

Date: 28/01/2020

Qty. | Description

1 SEV.80.80.40.A.EX.2.51D



Note! Product picture may differ from actual product

Product No.: 96177708

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. The pump is explosion-proof.

Controls:

Moisture sensor: with moisture sensors Water-in-oil sensor: with water-in-oil sensor

Temp. sensor:

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: 30 %
Approvals on nameplate: EN12050-1

Curve tolerance: ISO9906:2012 3B2

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: 4.8 kW
Rated power - P2: 4 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: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A 71 A Starting current: Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 83.3 % Motor efficiency at 3/4 load: 82.4 % Motor efficiency at 1/2 load: 79.2 % Number of poles: Start. method: star/delta Enclosure class (IEC 34-5): IP68

Insulation class (IEC 85): F
Explosion proof: yes

Ex-protection standard: Ex cd mb IIB T4,T3

Length of cable: 10 m
Cable type: LYNIFLEX
Type of cable plug: NO PLUG

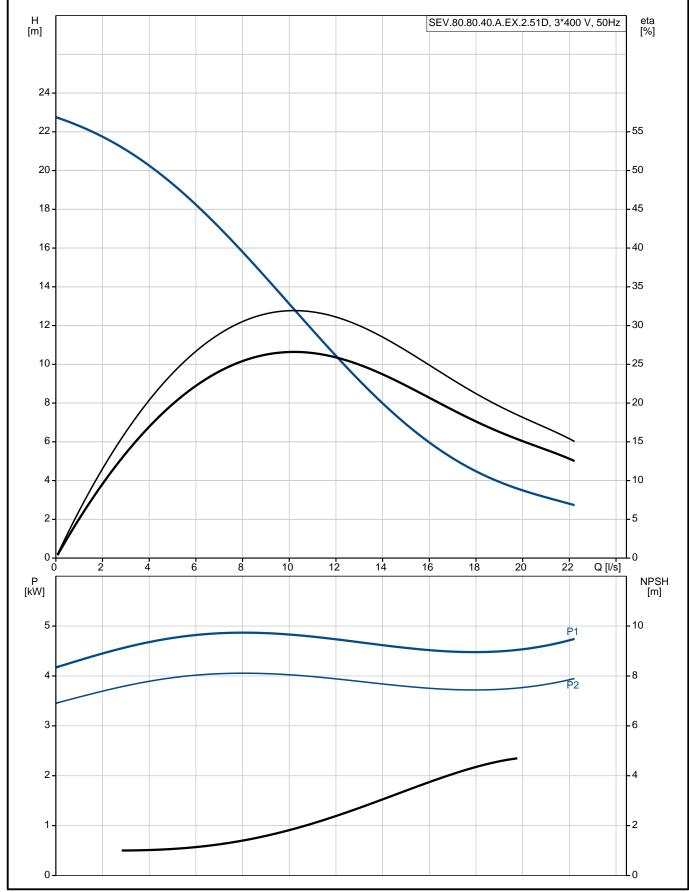
Others:

Net weight: 131 kg
Country of origin: HU
Custom tariff no.: 84137021



Date: 28/01/2020

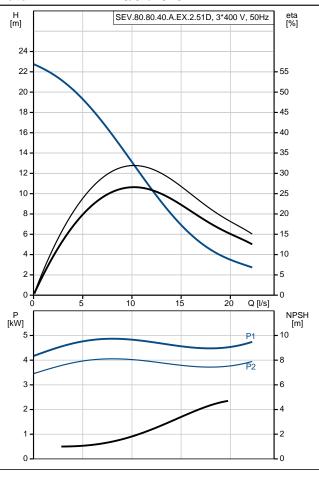
96177708 SEV.80.80.40.A.EX.2.51D 50 Hz

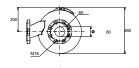


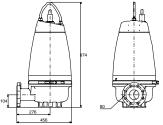


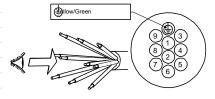
Date: 28/01/2020

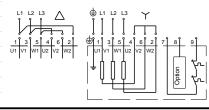
Description Value General information: SEV.80.80.40.A.EX.2.51D Product No: 96177708 EAN number: 5700830443545 5700830443545 5700830443545 Price: 4.337,00 GBP Technical: Max flow: Head max: 21.9 m Type of impeller: SUPER VORTEX Maximum particle size: 80 mm Primary shaft seal: CARBON/CERAMICS Max, hydraulic efficiency: 30 % Approvals on nameplate: EN12050-1 Curve tolerance: ISO9906:2012 3B2 Cooling jacket: with cooling jacket Materials: With cooling jacket Materials: With cooling jacket Maximum ambient temperature: 40 °C Maximum ambient temperature: 40 °C Maximum ambient temperature: 40 °C Maximum ambient temperature: DIN Pump outlet: DN 80 Pressure rating: PN 10 Maximum installation depth: 20 m Installation: horizontal or ver		
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Pressure rating: Maximum installation depth: Inst dry/wet: Installation: Installation: Pumped liquid: Liquid: Pumped liquid: Liquid temperature range: Density: Power input - P1: Rated power - P2: Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current: Rated curre		
Maximum installation depth: Inst dry/wet: Installation: Installation: Installation: Pumped liquid: Liquid: Pumped liquid: Liquid temperature range: Density: Power input - P1: Rated power - P2: A kW Mains frequency: So Hz Rated voltage: Voltage tolerance: H6/-10 % Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current: Cos phi - p.f. at no load: Cos phi - p.f. at 1/2 load: Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque: A load: B		
Inst dry/wet: Installation: Installation: Liquid: Pumped liquid: Any Newtonian liquid Liquid temperature range: Density: 998.2 kg/m³ Electrical data: Power input - P1: Rated power - P2: A kW Mains frequency: So Hz Rated voltage: Voltage tolerance: H6/-10 % Max starts per. hour: Rated current: Rated current at 3/4 load: Rated current at 1/2 load: Starting current at no load: Cos phi - p.f. at no load: Cos phi - p.f. at 1/2 load: DRATED SA NONE Reakdown torque: A NONE Month of inertia: Month of poles: DRY/SUBMERGED horizontal or vertical horizontal or vertical Any Newtonian liquid Any	•	
Installation: horizontal or vertical Liquid: Pumped liquid: Any Newtonian liquid Liquid temperature range: 0 40 °C Density: 998.2 kg/m³ Electrical data: Power input - P1: 4.8 kW Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at 1/2 load: 79.2 % Number of poles: 2		
Liquid: Pumped liquid: Any Newtonian liquid Liquid temperature range: Density: 998.2 kg/m³ Electrical data: Power input - P1: 4.8 kW Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: Cos phi - p.f. at no load: Cos phi - p.f. at 1/2 load: D.78 Cos phi - p.f. at 1/2 load: Cos phi - p.f. at 1/2 load: D.68 Rated speed: D.78 Rated speed: D.78 Rated speed: D.78 Rated speed: D.79 Rated speed: D.70 Rated speed		
Pumped liquid: Liquid temperature range: Density: 998.2 kg/m³ Electrical data: Power input - P1: Rated power - P2: A kW Mains frequency: So Hz Rated voltage: 3 x 380-415 V Voltage tolerance: H6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: Rated current at 1/2 load: Starting current: 71 A Rated current at no load: Cos phi - p.f. at no load: Cos phi - p.f. at 3/4 load: Rated speed: Cos phi - p.f. at 1/2 load: Document of inertia: Moment of inertia: Motor efficiency at 1/2 load: Number of poles: Any Newtonian liquid 0 40 °C O 40		horizontal or vertical
Liquid temperature range: 0 40 °C Density: 998.2 kg/m³ Electrical data: Power input - P1: 4.8 kW Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at 1/2 load: 79.2 % Number of poles: 2	-	A N. (
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Electrical data: Power input - P1: 4.8 kW Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 82.4 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2		
Power input - P1: 4.8 kW Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 79.2 % Number of poles: 2		998.2 kg/m³
Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 79.2 % Number of poles: 2		
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Voltage tolerance: +6/-10 % Max starts per. hour: 20 Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 83.3 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2		
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Rated current: 8.7-8.5 A Rated current at 3/4 load: 6.7 A Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 83.3 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2	Voltage tolerance:	+6/-10 %
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Rated current at 1/2 load: 5.4 A Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 83.3 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2	Rated current:	8.7-8.5 A
Starting current: 71 A Rated current at no load: 3.9 A Cos phi - power factor: 0.84 Cos phi - p.f. at no load: 0.15 Cos phi - p.f. at 3/4 load: 0.78 Cos phi - p.f. at 1/2 load: 0.68 Rated speed: 2925 rpm Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 83.3 % Motor efficiency at 3/4 load: 82.4 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2	Rated current at 3/4 load:	6.7 A
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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: Motor efficiency at full load: Motor efficiency at 1/2 load: Number of poles: 0.78 0.68 2925 rpm 40 Nm 54 Nm 0.0127 kg m² 83.3 % 82.4 % Motor efficiency at 3/4 load: 79.2 % Number of poles: 2	Cos phi - power factor:	0.84
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: Motor efficiency at full load: Motor efficiency at 1/2 load: Number of poles: 0.78 0.68 2925 rpm 40 Nm 54 Nm 0.0127 kg m² 83.3 % 82.4 % Motor efficiency at 3/4 load: 79.2 % Number of poles: 2	Cos phi - p.f. at no load:	0.15
Cos phi - p.f. at 1/2 load: Rated speed: Locked-rotor torque: Breakdown torque: Moment of inertia: Motor efficiency at 1/2 load: Number of poles: 0.68 2925 rpm 40 Nm 54 Nm 0.0127 kg m² 83.3 % 82.4 % Motor efficiency at 3/4 load: 79.2 % Number of poles: 2		0.78
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Locked-rotor torque: 40 Nm Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 83.3 % Motor efficiency at 3/4 load: 82.4 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2	· · · · · · · · · · · · · · · · · · ·	2925 rpm
Breakdown torque: 54 Nm Moment of inertia: 0.0127 kg m² Motor efficiency at full load: 83.3 % Motor efficiency at 3/4 load: 82.4 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2		•
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Motor efficiency at full load: 83.3 % Motor efficiency at 3/4 load: 82.4 % Motor efficiency at 1/2 load: 79.2 % Number of poles: 2	·	-
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Motor efficiency at 1/2 load: 79.2 % Number of poles: 2		
Number of poles: 2		
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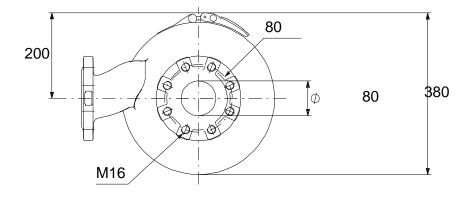
Date: 28/01/2020

