

Qty.	Description
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1	SEV.80.100.92.2.51D
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Note! Product picture may differ from actual product

Product No.: [96780690](#)

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 operation. The liquidless and maintenance free cooling system ensures that the pump can be used for submerged or dry installation. The efficient SuperVortex impeller provides passage of long fibres and solids up to 80 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.

### Further product details

The pump is suitable for both temporary and permanent installation either as free-standing on ring stand, on base stand, on brackets or on an auto-coupling system.

#### Pump

The pump is fitted with an easy-to-clean stainless-steel motor sleeve (EN 1.4301) that is extremely robust and impact-resistant. Pump housing and impeller is made of cast iron (EN-GJL-250).

All surfaces of the cast iron parts are protected with cathodolysis coating.

The surface of the cast iron pump parts is afterwards painted with environmental friendly powder coating (type NCS 9000N (black), gloss code 30, thickness 100 µm) which ensures high impact and corrosion protection.

The final pump is assembled from already painted parts which ensures that no rust or scale can be formed in grooves between parts, etc.

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.

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The pump is approved according to EN12050-1.

**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.

A solid-block stator housing with built-in cooling conduits, efficiently transfers excess heat to the pumped liquid via a solid cast intermediate cooling flange, that is in direct contact with the pumped liquid.

This allows for continuous operation even in a dry installation.

An extremely robust impact-resistant stainless-steel jacket with an easy-to-clean smooth surface is fitted on the top of the solid-block stator housing.

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  
 Temp. sensor: N

**Liquid:**

Liquid temperature range: 0 .. 40 °C  
 Density: 998.2 kg/m<sup>3</sup>

**Technical:**

Type of impeller: SUPER VORTEX  
 Maximum particle size: 80 mm  
 Primary shaft seal: SIC/SIC  
 Max. hydraulic efficiency: 39 %  
 Approvals on nameplate: EN12050-1  
 Curve tolerance: ISO9906:2012 3B2

**Materials:**

Pump housing: EN 1561 EN-GJL-250  
 Impeller: Cast iron  
 EN 5.1301 EN-GJL-200

**Installation:**

t max amb: 40 °C  
 Maximum operating pressure: 6 bar  
 Flange standard: DIN  
 Pump outlet: DN 100  
 Pressure rating: PN 10  
 Maximum installation depth: 20 m  
 Auto-coupling: 96090994

**Electrical data:**

Power input - P1: 10.5 kW



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Qty.	Description
1	<p>Rated power - P2: 9.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 18.8-17.5 A Rated current at 3/4 load: 13.4 A Rated current at 1/2 load: 10 A Starting current: 162 A Rated current at no load: 5.6 A Cos phi - power factor: 0.89 Cos phi - p.f. at no load: 0.16 Cos phi - p.f. at 3/4 load: 0.85 Cos phi - p.f. at 1/2 load: 0.78 Rated speed: 2935 rpm Locked-rotor torque: 69 Nm Breakdown torque: 99 Nm Moment of inertia: 0.0334 kg m<sup>2</sup> Motor efficiency at full load: 87.6 % Motor efficiency at 3/4 load: 87.4 % Motor efficiency at 1/2 load: 85.4 % Number of poles: 2 Start. method: star/delta Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Explosion proof: no Length of cable: 10 m Cable type: LYNIFLEX Type of cable plug: No plug</p> <p>Others: Net weight: 202 kg Gross weight: 223 kg Danish VVS No.: 391289276</p>



