

SLV.65.65.09.Ex.2.1.502

Grundfos pump 96115120



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<https://www.lenntech.com/grundfos/SLV000/96115120/SLV-65-65-09-EX-2-1-502.html>

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Position	Qty.	Description
	1	SLV.65.65.09.EX.2.1.502  Product No.: On request Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage. The pump is designed for intermittent and continuous operations in submerged installation. The efficient SuperVortex impeller provides passage of long fibres and solids up to 65 mm and is suitable for wastewater with a dry matter content of up to 5 %. A unique stainless-steel clamp assembling system enables quick and easy disassembly of the pump from the motor unit for service and inspection. No special tools are required. Pipework connection is via a DIN flange. The pump is explosion-proof. Further product details Typical application is transfer of liquid, such as: - large quantities of drainage and surface water - domestic wastewater with discharge from toilets - wastewater from commercial buildings without discharge from toilets - sludge-containing industrial wastewater. The pump is ideal for pumping of the above liquids from for instance: - municipal network pumping stations - public buildings - blocks of flats - factories/industry. The pump is suitable for both temporary and permanent installation either as free-standing on ring stand or on an auto-coupling system. Pump The pump housing, motor top and impeller are made of cast iron (EN-GJL-250). The SuperVortex impeller is a symmetrical multivane winglet impeller. The design ensures a flow entirely outside the impeller providing limited contact between the impeller and the pumped liquid. This ensures that long fibres, rags and more passes freely through the pump without getting caught and without causing clogging or jamming.  The shaft seal consists of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seals are incorporated in a single-unit cartridge shaft seal system that is easy to replace in the field without use of special tools. The combination of the primary and secondary seals in a cartridge shaft seal system results in a shorter assembly length compared to conventional shaft seals. - Primary seal: Silicon carbide/silicon carbide (SiC/SiC) - Secondary seal: Carbon/Ceramics The shaft seal is bidirectional, meaning it operates correctly in case of backflow through the pump.



The pump is approved according to CE 0344-Ex-II26.

Motor

The motor is a watertight, totally encapsulated motor supplied with a 10 m power cable. The stainless steel plug is fastened with a union nut. This nut and the O-rings provide sealing against ingress of the liquid.

The plug is polyurethane-embedded, ensuring a watertight and durable seal around the leads of the cable. This prevents the ingress of water into the motor through the cable in case of cable breakage or adverse handling in connection with installation or service.

A compact motor construction with a short shaft reduces vibrations, resulting in an increased efficiency and lifetime of the shaft seal and ball bearings.

The motor features built-in thermal protection to protect the motor against overheating and ensure the reliability.

The pump is designed for speed-controlled operation to keep the energy consumption at a minimum. To avoid the risk of sedimentation in the pipes, we recommend that you operate the speed-controlled pump within a speed range of 30 % to 100 % and at a flow rate above 1 m/s.

Controls:

Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor

Liquid:

Maximum liquid temperature:	40 °C
Density:	998.2 kg/m ³

Technical:

Type of impeller:	SUPER VORTEX
Maximum particle size:	65 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	LIPSEAL
Approvals on nameplate:	CE 0344-Ex-II26
Curve tolerance:	ISO9906:2012 3B2

Materials:

Pump housing:	EN-GJL-200 EN-GJL-200
Impeller:	EN-GJS-500-7 EN-GJS-500-7
Motor:	EN-GJL-200

Installation:

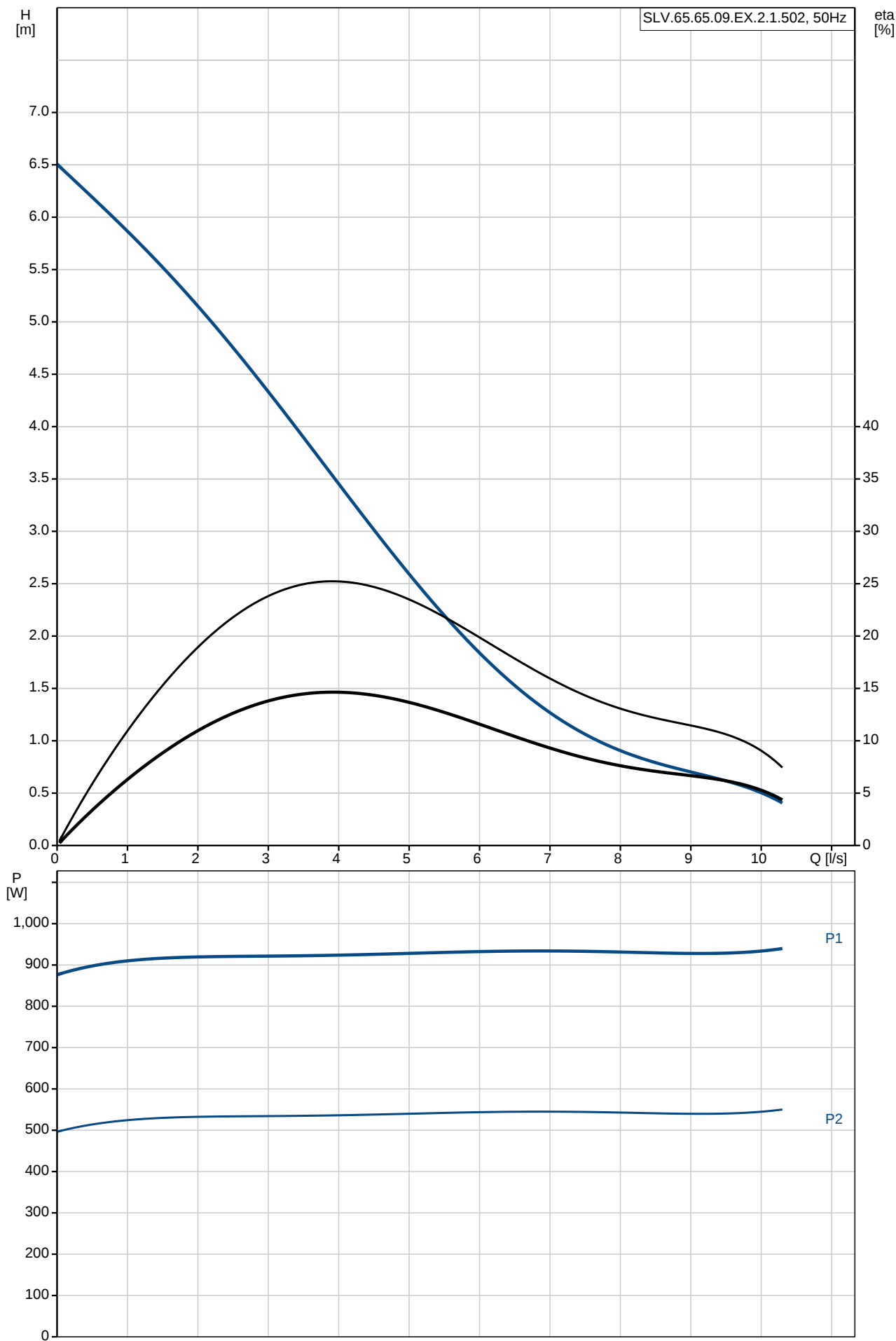
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pump outlet:	65
Pressure rating:	PN10
Maximum installation depth:	10 m

Electrical data:

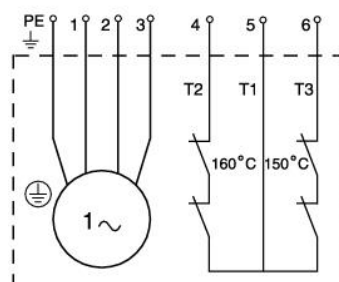
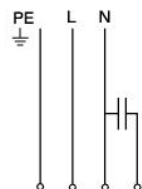
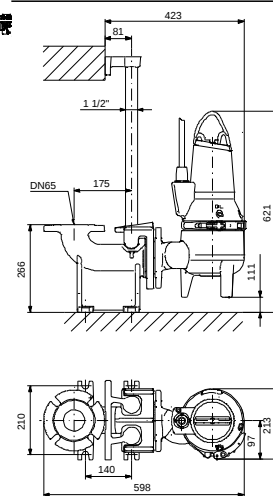
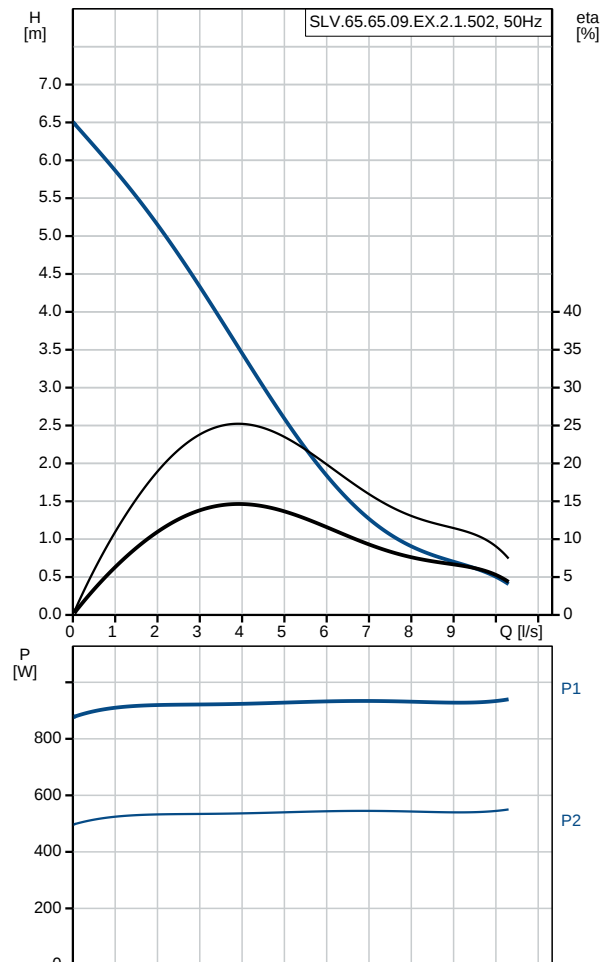
Power input - P1:	1.3 kW
Rated power - P2:	0.9 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V
Voltage tolerance:	+6/-10 %
Max starts per. hour:	30
Rated current:	6.1 A
Rated current at 3/4 load:	5.1 A
Rated current at 1/2 load:	4.1 A
Starting current:	38 A
Rated current at no load:	2.6 A

Position	Qty.	Description
		Cos phi - power factor: 0.96 Cos phi - p.f. at 3/4 load: 0.92 Cos phi - p.f. at 1/2 load: 0.86 Rated speed: 2870 rpm Motor efficiency at full load: 67 % Motor efficiency at 3/4 load: 63 % Motor efficiency at 1/2 load: 55 % Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Explosion proof: yes Length of cable: 10 m Cable type: H07RN-F Others: Net weight: 48 kg Danish VVS No.: 391296513

