

Date: 10/11/2020

Qty. | Description

1 SP 60-28



Note! Product picture may differ from actual product

Product No.: 14A04328

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 55 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:

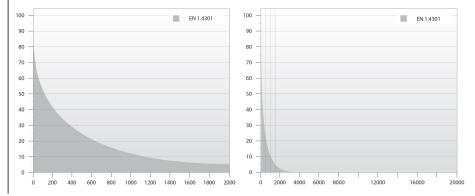
- raw-water supply
- irrigation
- groundwater lowering
- pressure boosting
- fountain applications.

The Grundfos SP pump is renowned for its high efficiency and already complies with the requirements of the Minimum Efficiency Index, and therefore Grundfos is amongst the best in class within submersible pumps.



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).





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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.

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: 60 m³/h
Rated head: 224 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: R4
Motor diameter: 8 inch

Electrical data:

Motor type: MMS8000
Rated power - P2: 55 kW
Power (P2) required by pump: 55 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A



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 Starting current:
 540-590-630 %

 Cos phi - power factor:
 0.88-0.85-0.83

 Rated speed:
 2890-2900-2910 rpm

Start. method: direct-on-line

Enclosure class (IEC 34-5): IP68
Built-in temp. transmitter: no
Motor No: 96476892
Windings: PE2/PA

Others:

Minimum efficiency index, MEI ≥: 0.40

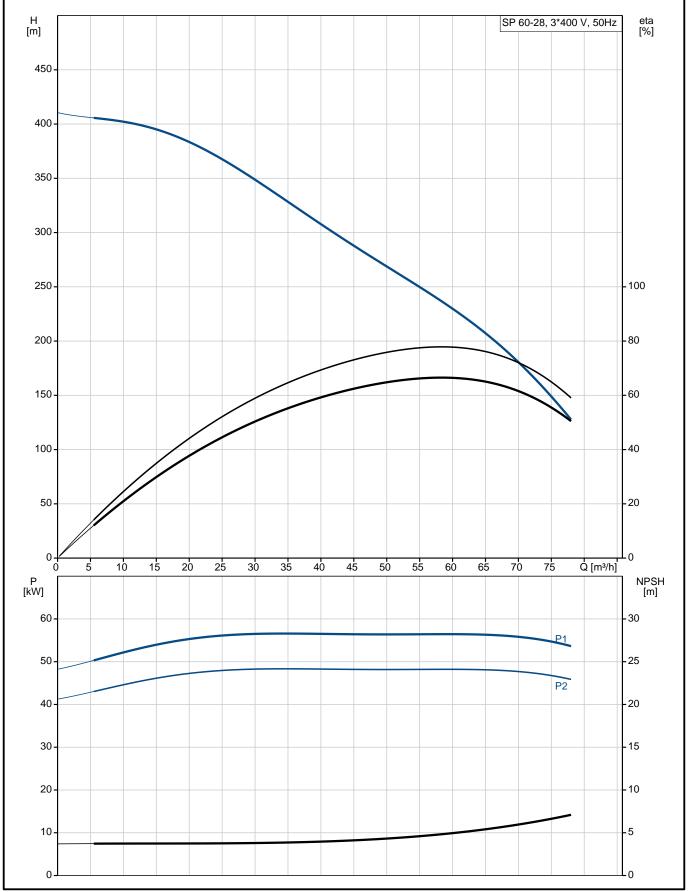
ErP status: EuP Standalone/Prod.

Net weight: 299 kg
Gross weight: 396 kg
Shipping volume: 0.784 m³
Country of origin: GB
Custom tariff no.: 84137029