Company name: Pump Sales Direct

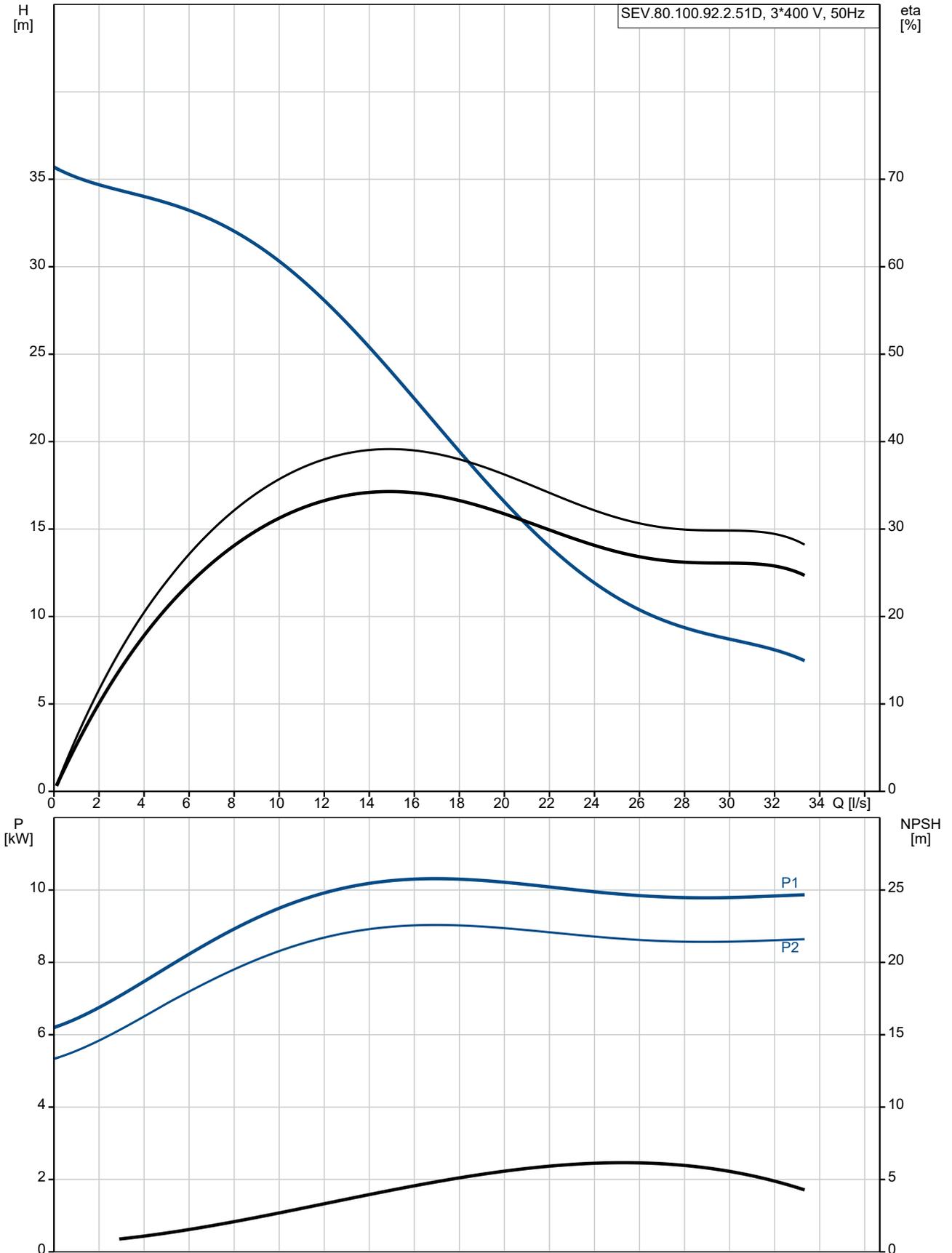
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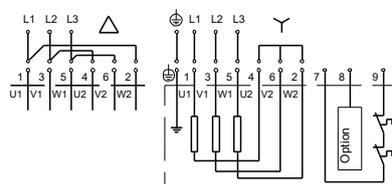
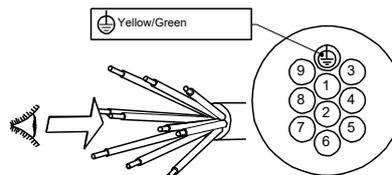
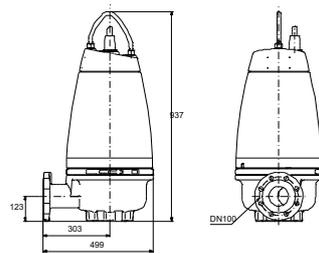
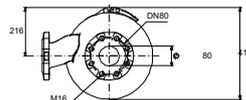
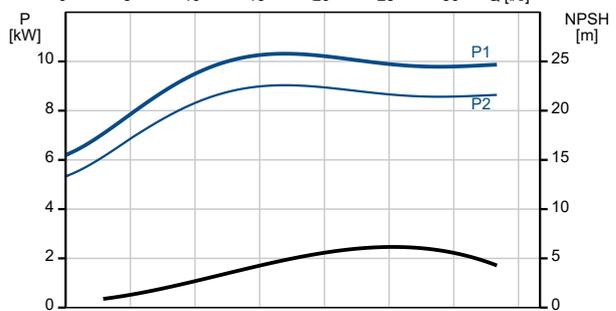
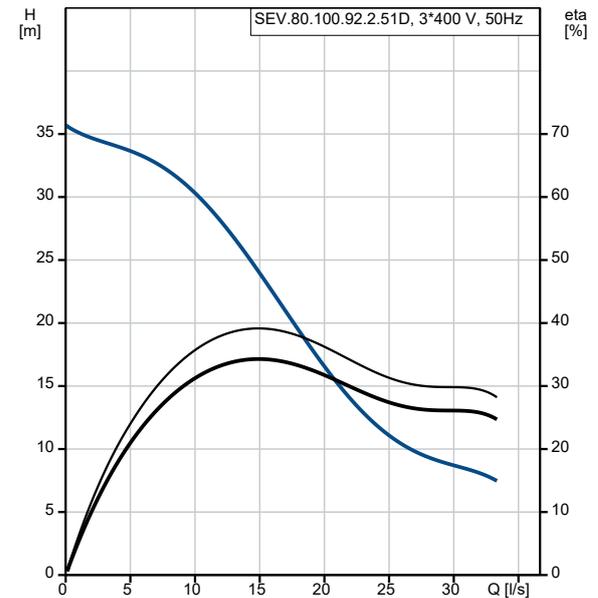
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### 96780690 SEV.80.100.92.2.51D 50 Hz



