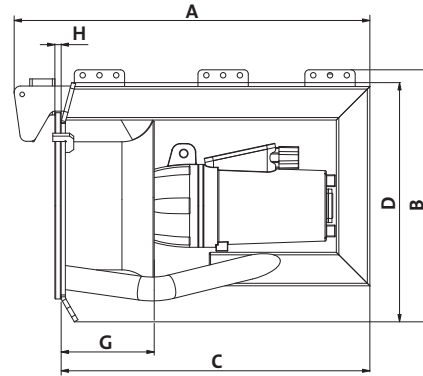
TM02 9841 5104

SRP.40.30.593.25

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 400 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	4 kW
I_N	8.2 A
I_{start}	56 A
$\cos \varphi$	0.87
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	593 min ⁻¹
Blade angle	25 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	10 m, 15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

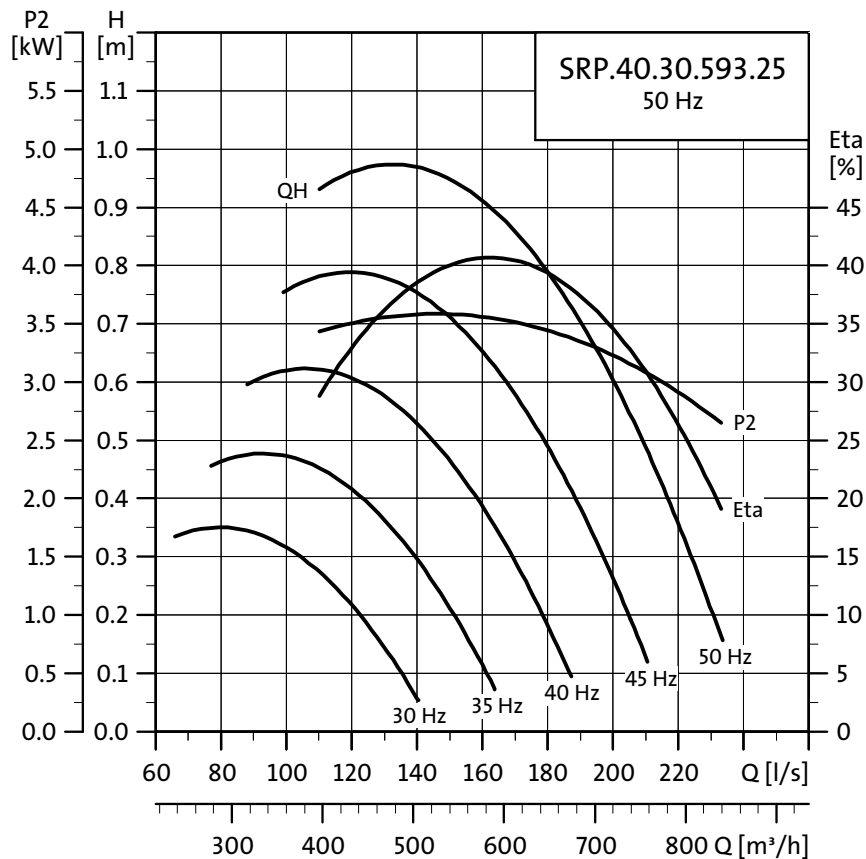


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	10	110	113
						15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



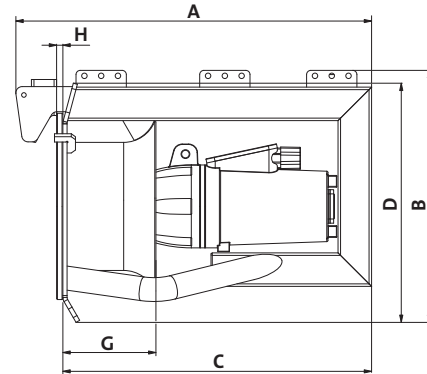
TM02 9842 5104

SRP.50.30.684.25

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 400 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	5 kW
I_N	12.9 A
I_{start}	138 A
Cos ϕ	0.65
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	684 min ⁻¹
Blade angle	25 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	10 m, 15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

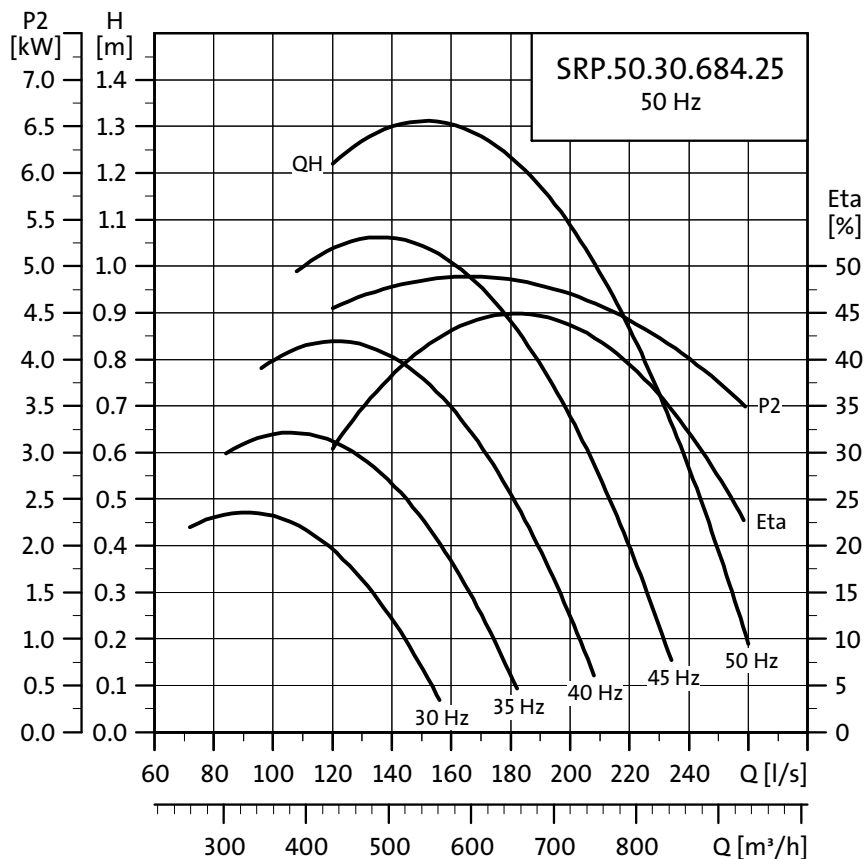


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	10	120	123
						15	123	126
						25	128	135

All dimensions are in mm.

Performance curves



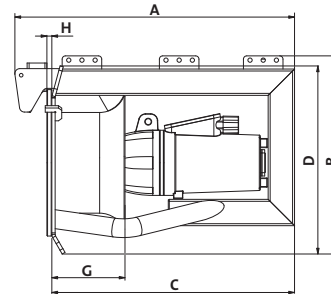
TM02 9843 5104

SRP.60.30.752.25(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T2
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		2
Power output, P2		6 kW
I_N		14 A
I_{start}		138 A
$\cos \varphi$		0.72
Nominal impeller diameter		300 mm
Number of impeller blades		3
Impeller speed		752 min ⁻¹
Blade angle		25 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G1.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

Dimensions and weights

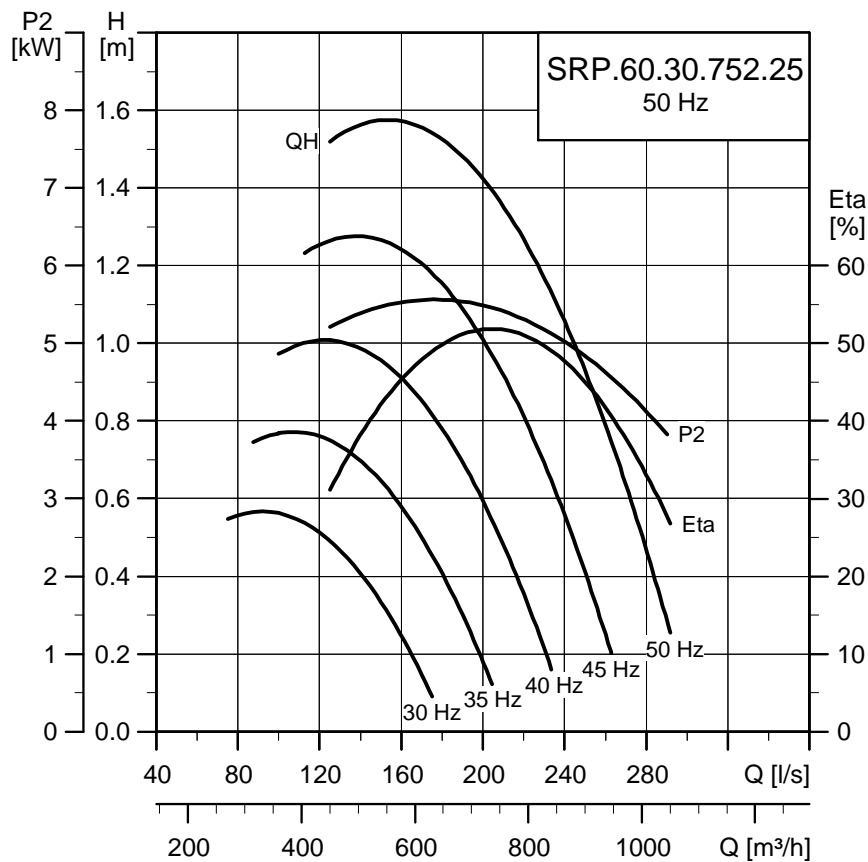


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	10	120	123
						15	123	126
						25	128	135

All dimensions are in mm.

Performance curves



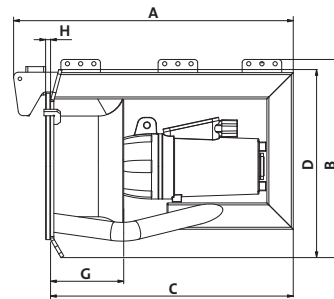
TM02 9844 5104

SRP.70.30.814.25(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T2
Continuous frequency converter operation		30 to 50 Hz
Voltage	3 x 400 V	
Voltage tolerance	± 10 %	± 5 %
Number of poles	2	
Power output, P2	7 kW	
I_N	15.4 A	
I_{start}	138 A	
Cos ϕ	0.77	
Nominal impeller diameter	300 mm	
Number of impeller blades	3	
Impeller speed	814 min ⁻¹	
Blade angle	25 degrees	
Enclosure class	IP68	
Maximum installation depth	20 m	
Maximum number of starts per hour	20	
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G1.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

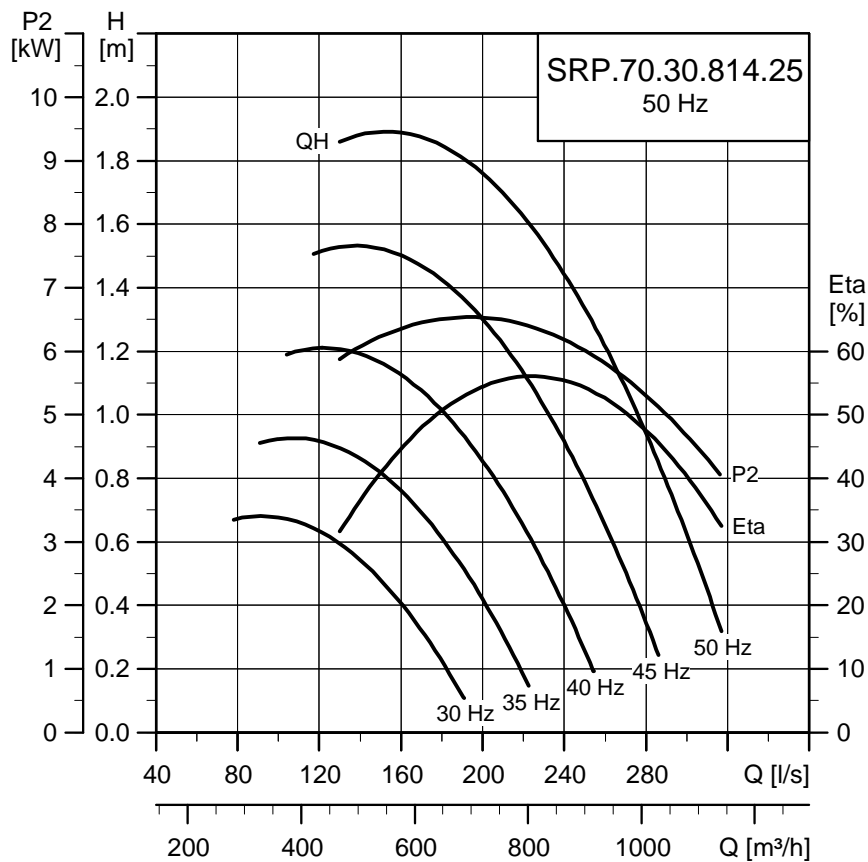
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	10	120	123
						15	123	126
						25	128	135

Performance curves



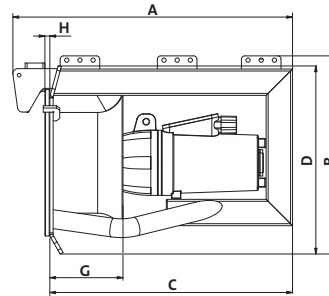
TM02 9845 5104

SRP.35.50.257.27(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		3.5 kW
I_N		11.6 A
I_{start}		76 A
Cos φ		0.60
Nominal impeller diameter		500 mm
Number of impeller blades		3
Impeller speed		257 min ⁻¹
Blade angle		27 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard		S1BN8-F 11G1.5
Cable type, screened		H07RC4N8-F 7G4+4x1

Dimensions and weights

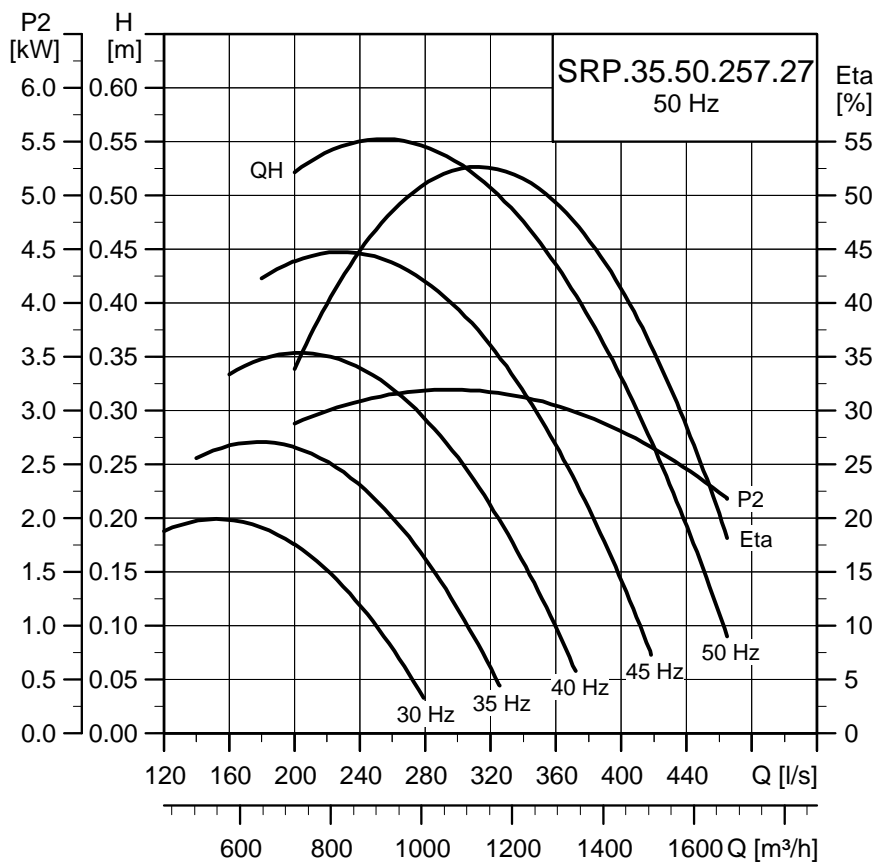


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
910	835	787	824	230	25	10	200	203
						15	203	206
						25	208	215

All dimensions are in mm.