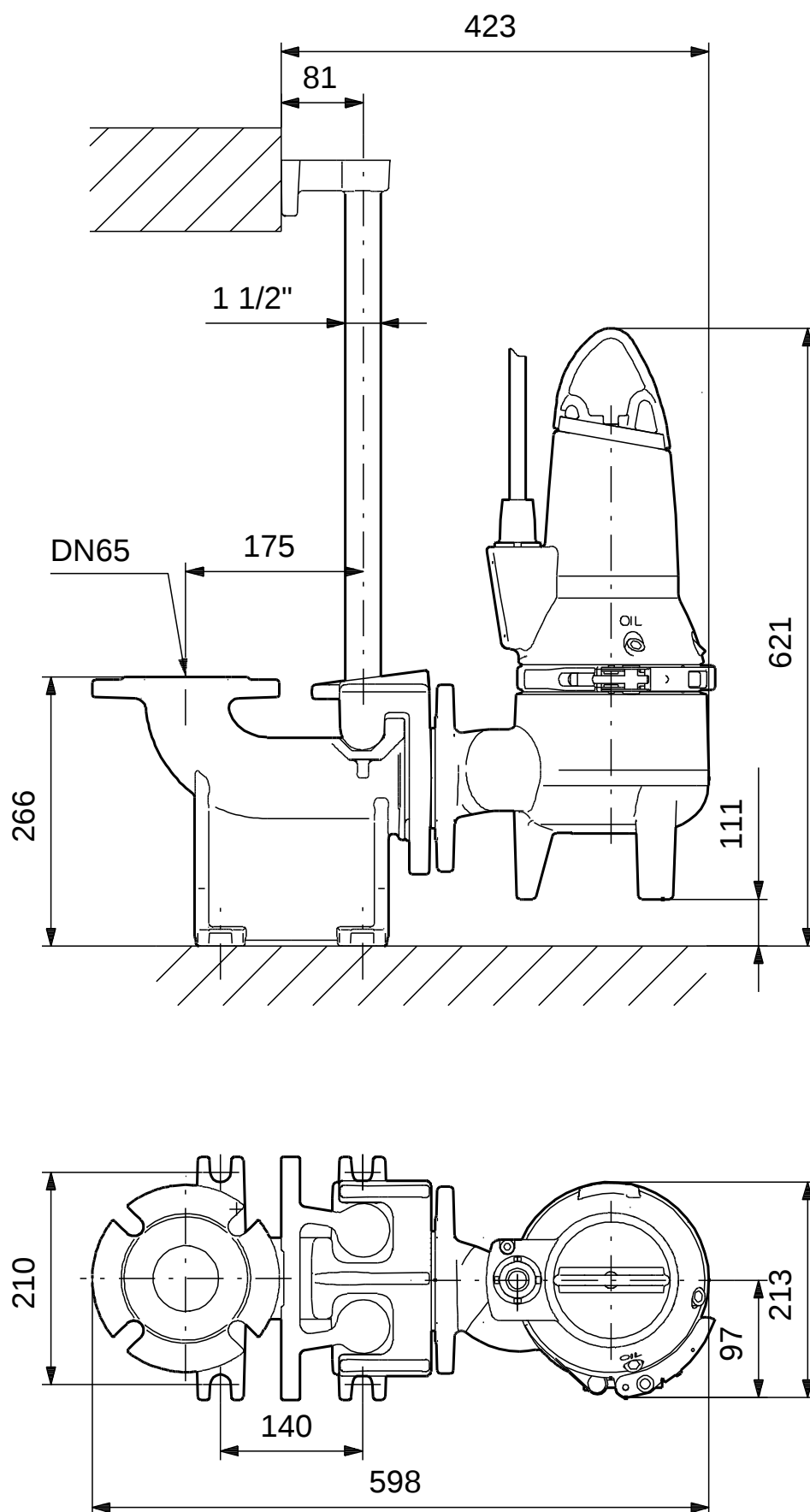
On request SLV.65.65.09.EX.2.1.502 50 Hz