Description	Value
<b>General information:</b>	
Product name:	SEV.80.100.92.2.51D
Product No:	96780690
EAN number:	5700310145471
<b>Technical:</b>	
Max flow:	33.3 l/s
Max flow:	33.3 l/s
Head max:	35.2 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC/SIC
Max. hydraulic efficiency:	39 %
Approvals on nameplate:	EN12050-1
Curve tolerance:	ISO9906:2012 3B2
Cooling jacket:	with cooling jacket
<b>Materials:</b>	
Pump housing:	EN 1561 EN-GJL-250
Impeller:	Cast iron
Impeller:	EN 5.1301 EN-GJL-200
<b>Installation:</b>	
t max amb:	40 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pump outlet:	DN 100
Pressure rating:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	DRY/SUBMERGED
Installation:	horizontal or vertical
Auto-coupling:	96090994
<b>Liquid:</b>	
Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
Power input - P1:	10.5 kW
Rated power - P2:	9.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+6/-10 %
Max starts per. hour:	20
Rated current:	18.8-17.5 A
Rated current at 3/4 load:	13.4 A
Rated current at 1/2 load:	10 A
Starting current:	162 A
Rated current at no load:	5.6 A
Cos phi - power factor:	0.89
Cos phi - p.f. at no load:	0.16
Cos phi - p.f. at 3/4 load:	0.85
Cos phi - p.f. at 1/2 load:	0.78
Rated speed:	2935 rpm
Locked-rotor torque:	69 Nm
Breakdown torque:	99 Nm
Moment of inertia:	0.0334 kg m <sup>2</sup>
Motor efficiency at full load:	87.6 %
Motor efficiency at 3/4 load:	87.4 %
Motor efficiency at 1/2 load:	85.4 %
Number of poles:	2
Start. method:	star/delta
Enclosure class (IEC 34-5):	IP68





