

Date: 28/01/2020

Qty. | Description

1 SEV.80.80.110.2.51D



Note! Product picture may differ from actual product

Product No.: 96047877

Non-self-priming, single-stage, centrifugal pump designed for handling wastewater, process water and unscreened raw sewage.

The pump is designed for intermittent and continous 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.

Controls:

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

Temp. sensor: N

Liquid:

Pumped liquid: Any Newtonian liquid

Liquid temperature range: 0 .. 40 °C
Density: 998.2 kg/m³

Technical:

Type of impeller: SUPER VORTEX

Maximum particle size: 80 mm
Primary shaft seal: SIC/SIC

Secondary shaft seal: CARBON/CERAMICS

Max. hydraulic efficiency: 43 %
Approvals on nameplate: EN12050-1
Curve tolerance: ISO9906:2012 3B

Materials:

Pump housing: EN 1561 EN-GJL-250

Impeller: Cast iron

Installation:

Maximum ambient temperature: 40 °C
Maximum operating pressure: 6 bar
Flange standard: DIN
Pump outlet: DN 80
Pressure rating: PN 10
Maximum installation depth: 20 m

Electrical data:

Power input - P1: 12.6 kW
Rated power - P2: 11 kW
Mains frequency: 50 Hz
Rated voltage: 3 x 380-415 V



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Voltage tolerance: +6/-10 %

Max starts per. hour: 20

Rated current: 22.7-21.4 A Rated current at 3/4 load: 16.2 A

Rated current at 3/4 load: 10.2 A

Starting current: 162 A

Starting current: 162 A

Rated current at no load: 7.2 A
Cos phi - power factor: 0.88
Cos phi - p.f. at no load: 0.15
Cos phi - p.f. at 3/4 load: 0.84

 Cos phi - p.f. at 3/4 load:
 0.84

 Cos phi - p.f. at 1/2 load:
 0.75

 Rated speed:
 2935 rpm

 Locked-rotor torque:
 85 Nm

Breakdown torque: 118 Nm

Moment of inertia: 0.0368 kg m²

Motor efficiency at full load: 87.7 %

Motor efficiency at 3/4 load: 88.1 %

Motor efficiency at 1/2 load: 86.4 %

Motor efficiency at 1/2 load: 86.4 %
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: LYNIF

Cable type: LYNIFLEX Type of cable plug: NO PLUG

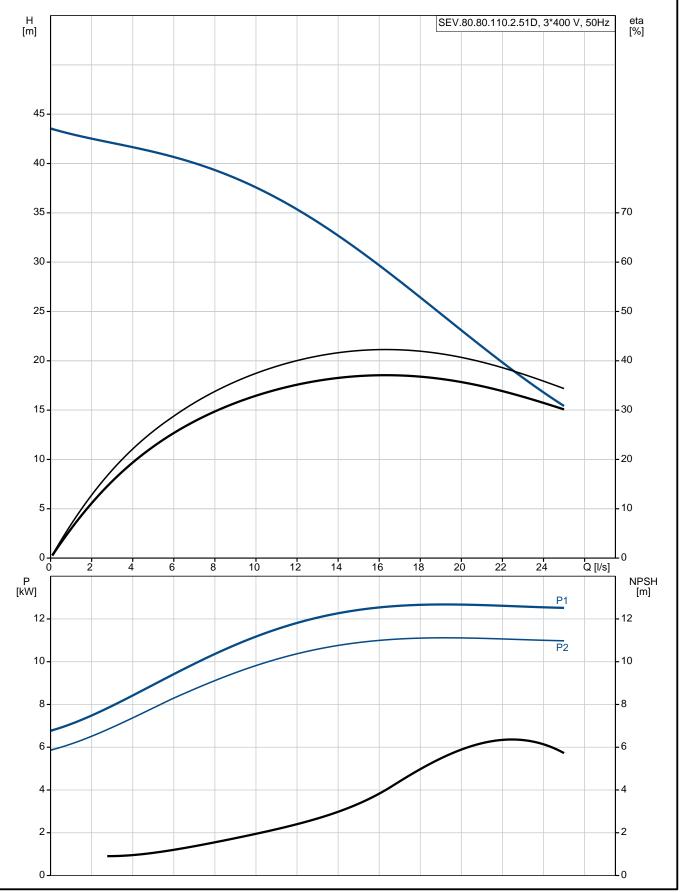
Others:

Net weight: 195 kg
Country of origin: HU
Custom tariff no.: 84137021



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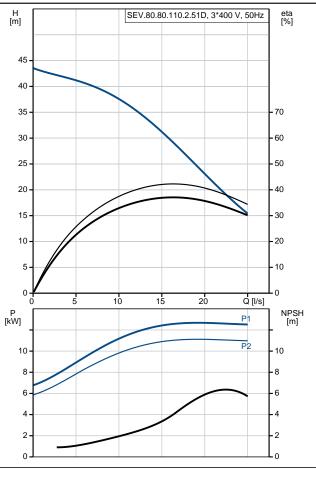
96047877 SEV.80.80.110.2.51D 50 Hz

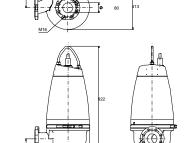


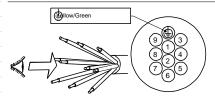


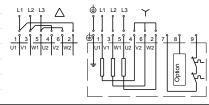
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Description	Value
General information:	
Product name:	SEV.80.80.110.2.51D
Product No:	96047877
EAN number:	5700395071610
	5700395071610
Price:	5.301,00 GBP
Technical:	
Max flow:	25 l/s
Head max:	43.5 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	80 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Max. hydraulic efficiency:	43 %
Approvals on nameplate:	EN12050-1
Curve tolerance:	ISO9906:2012 3B
Cooling jacket:	with cooling jacket
Materials:	with occurring jacket
Pump housing:	EN 1561 EN-GJL-250
Impeller:	Cast iron
Installation:	Cast IIOII
	40 °C
Maximum ambient temperature:	
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pump outlet:	DN 80
Pressure rating:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	DRY/SUBMERGED
Installation:	horizontal or vertical
Liquid:	
Pumped liquid:	Any Newtonian liquid
Pumped liquid: Liquid temperature range:	0 40 °C
Pumped liquid: Liquid temperature range: Density:	
Pumped liquid: Liquid temperature range:	0 40 °C
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1:	0 40 °C
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2:	0 40 °C 998.2 kg/m³
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1:	0 40 °C 998.2 kg/m³ 12.6 kW
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 %
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current: Rated current at no load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 3/4 load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 3/4 load: Cos phi - p.f. at 3/4 load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 3/4 load: Rated speed:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75 2935 rpm
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 3/4 load: Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75 2935 rpm 85 Nm
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque: Breakdown torque:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75 2935 rpm 85 Nm 118 Nm
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 3/4 load: Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque: Breakdown torque: Moment of inertia:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75 2935 rpm 85 Nm 118 Nm 0.0368 kg m²
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque: Breakdown torque: Moment of inertia: Motor efficiency at full load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75 2935 rpm 85 Nm 118 Nm 0.0368 kg m² 87.7 %
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque: Breakdown torque: Moment of inertia: Motor efficiency at 3/4 load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75 2935 rpm 85 Nm 118 Nm 0.0368 kg m² 87.7 % 88.1 %
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque: Breakdown torque: Moment of inertia: Motor efficiency at 1/2 load: Motor efficiency at 1/2 load: Motor efficiency at 1/2 load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75 2935 rpm 85 Nm 118 Nm 0.0368 kg m² 87.7 % 88.1 % 86.4 %
Pumped liquid: Liquid temperature range: Density: Electrical data: Power input - P1: Rated power - P2: Mains frequency: Rated voltage: Voltage tolerance: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Rated current at no load: Cos phi - power factor: Cos phi - p.f. at no load: Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque: Breakdown torque: Moment of inertia: Motor efficiency at 3/4 load: Motor efficiency at 3/4 load:	0 40 °C 998.2 kg/m³ 12.6 kW 11 kW 50 Hz 3 x 380-415 V +6/-10 % 20 22.7-21.4 A 16.2 A 12.3 A 162 A 7.2 A 0.88 0.15 0.84 0.75 2935 rpm 85 Nm 118 Nm 0.0368 kg m² 87.7 % 88.1 %