Performance curves



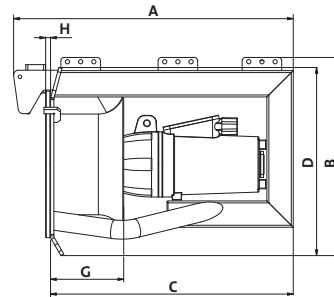
TM02 9846 5104

SRP.50.50.291.27(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage	3 x 400 V	
Voltage tolerance	± 10 %	± 5 %
Number of poles	4	
Power output, P2	5 kW	
I_N	13.6 A	
I_{start}	76 A	
Cos ϕ	0.73	
Nominal impeller diameter	500 mm	
Number of impeller blades	3	
Impeller speed	291 min ⁻¹	
Blade angle	27 degrees	
Enclosure class	IP68	
Maximum installation depth	20 m	
Maximum number of starts per hour	20	
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G1.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

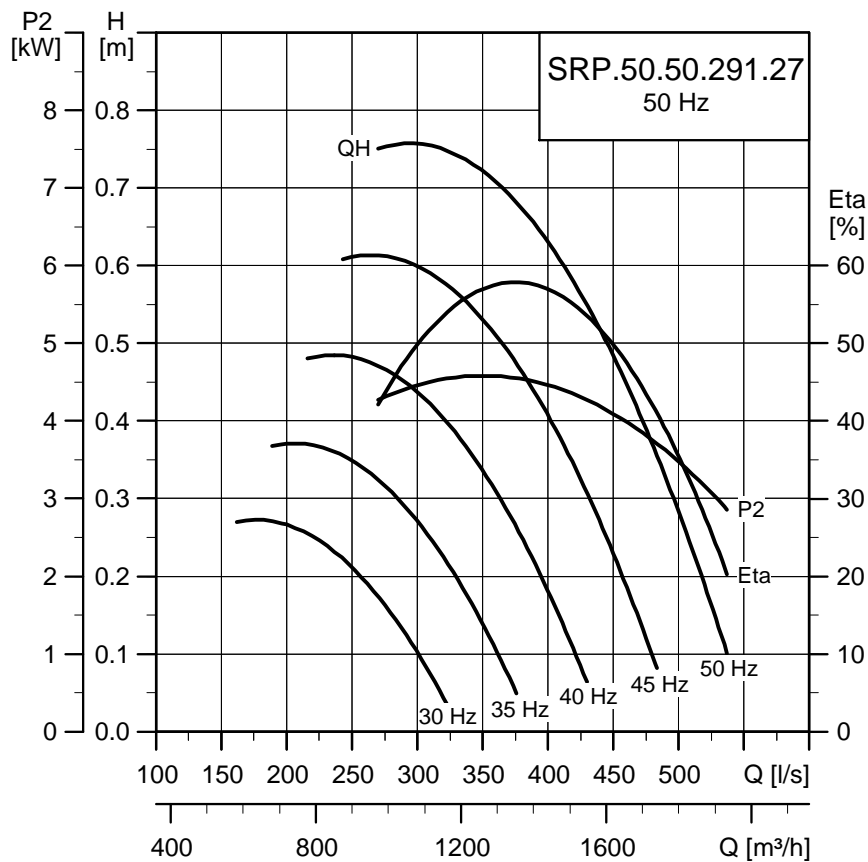
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
910	835	787	824	230	25	10	200	203
						15	203	206
						25	208	215

Performance curves



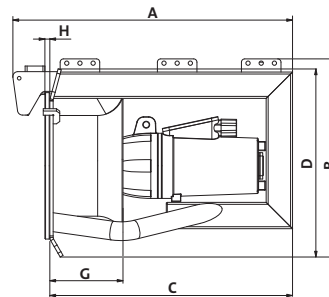
TM02 9847 5104

SRP.65.50.343.27(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation	30 to 50 Hz	
Voltage	3 x 400 V	
Voltage tolerance	± 10 %	± 5 %
Number of poles	4	
Power output, P2	6.5 kW	
I_N	21.8 A	
I_{start}	193 A	
$\cos \varphi$	0.53	
Nominal impeller diameter	500 mm	
Number of impeller blades	3	
Impeller speed	343 min ⁻¹	
Blade angle	27 degrees	
Enclosure class	IP68	
Maximum installation depth	20 m	
Maximum number of starts per hour	20	
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G2.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

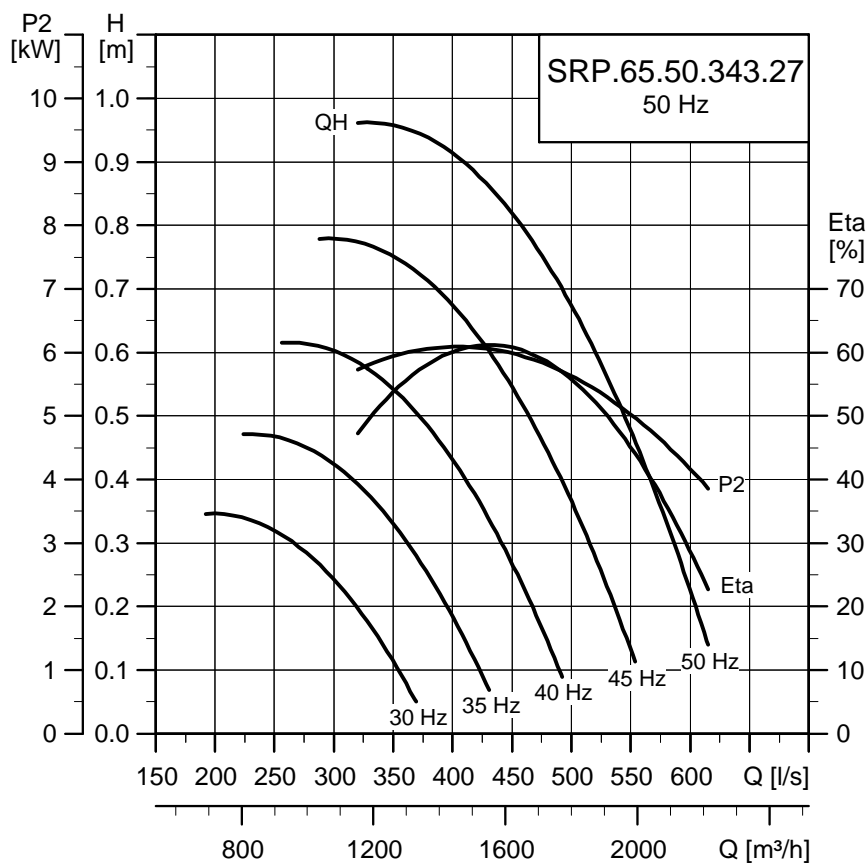
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1119	855	996	824	230	25	10	240	241
						15	243	244
						25	248	250

Performance curves



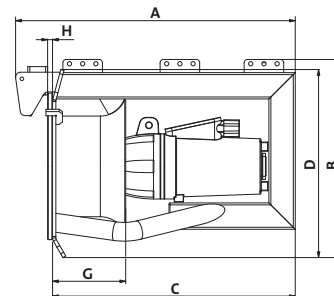
TM02 9848 5104

SRP.80.50.378.27(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		8 kW
I_N		23.2 A
I_{start}		193 A
Cos ϕ		0.61
Nominal impeller diameter		500 mm
Number of impeller blades		3
Impeller speed		378 min ⁻¹
Blade angle		27 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths		10 m, 15 m, 25 m
Cable type, standard		S1BN8-F 11G2.5
Cable type, screened		H07RC4N8-F 7G4+4x1

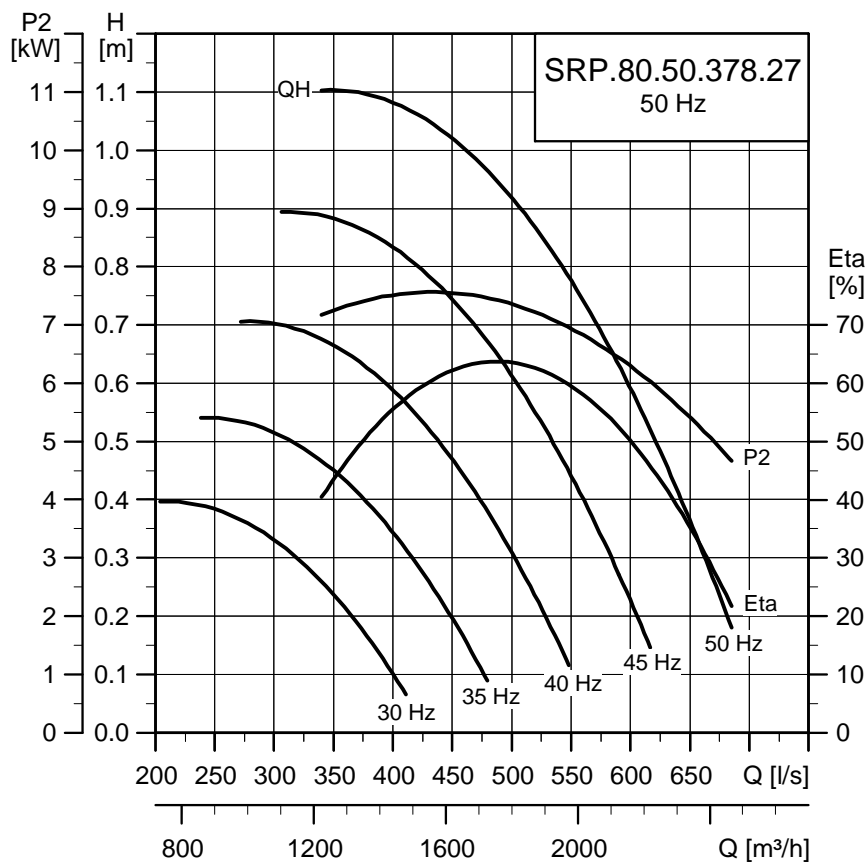
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1119	855	996	824	230	25	10	240	241
						15	243	244
						25	248	250

Performance curves



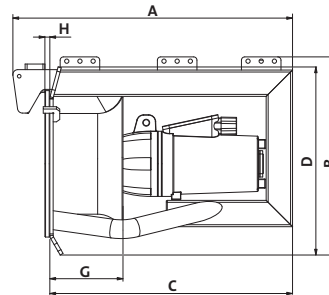
TM02 9849 5104

SRP.100.50.412.27

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 400 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	10 kW
I_N	24.4 A
I_{start}	259 A
Cos φ	0.68
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	412 min ⁻¹
Blade angle	27 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	10 m, 15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

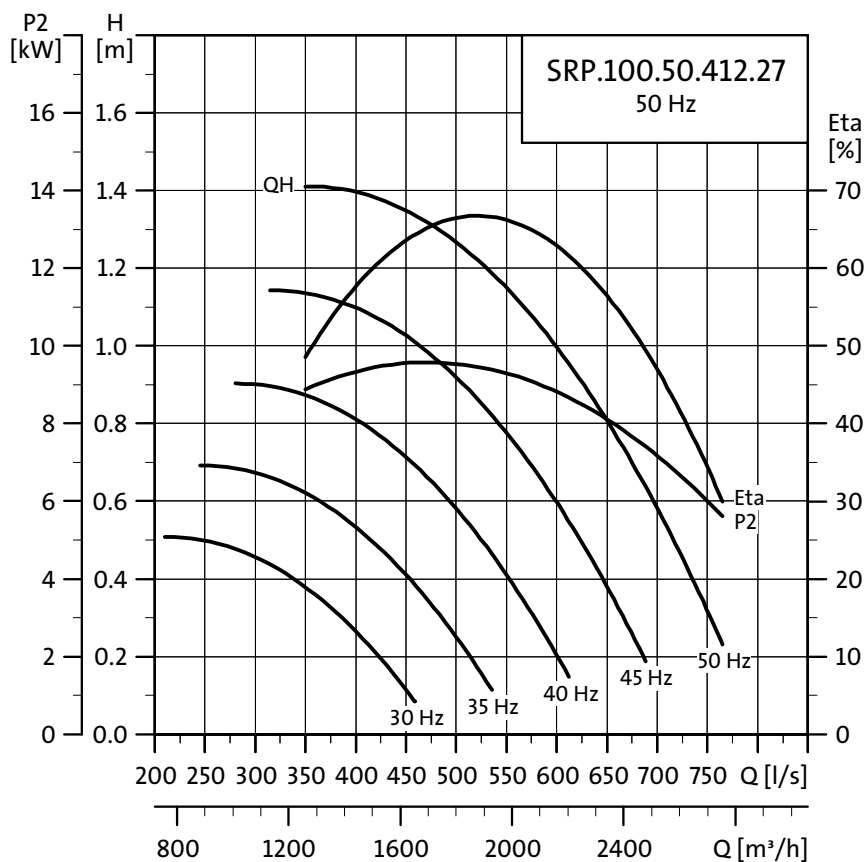
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1119	855	996	824	230	25	10	250	251
						15	253	254
						25	258	260

Performance curves



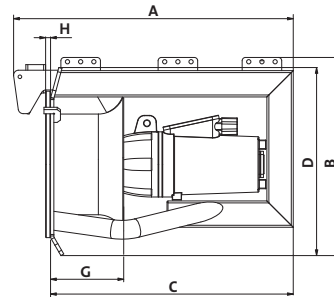
TM02 9850 5104

SRP.70.80.263.11(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		7 kW
I_N		22.2 A
I_{start}		193 A
Cos ϕ		0.56
Nominal impeller diameter		800 mm
Number of impeller blades		3
Impeller speed		263 min ⁻¹
Blade angle		11 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths		10 m, 15 m, 25 m
Cable type, standard		S1BN8-F 11G2.5
Cable type, screened		H07RC4N8-F 7G4+4x1

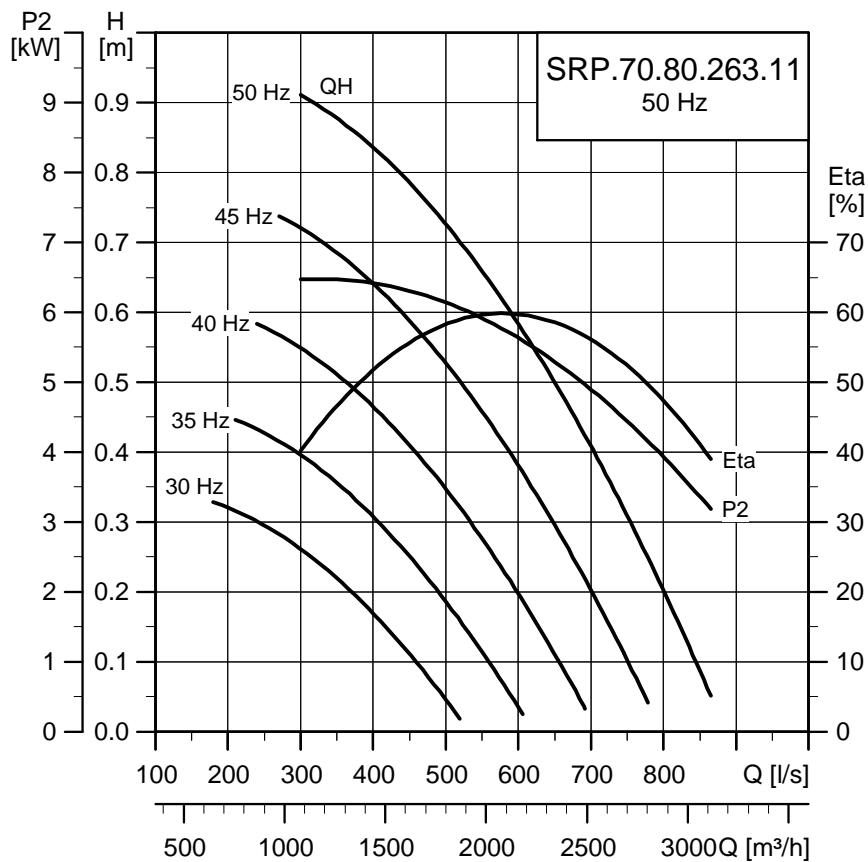
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	10	350	351
						15	353	354
						25	358	360

Performance curves



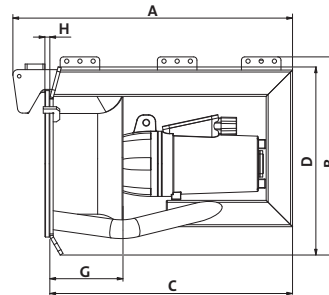
TM02 9851 5104

SRP.100.80.303.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 400 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	10 kW
I_N	24.4 A
I_{start}	259 A
Cos φ	0.68
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	303 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	10 m, 15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

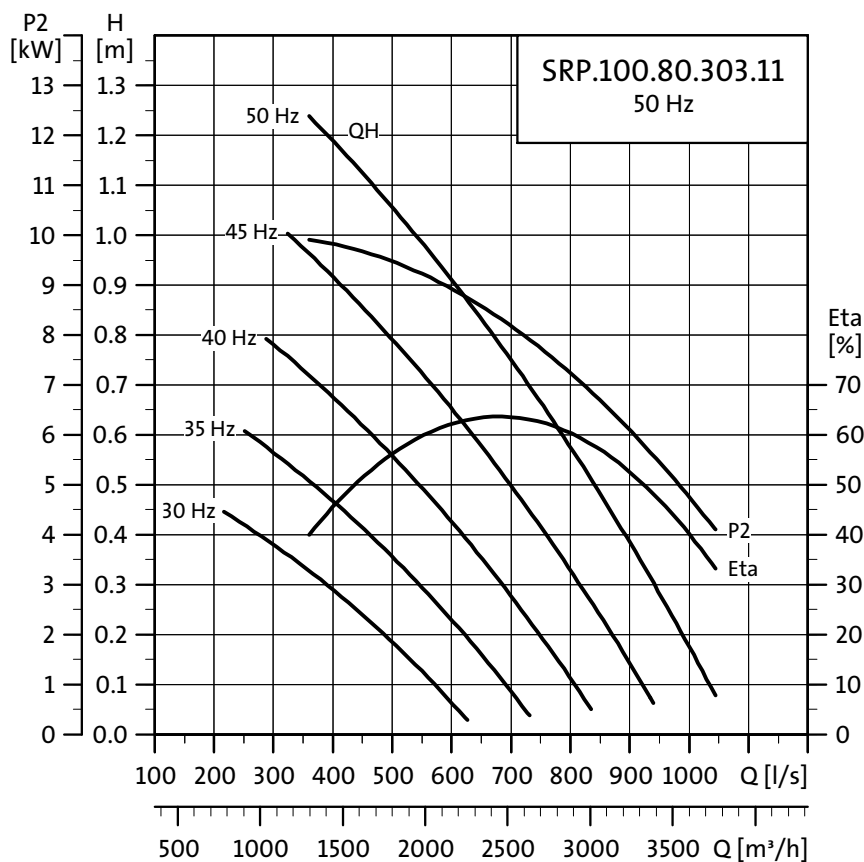
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	10	360	361
						15	363	364
						25	368	370

Performance curves



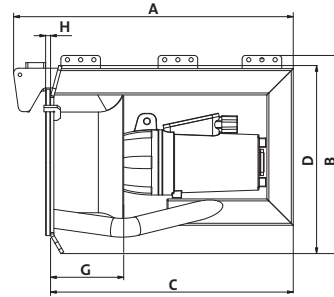
TM02 9862 5104

SRP.120.80.323.11(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		12 kW
I_N		30.3 A
I_{start}		284 A
Cos ϕ		0.64
Nominal impeller diameter		800 mm
Number of impeller blades		3
Impeller speed		323 min ⁻¹
Blade angle		11 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths		10 m, 15 m, 25 m
Cable type, standard		H07RN-F 7G4+4x1
Cable type, screened		H07RC4N8-F 7G4+4x1

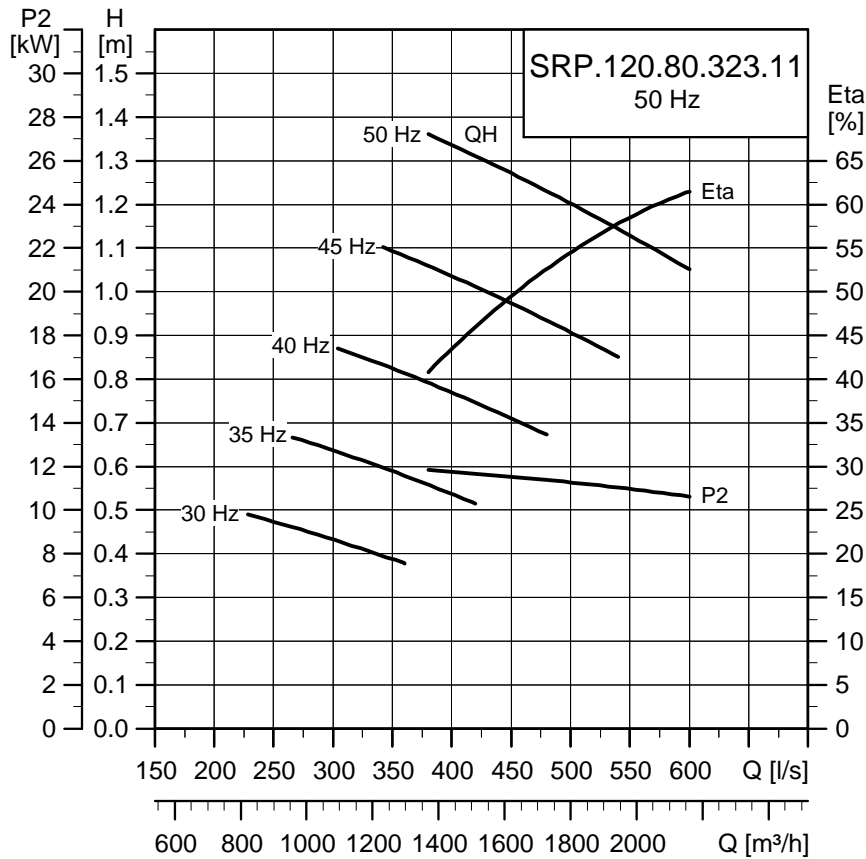
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	405	406
						15	408	409
						25	413	415

