

SLV.80.80.265.2.52H.S.N.51D

Grundfos Pump 98057787



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<https://www.lenntech.com/grundfos/SESLFAM/98057787/SLV-80-80-265-2-52H-S-N-51D.html>

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Position	Qty.	Description
	1	SLV.80.80.265.2.52H.S.N.51D  Note! Product picture may differ from actual product Product No.: 98057787 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 80 mm and suitable for wastewater with a dry matter content of up to 5 %. For installation on auto coupling, the Grundfos SmartSeal gasket system provides a leak-proof connection. The pump comes with a high efficient Grundfos blueflux® motor made with IE3 components. Further product details Typical applications are 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 the pumping of the above liquids from for instance: - municipal network pumping stations - raw water intake systems - wastewater treatment plants - public buildings - blocks of flats - factories/industry. The pump is suitable for both temporary and permanent installation. The lifting brackets fitted on the pumps enables easy transportation to and installation on the installation site. Pump The pump housing and motor top are made of cast iron (EN-GJL-250) and the impeller is made of ductile cast-iron (EN-GJS-500). All surfaces of the cast iron parts are protected with cathaphoresis 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.  This pump is equipped with the unique SmartTrim impeller clearance adjustment system that enables easy restoring of factory-set impeller clearance. By tightening the adjustment screws on the exterior of the pump housing, peak pumping efficiency can be maintained. This can be done on site, quickly and easily, without dismantling the pump and without using special tools. The shaft seals of the pump consist of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seal is a cartridge seal that enables easy service.

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. Furthermore, this design minimises the risk of incorrect fitting and can be installed on site without the need for special tools.

- Primary seal: Silicon carbide/silicon carbide (SiC/SiC)
- Secondary seal: Carbon/ceramic

The shaft seal is bidirectional, meaning it operates correctly in case of backflow through the pump. The pump discharge flange is mounted with the Grundfos SmartSeal auto-coupling gasket, that provides a completely leak-proof connection between the pump and the base unit of the auto-coupling system. This optimises the efficiency of the entire pumping system and keeps operating costs at a minimum.

Motor

The product carries the Grundfos blueflux® label. It represents the best from Grundfos within energy-efficient motors and frequency converters. Grundfos blueflux® solutions ensures that the motor is built out of high efficiency components.



The motor is a watertight, totally encapsulated motor supplied with a 10 m power cable. A watertight stainless-steel cable entry with soft shape and sealing rings to prevent damage of the cable or leaks.

The motor construction is compact with short shaft which reduces vibrations resulting in increased efficiency and lifetime of the shaft seal and ball bearings.

Thermal switches are incorporated in the motor windings to protect the motor against overheating.

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:	with moisture sensors
Water-in-air sensor:	N

Liquid:

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

Technical:

Type of impeller:	SUPERVORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-CARBON
Curve tolerance:	ISO9906:2012 3B

Materials:

Pump housing:	Cast iron EN 1561 EN-GJL-250
Impeller:	Cast iron EN 1563 EN-GJS-500-7
Motor:	Cast iron EN 1561 EN-GJL-250

Installation:

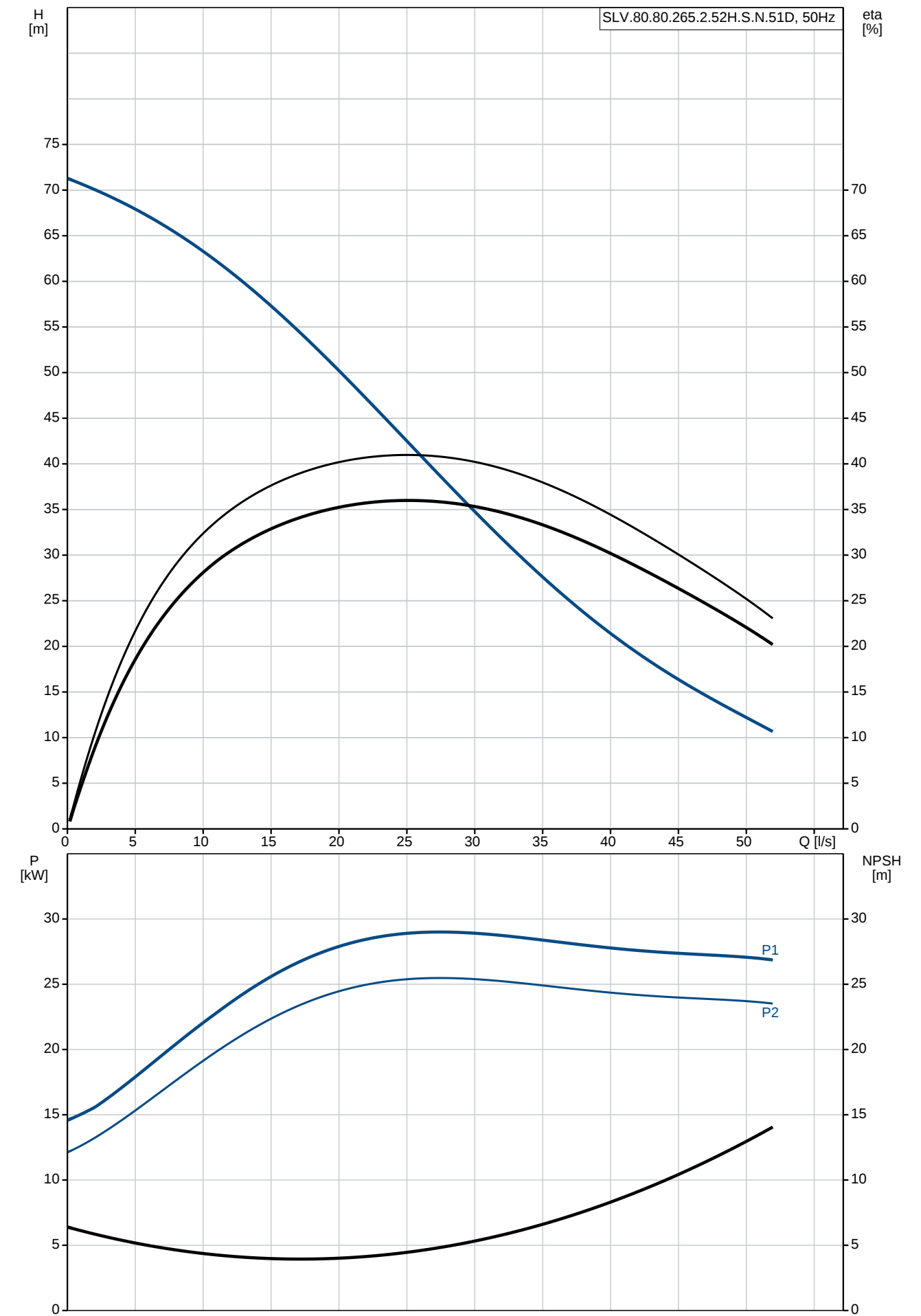
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pump inlet:	DN 100
Pump outlet:	DN 80
Pressure rating:	PN 10
Maximum installation depth:	20 m
Auto-coupling:	96102240
Base stand:	96102313
Frame range:	52

Electrical data:

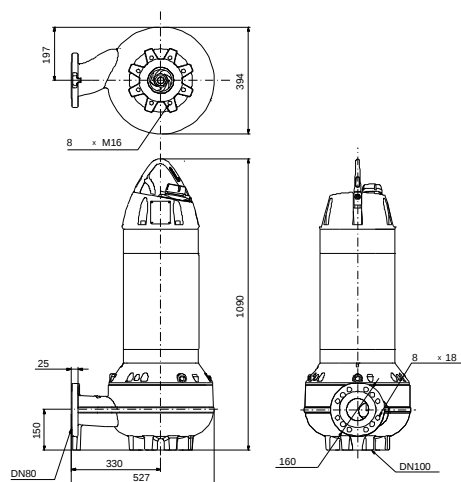
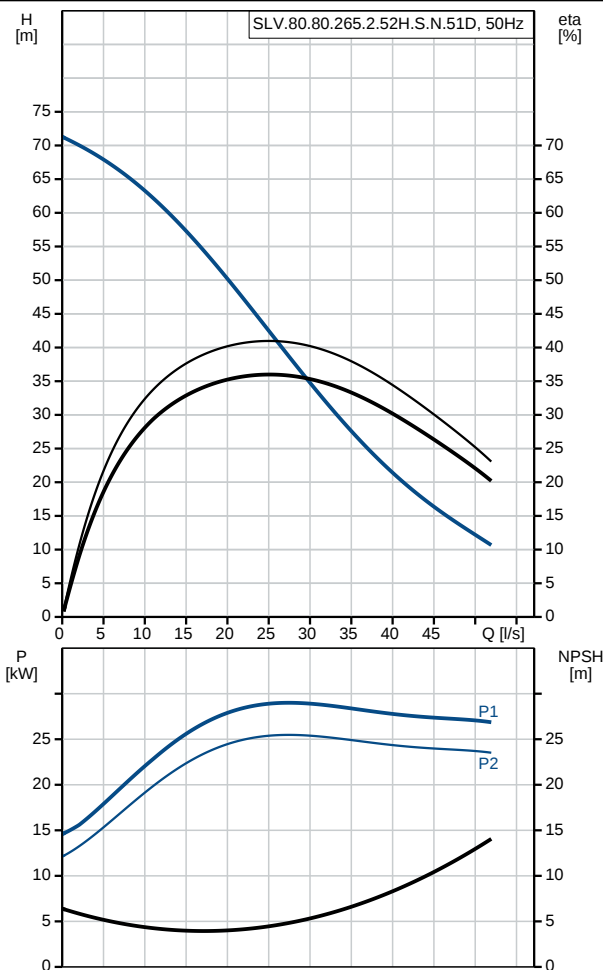
Power input - P1:	30 kW
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Position	Qty.	Description
		Rated power - P2: 26.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415/660-690 V Voltage tolerance: +10/-10 % Max starts per. hour: 20 Rated current: 56-51/32-31 A Maximum current consumption: 53 A Starting current: 582/320 A Rated current at no load: 24.6 A Rated speed: 2955 rpm Motor efficiency at full load: 88 % Motor efficiency at 3/4 load: 87 % Motor efficiency at 1/2 load: 85 % Number of poles: 2 Start. method: star/delta Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): H Explosion proof: no Ex-protection standard: N Length of cable: 10 m Cable type: S1BN8-F Winding resistance: 0,260 Ohm Cos phi 1/1: 0,83 Cos phi 1/2: 0,71 Cos phi 3/4: 0,79 Others: Net weight: 283 kg

98057787 SLV.80.80.265.2.52H.S.N.51D 50 Hz



Description	Value
General information:	
Product name:	SLV.80.80.265.2.52H.S.N.51D
Product No:	98057787
EAN number:	5710628251771
Technical:	
Max flow:	51.9 l/s
Head max:	66 m
Type of impeller:	SUPERVORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC-SIC
Secondary shaft seal:	SIC-CARBON
Curve tolerance:	ISO9906:2012 3B
Cooling jacket:	without cooling jacket
Materials:	
Pump housing:	Cast iron
	EN 1561 EN-GJL-250
Impeller:	Cast iron
	EN 1563 EN-GJS-500-7
Motor:	Cast iron
	EN 1561 EN-GJL-250
Installation:	
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pump inlet:	DN 100
Pump outlet:	DN 80
Pressure rating:	PN 10
Maximum installation depth:	20 m
Installation:	S
Inst dry/wet:	S
Installation:	vertical
Auto-coupling:	96102240
Base stand:	96102313
Frame range:	52
Liquid:	
Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m³
Electrical data:	
Power input - P1:	30 kW
Rated power - P2:	26.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415/660-690 V
Voltage tolerance:	+10/-10 %
Max starts per. hour:	20
Rated current:	56-51/32-31 A
Maximum current consumption:	53 A
Starting current:	582/320 A
Rated current at no load:	24.6 A
Rated speed:	2955 rpm
Motor efficiency at full load:	88 %
Motor efficiency at 3/4 load:	87 %
Motor efficiency at 1/2 load:	85 %
Number of poles:	2
Start. method:	star/delta
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	H
Explosion proof:	no
Ex-protection standard:	N
Motor protec:	KLIXON
Length of cable:	10 m
Cable type:	S1BN8-F
Cable size:	7X6 + 5X1,5
Cable resistance:	3,30 mOhm/m
Winding resistance:	0,260 Ohm
Cos phi 1/1:	0,83

