

Date: 10/11/2020

Qty. | Description

1 SP 160-8-A



Note! Product picture may differ from actual product

Product No.: 200243A8

Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. This pump carries drinking water approval.

The pump is fitted with a 92 kW MMS8000 motor with sand shield, water-lubricated journal bearings and a volume compensating diaphragm. The rewindable motor contruction allows complete access to the windings for easy rewinding. The stator windings are PE/PA insulated made for continous operations (S1). Suitable for temperatures up to 50 °C. The motor is fitted with a mechanical shaft seal.

The motor is not fitted with a temperature sensor. If temperature monitoring is desired, a Pt100 or Pt1000 sensor can be fitted.

The motor is for direct-on-line starting (DOL).

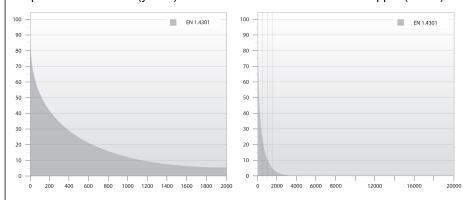
Further product details

The pump is suitable for applications similar to the following:

- raw-water supply
- irrigation
- groundwater lowering
- pressure boosting
- fountain applications.

Pump

All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosionand wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relation to the temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).



The elastomer parts in the pump are made of NBR (Nitrile-Butadiene Rubber) which ensures good wear resistance and long service intervals.

In case the pump is used for pumping water with high content of hydrocarbons or solvents, Grundfos offers FKM rubber parts (Fluorocarbon) which are oil and temperature-resistant up to 90 °C.



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The pump is built with octagonal bearings with sand flush channels that minimise wear. As wear of the pump is inevitable, the pump design allows for easy replacement of all internal wear parts (bearings, impeller, wear rings and seal rings) to maintain high performance and a long lifetime.

The suction interconnector is fitted with a strainer to prevent large particles from entering the pump. The suction interconnector is designed to comply with NEMA standards for motor mounting/dimensions.

Motor

The winding wire is made from pure electrolytic cobber insulated by extruded two layers of PE/PA with high dielectric strength properties allowing direct contact between the motor fluid and winding wire. This ensures the best possible cooling of the winding wire. The PA layer ensures high mechanical wear properties of the winding wire

The shaft seal faces are SiC/SiC. The material combination gives good performance when abrasive particles (sand) is present. Together with the shaft seal housing, the sand shield forms a labyrinth seal, which during normal operating conditions prevents penetration of sand particles into the shaft seal. This shaft seal is drinking water approved.

The motor can be fitted with a Pt100 or Pt1000 sensor that together with a control unit ensures that the maximum operating temperature conditions are not exceeded.

Liquid:

Pumped liquid: Water

Maximum liquid temperature: 45 °C

Max liquid t at 0.15 m/sec: 40 °C

Max liquid t at 0.5 m/sec: 45 °C

Selected liquid temperature: 20 °C

Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2900 rpm

Rated flow: 160 m³/h
Rated head: 156 m
Shaft seal for motor: SIC/SIC

Curve tolerance: ISO9906:2012 3B

Motor version: T45

Materials:

Pump: Stainless steel

EN 1.4301

AISI AISI 304

Impeller: Stainless steel

EN 1.4301

AISI AISI 304

Motor: Cast iron

DIN W.-Nr. 0.6025 ASTM 35-40

Installation:

Pump outlet: RP6
Motor diameter: 8 inch

Electrical data:

Motor type: MMS8000
Rated power - P2: 92 kW
Power (P2) required by pump: 92 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-400-415 V
Rated current: 194-186-186 A
Starting current: 520-590-620 %
Cos phi - power factor: 0.88-0.86-0.83
Rated speed: 2870-2890-2890 rpm

Start. method: direct-on-line



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Enclosure class (IEC 34-5): IP68
Built-in temp. transmitter: no
Motor No: 96476894
Windings: PE2/PA

Others:

Minimum efficiency index, MEI ≥: -.--

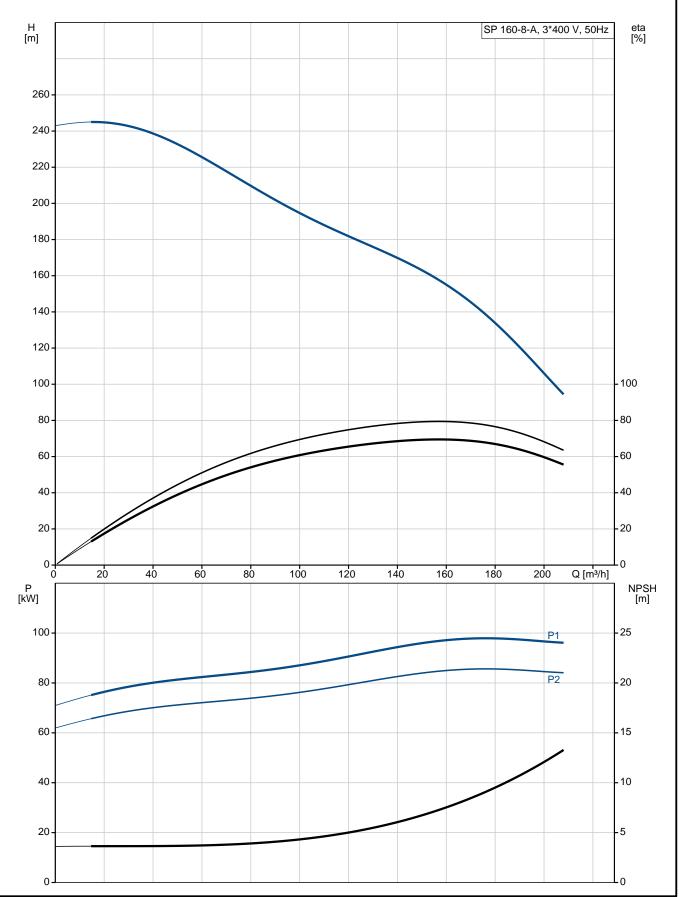
ErP status: EuP Standalone/Prod.

Net weight: 362 kg
Gross weight: 429 kg
Shipping volume: 0.529 m³
Country of origin: GB
Custom tariff no.: 84137029



Date: 10/11/2020

200243A8 SP 160-8-A 50 Hz

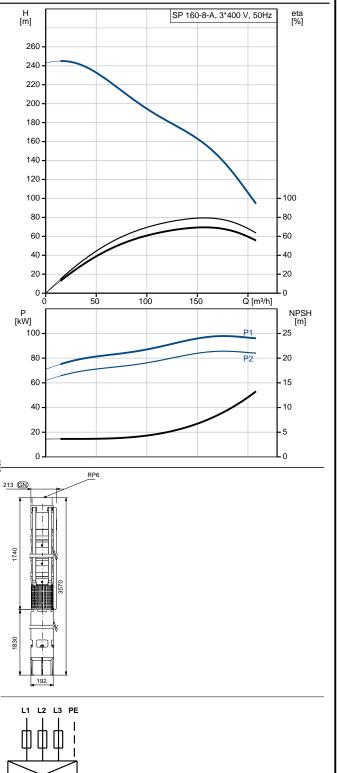




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Date: 10/11/2020

General information: Product name: SP 160-8-A Product No: 200243A8 EAN number: 5700318357852 Technical: 2900 rpm Pump speed on which pump data are based: 2900 rpm Rated flow: 160 m³/h Rated head: 156 m Stages: 8 Impeller reduc.: A Shaft seal for motor: SIC/SIC Curve tolerance: ISO9906:2012 3B Model: B Valve: YES Motor version: T45 Materials: YES Pump: Stainless steel Pump: AISI AISI 304 Impeller: Stainless steel Impeller: EN 1.4301 Impeller: AISI AISI 304 Motor: Cast iron Motor: DIN WNr. 0.6025 Motor: ASTM 35-40 Installation: Pump outlet: RP6 Motor diameter: 8 inch	Description	Value
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Maximum liquid temperature: 45 °C Max liquid t at 0.15 m/sec: 40 °C Max liquid t at 0.5 m/sec: 45 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 92 kW Power (P2) required by pump: 92 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 194-186-186 A Starting current: 520-590-620 % Cos phi - power factor: 0.88-0.86-0.83 Rated speed: 2870-2890-2890 rpm Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Motor protec: NONE Thermal protec: external Built-in temp. transmitter: no Motor No: 96476894 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status:	•	Water
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ErP status:	Minimum efficiency index, MEI ≥:	
	ErP status:	EuP Standalone/Prod.
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	inet weight:	362 Kg