Performance curves



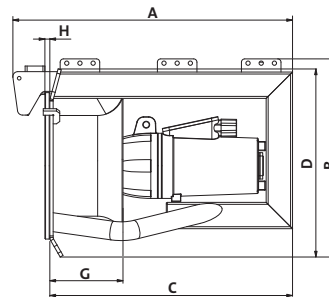
TM02 9853 5104

SRP.130.80.340.11(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation	30 to 50 Hz	
Voltage	3 x 400 V	
Voltage tolerance	± 10 %	± 5 %
Number of poles	4	
Power output, P2	13 kW	
I_N	27.8 A	
I_{start}	259 A	
$\cos \varphi$	0.77	
Nominal impeller diameter	800 mm	
Number of impeller blades	3	
Impeller speed	340 min ⁻¹	
Blade angle	11 degrees	
Enclosure class	IP68	
Maximum installation depth	20 m	
Maximum number of starts per hour	20	
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard	S1BN8-F 11G2.5	
Cable type, screened	H07RC4N8-F 7G4+4x1	

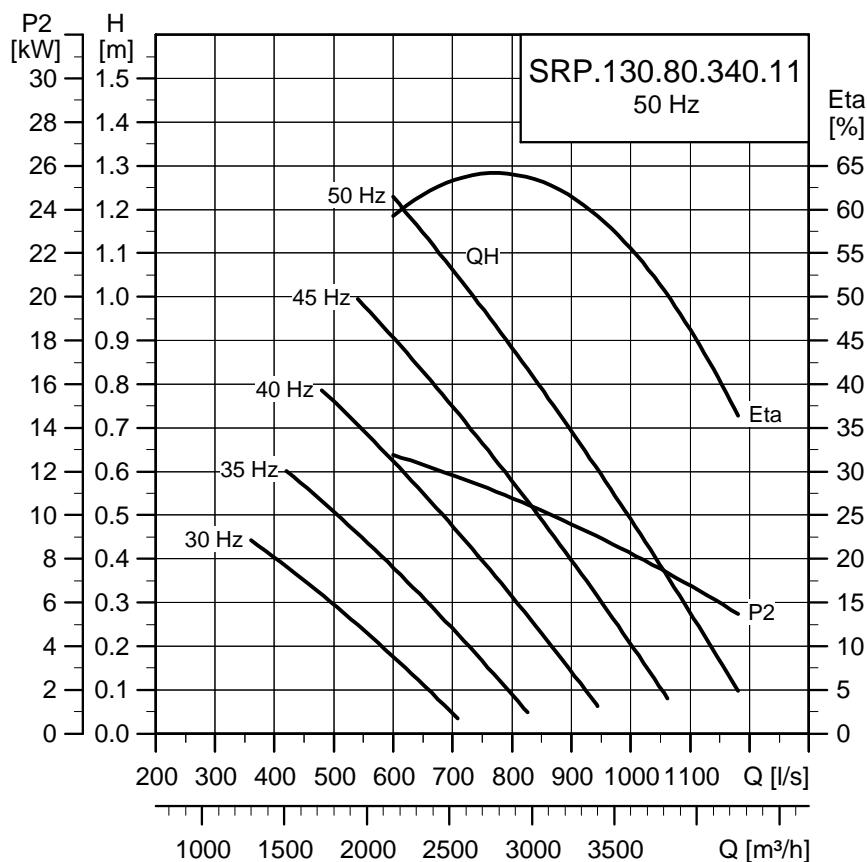
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	10	360	361
						15	363	364
						25	368	370

Performance curves



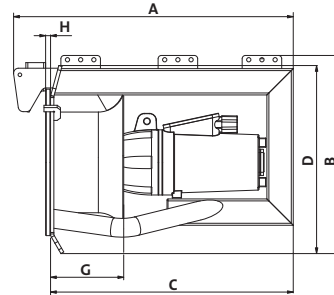
TM02 9854 5104

SRP.160.80.355.11(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		16 kW
I_N		35.7 A
I_{start}		284 A
Cos ϕ		0.72
Nominal impeller diameter		800 mm
Number of impeller blades		3
Impeller speed		355 min ⁻¹
Blade angle		11 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths		10 m, 15 m, 25 m
Cable type, standard		H07RN-F 7G4+4x1
Cable type, screened		H07RC4N8-F 7G4+4x1

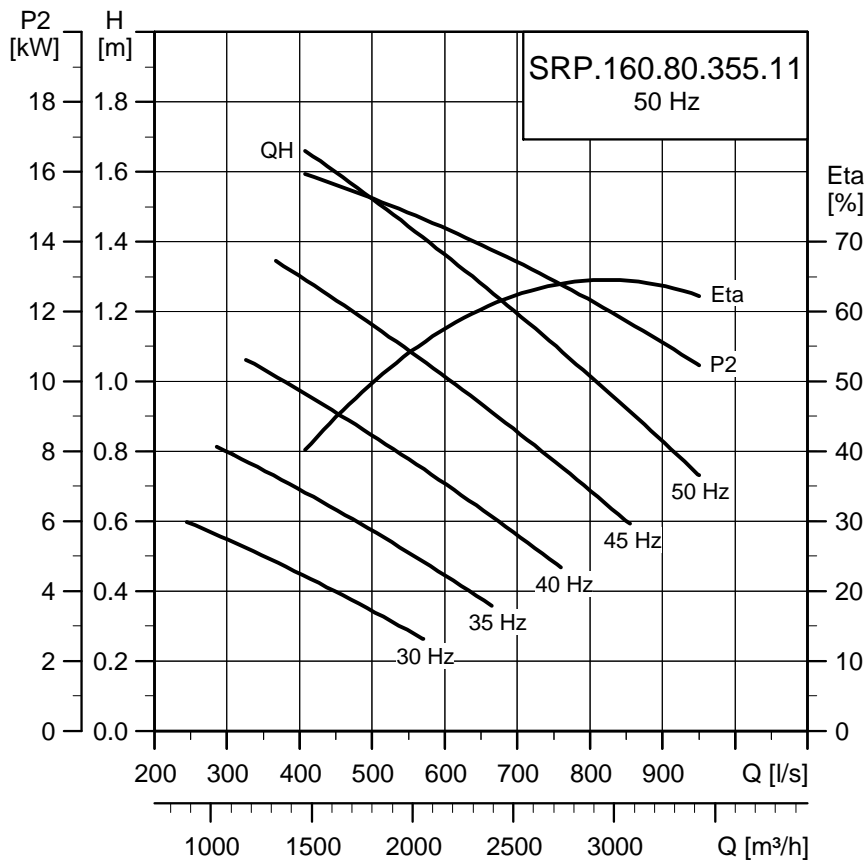
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	405	406
						15	408	409
						25	413	415

Performance curves



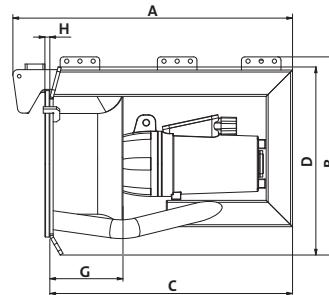
TM02 9855 5104

SRP.130.80.375.11(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		13 kW
I_N		27.8 A
I_{start}		259 A
Cos φ		0.77
Nominal impeller diameter		800 mm
Number of impeller blades		3
Impeller speed		375 min ⁻¹
Blade angle		11 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths		10 m, 15 m, 25 m
Cable type, standard		S1BN8-F 11G2.5
Cable type, screened		H07RC4N8-F 7G4+4x1

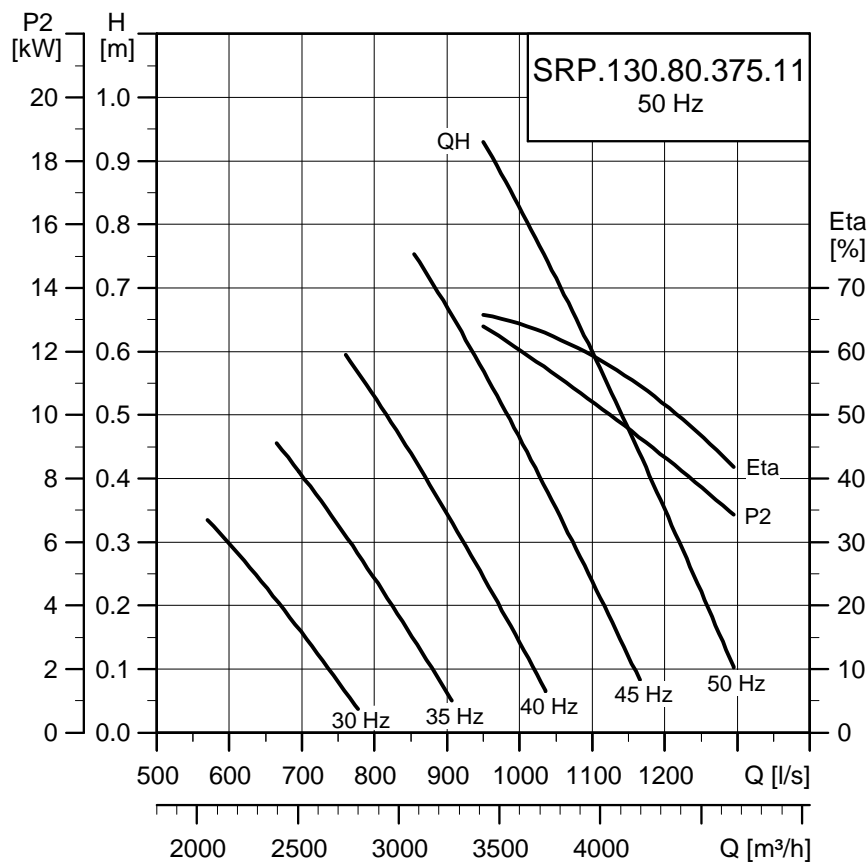
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	10	360	361
						15	363	364
						25	368	370

Performance curves



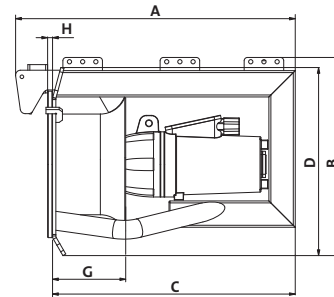
TM02 9866 5104

SRP.200.80.388.11(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		20 kW
I_N		50.3 A
I_{start}		423 A
Cos ϕ		0.64
Nominal impeller diameter		800 mm
Number of impeller blades		3
Impeller speed		388 min ⁻¹
Blade angle		11 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths		10 m, 15 m, 25 m
Cable type, standard		H07RN-F 7G4+4x1
Cable type, screened		H07RC4N8-F 7G4+4x1

Dimensions and weights

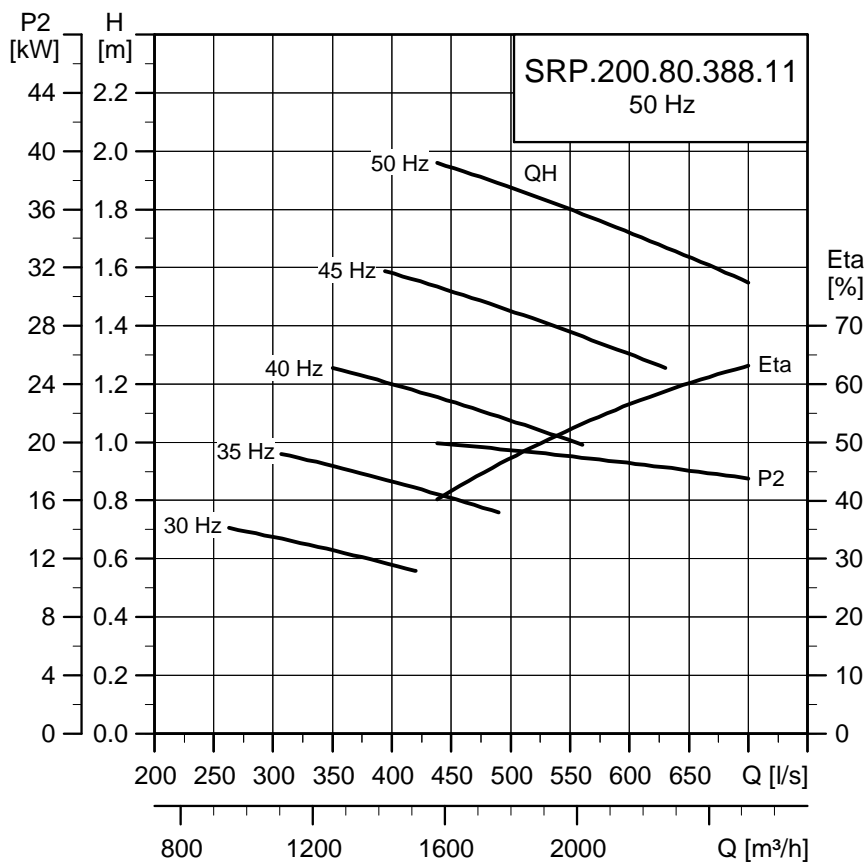


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	430	431
						15	433	434
						25	438	440

All dimensions are in mm.

Performance curves



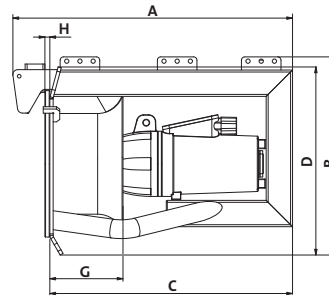
TM02 9857 5104

SRP.180.80.387.11(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		18 kW
I_N		38 A
I_{start}		284 A
$\cos \varphi$		0.76
Nominal impeller diameter		800 mm
Number of impeller blades		3
Impeller speed		387 min ⁻¹
Blade angle		11 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths		10 m, 15 m, 25 m
Cable type, standard		H07RN-F 7G4+4x1
Cable type, screened		H07RC4N8-F 7G4+4x1

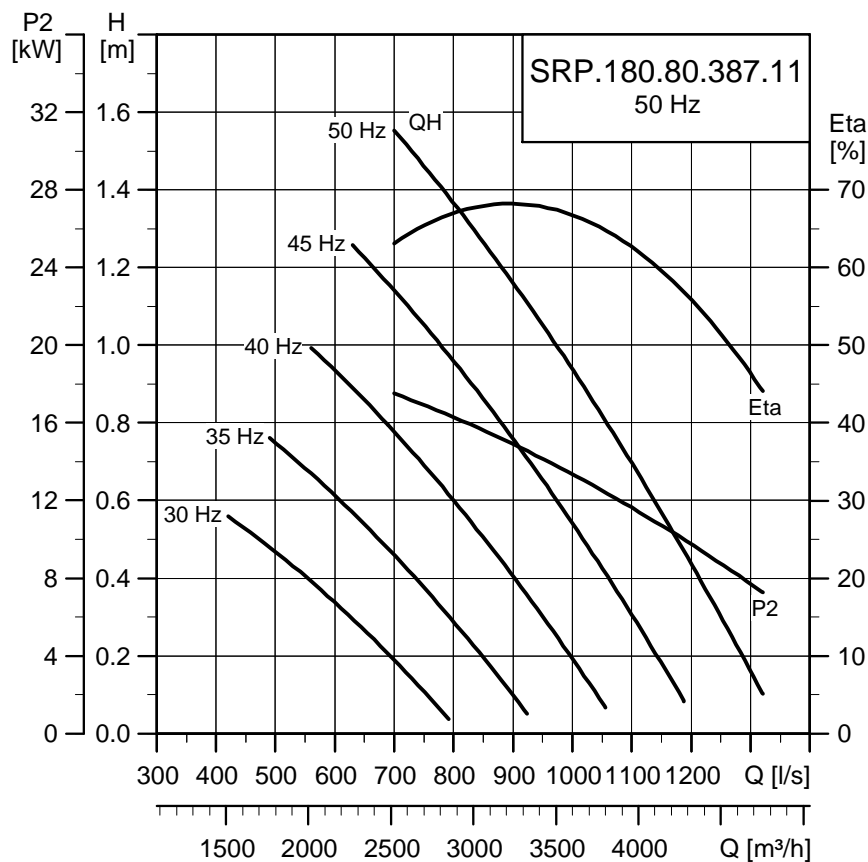
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	405	406
						15	408	409
						25	413	415

Performance curves



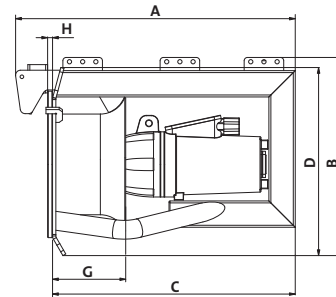
TM02 9858 5104

SRP.240.80.417.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 400 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	24 kW
I_N	55.4 A
I_{start}	423 A
Cos φ	0.70
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	417 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	10 m, 15 m, 25 m
Cable type, standard	H07RN-F 7G4+4x1
Cable type, screened	H07RC4N8-F 7G4+4x1

