

Date: 10/11/2020

Qty. | Description

1 SP 125-11



Note! Product picture may differ from actual product

Product No.: 17A04311

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 110 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).

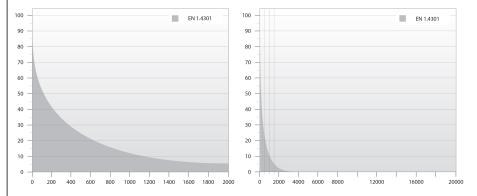
Further product details

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

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

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: 40 °C Max liquid t at 0.15 m/sec: 35 °C Max liquid t at 0.5 m/sec: 40 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m3

Technical:

Pump speed on which pump data are based: 2900 rpm

Rated flow: 125 m³/h Rated head: 225 m Shaft seal for motor: SIC/SIC

Curve tolerance: ISO9906:2012 3B

Motor version: T40

Materials:

Stainless steel Pump:

EN 1.4301

AISI AISI 304

Impeller: Stainless steel

EN 1.4301 AISI AISI 304

Cast iron

Motor: DIN W.-Nr. 0.6025

ASTM 35-40

Installation:

RP6 Pump outlet: Motor diameter: 8 inch

Electrical data:

MMS8000 Motor type: Rated power - P2: 110 kW 110 kW Power (P2) required by pump: Mains frequency: 50 Hz

Rated voltage: 3 x 380-400-415 V Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 rpm

Start. method: direct-on-line



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Enclosure class (IEC 34-5): IP68
Built-in temp. transmitter: no

Motor No: 96511375 Windings: PE2/PA

Others:

Minimum efficiency index, MEI ≥: -.--

ErP status: EuP Standalone/Prod.

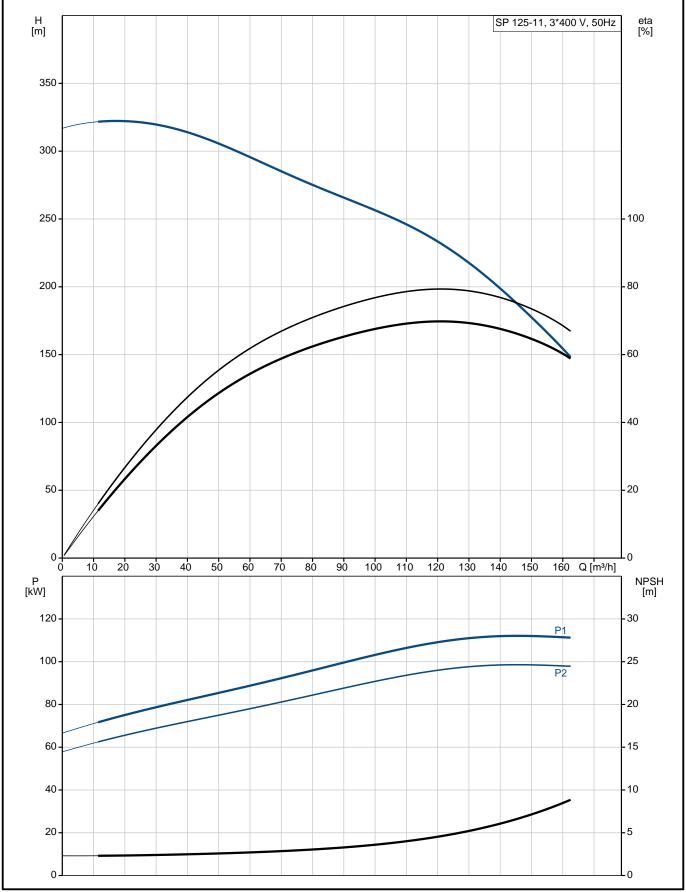
Net weight: 442 kg
Gross weight: 523 kg
Shipping volume: 0.698 m³
Country of origin: DK