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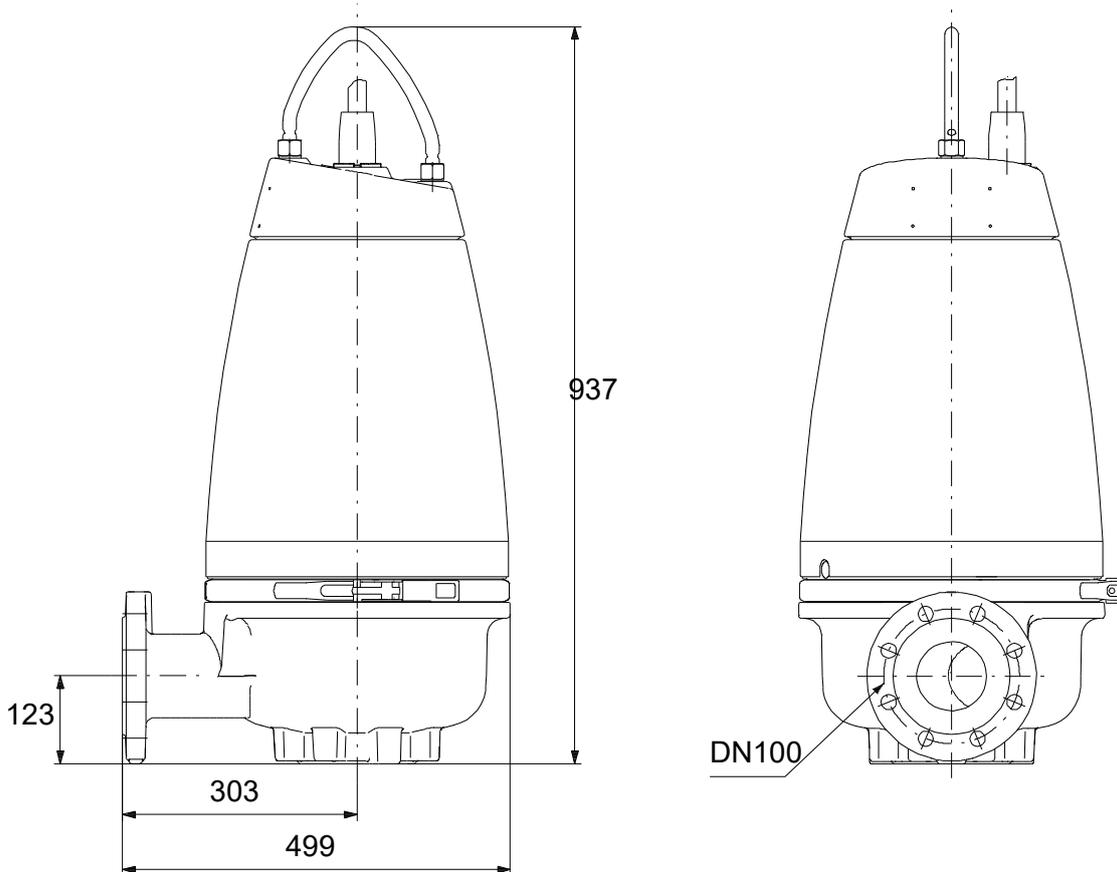
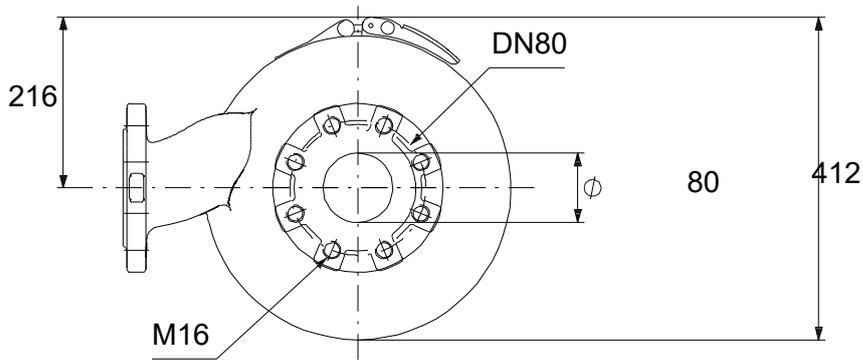
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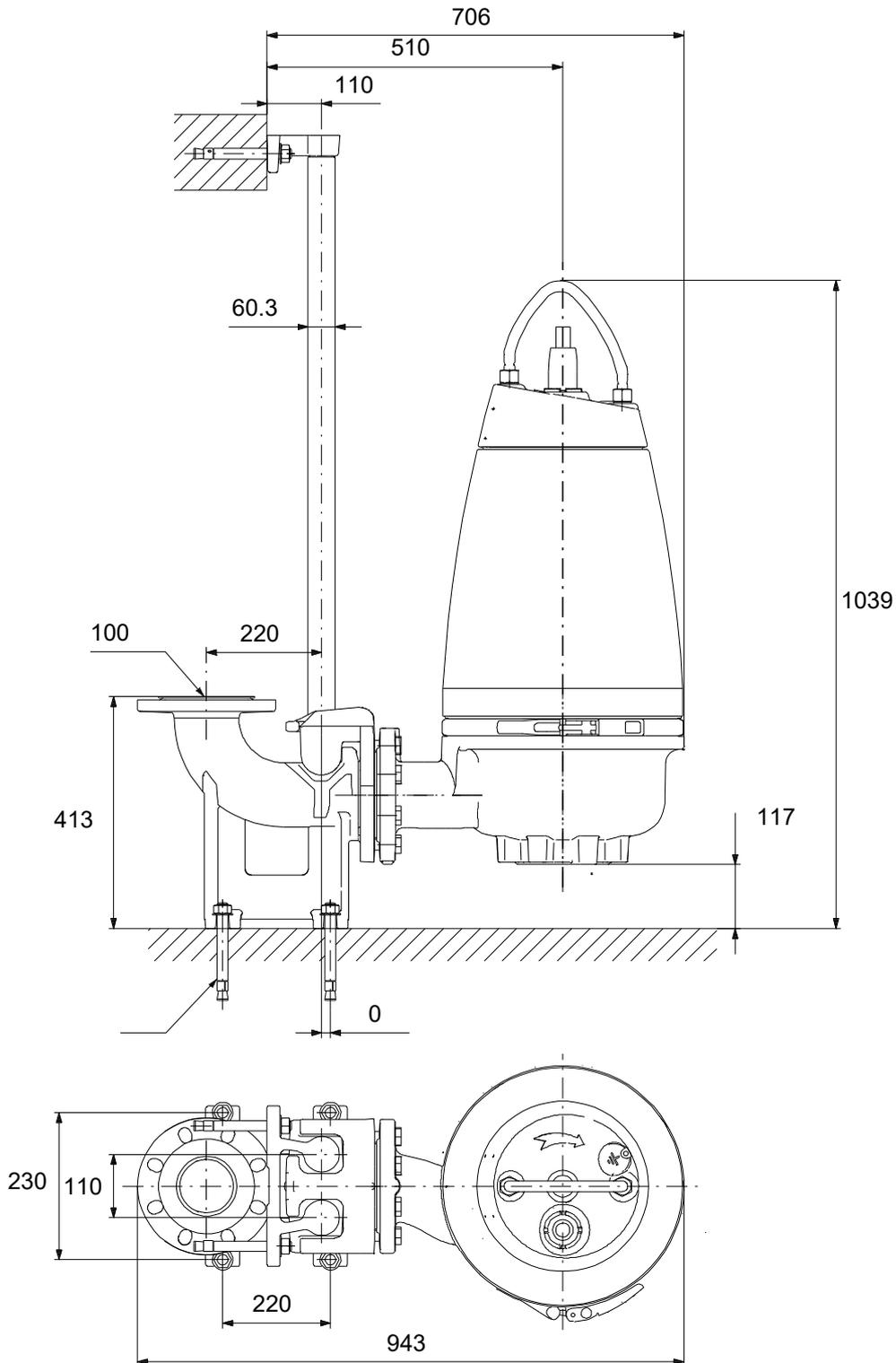
Description	Value
Insulation class (IEC 85):	F
Explosion proof:	no
Built-in motor protection:	THERMAL SWITCH
Thermal protec:	internal
Length of cable:	10 m
Cable type:	LYNIFLEX
Type of cable plug:	No plug
<b>Controls:</b>	
Control box:	not included
Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
Temp. sensor:	N
<b>Others:</b>	
Net weight:	202 kg
Gross weight:	223 kg
Danish VVS No.:	391289276