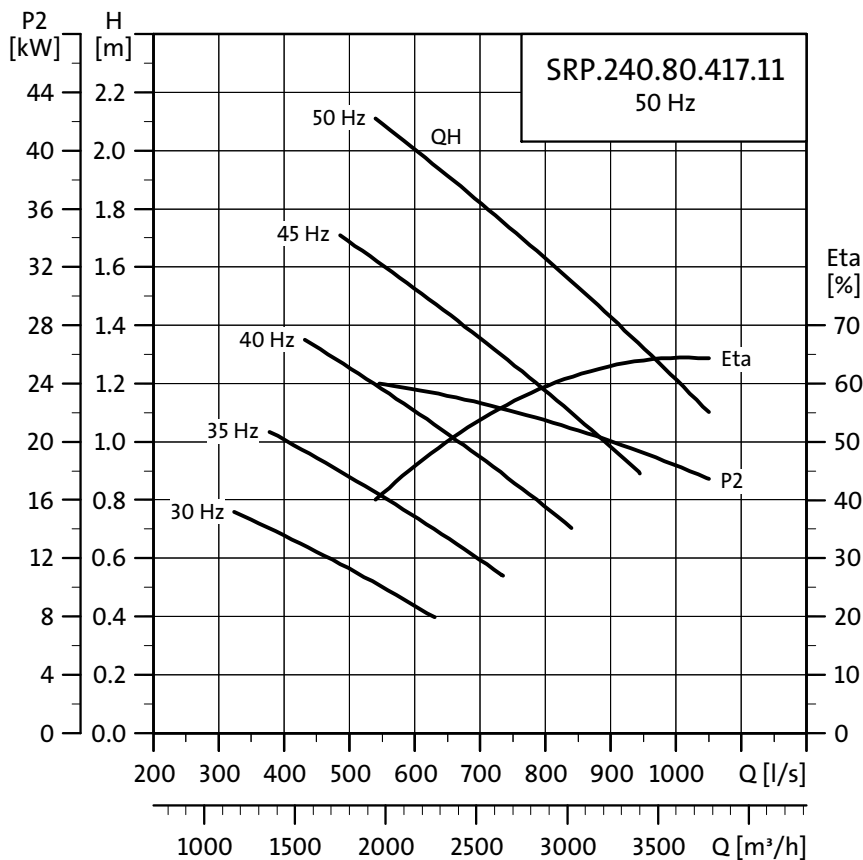
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	430	341
						15	433	434
						25	438	440

Performance curves



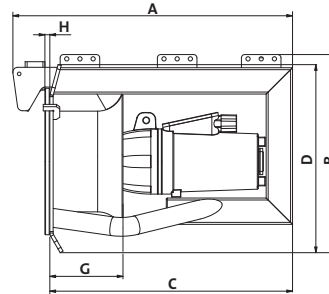
TM02 9859 5104

SRP.180.80.417.11(.Ex)

Product data

	Standard	Explosion-proof
Ex class	-	Ex e ck ib IIC T3
Continuous frequency converter operation		30 to 50 Hz
Voltage		3 x 400 V
Voltage tolerance	± 10 %	± 5 %
Number of poles		4
Power output, P2		18 kW
I_N		38 A
I_{start}		284 A
Cos φ		0.76
Nominal impeller diameter		800 mm
Number of impeller blades		3
Impeller speed		417 min ⁻¹
Blade angle		11 degrees
Enclosure class		IP68
Maximum installation depth		20 m
Maximum number of starts per hour		20
Cable lengths	10 m, 15 m, 25 m	
Cable type, standard		H07RN-F 7G4+4x1
Cable type, screened		H07RC4N8-F 7G4+4x1

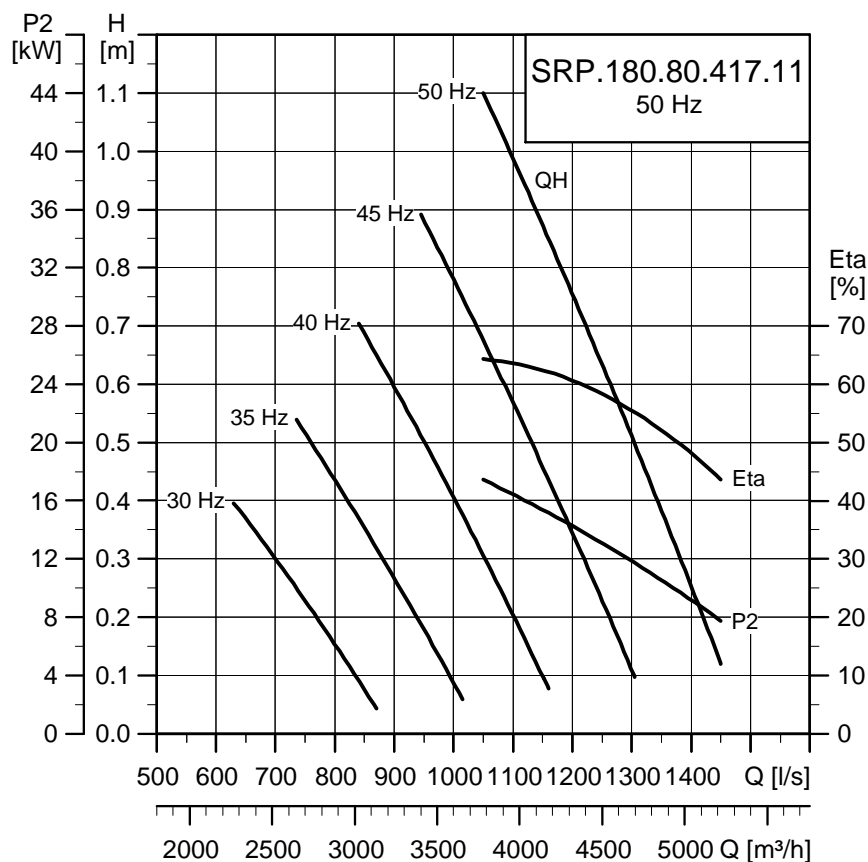
Dimensions and weights



TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	10	405	406
						15	408	409
						25	413	415

Performance curves



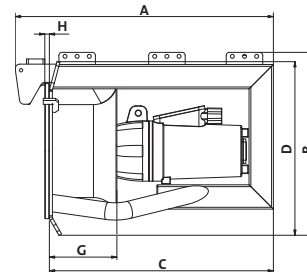
TM02 9860 5104

SRP.08.30.526.08

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	0.8 kW
I_N	2.5 A
I_{start}	24 A
Cos ϕ	0.79
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	526 min ⁻¹
Blade angle	8 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

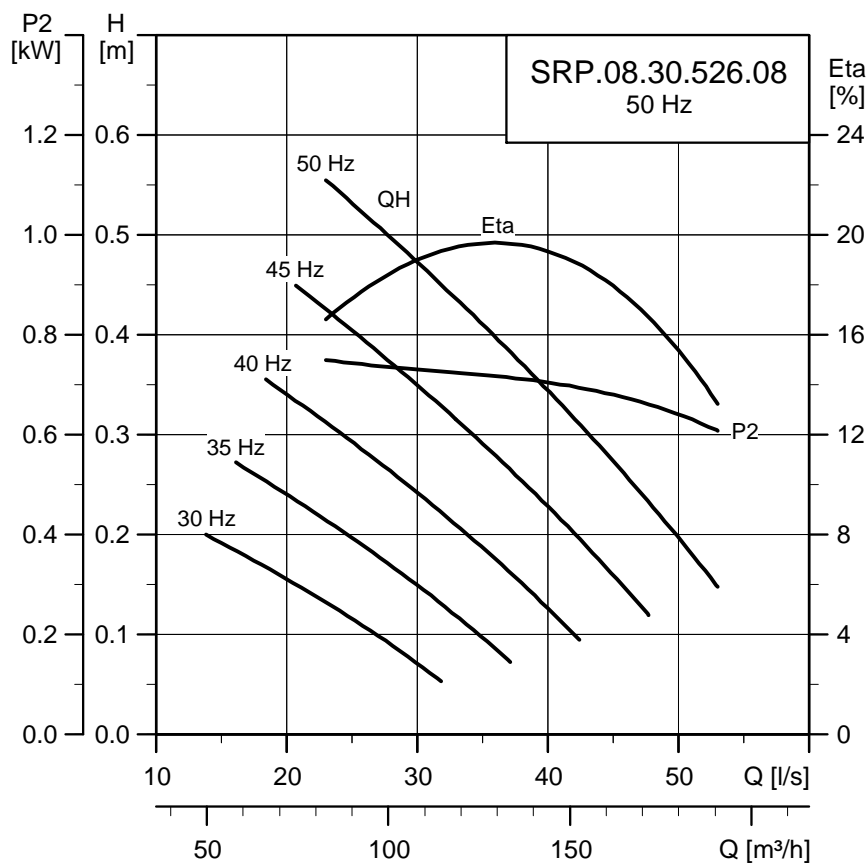


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



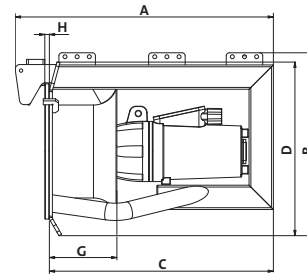
TM04 3056 3608

SRP.10.30.606.08

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	1.0 kW
I_N	2.8 A
I_{start}	24 A
Cos ϕ	0.83
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	606 min ⁻¹
Blade angle	8 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

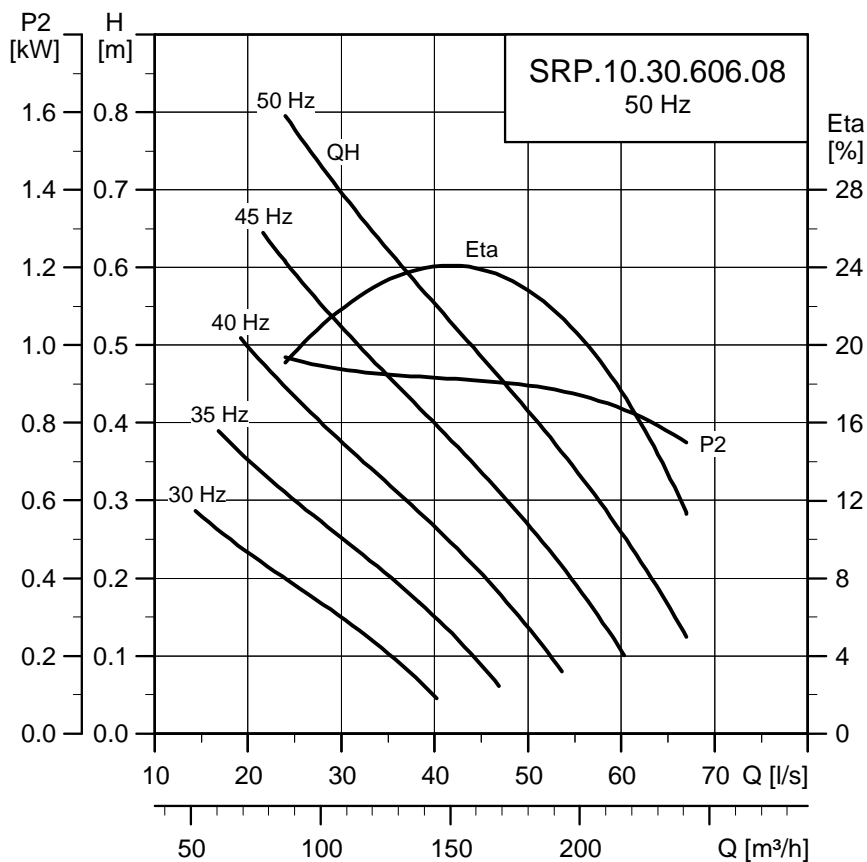


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



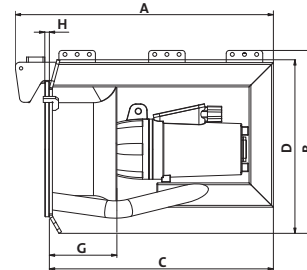
TM04 3057 3608

SRP.13.30.678.08

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	1.3 kW
I_N	3.2 A
I_{start}	24 A
Cos ϕ	0.87
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	678 min ⁻¹
Blade angle	8 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

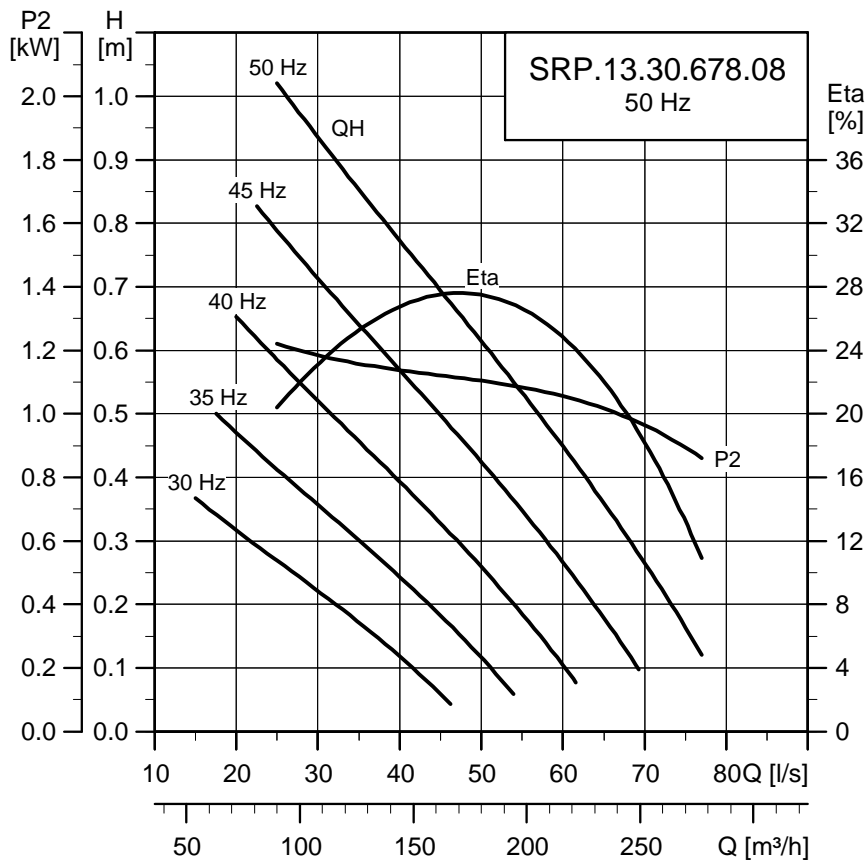


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



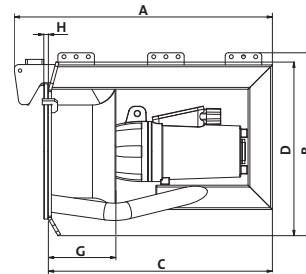
TM04 3058 3608

SRP.16.30.745.08

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	1.6 kW
I_N	3.8 A
I_{start}	24 A
Cos ϕ	0.89
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	745 min ⁻¹
Blade angle	8 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

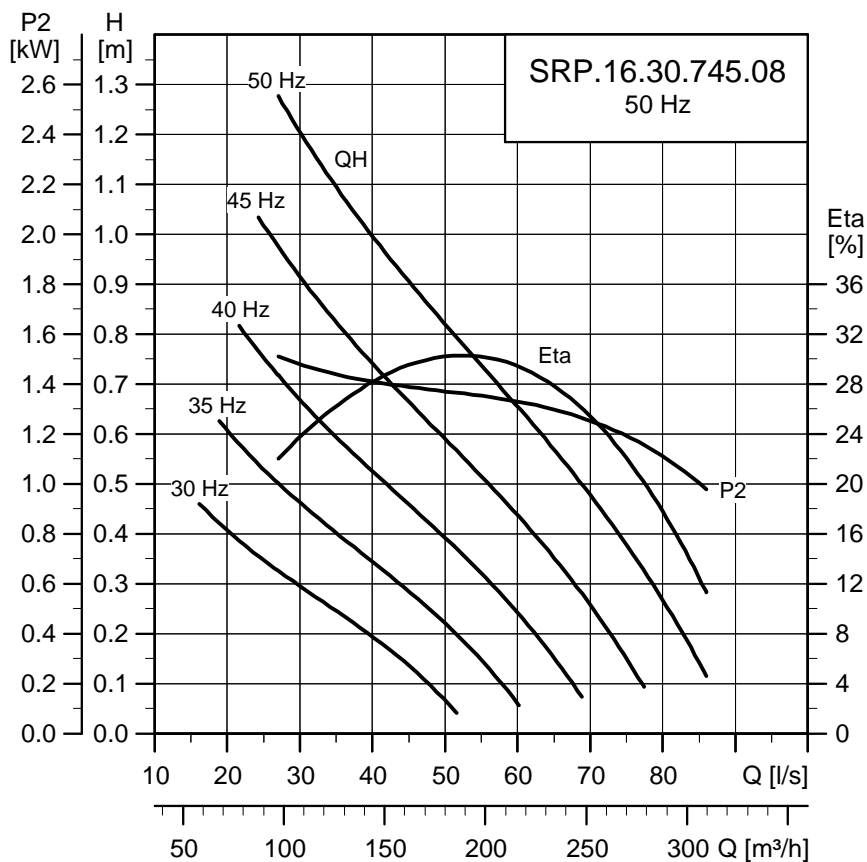


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



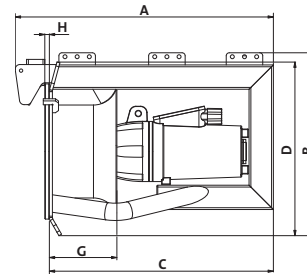
TM04 3059 3608

SRP.18.30.517.25

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	1.8 kW
I_N	4.2 A
I_{start}	24 A
Cos ϕ	0.90
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	806 min ⁻¹
Blade angle	8 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