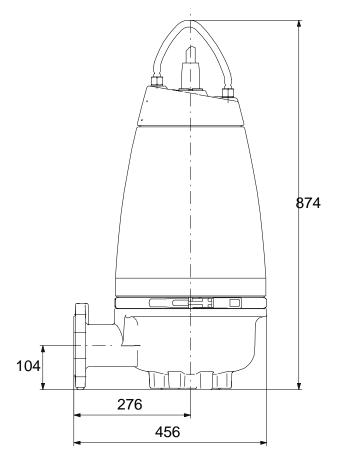
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Insulation class (IEC 85):	F
Explosion proof:	yes
Ex-protection standard:	Ex cd mb IIB T4,T3
Motor protec:	THERMAL SWITCH
Thermal protec:	internal
Length of cable:	10 m
Cable type:	LYNIFLEX
Type of cable plug:	NO PLUG
Controls:	
Control box:	not included
Moisture sensor:	with moisture sensors
Water-in-oil sensor:	with water-in-oil sensor
Temp. sensor:	Υ
Others:	
Net weight:	131 kg
Country of origin:	HU
Custom tariff no.:	84137021

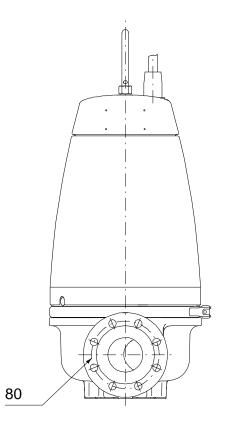


Date: 28/01/2020

96177708 SEV.80.80.40.A.EX.2.51D 50 Hz