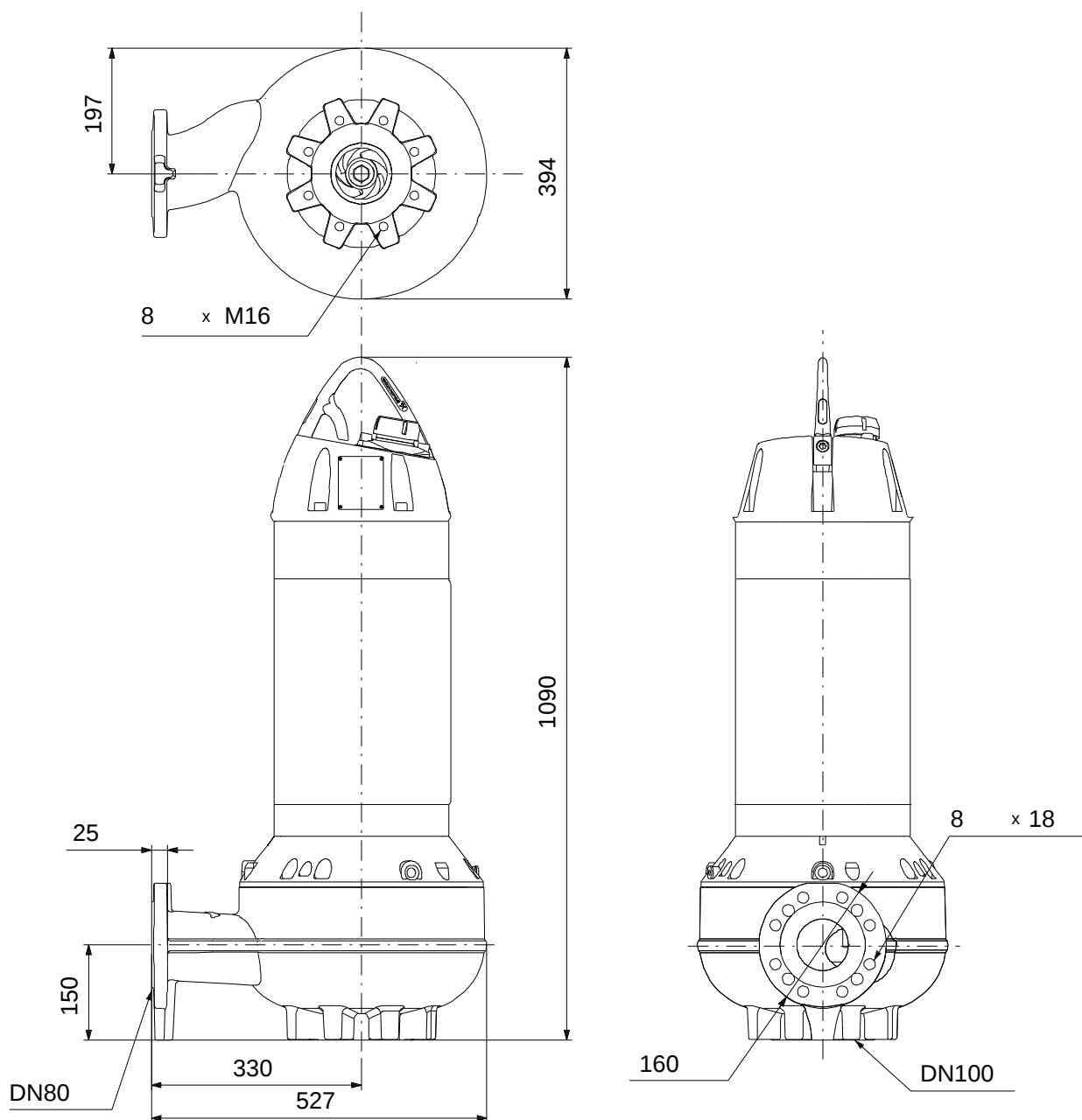


Wiring diagram. 12-wire cable



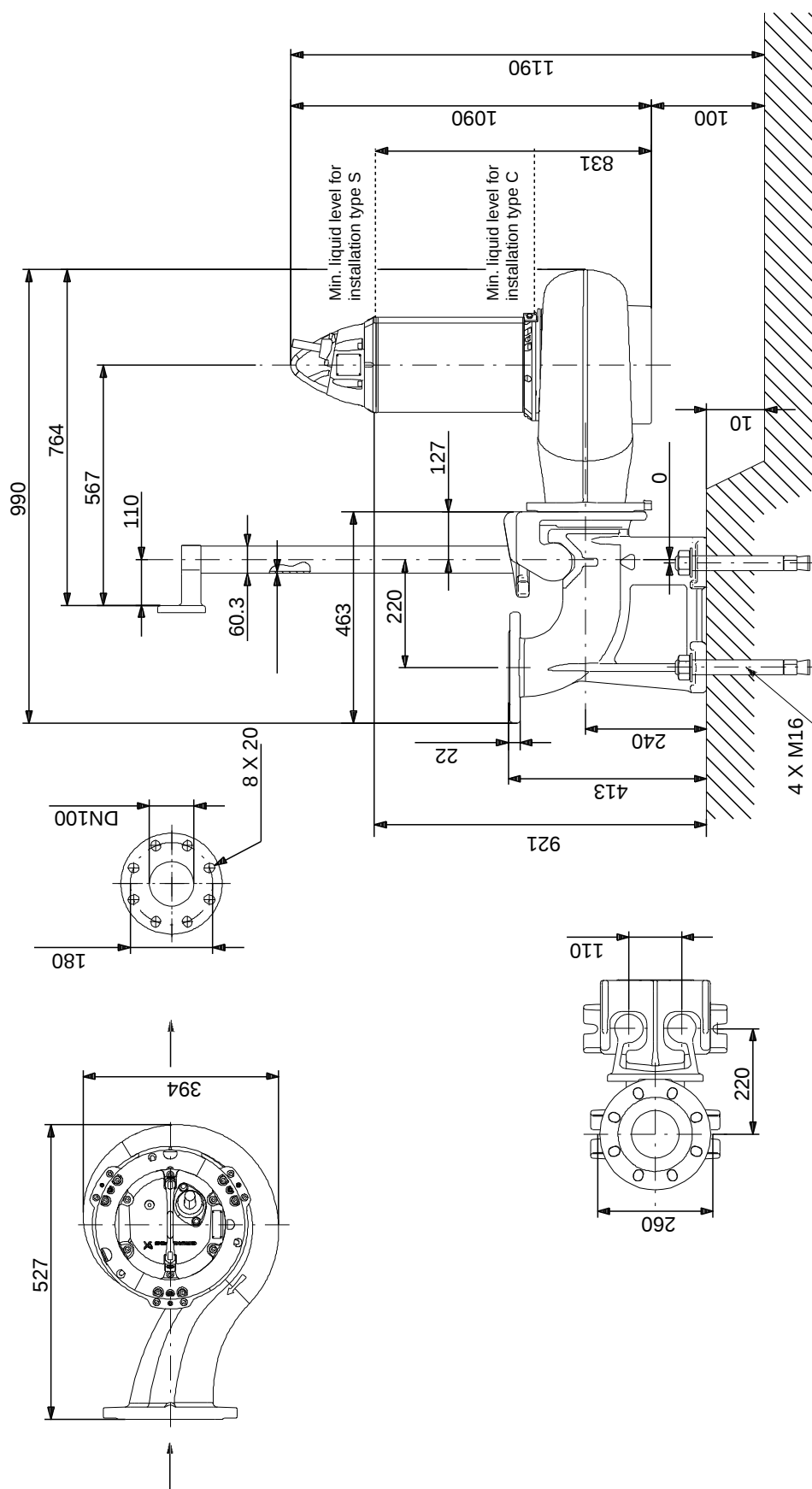
Description	Value
Cos phi 1/2:	0,71
Cos phi 3/4:	0,79
Controls:	
Moisture sensor:	with moisture sensors