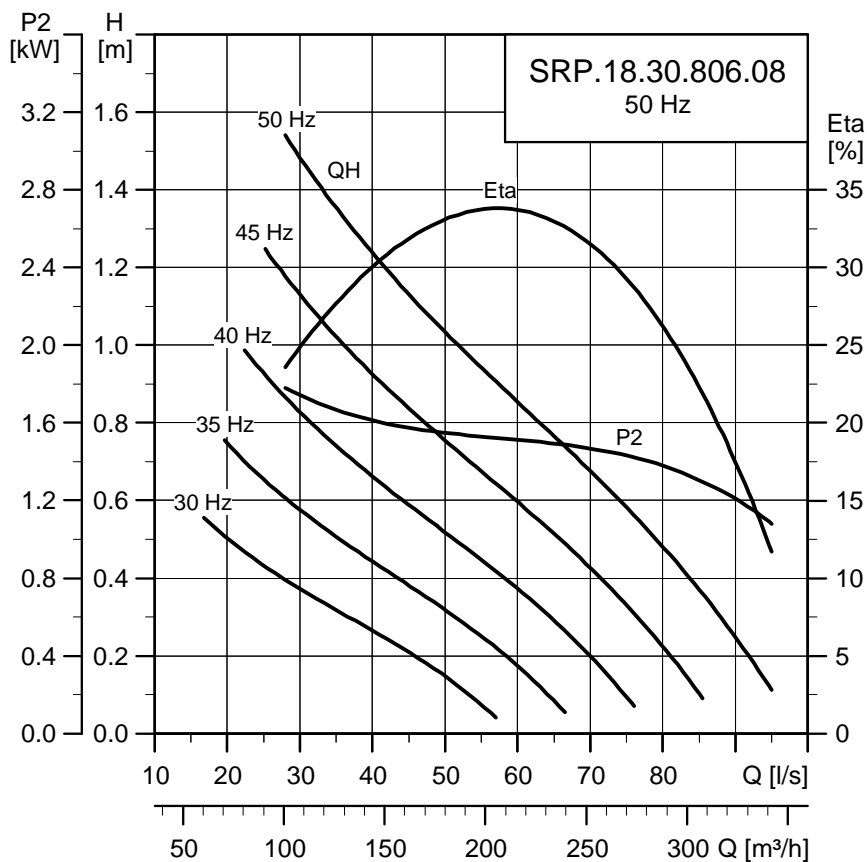


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



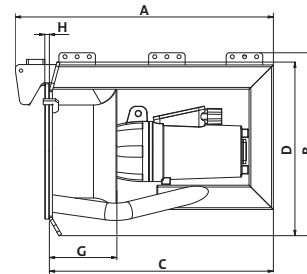
TM04 3060 3608

SRP.30.30.517.25

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	3.0 kW
I_N	6.6 A
I_{start}	56 A
Cos ϕ	0.83
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	517 min ⁻¹
Blade angle	25 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

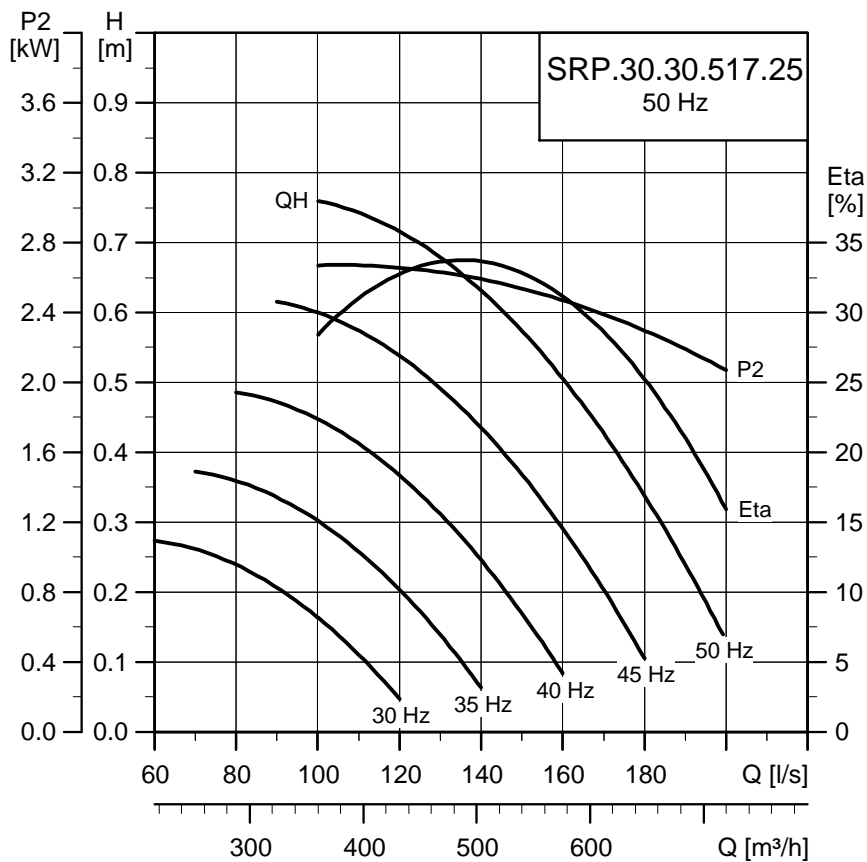


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



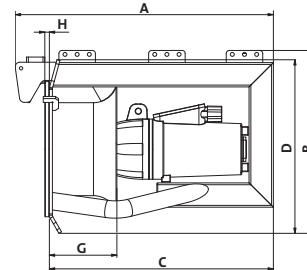
TM02 9841 5104

SRP.40.30.593.25

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	4.0 kW
I_N	8.1 A
I_{start}	56 A
Cos ϕ	0.87
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	593 min ⁻¹
Blade angle	25 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

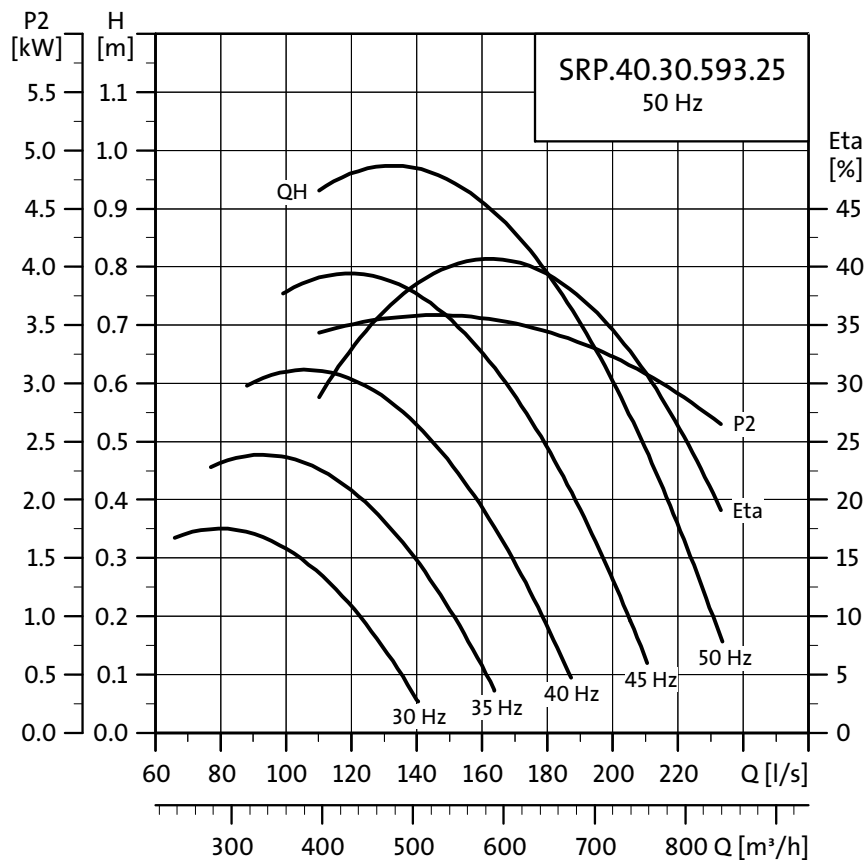


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	113	116
						25	118	125

All dimensions are in mm.

Performance curves



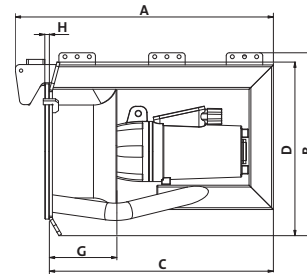
TM02 9842 5104

SRP.50.30.684.25

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	5.0 kW
I_N	12.1 A
I_{start}	116 A
Cos ϕ	0.73
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	684 min ⁻¹
Blade angle	25 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

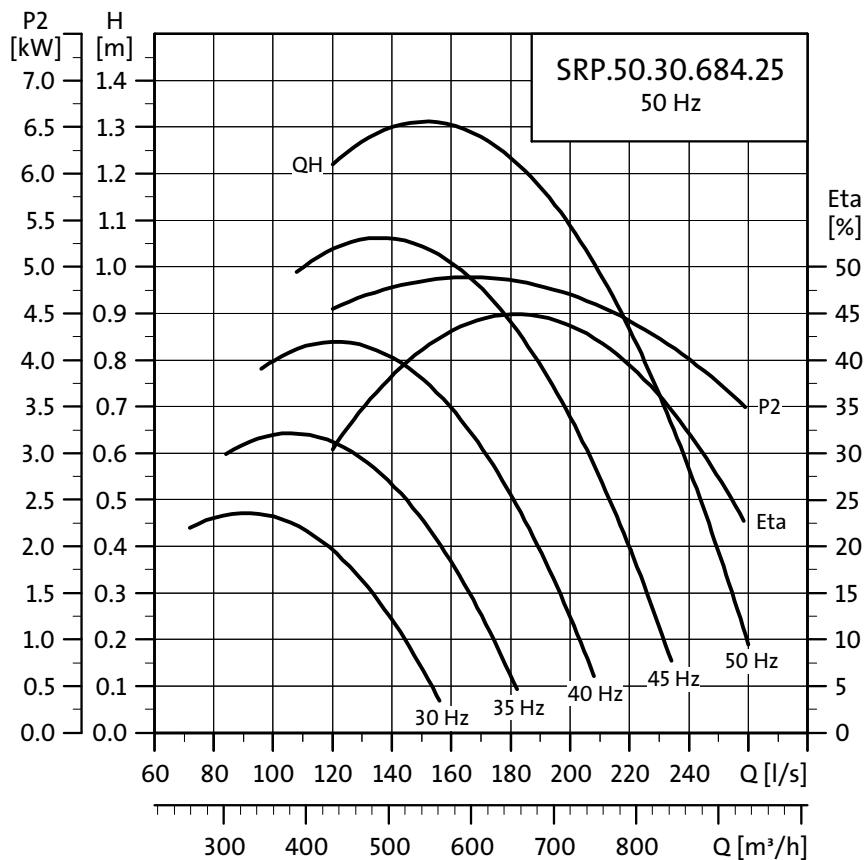


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	123	126
						25	128	135

All dimensions are in mm.

Performance curves



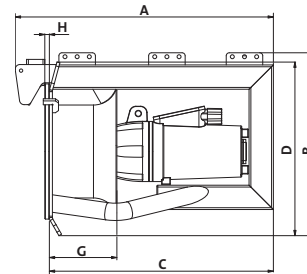
TM02 9843 5104

SRP.60.30.752.25

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	6.0 kW
I_N	13.2 A
I_{start}	116 A
Cos ϕ	0.79
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	752 min ⁻¹
Blade angle	25 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

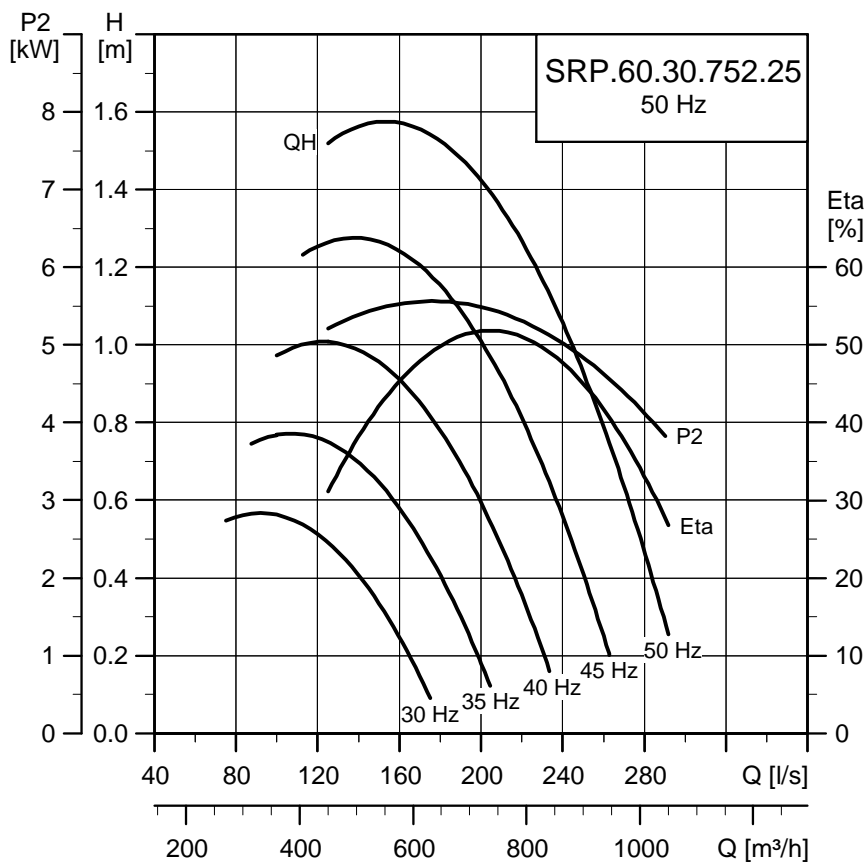


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	123	126
						25	128	135

All dimensions are in mm.

Performance curves



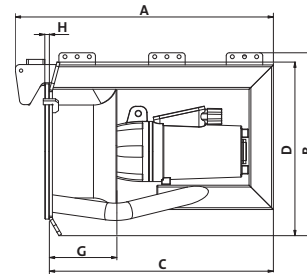
TM02 9844 5104

SRP.70.30.814.25

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	2
Power output, P2	7.0 kW
I_N	14.5 A
I_{start}	116 A
Cos ϕ	0.83
Nominal impeller diameter	300 mm
Number of impeller blades	3
Impeller speed	814 min ⁻¹
Blade angle	25 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

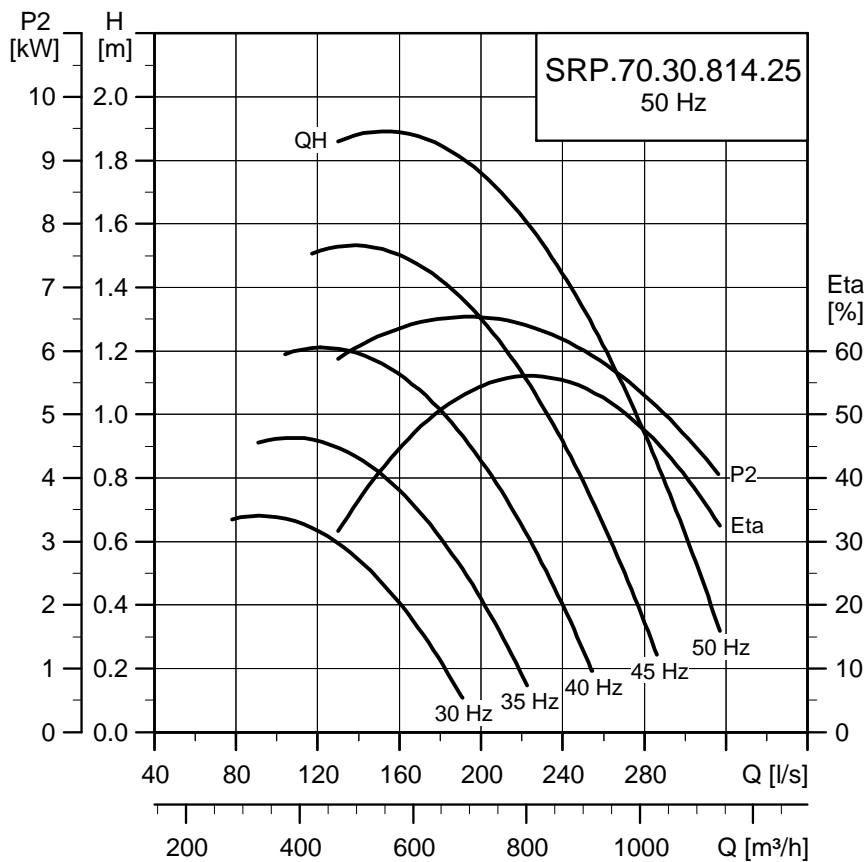


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
848	602	736	571	220	15	15	123	126
						25	128	135

All dimensions are in mm.

Performance curves



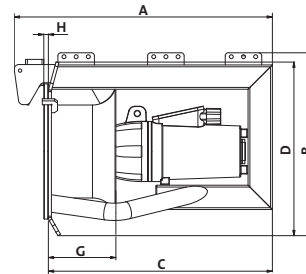
TM02 9845 5104

SRP.35.50.257.27

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	3.5 kW
I_N	9.2 A
I_{start}	68 A
Cos ϕ	0.73
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	257 min ⁻¹
Blade angle	27 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

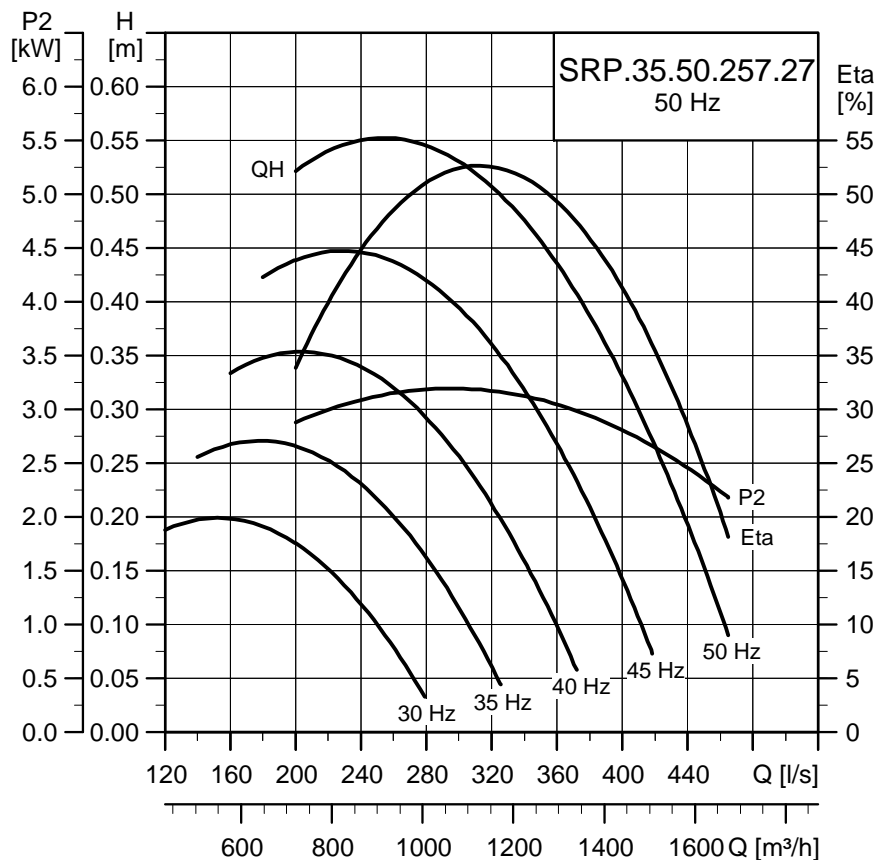


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
910	835	757	824	230	25	15	203	206
						25	208	215

All dimensions are in mm.

