SP5A-17 1.5kW 380-415V 50Hz

Grundfos pump 5001917



Thank you for your interest in our products. Please contact us for more information, or visit our website

https://www.lenntech.com/grundfos/SPFAM/5001917/SP-5A-17.html

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Position	Qty.	Description
	1	**SP 5A-17**



Note! Product picture may differ from actual product

Product No.: On request

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 1.5 kW MS402 motor with sand shield, lip seal, water-lubricated journal bearings and a volume compensating diaphragm. The motor is a canned type submersible motor offering good mechanical stability and high efficiency. Suitable for temperatures up to 40 °C.

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

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

Further product details

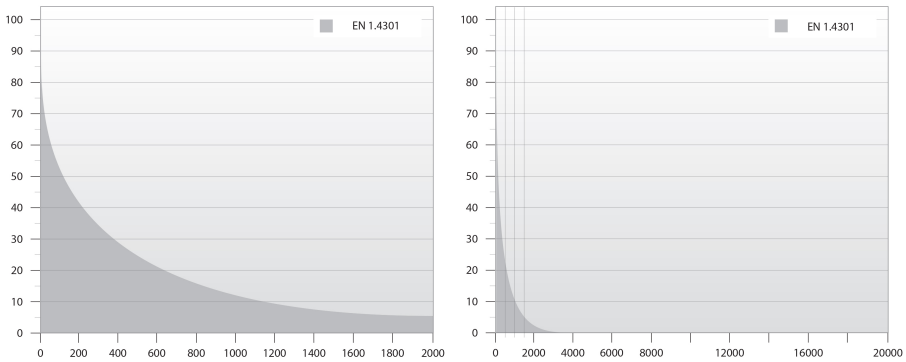
The pump is suitable for applications similar to the following:

- 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 corrosion- and 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) and TPU (Thermoplastic Poly-Urethane) which offers good wear resistance and long service intervals.

Position	Qty.	Description

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 stator is hermetically encapsulated in stainless steel and the windings are embedded in polymer compound. This results in high mechanical stability, optimum cooling and reduces the risk of short circuits in the windings.

The shaft seal is of the lip seal type characterised by low friction against the rotor shaft. The NBR elastomer offers good wear resistance, good elasticity and resistance to particles. The rubber material is approved for use in potable 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:	40 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³

Technical:

Rated flow:	5 m³/h
Rated head:	70 m
Shaft seal for motor:	LIPSEAL
Approvals on nameplate:	CE,EAC
Curve tolerance:	ISO9906:2012 3B
Motor version:	T40

Materials:

Pump:	Stainless steel EN 1.4301 AISI 304
Impeller:	Stainless steel EN 1.4301 AISI 304
Motor:	Stainless steel DIN W.-Nr. 1.4301 AISI 304

Installation:

Pump outlet:	Rp1 1/2
Motor diameter:	4 inch

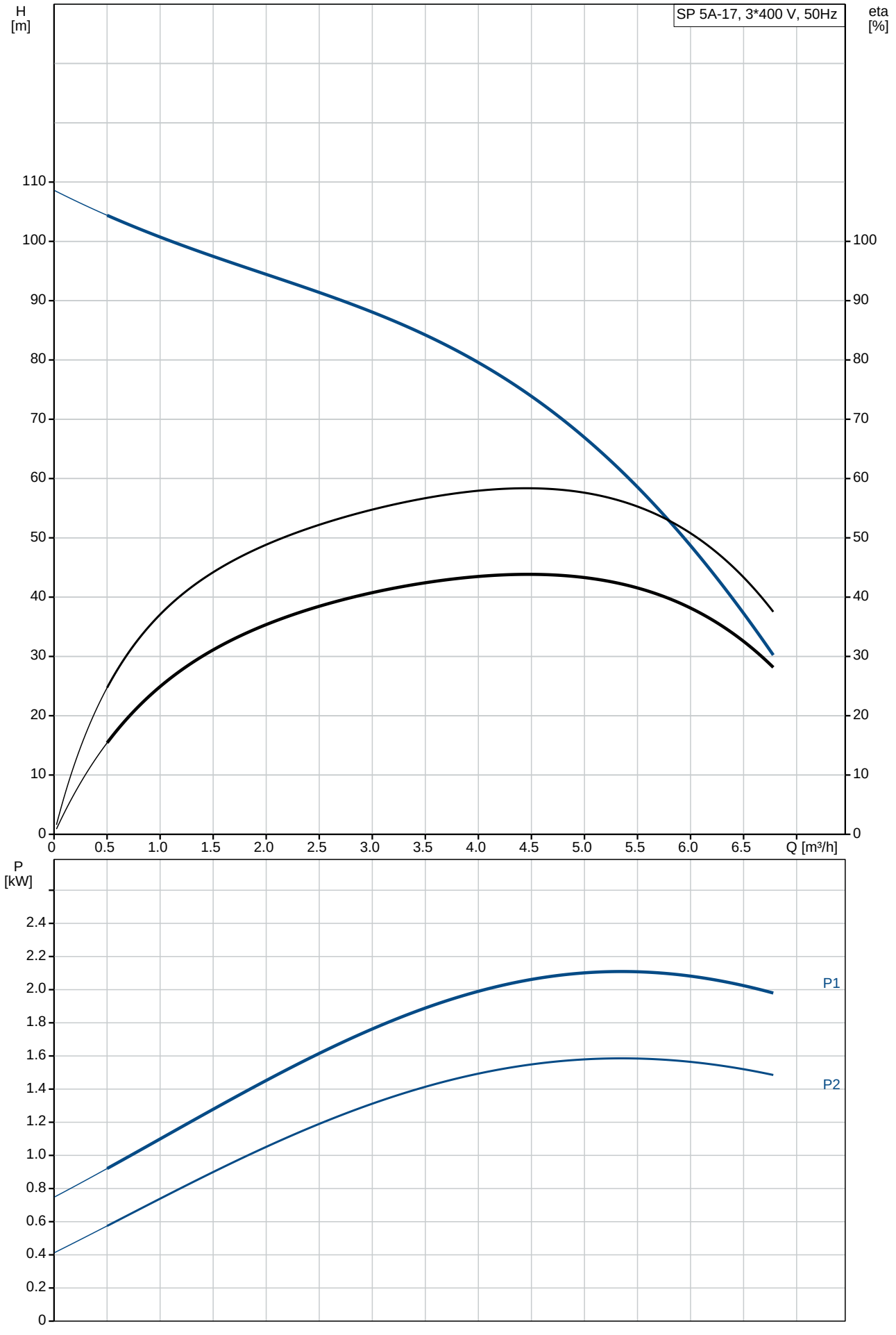
Electrical data:

Motor type:	MS402
Rated power - P2:	1.5 kW
Power (P2) required by pump:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	4.10-4.20-4.40 A
Starting current:	490-500-500 %
Cos phi - power factor:	0.80-0.75-0.70
Rated speed:	2850-2860-2870 rpm
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	B
Built-in temp. transmitter:	no

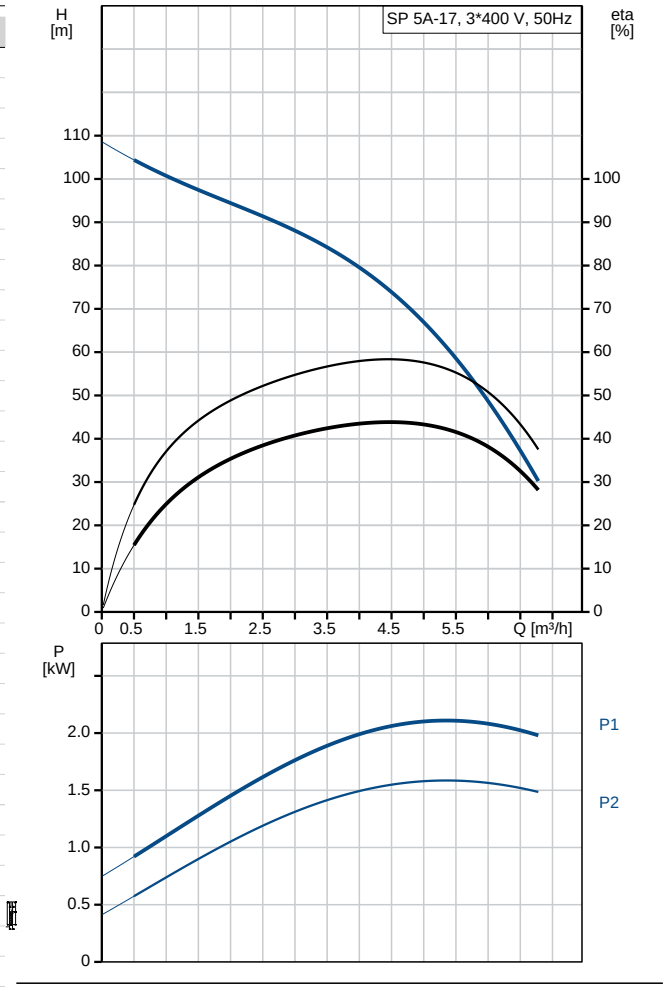
Others:

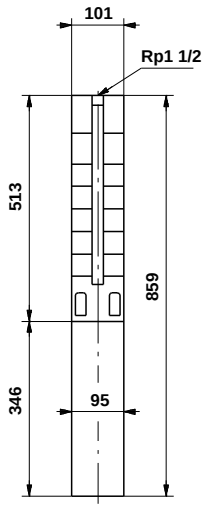
Minimum efficiency index, MEI ≥:	0.50
ErP status:	EuP Standalone/Prod.
Net weight:	16 kg
Gross weight:	17.8 kg
Shipping volume:	16.3 m³