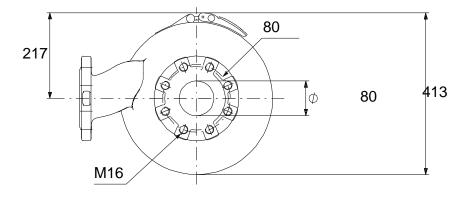
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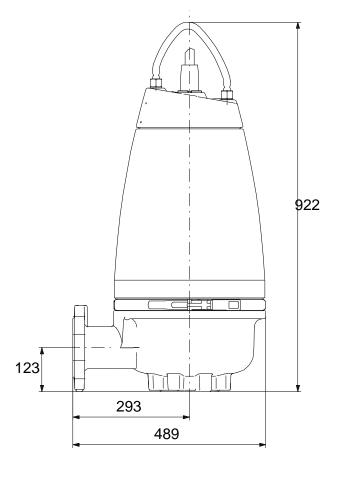
Description	Value
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Explosion proof:	no
Motor protec:	THERMAL SWITCH
Thermal protec:	internal
Length of cable:	10 m
Cable type:	LYNIFLEX
Type of cable plug:	NO PLUG
Controls:	
Control box:	not included
Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
Temp. sensor:	N
Others:	
Net weight:	195 kg
Country of origin:	HU
Custom tariff no.:	84137021

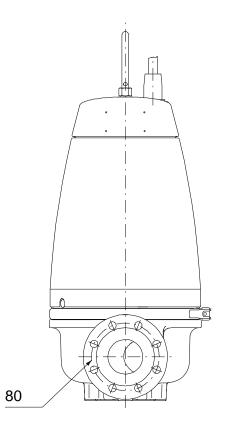


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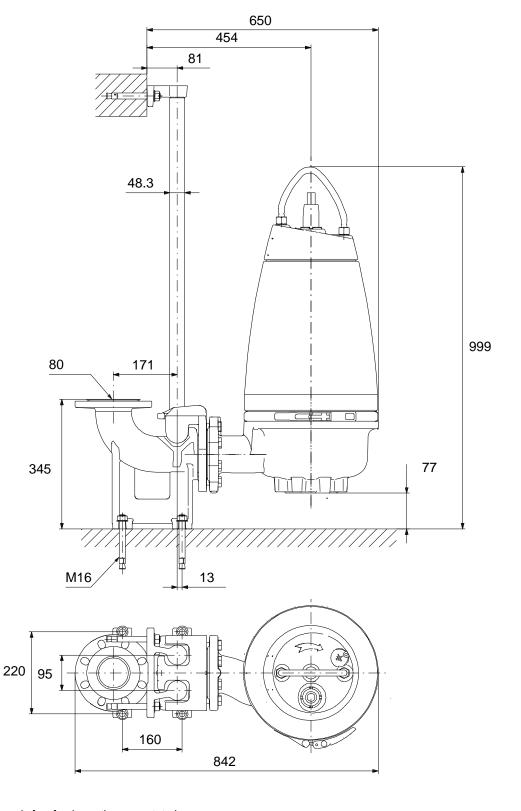
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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96047877 SEV.80.80.110.2.51D 50 Hz