Performance curves



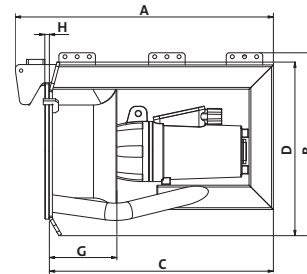
TM02 9546 5104

SRP.50.50.291.27

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	5.0 kW
I_N	11.6 A
I_{start}	68 A
Cos ϕ	0.83
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	294 min ⁻¹
Blade angle	27 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G1.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

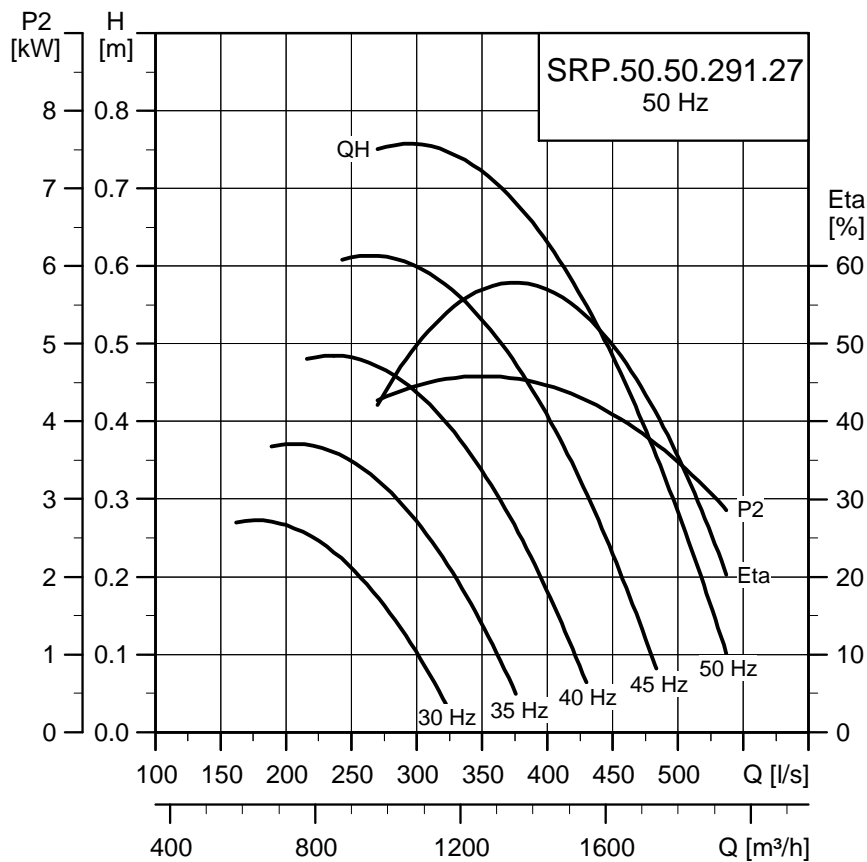


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
910	835	757	824	230	25	15	203	206
						25	208	215

All dimensions are in mm.

Performance curves



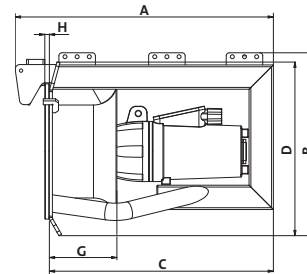
TM02 9847 5104

SRP.65.50.343.27

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	6.5 kW
I_N	16.5 A
I_{start}	165 A
Cos ϕ	0.73
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	343 min ⁻¹
Blade angle	27 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

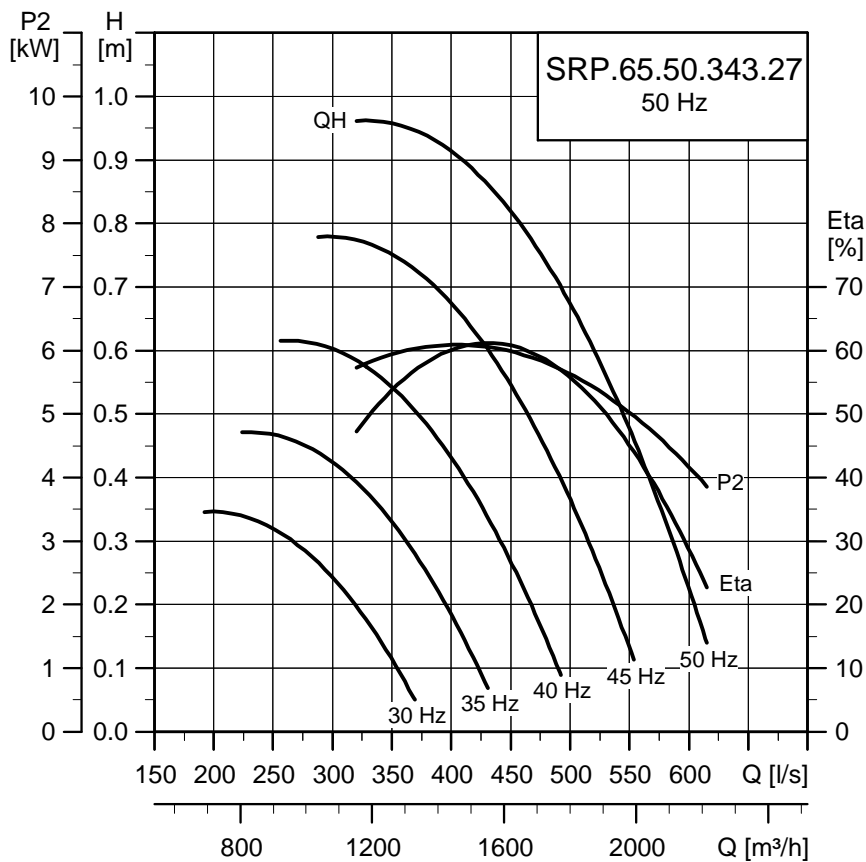


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1119	855	996	824	230	25	15	243	244
						25	248	250

All dimensions are in mm.

Performance curves



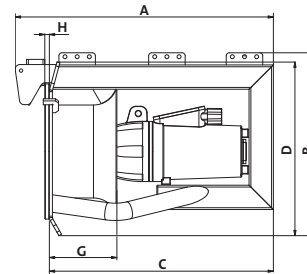
TM02 9848 5104

SRP.80.50.378.27

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	8.0 kW
I_N	18.8 A
I_{start}	165 A
Cos ϕ	0.78
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	378 min ⁻¹
Blade angle	27 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

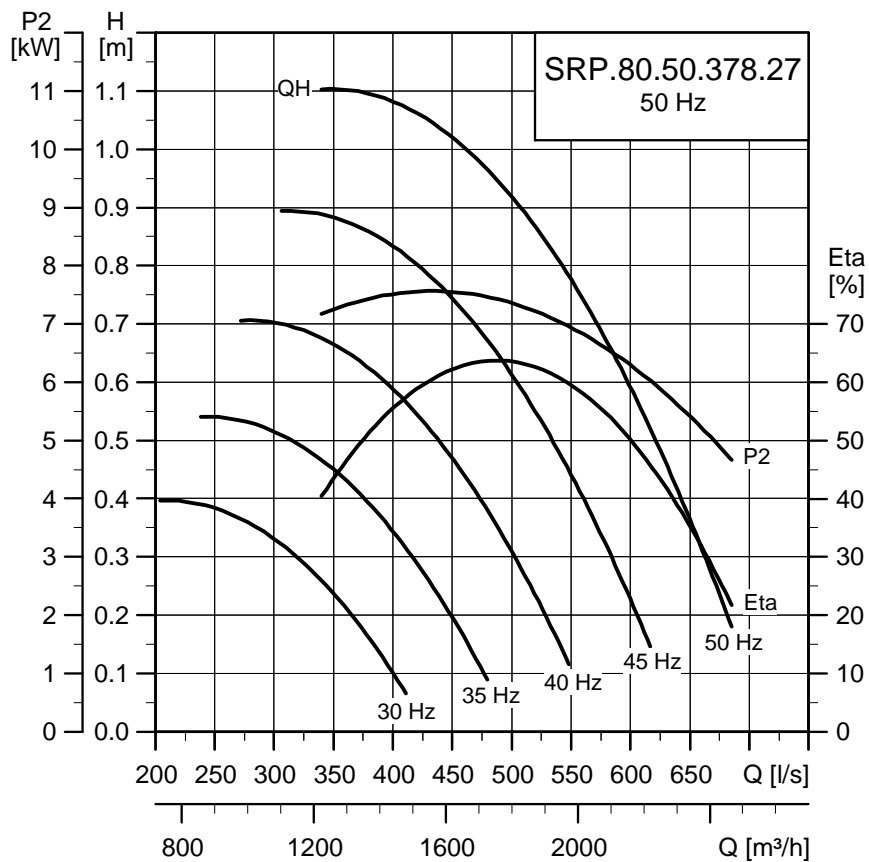


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1119	855	996	824	230	25	15	243	244
						25	248	250

All dimensions are in mm.

Performance curves



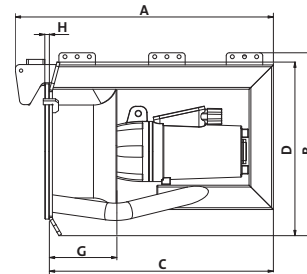
TM02 9849 5104

SRP.100.50.412.27

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	10.0 kW
I_N	22.5 A
I_{start}	215 A
Cos ϕ	0.76
Nominal impeller diameter	500 mm
Number of impeller blades	3
Impeller speed	412 min ⁻¹
Blade angle	27 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

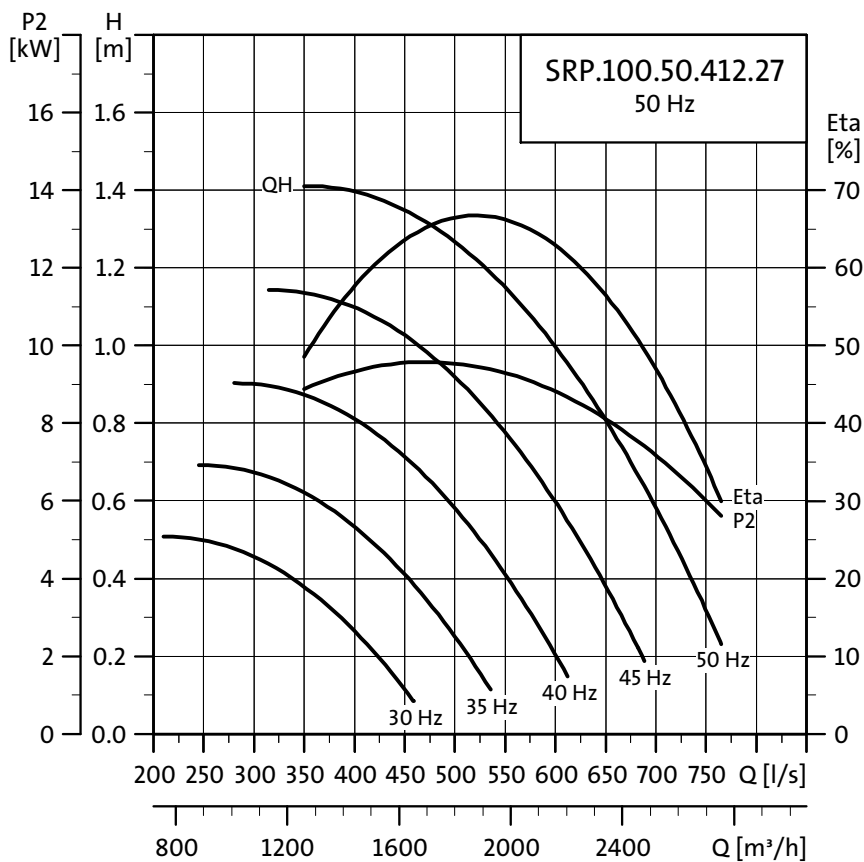


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1119	855	996	824	230	25	15	253	254
						25	258	260

All dimensions are in mm.

Performance curves



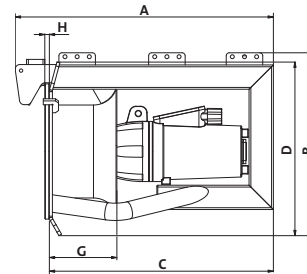
TM02 9850 5104

SRP.70.80.263.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	7.0 kW
I_N	17.2 A
I_{start}	165 A
Cos ϕ	0.75
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	263 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

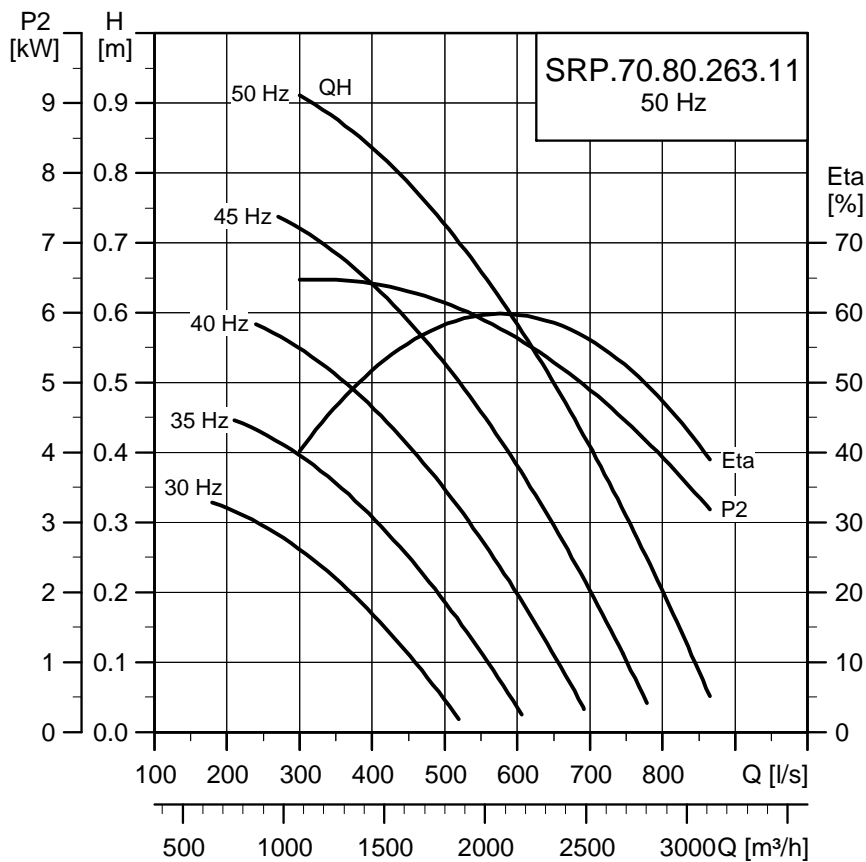


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	15	353	354
						25	358	360

All dimensions are in mm.

Performance curves



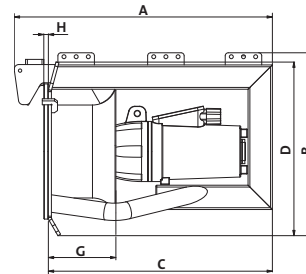
TM02 9851 5104

SRP.100.80.303.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	10.0 kW
I_N	22.5 A
I_{start}	215 A
Cos ϕ	0.76
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	303 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

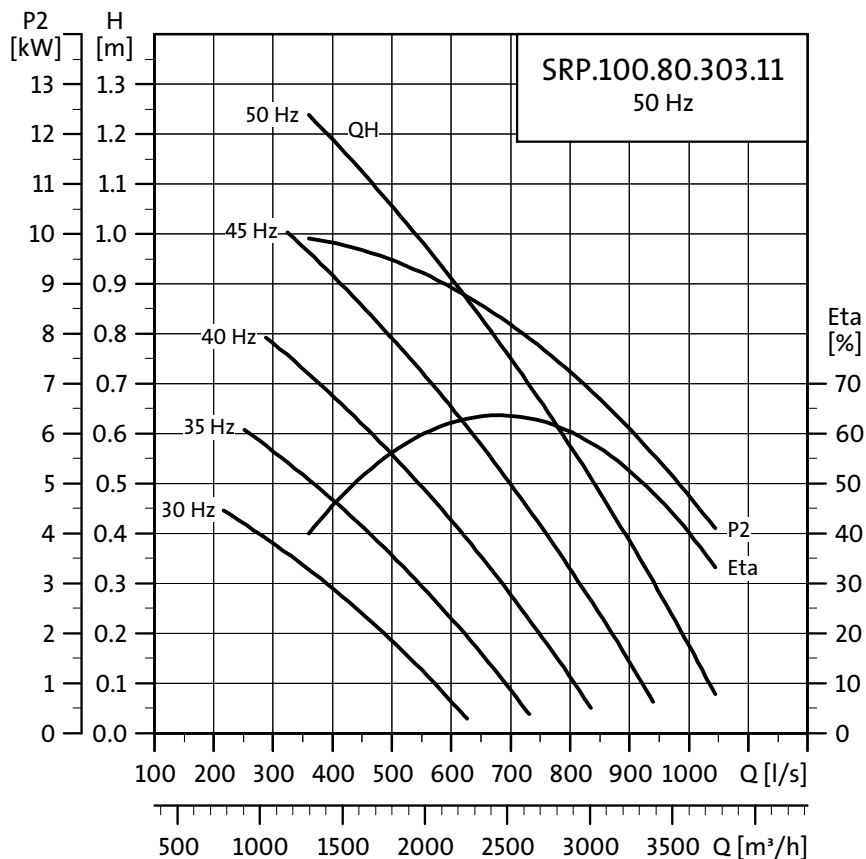


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	15	363	364
						25	368	370

All dimensions are in mm.