Custom tariff no.: 84137029



Date: 10/11/2020

17A04311 SP 125-11 50 Hz

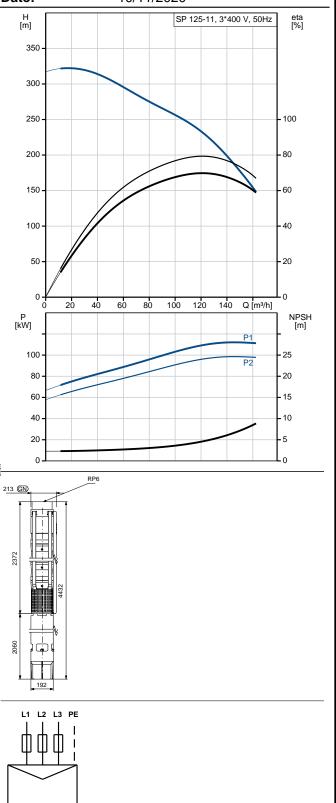




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Date: 10/11/2020

General information: Product name: SP 125-11 Product No: 17A04311 EAN number: 5700318356602 Technical: 2900 rpm Pump speed on which pump data are based: 2900 rpm Rated flow: 125 m³/h Rated head: 225 m Stages: 11 Impeller reduc.: NONE Shaft seal for motor: SIC/SIC Curve tolerance: ISO9906:2012 3B Model: D Valve: YES Motor version: T40 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
Product No: 17A04311 EAN number: 5700318356602 Technical: 5700318356602 Technical: 2900 rpm Pump speed on which pump data are based: 2900 rpm Rated flow: 125 m³/h Rated head: 225 m Stages: 11 Impeller reduc.: NONE Shaft seal for motor: SIC/SIC Curve tolerance: ISO9906:2012 3B Model: D Valve: YES Modor: T40 Materials: T40 Pump: Stainless steel Pump: AISI AISI 304 Pump: AISI AISI 304 Impeller: AISI AISI 304 Impeller: AISI AISI 304 Motor: Cast iron Motor: Cast iron Motor: ASTM 35-40 Installation: Impeller: Pump outlet: RP6 Motor diameter: 8 inch Liquid: Vater Maxiquid t at 0.15 m/sec: <td></td> <td>value</td>		value
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Pump: EN 1.4301 Pump: AISI AISI 304 Impeller: Stainless steel Impeller: AISI AISI 304 Motor: Cast iron Motor: DIN WNr. 0.6025 Motor: ASTM 35-40 Installation: Pump outlet: Pump outlet: RP6 Motor diameter: 8 inch Liquid: Water Pumped liquid: Water Maximum liquid temperature: 40 °C Max liquid t at 0.15 m/sec: 35 °C Max liquid t at 0.5 m/sec: 40 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: MMS8000 Motor type: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 110 kW Power (P2) required by pump: 110 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 <tr< td=""><td>Materials:</td><td></td></tr<>	Materials:	
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Max liquid t at 0.5 m/sec: Selected liquid temperature: Density: Peterrical data: Motor type: MMS8000 Applic. motor: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Starting current: Cos phi - power factor: Enclosure class (IEC 34-5): Motor No: Motor No: Motor No: Selectrical data: 40 °C 20 °C P98.2 kg/m³ MMS8000 ARNB8000 ARNDFOS ARNB8000 ARNBR8000 ARNBR8000 ARNBR800 ARNBR800 ARNBR800 ARNBR800 ARNBR80	Maximum liquid temperature:	40 °C
Selected liquid temperature: Density: Peterrical data: Motor type: Applic. motor: Rated power - P2: Power (P2) required by pump: Rated voltage: Rated voltage: Starting current: Cos phi - power factor: Rated speed: Enclosure class (IEC 34-5): Motor No: Motor No: Motor No: Density: 998.2 kg/m³ MMS8000 MMS8000 GRUNDFOS RRUNDFOS ANDE 110 kW MMS8000 APPLOS ARUNDFOS ANDE 110 kW MMS8000 ARUNDFOS 110 kW MMS8000 ARUNDFOS 110 kW MOVE 110 kW MOVE 110 kW MOVE 1230-224-222 A Starting current: 520-580-600 % 0.89-0.87-0.84 Rated speed: 2870-2890-2900 rpm direct-on-line IP68 MONE Thermal protec: External Built-in temp. transmitter: no Motor No: 96511375 Windings: PE2/PA Others: EuP Standalone/Prod.	Max liquid t at 0.15 m/sec:	35 °C
Density: 998.2 kg/m³ Electrical data: Motor type: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 110 kW Power (P2) required by pump: 110 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: EuP Standalone/Prod.	Max liquid t at 0.5 m/sec:	40 °C