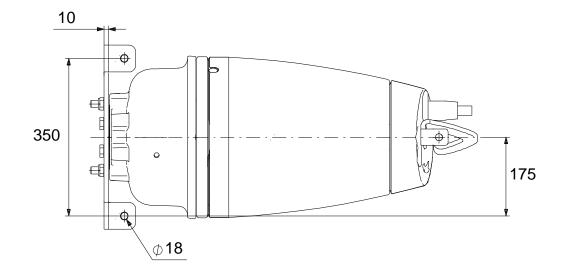


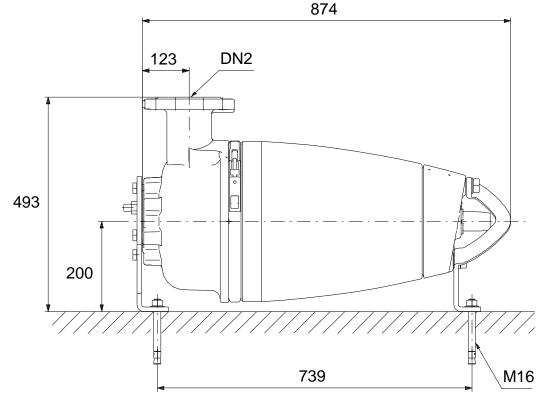
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96047877 SEV.80.80.110.2.51D 50 Hz



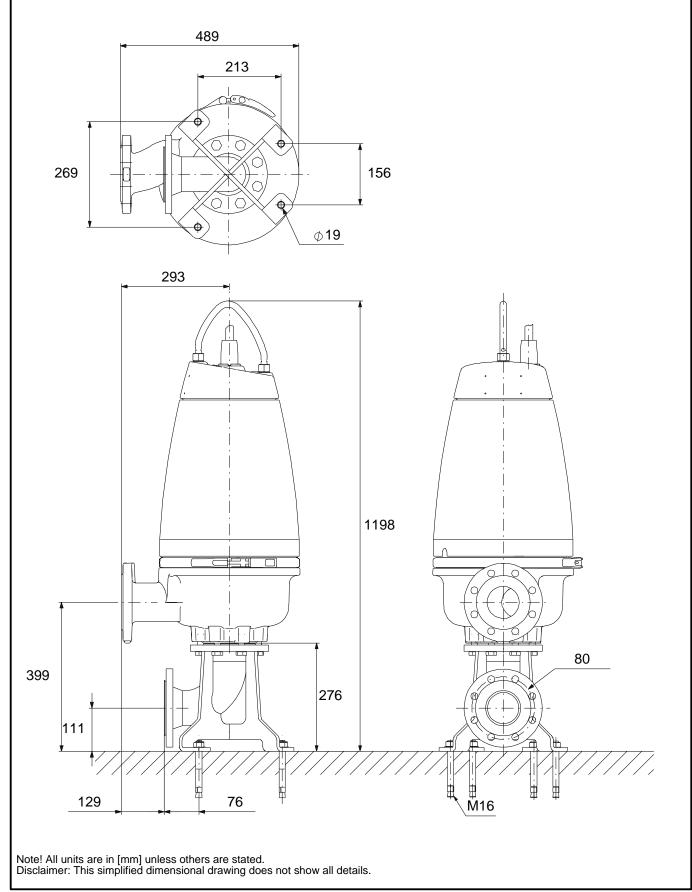


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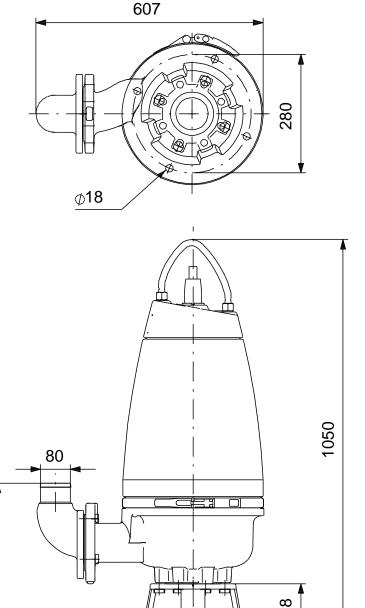
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Date: 28/01/2020

96047877 SEV.80.80.110.2.51D 50 Hz



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

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