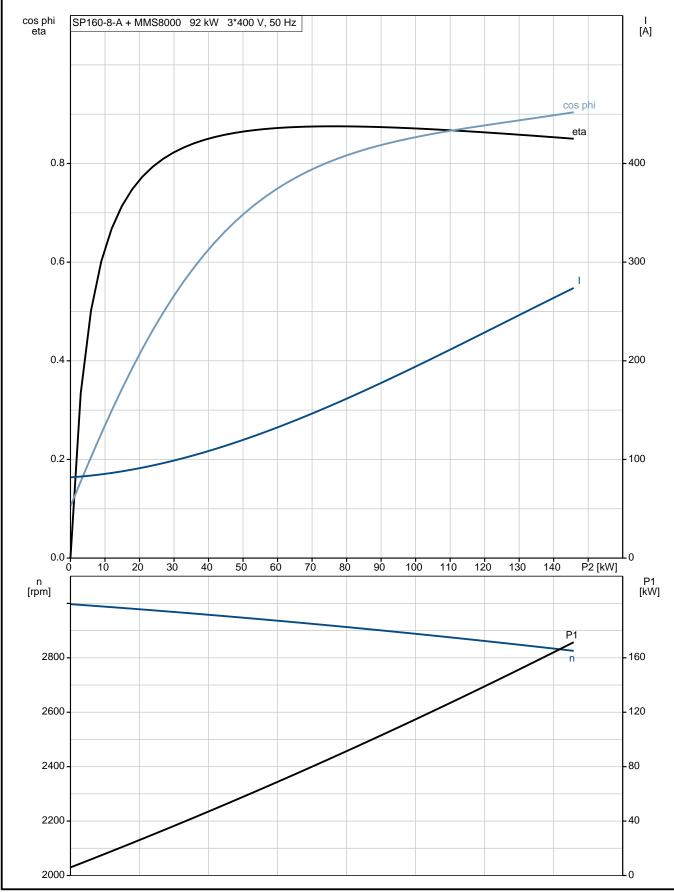
Date: 10/11/2020

Description	Value
Gross weight:	429 kg
Shipping volume:	0.529 m ³
Country of origin:	GB
Custom tariff no.:	84137029



Date: 10/11/2020

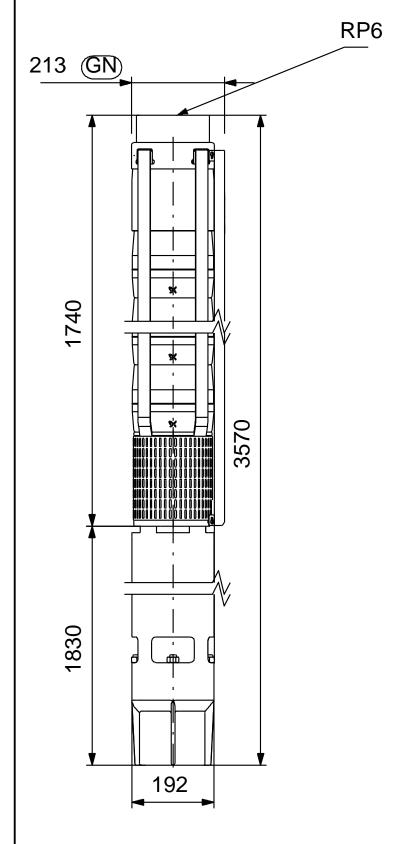
200243A8 SP 160-8-A 50 Hz





Date: 10/11/2020

200243A8 SP 160-8-A 50 Hz

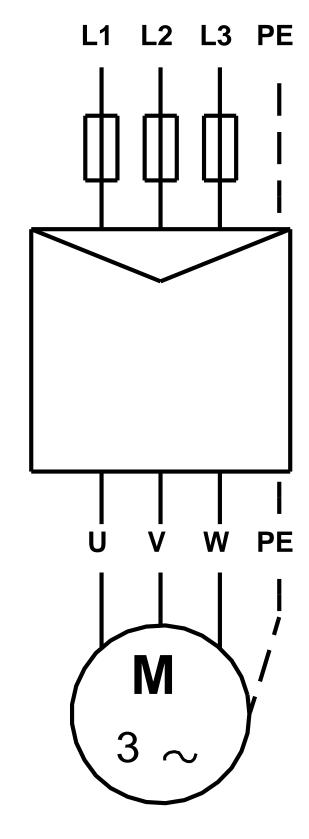


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 10/11/2020

200243A8 SP 160-8-A 50 Hz



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