Electrical data: Motor type: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 110 kW Power (P2) required by pump: 110 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: EuP Standalone/Prod.	Selected liquid temperature:	20 °C
Motor type: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 110 kW Power (P2) required by pump: 110 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: ErP status: EuP Standalone/Prod.	Density:	998.2 kg/m³
Applic. motor: Rated power - P2: Power (P2) required by pump: Mains frequency: So Hz Rated voltage: Rated voltage: Rated current: Sourcent: Sour	Electrical data:	
Rated power - P2: 110 kW Power (P2) required by pump: 110 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: IP68 Minimum efficiency index, MEI â%	Motor type:	MMS8000
Power (P2) required by pump: 110 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI â% ErP status: EuP Standalone/Prod.	Applic. motor:	GRUNDFOS
Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: Image: Personal starting of the protect of the p	Rated power - P2:	110 kW
Rated voltage: 3 x 380-400-415 V Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI â%*: ErP status: EuP Standalone/Prod.	Power (P2) required by pump:	110 kW
Rated current: 230-224-222 A Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: ErP status: EuP Standalone/Prod.	Mains frequency:	50 Hz
Starting current: 520-580-600 % Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: ErP status: EuP Standalone/Prod.	Rated voltage:	3 x 380-400-415 V
Cos phi - power factor: 0.89-0.87-0.84 Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI â%*: ErP status: EuP Standalone/Prod.		
Rated speed: 2870-2890-2900 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: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: EuP Standalone/Prod.	Starting current:	520-580-600 %
Start. method: Enclosure class (IEC 34-5): Motor protec: Thermal protec: Built-in temp. transmitter: Motor No: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: direct-on-line direct-on-line idea (irect-on-line) external potential external potential		
Enclosure class (IEC 34-5): Motor protec: Thermal protec: Built-in temp. transmitter: Motor No: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: IP68 NONE external po 96511375 PE2/PA EuP Standalone/Prod.	·	2870-2890-2900 rpm
Motor protec: Thermal protec: Euilt-in temp. transmitter: Motor No: Motor No: Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: NONE external NONE 96511375 PE2/PA EuP Standalone/Prod.		
Thermal protec: external Built-in temp. transmitter: no Motor No: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: EuP Standalone/Prod.		
Built-in temp. transmitter: Motor No: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI â%¥: ErP status: no 96511375 PE2/PA PE2/PA EuP Standalone/Prod.	·	
Motor No: 96511375 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: EuP Standalone/Prod.		external
Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: EuP Standalone/Prod.		no
Others: Minimum efficiency index, MEI ≥: ErP status: EuP Standalone/Prod.	Motor No:	
Minimum efficiency index, MEI ≥: ErP status: EuP Standalone/Prod.	Windings:	PE2/PA
ErP status: EuP Standalone/Prod.	Others:	
ErP status:	Minimum efficiency index, MEI ≥:	-,
	ErP status:	EuP Standalone/Prod.
inet weight: 442 kg		440 kg
	ivet weight:	442 Kg