Performance curves



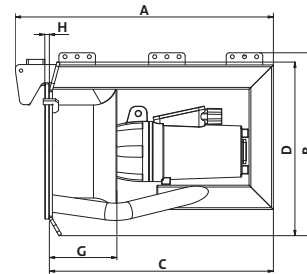
TM02 9852 5104

SRP.120.80.323.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	12.0 kW
I_N	29.3 A
I_{start}	252 A
Cos ϕ	0.68
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	323 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	H07RN-F 7G4+4x1
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

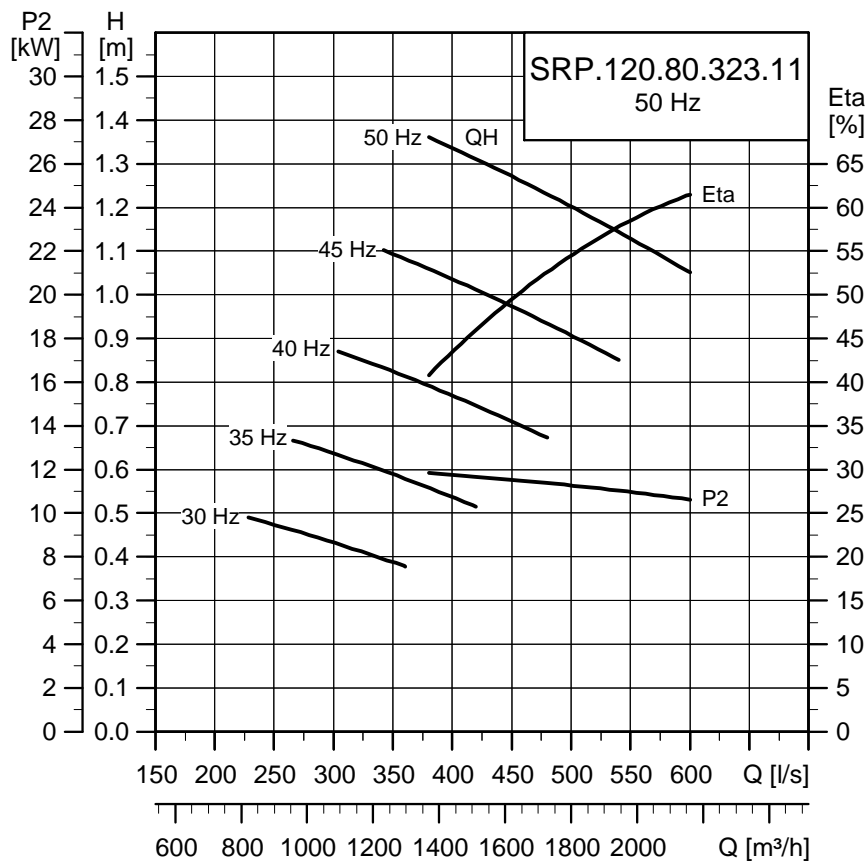


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	15	408	409
						25	413	415

All dimensions are in mm.

Performance curves



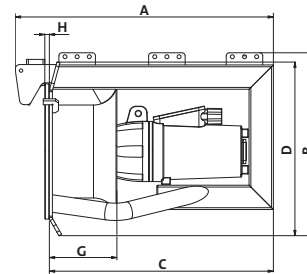
TM02 9853 5104

SRP.130.80.340.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	13.0 kW
I_N	27 A
I_{start}	215 A
Cos ϕ	0.82
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	340 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

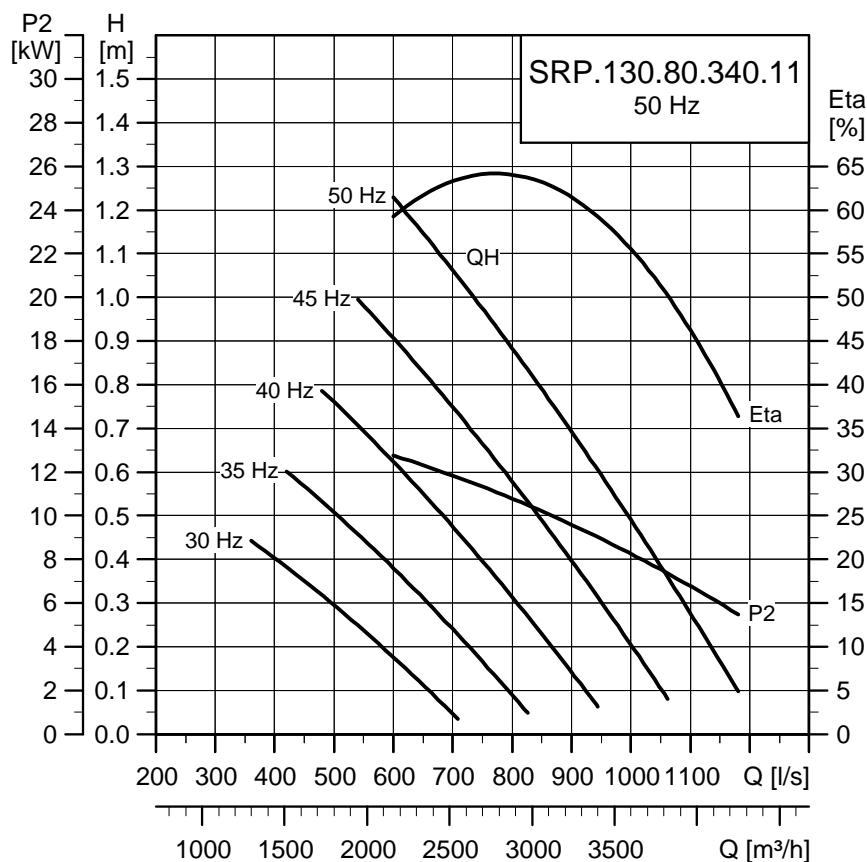


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	15	363	364
						25	368	370

All dimensions are in mm.

Performance curves



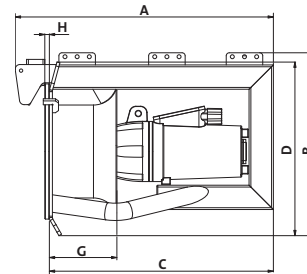
TM02 9854 5104

SRP.160.80.355.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	16.0 kW
I_N	34.9 A
I_{start}	252 A
Cos ϕ	0.75
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	355 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	H07RN-F 7G4+4x1
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

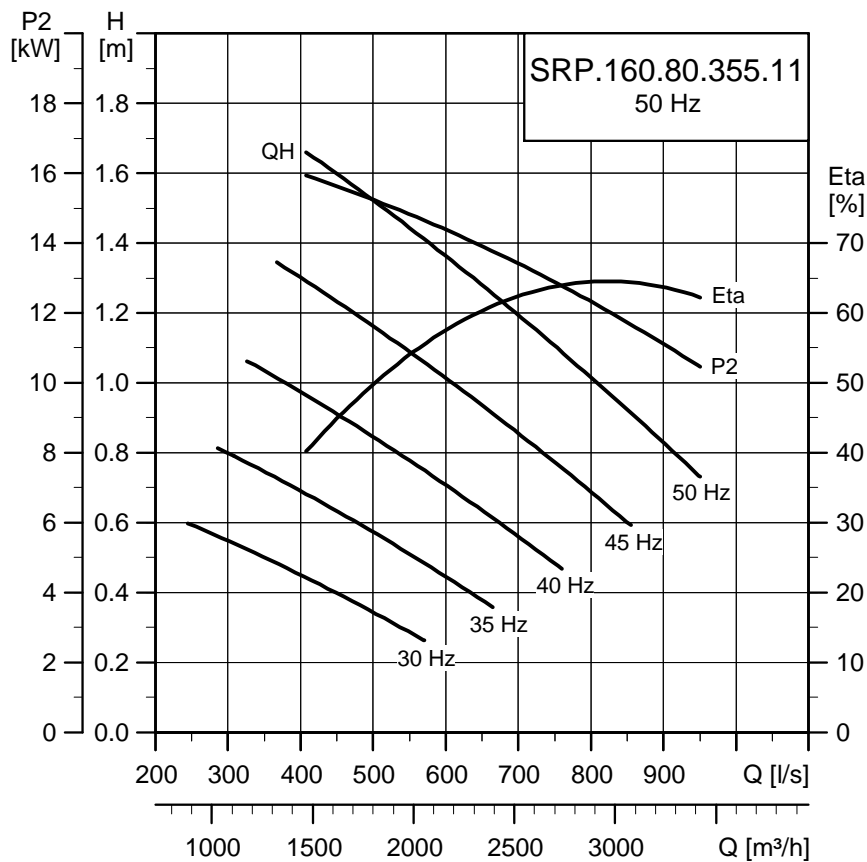


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	15	408	409
						25	413	415

All dimensions are in mm.

Performance curves



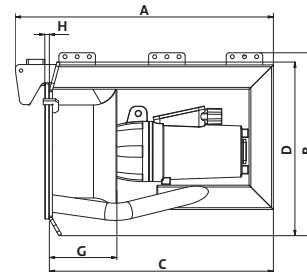
TM02 9855 5104

SRP.130.80.375.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	13.0 kW
I_N	27 A
I_{start}	215 A
Cos ϕ	0.82
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	375 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	S1BN8-F 11G2.5
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

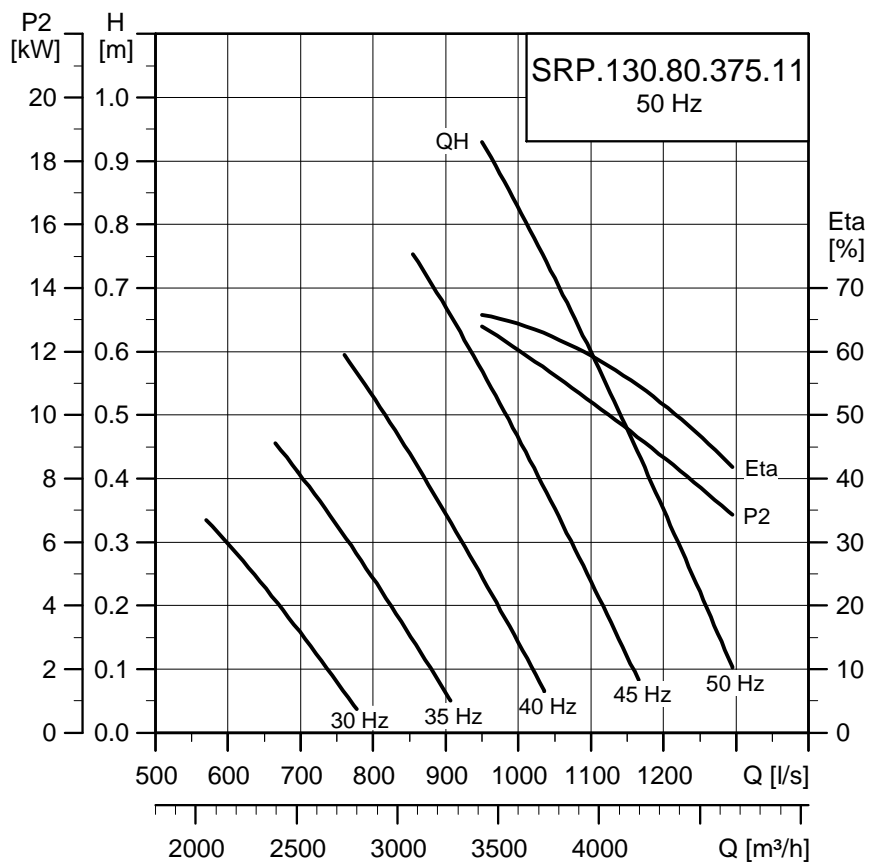


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1129	1237	1006	1225	267	25	15	363	364
						25	368	370

All dimensions are in mm.

Performance curves



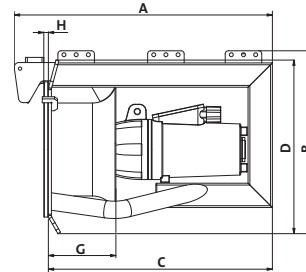
TM02 9856 5104

SRP.200.80.388.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	20.0 kW
I_N	45.5 A
I_{start}	384 A
Cos ϕ	0.74
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	388 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	H07RN-F 7G4+4x1
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

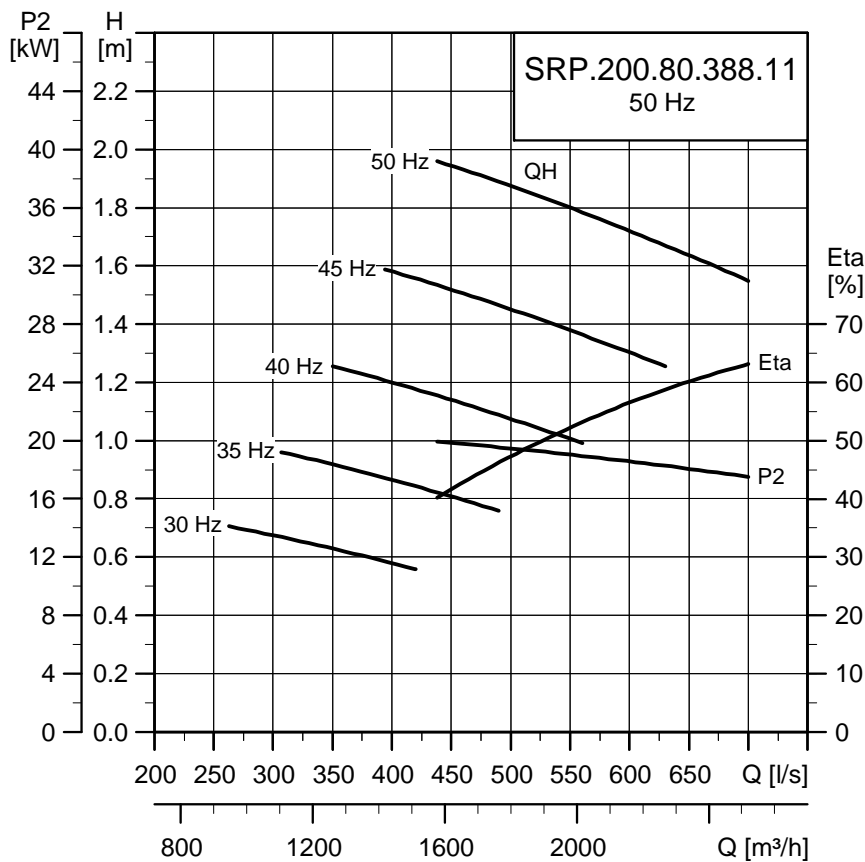


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	15	433	434
						25	438	440

All dimensions are in mm.

Performance curves



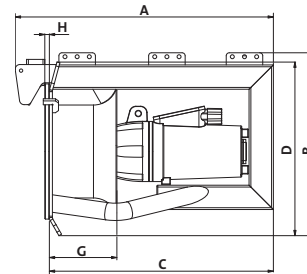
TM02 9857 5104

SRP.180.80.387.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	18.0 kW
I_N	37.5 A
I_{start}	252 A
Cos ϕ	0.78
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	387 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	H07RN-F 7G4+4x1
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

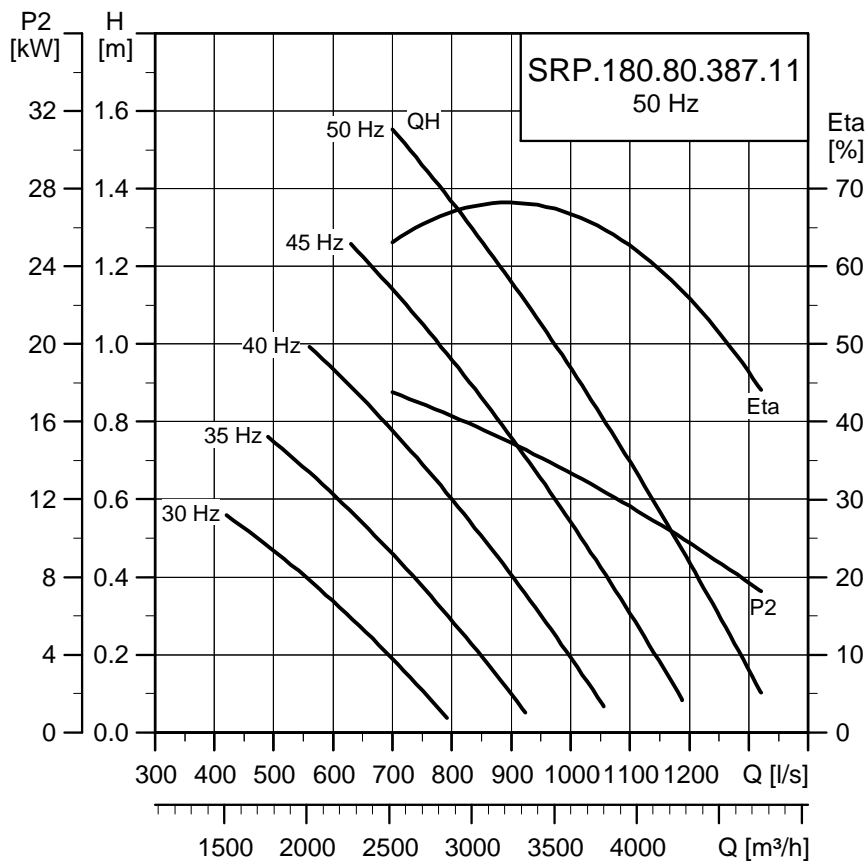


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	15	408	409
						25	413	415

All dimensions are in mm.

Performance curves



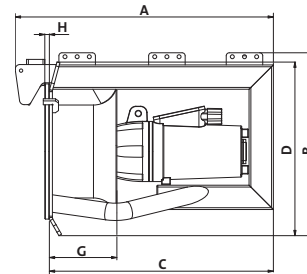
TM02 9858 5104

SRP.240.80.417.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	24.0 kW
I_N	49.5 A
I_{start}	384 A
Cos ϕ	0.78
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	417 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	H07RN-F 7G4+4x1
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

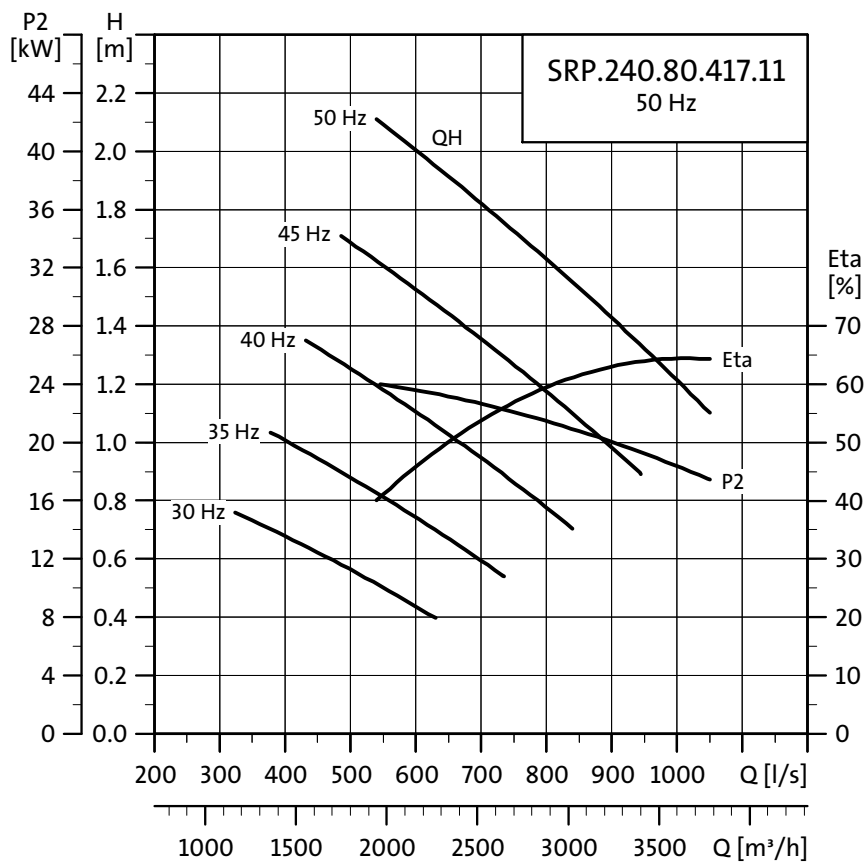


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	15	433	434
						25	438	440

All dimensions are in mm.