Date: 10/11/2020

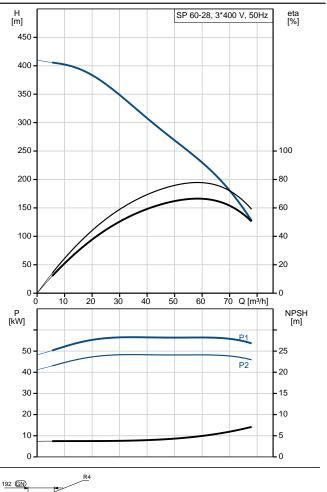
14A04328 SP 60-28 50 Hz

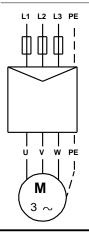




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General information:	Description	Value
Product No: 14A04328 EAN number: 5700318913041 Technical: 2900 rpm Pump speed on which pump data are based: 2900 rpm Rated flow: 60 m³/h Rated head: 224 m Stages: 28 Impeller reduc.: NONE Shaft seal for motor: SIC/SIC Curve tolerance: ISO9906:2012 3B Model: B Valve: YES Motor Version: T45 Materials: T45 Pump: Stainless steel Pump: AISI AISI 304 Impeller: Stainless steel Impeller: Stainless steel Impeller: AISI AISI 304 Impeller: AISI AISI 304 Motor: Cast iron Motor: Cast iron Motor: ASTM 35-40 Installation: FM Pump outlet: R4 Motor diameter: 8 inch Liquid: Water Maxiliquid t at 0.15 m/		Value
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Pump: EN 1.4301 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: R4 Motor diameter: 8 inch 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 Electrical data: MMS8000 Motor type: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 55 kW Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - powe	Materials:	
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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 Electrical data: Motor type: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 55 kW Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 EuP Standalone/Prod.		8 inch
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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: 55 kW Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 EuP Standalone/Prod.	Pumped liquid:	Water
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Max liquid t at 0.5 m/sec: Selected liquid temperature: Density: Petertrical data: Motor type: MMS8000 Applic. motor: Rated power - P2: Power (P2) required by pump: Rated voltage: Rated voltage: Rated current: Starting current: Cos phi - power factor: Enclosure class (IEC 34-5): Motor No: Motor No: Motor No: Motor No: Motor protec: Minimum efficiency index, MEI ≥: Density: 20 °C 40 VIII 49 VI		40 °C
Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: Motor type: Applic. motor: Rated power - P2: Power (P2) required by pump: Stated voltage: Rated voltage: Starting current: Cos phi - power factor: Start. method: Enclosure class (IEC 34-5): Motor No: Motor No: Motor No: Density: 998.2 kg/m³ MMS8000 MMS8000 ARUNDFOS StaW MMS8000 ARUNDFOS StaW MAINS frequency: 50 Hz Rated voltage: 3 x 380-400-415 V 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 rpm Start. method: direct-on-line IP68 MONE Thermal protec: External Built-in temp. transmitter: no Motor No: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: EuP Standalone/Prod.	•	45 °C
Density: 998.2 kg/m³ Electrical data: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 55 kW Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI â%*: 0.40 ErP status: EuP Standalone/Prod.		20 °C
Electrical data: Motor type: MMS8000 Applic. motor: GRUNDFOS Rated power - P2: 55 kW Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.		998.2 kg/m³
Applic. motor: GRUNDFOS Rated power - P2: 55 kW Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI â%*: 0.40 ErP status: EuP Standalone/Prod.	Electrical data:	•
Rated power - P2: 55 kW Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI â%*: 0.40 ErP status: EuP Standalone/Prod.	Motor type:	MMS8000
Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI â%¥: 0.40 ErP status: EuP Standalone/Prod.	Applic. motor:	GRUNDFOS
Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.	Rated power - P2:	55 kW
Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.	Power (P2) required by pump:	55 kW
Rated current: 116-114-112 A Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.	Mains frequency:	50 Hz
Starting current: 540-590-630 % Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.	Rated voltage:	3 x 380-400-415 V
Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI â%**: 0.40 ErP status: EuP Standalone/Prod.		116-114-112 A
Cos phi - power factor: 0.88-0.85-0.83 Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI â%**: 0.40 ErP status: EuP Standalone/Prod.	Starting current:	540-590-630 %
Rated speed: 2890-2900-2910 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: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.		0.88-0.85-0.83
Start. method: Enclosure class (IEC 34-5): Motor protec: Thermal protec: Built-in temp. transmitter: Motor No: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: Unimidine direct-on-line identify and index of the second ind		2890-2900-2910 rpm
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Motor protec: Thermal protec: Built-in temp. transmitter: Motor No: Windings: Others: Minimum efficiency index, MEI â%¥: ErP status: NONE external no 96476892 PE2/PA Others: 0.40 EuP Standalone/Prod.		IP68
Thermal protec: external Built-in temp. transmitter: no Motor No: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.		NONE
Built-in temp. transmitter: Motor No: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: ErP status: No.40 EuP Standalone/Prod.	•	
Motor No: 96476892 Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.		
Windings: PE2/PA Others: Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.		
Others:Minimum efficiency index, MEI ≥:0.40ErP status:EuP Standalone/Prod.		
Minimum efficiency index, MEI ≥: 0.40 ErP status: EuP Standalone/Prod.		<u> </u>
ErP status: EuP Standalone/Prod.		0.40
Net weight: 299 kg		
	Net weight:	299 kg