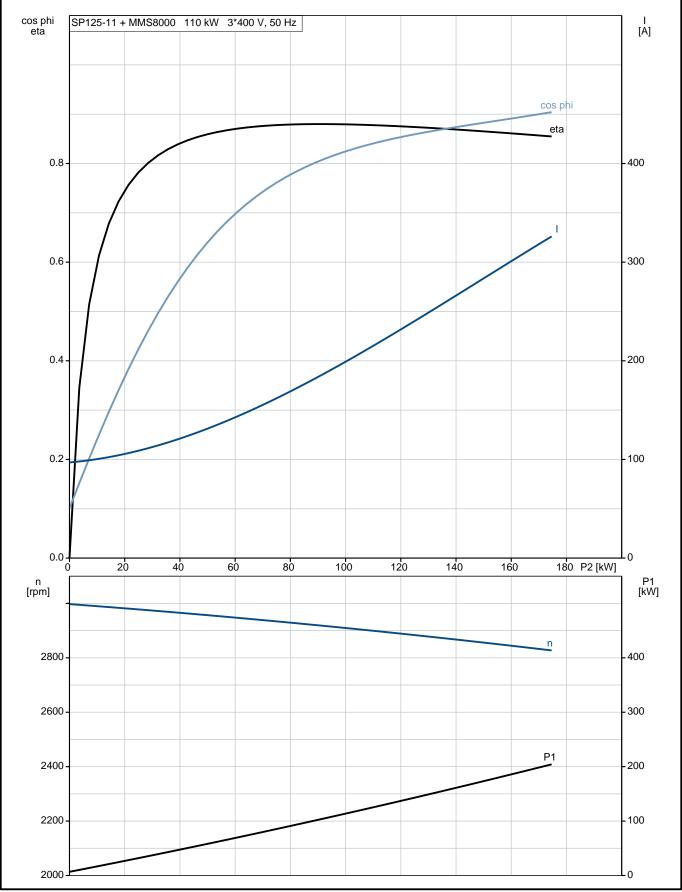
Date: 10/11/2020

Description	Value
Gross weight:	523 kg
Shipping volume:	0.698 m³
Country of origin:	DK
Custom tariff no.:	84137029



Date: 10/11/2020

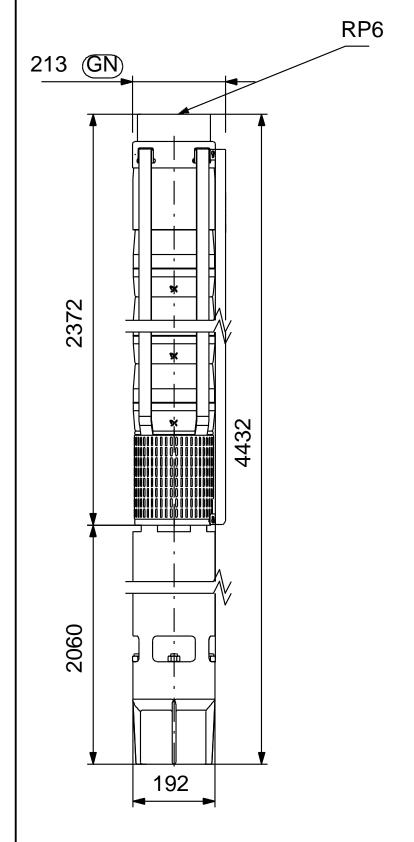
17A04311 SP 125-11 50 Hz





Date: 10/11/2020

17A04311 SP 125-11 50 Hz

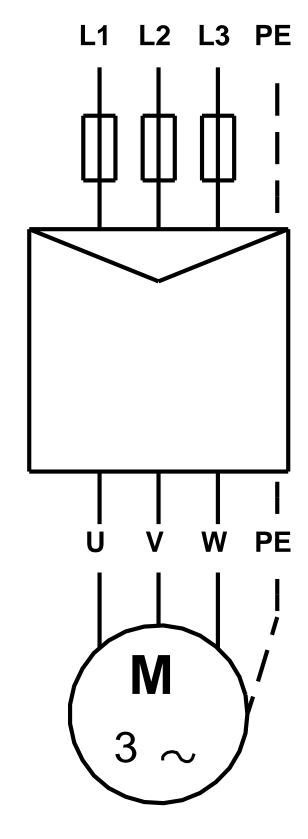


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 10/11/2020

17A04311 SP 125-11 50 Hz



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