Performance curves



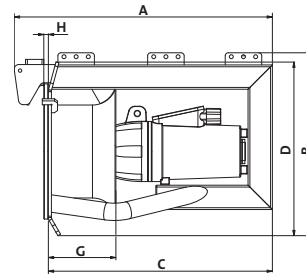
TM02 9859 5104

SRP.180.80.417.11

Product data

	Standard
Ex class	
Continuous frequency converter operation	30 to 50 Hz
Voltage	3 x 415 V
Voltage tolerance	± 10 %
Number of poles	4
Power output, P2	18.0 kW
I_N	37.5 A
I_{start}	252 A
Cos ϕ	0.78
Nominal impeller diameter	800 mm
Number of impeller blades	3
Impeller speed	417 min ⁻¹
Blade angle	11 degrees
Enclosure class	IP68
Maximum installation depth	20 m
Maximum number of starts per hour	20
Cable lengths	15 m, 25 m
Cable type, standard	H07RN-F 7G4+4x1
Cable type, screened	H07RC4N8-F 7G4+4x1

Dimensions and weights

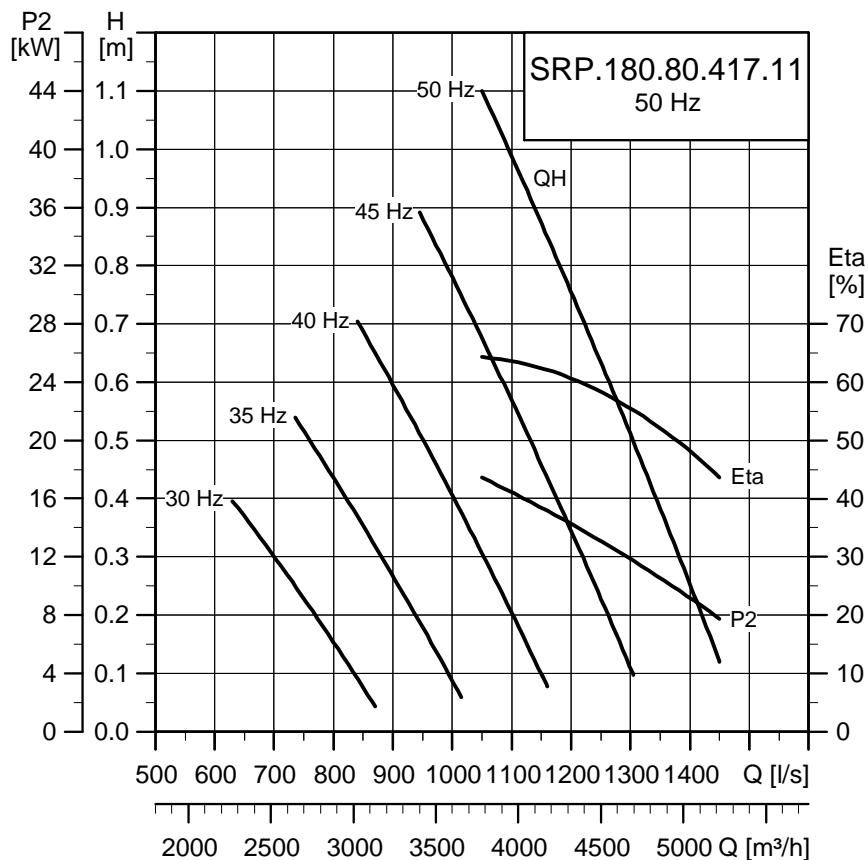


TM03 0547 0205

A	B	C	D	G	H	Cable length [m]	Weights incl. cable [kg]	
							Standard	Screened
1181	1257	1058	1225	267	25	15	408	409
						25	413	415

All dimensions are in mm.

Performance curves



TM02 9860 5104

Grundfos offers the following equipment for installation, inspection and service of submersible recirculation pumps.

The position numbers in fig. 37 refer to the *List of accessories*, page 85.:

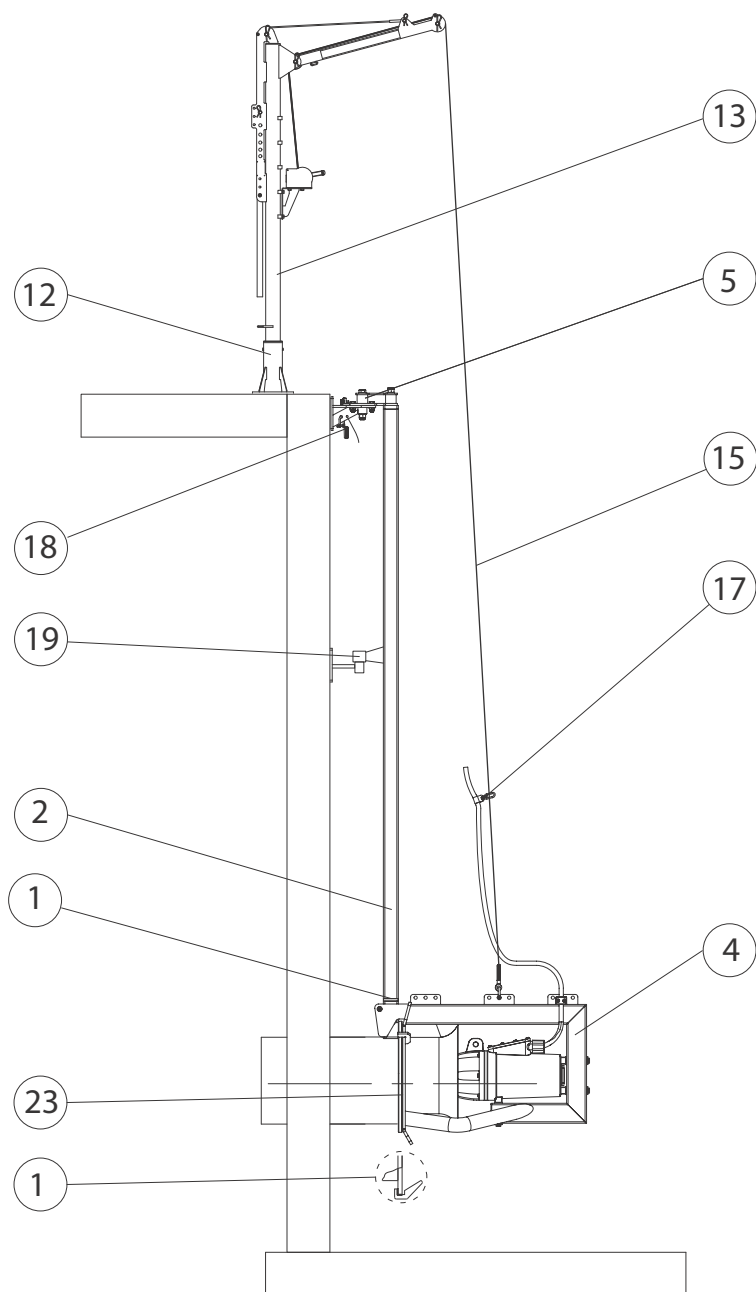


Fig. 37 SRP installation drawing

TM04 3962 0509

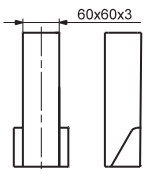
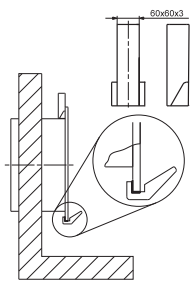
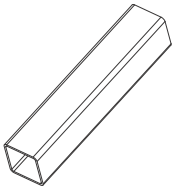
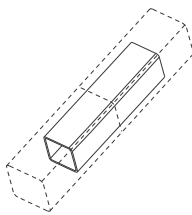
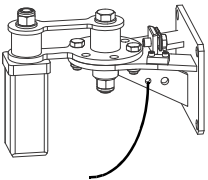
Selection guide for accessories

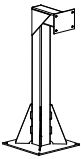
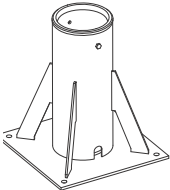
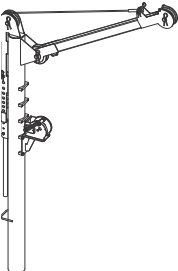
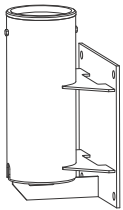
Products	Column profile ¹⁾	Crane type	Wire size	Cable clamp type
SRP.xx.30	60 x 60 x 3	M	D6 mm	D17
SRP.35.50 - SRP.50.50	60 x 60 x 3	M	D6 mm	D17
SRP.65.50 - SRP.100.50	60 x 60 x 3	L	D7 mm	D20
SRP.xx.80	60 x 60 x 3	L	D7 mm	D20

1) If the installation height exceeds 6 m, use an intermediate fixation bracket. If this is not possible, please contact Grundfos.

List of accessories

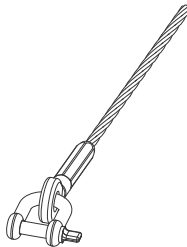

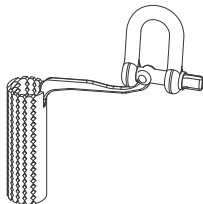
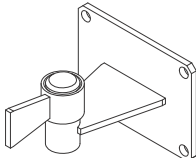
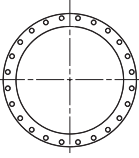

The position numbers refer to fig. 37.

Drawing	Pos. Item	Material DIN W.-Nr./AISI	Product number
	1 Bottom fixation for SRP.xx.30.xxx and SRP.xx.50.xxx	1.4301/304	96564825
		1.4404/316 L	95037581
	1 Bottom fixation for SRP.xx.80.xxx	1.4301/304	96585482
		1.4404/316 L	95037600
	2 Column profile, 60 x 60 x 3 mm, 1 m*	1.4301/304	96489420
		1.4404/316 L	96489421
	* The product numbers cover 1 m column profile. When ordering, please state the desired length.		
	Connection piece for column 60 x 60 x 3 mm, 0.20 m	1.4301/304	95037960
		1.4404/316 L	95037962
	5 Top fixation bracket complete incl. safety wire, for 60 x 60 mm column profile	1.4301/304	95037090
		1.4404/316 L	95037091

Drawing	Pos.	Item	Material DIN W.-Nr./AISI	Product number
		Support for top fixation	1.4301/304	95037404
	12	Crane foot, for 100 kg crane	1.4301/304	95036937
	12	Crane foot, for 100 kg crane	1.4404/316 L	95037665
	12	Crane foot, for 100 kg crane	Galvanised steel	95036948
	12	Crane foot, for 250 and 500 kg crane	1.4301/304	95036908
	12	Crane foot, for 250 and 500 kg crane	1.4404/316 L	95037685
	12	Crane foot, for 250 and 500 kg crane	Galvanised steel	95036894
	13	Crane with winch 6AF, 100 kg	1.4301/304	95036845
	13	Crane with winch 6AF, 100 kg	1.4404/316 L	95037640
	13	Crane with winch 6AF, 100 kg	Galvanised steel	95036930
	13	Crane with winch 8AF, 250 kg	1.4301/304	95036900
	13	Crane with winch 8AF, 250 kg	1.4404/316 L	95037670
	13	Crane with winch 8AF, 250 kg	Galvanised steel	95036874
	13	Crane with winch 12AF, 500 kg	1.4301/304	95036950
	13	Crane with winch 12AF, 500 kg	1.4404/316 L	95037700
	14	Crane foot for vertical installation, for 100 kg crane	1.4301/304	95036979
	14	Crane foot for vertical installation, for 100 kg crane	1.4404/316 L	95037695
	14	Crane foot for vertical installation, for 100 kg crane	Galvanised steel	95036995
	14	Crane foot for vertical installation, for 250 and 500 kg crane	1.4301/304	95036980
	14	Crane foot for vertical installation, for 250 and 500 kg crane	1.4404/316 L	95037710
	14	Crane foot for vertical installation, for 250 and 500 kg crane	Galvanised steel	95037000

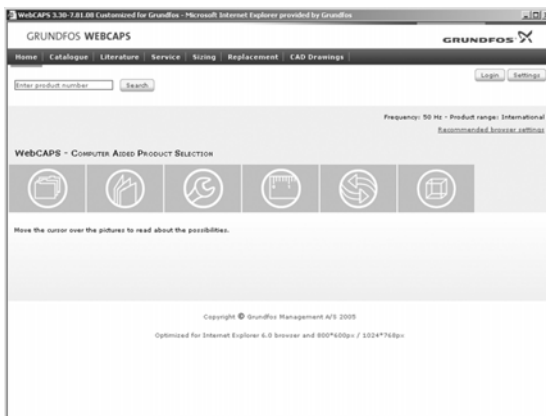
Accessories

Submersible recirculation pumps

Drawing	Pos.	Item	Material DIN W.-Nr./AISI	Product number
		Lifting wire, \varnothing 6, 10 m, easy mounting, incl. \varnothing 8 shackle and wire clamp	1.4404/316 L	95037144
	15	Lifting wire, \varnothing 6, 15 m, easy mounting, incl. \varnothing 8 shackle and wire clamp	1.4404/316 L	95037145
		Lifting wire, \varnothing 7, 10 m, easy mounting, incl. \varnothing 10 shackle and wire clamp	1.4404/316 L	95037146
		Lifting wire, \varnothing 7, 15 m, easy mounting, incl. \varnothing 10 shackle and wire clamp	1.4404/316 L	95037147
	17	Cable clamp, D17	1.4404/316 L	96494352
		Cable clamp, D20	1.4404/316 L	96494354
	18	Cable sock, incl. shackle, \varnothing 10	Synthetic material, 1.4404/316 L	95037141
	19	Intermediate fixation bracket complete, for all profile sizes longer than 6 m	1.4301/304	95037148
			1.4404/316 L	95037149
	23	Connection flange, DN 500	1.4301/304	96564826
			1.4404/316 L	95011105
			1.4301/304	96564827
			1.4404/316 L	95011106
			1.4301/304	96564828
			1.4404/316 L	95011107
		ALR-20/A relay for leak sensor, 230 V		96489569
		Anchor bolt, M12 x 160 (1 x anchor, 1 x nut, 1 x washer, 1 x spring washer, 1 x glue cartridge)	1.4404/316 L	95036113
		Anchor bolt, M16 x 190 (1 x anchor, 1 x nut, 1 x washer, 1 x spring washer, 1 x glue cartridge)	1.4404/316 L	95037179

Drawing	Pos. Item	Material DIN W.-Nr./AISI	Product number
	Vortex shield for SRP.xx.30.	1.4301/304	96564832
		1.4404/316 L	95037601
	Vortex shield for SRP.xx.50.	1.4301/304	96564833
		1.4404/316 L	95037602
	Vortex shield for SRP.xx.80.	1.4301/304	96564834
		1.4404/316 L	95037603

WebCAPS

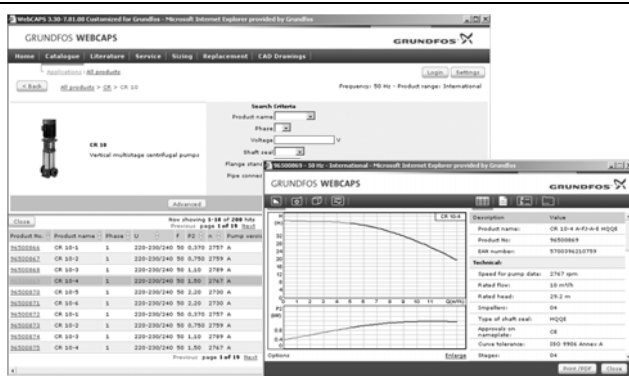


WebCAPS is a **Web-based Computer Aided Product Selection** program available on www.grundfos.com.

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:

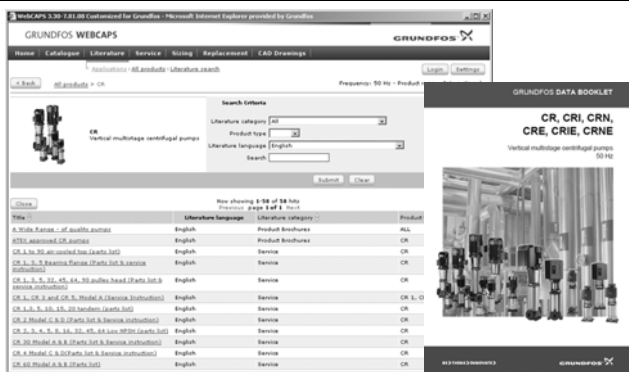
- Catalogue
- Literature
- Service
- Sizing
- Replacement
- CAD drawings.



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.



Sizing

This section is based on different fields of application and installation examples, and gives easy step-by-step instructions in how to

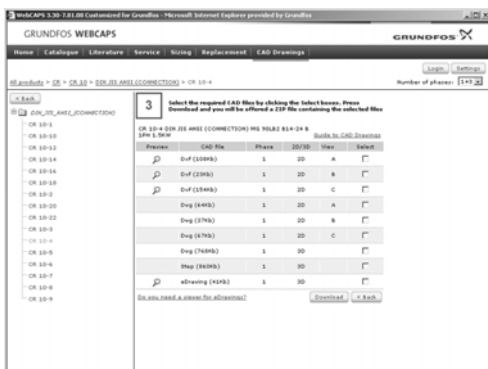
- select the most suitable and efficient pump for your installation
- carry out advanced calculations based on energy consumption, payback periods, load profiles, life cycle costs, etc.
- analyse your selected pump via the built-in life cycle cost tool
- determine the flow velocity in wastewater applications, 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. 38 WinCAPS CD-ROM

WinCAPS is a **Windows-based Computer Aided Product Selection** 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.

Subject to alterations.

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Repl. 96870002 0209

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ECM: 1068724

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