Description	Value
General information:	
Product name:	SLV.65.65.09.EX.2.1.502
Product No:	On request
EAN number:	On request
Technical:	
Max flow:	6.81 l/s
Head max:	7.5 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	65 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	LIPSEAL
Approvals on nameplate:	CE 0344-Ex-II26
Curve tolerance:	ISO9906:2012 3B2
Cooling jacket:	without cooling jacket
Materials:	
Pump housing:	EN-GJL-200
	EN-GJL-200
Impeller:	EN-GJS-500-7
	EN-GJS-500-7
Motor:	EN-GJL-200
Installation:	
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pump outlet:	65
Pressure rating:	PN10
Maximum installation depth:	10 m
Inst dry/wet:	SUBMERGED
Installation:	Vertical
Liquid:	
Maximum liquid temperature:	40 °C
Density:	998.2 kg/m ³
Electrical data:	
Power input - P1:	1.3 kW
Rated power - P2:	0.9 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V
Voltage tolerance:	+6/-10 %
Max starts per. hour:	30
Rated current:	6.1 A
Rated current at 3/4 load:	5.1 A
Rated current at 1/2 load:	4.1 A
Starting current:	38 A
Rated current at no load:	2.6 A
Cos phi - power factor:	0.96
Cos phi - p.f. at 3/4 load:	0.92
Cos phi - p.f. at 1/2 load:	0.86
Rated speed:	2870 rpm
Motor efficiency at full load:	67 %
Motor efficiency at 3/4 load:	63 %
Motor efficiency at 1/2 load:	55 %
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	yes
Motor protec:	THERMAL SWITCH
Length of cable:	10 m
Cable type:	H07RN-F
Controls:	
Control box:	not included
Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
Others:	
Net weight:	48 kg
Danish VVS No.:	391296513