Water-in-air sensor:	N
Others:	
Net weight:	283 kg

98057787 SLV.80.80.265.2.52H.S.N.51D 50 Hz



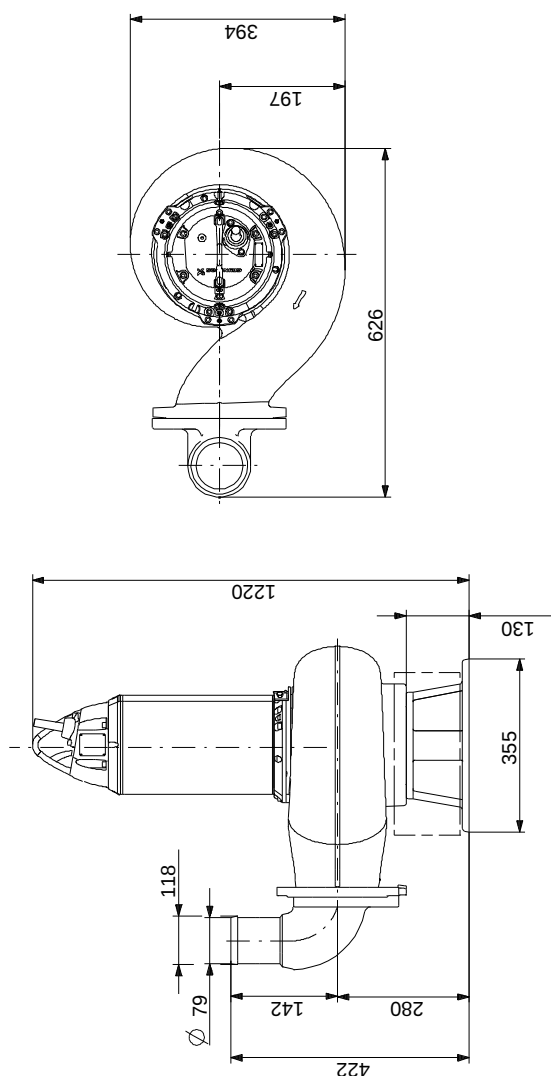
Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