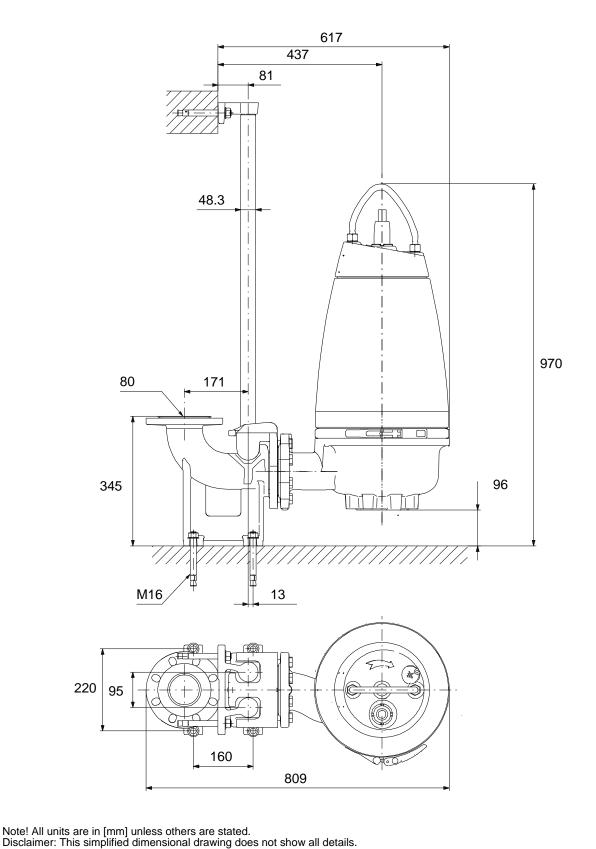


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 28/01/2020

96177708 SEV.80.80.40.A.EX.2.51D 50 Hz

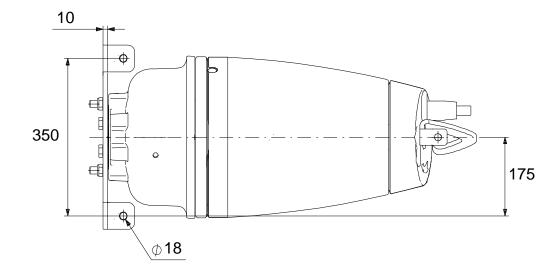


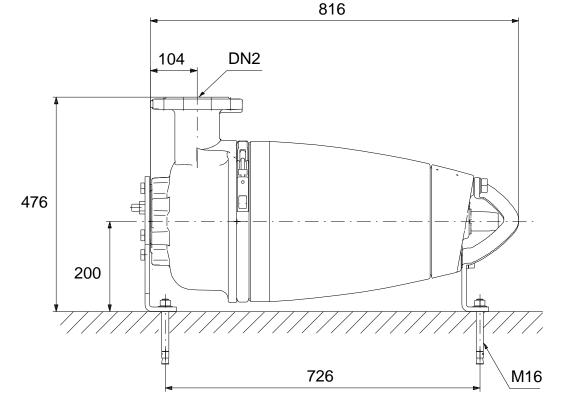
Printed from Grundfos Product Centre [2020.01.003]



Date: 28/01/2020

96177708 SEV.80.80.40.A.EX.2.51D 50 Hz



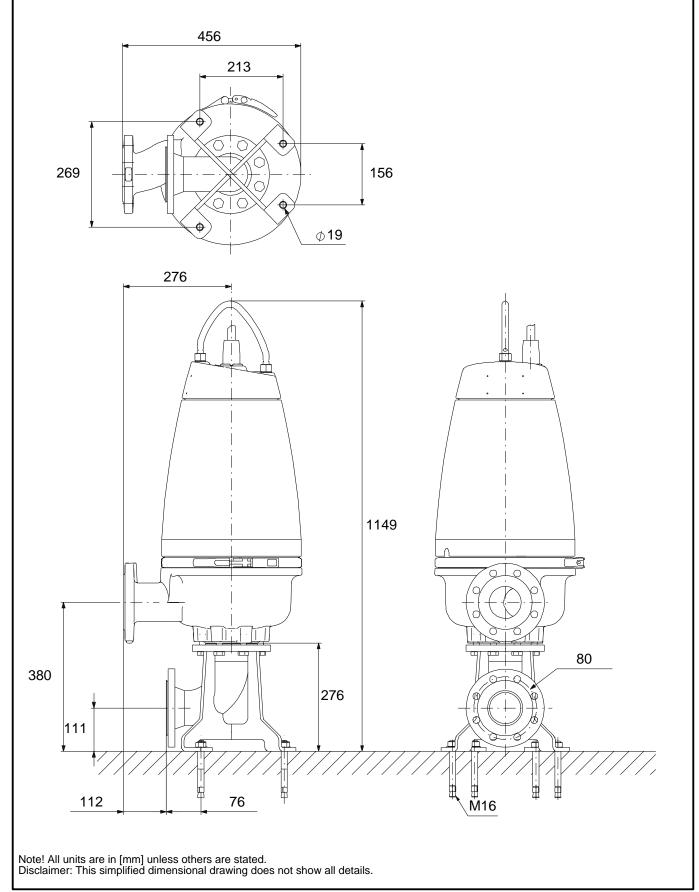


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 28/01/2020

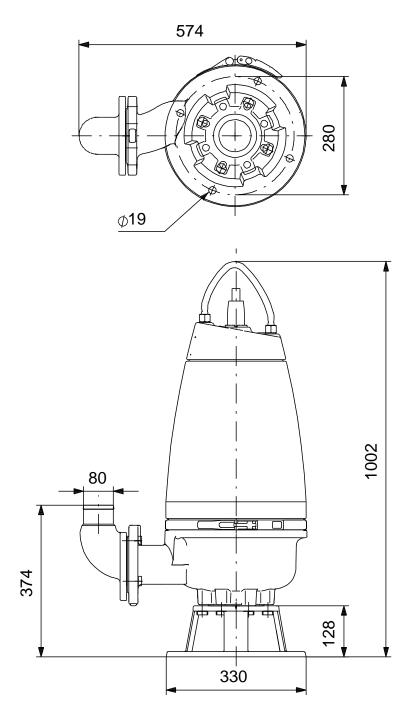
96177708 SEV.80.80.40.A.EX.2.51D 50 Hz





Date: 28/01/2020

96177708 SEV.80.80.40.A.EX.2.51D 50 Hz



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