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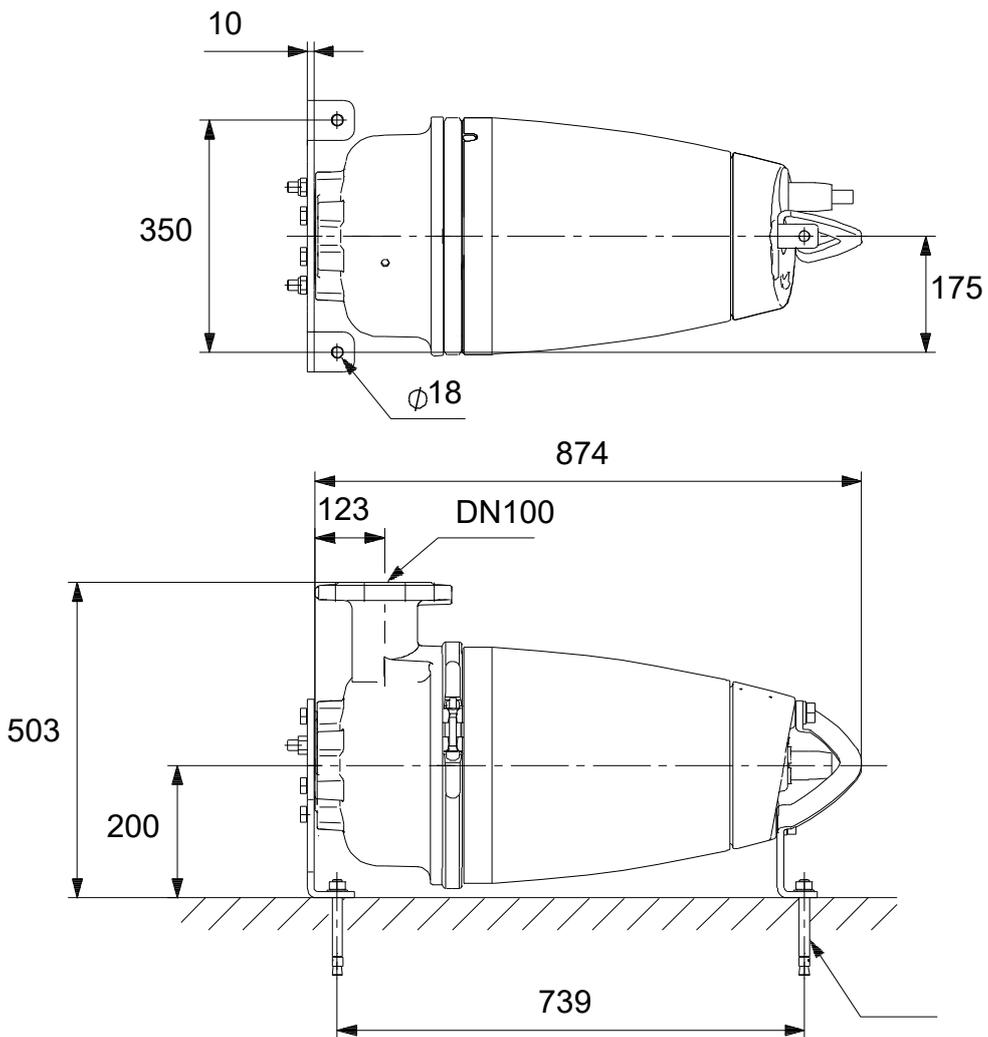
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Disclaimer: This simplified dimensional drawing does not show all details.