98057787 SLV.80.80.265.2.52H.S.N.51D 50 Hz



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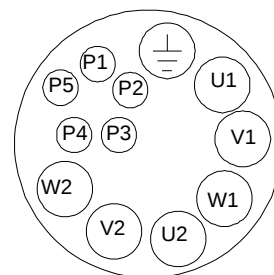
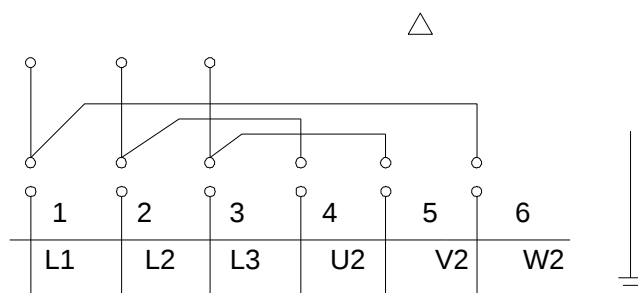
98057787 SLV.80.80.265.2.52H.S.N.51D 50 Hz



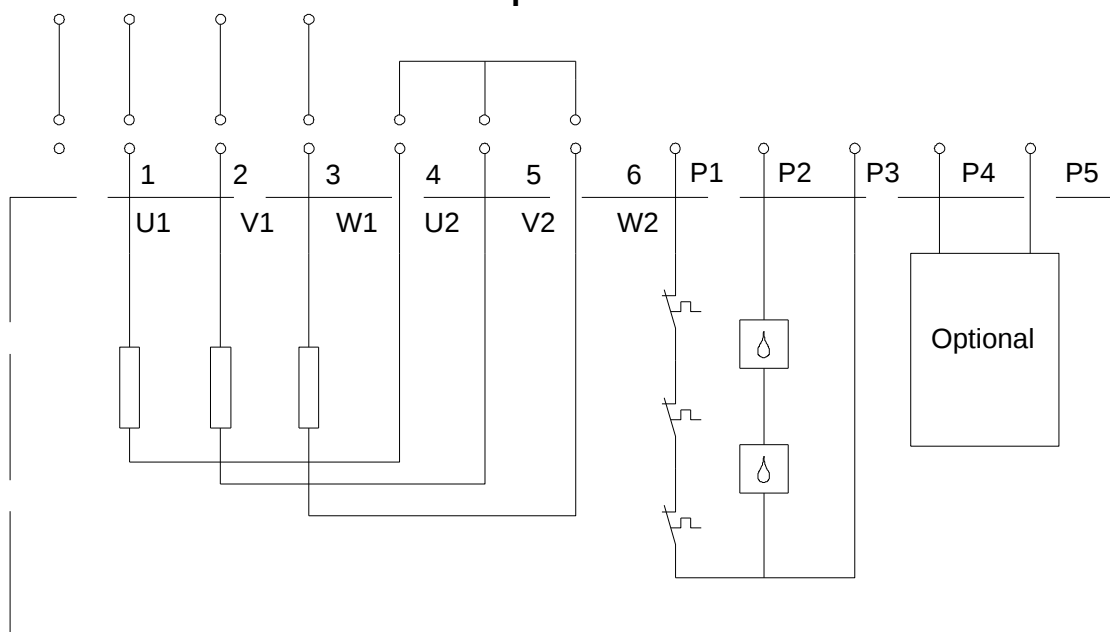
Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Wiring diagram. 12-wire cable

L1 L2 L3 Delta



L1 L2 L3 Star Y



Note! All units are in [mm] unless others are stated.

*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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