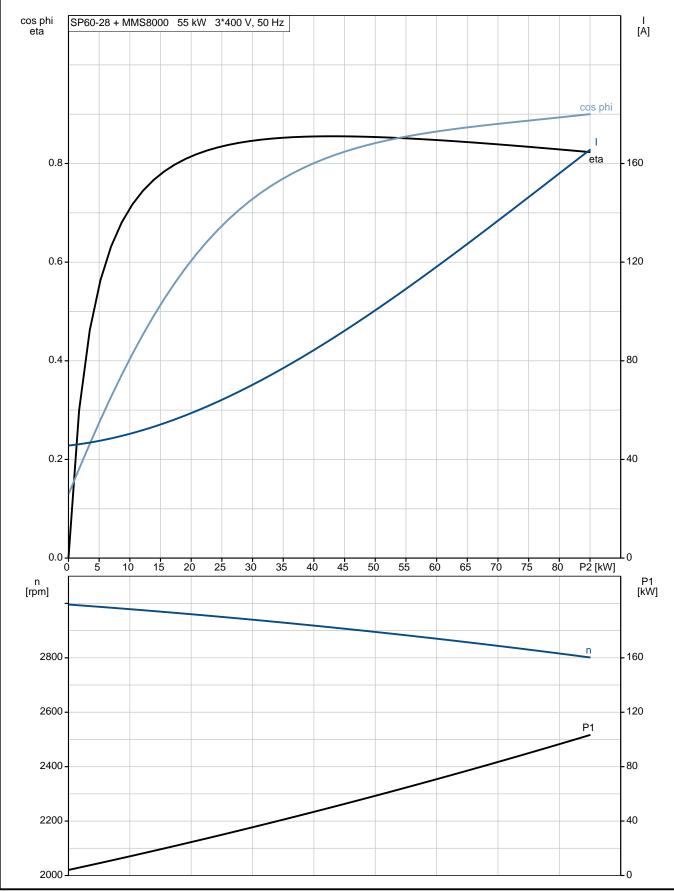
Date: 10/11/2020

Description	Value
Gross weight:	396 kg
Shipping volume:	0.784 m³
Country of origin:	GB
Custom tariff no.:	84137029



Date: 10/11/2020

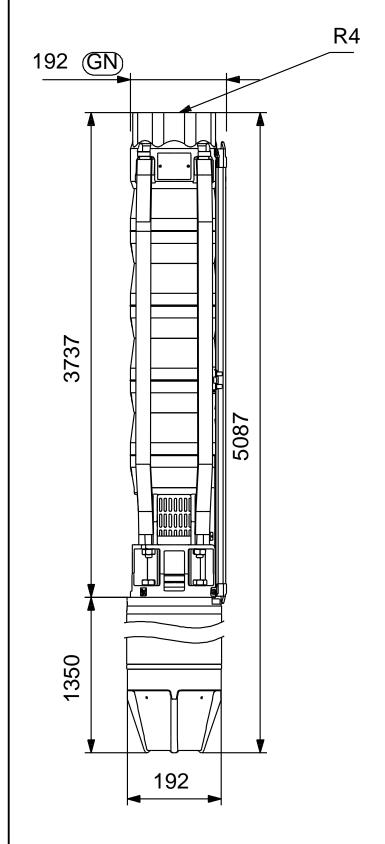
14A04328 SP 60-28 50 Hz





Date: 10/11/2020

14A04328 SP 60-28 50 Hz

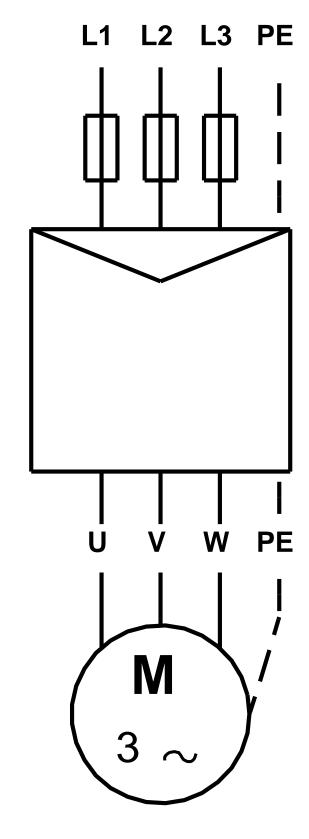


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 10/11/2020

14A04328 SP 60-28 50 Hz



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