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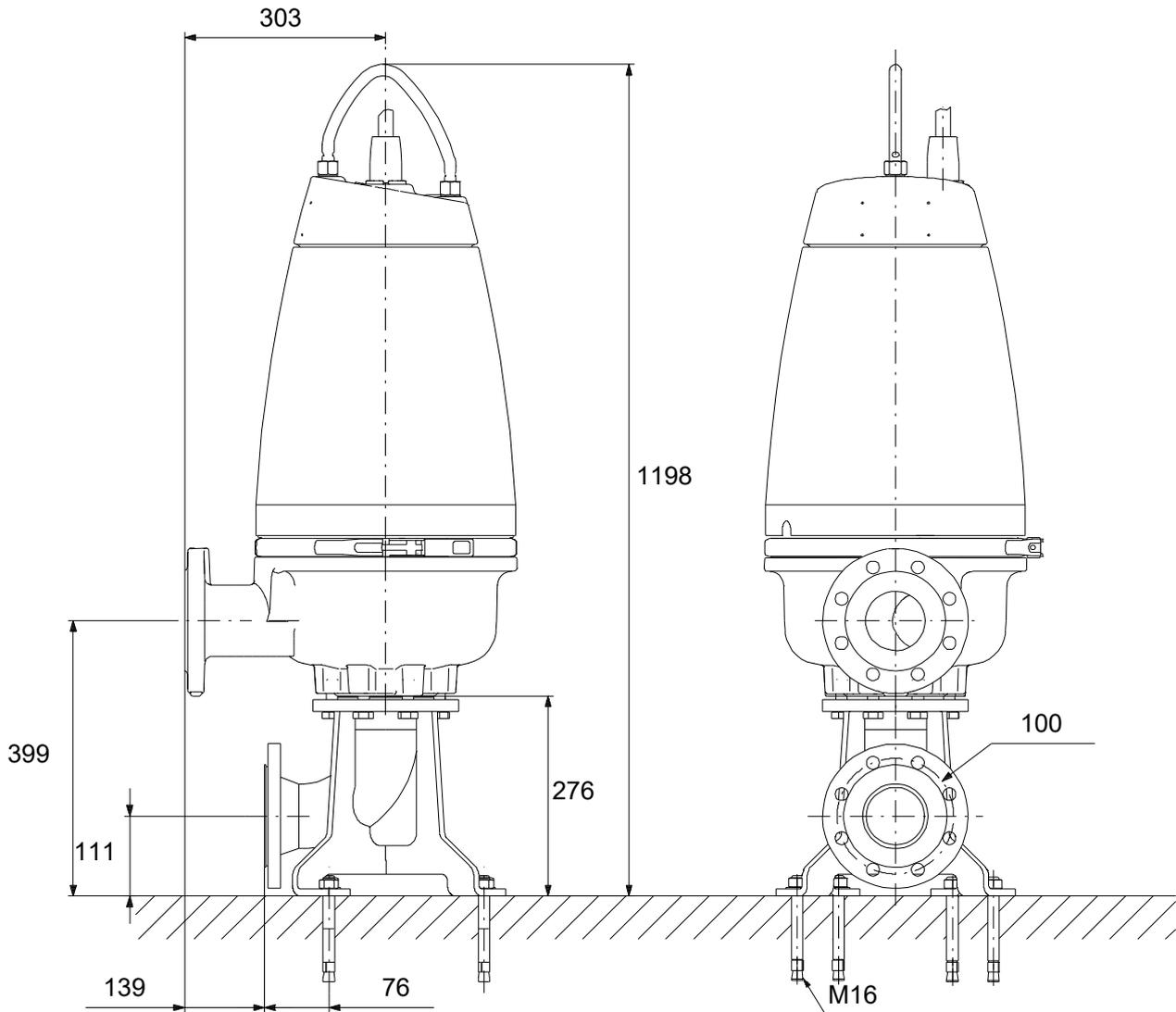
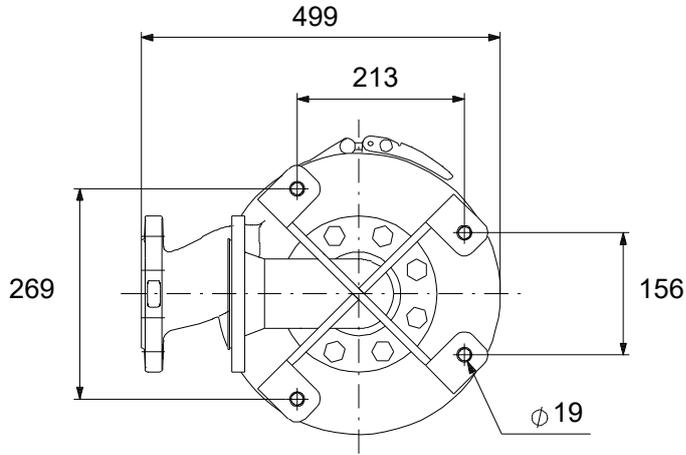
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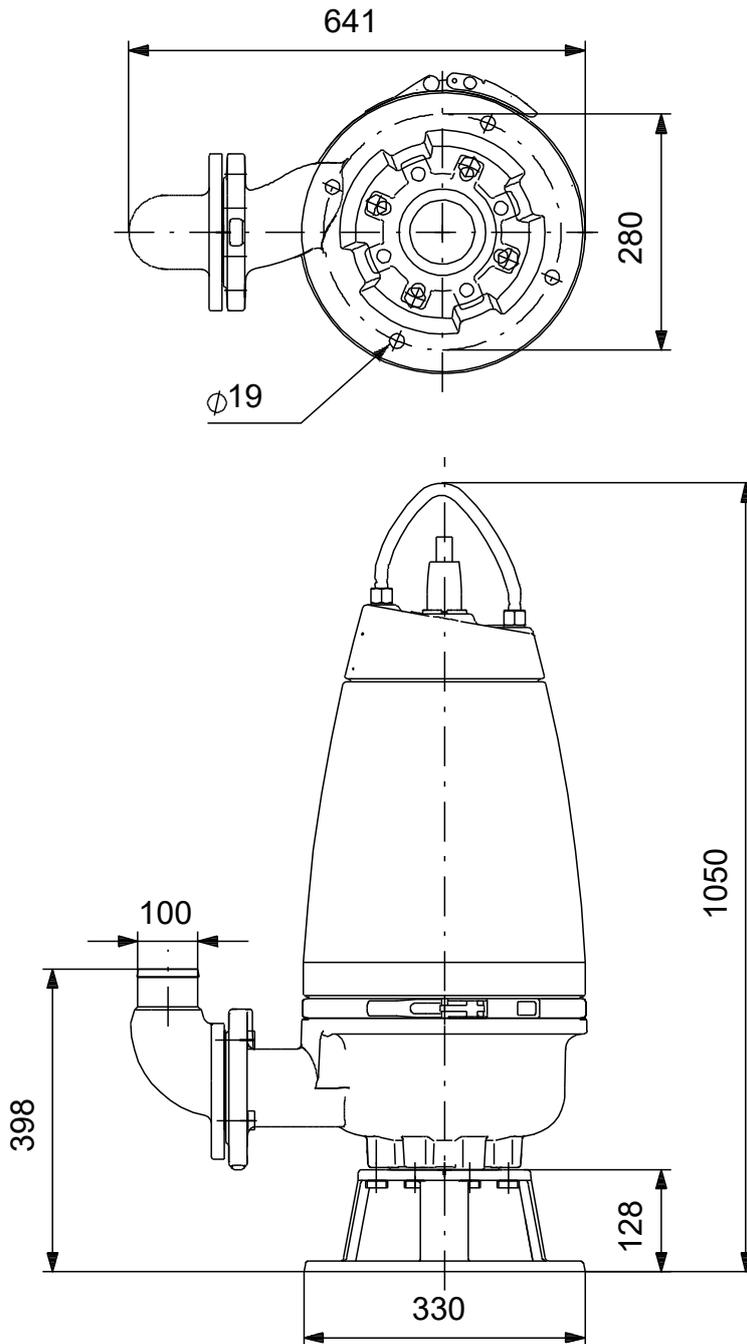