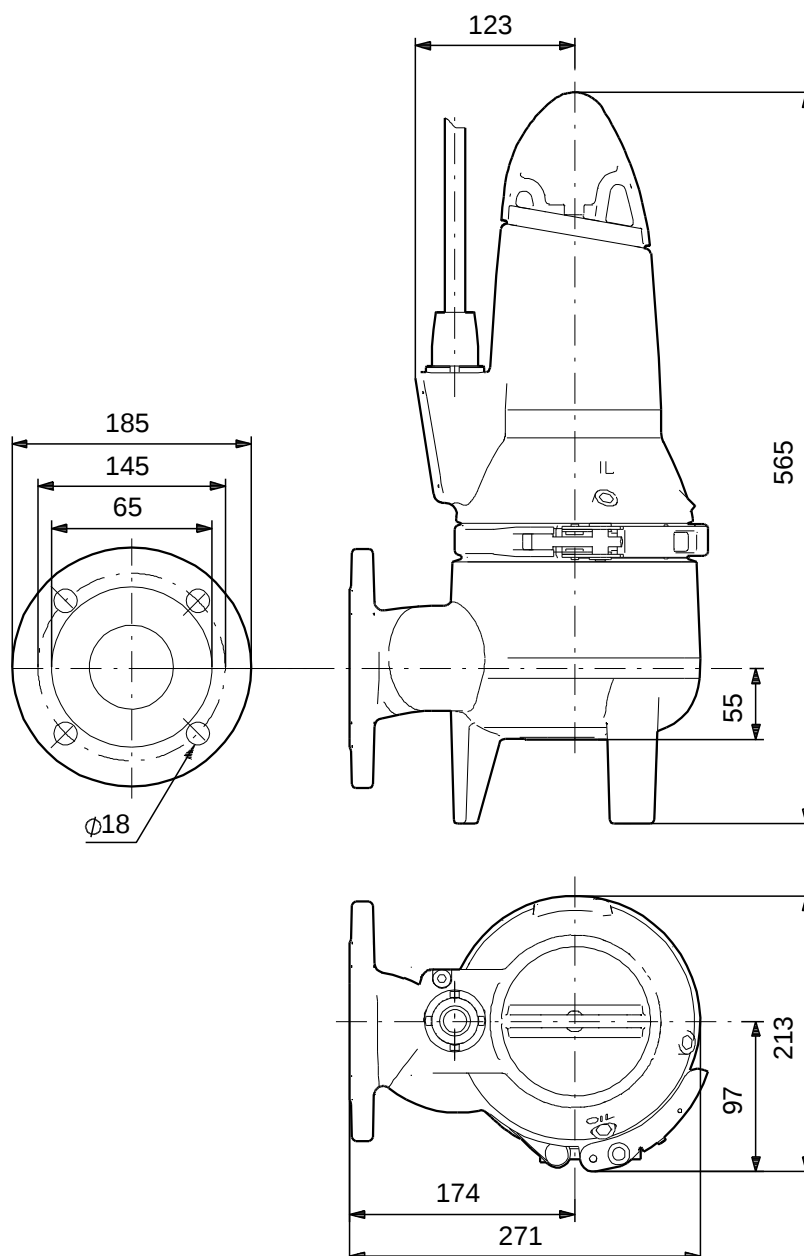


On request SLV.65.65.09.EX.2.1.502 50 Hz



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

On request SLV.65.65.09.EX.2.1.502 50 Hz



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list SLV.65.65.09.EX.2.1.502, Product No. On request
Valid from 1.11.2008 (0844)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
7a	Rivet				4	pcs
9a	Key		Dimension: 5X5X12		1	pcs
26.a	O-ring		Diameter: 32		1	pcs
			Material type: NBR			
			Thickness: 4			
37	O-ring		Diameter: 164		1	pcs
			Material type: NBR			
			Thickness: 3			
37a	O-ring		Diameter: 114		2	pcs
			Material type: NBR			
			Thickness: 3			
49	Impeller				1	pcs
50	Pump housing				1	pcs
66	Wedge lock washer		Designation: M8 A4		1	pcs
76	Nameplate				1	pcs
92	Clamp				1	pcs
102	O-ring		Diameter: 19		1	pcs
			Material type: 72NBR872			
			Thickness: 1.5			
103	Bush				1	pcs
- 105	Shaft seal				1	pcs
58	Shaft seal retainer				1	
104	Seal ring				1	
105a	Shaft seal				1	
107	O-ring		Diameter: 47		1	
			Material type: NBR			
			Thickness: 3			
107	O-ring		Diameter: 50		1	
			Material type: NBR			
			Thickness: 3			
- 150a	Stator w/housing cpl.				1	pcs
48	Stator		Winding resistance: 4,68		1	
48a	Cover				1	
55	Stator housing				1	
66	Wedge lock washer		Designation: M8 A4		1	
154	Ball bearing				1	
158	Waved washer				1	
159	O-ring				1	
173	Cross recess Pan head screw		Designation: CROSS-HEAD SCREW		1	
173a	Lock washer				1	
- 176	Plug				1	
	Pin				1	
153b	O-ring		Diameter: 28		1	
			Material type: NBR			
			Thickness: 2			
185	O-ring		Diameter: 31		1	
			Material type: NBR			
			Thickness: 2			
188.a	Hex socket head cap screw		Length (mm): 25		1	
			Thread: M8			
153	Ball bearing		Designation: 6204 2CS C3 SYN		1	pcs
154	Ball bearing				1	pcs
155	Oil chamber				1	pcs
158	Waved washer				1	pcs
172	Shaft w/rotor				1	pcs
- 181	Cable Ex				1	pcs
198	O-ring		Diameter: 34.2		1	
			Material type: NBR			
			Thickness: 3			

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
188.a	Hex socket head cap screw		Length (mm): 25 Thread: M8		8	pcs
190	Lifting bracket				1	pcs
193	Hex socket head cap screw		Designation: A2-70 Length (mm): 20 Thread: M12		2	pcs
193a	Oil		Type: SHELL ONDINA 919		0	L
194	Washer		Internal diameter: 19 Outer diameter: 12.2 Thickness: 4.4		2	pcs
208	Washer		Internal diameter: 20 Outer diameter: 28 Thickness: 2		1	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated.

Data may be subject to alterations without further notice.

Please contact us to verify the data above is still accurate/up-to-date.

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