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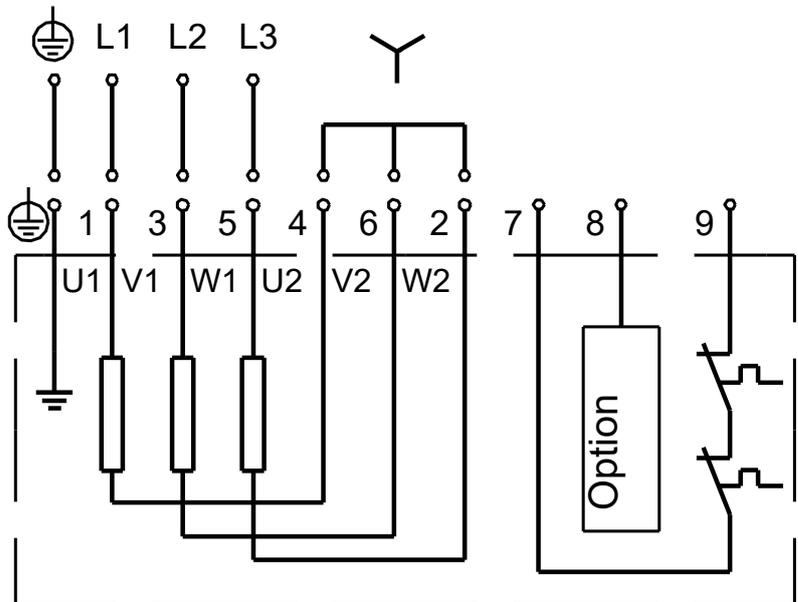
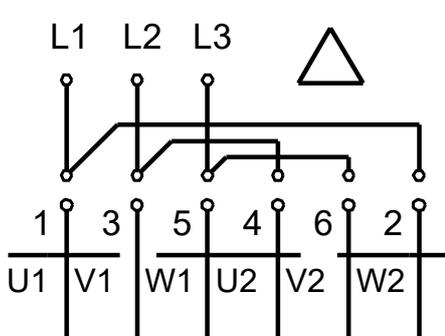
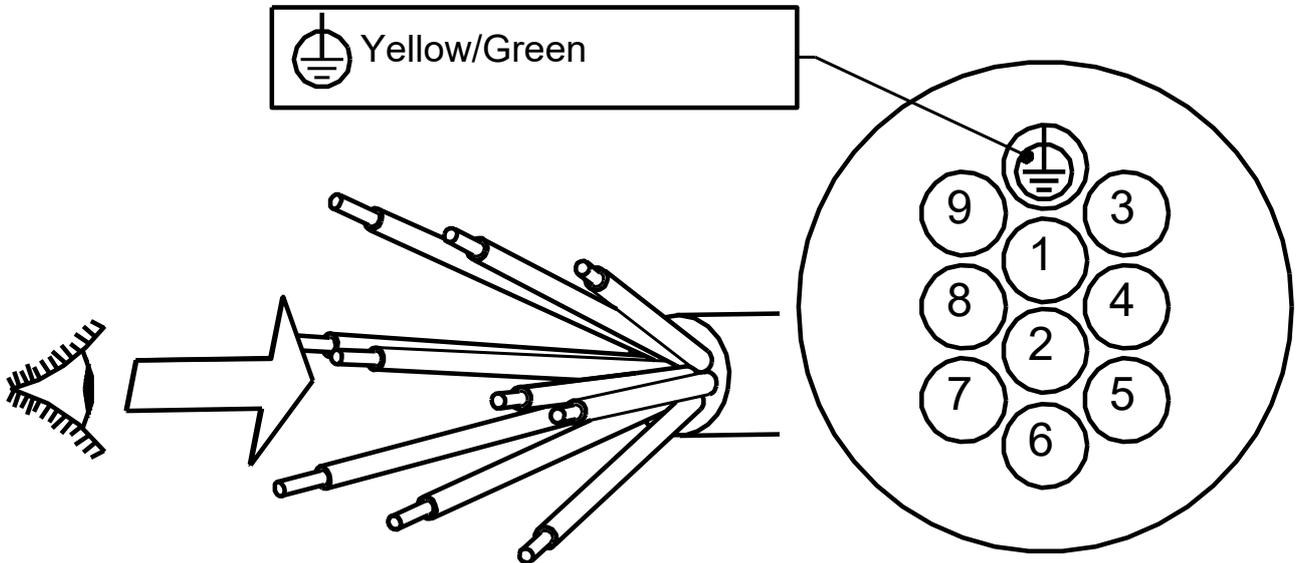
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