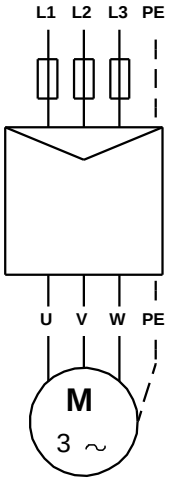
On request SP 5A-17 50 Hz



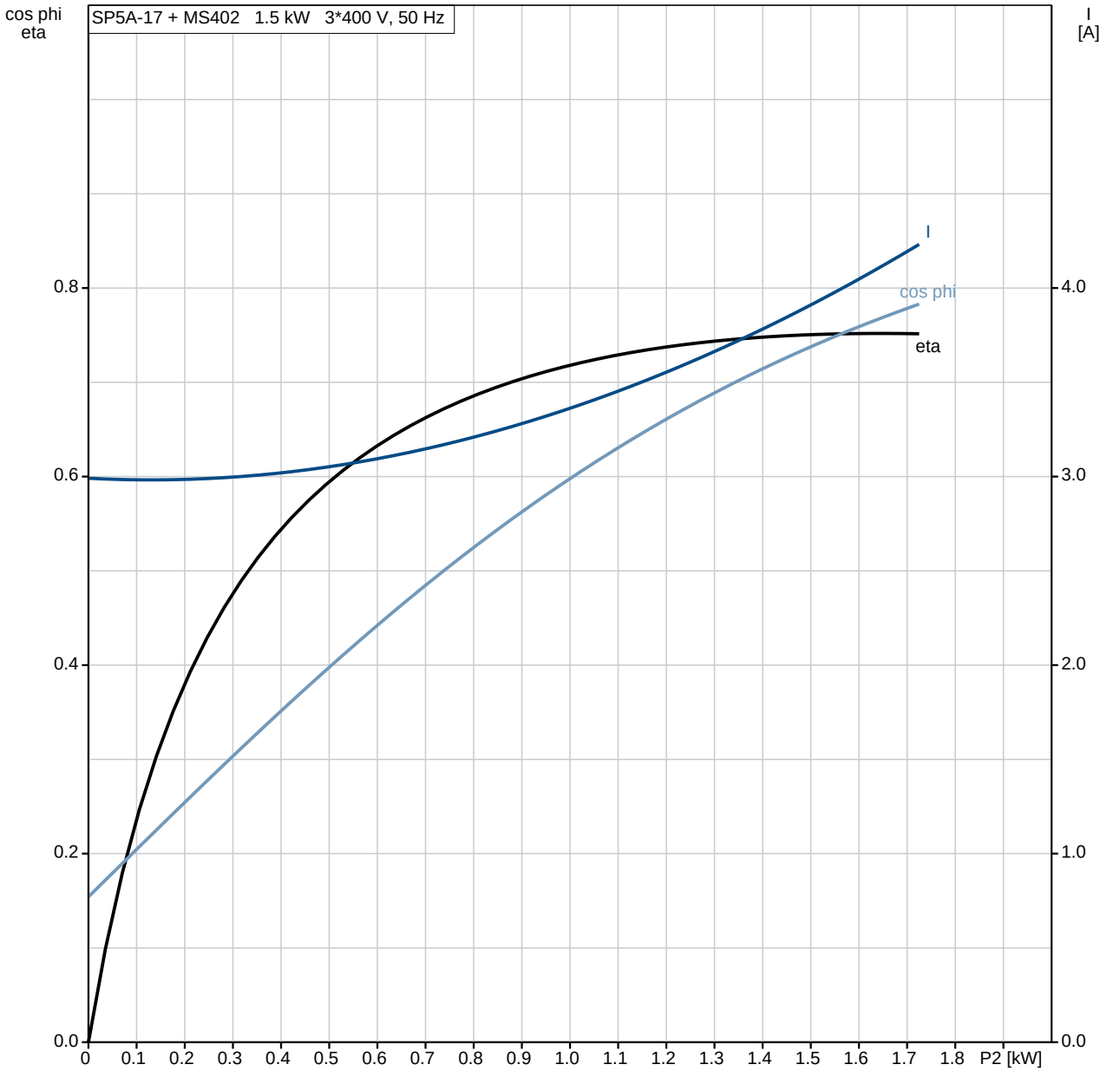
Description	Value
General information:	
Product name:	SP 5A-17
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	5 m³/h
Rated head:	70 m
Stages:	17
Impeller reduc.:	NONE
Shaft seal for motor:	LIPSEAL
Approvals on nameplate:	CE,EAC
Curve tolerance:	ISO9906:2012 3B
Model:	A
Valve:	YES
Motor version:	T40
Materials:	
Pump:	Stainless steel
	EN 1.4301
	AISI 304
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Motor:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Installation:	
Pump outlet:	Rp1 1/2
Motor diameter:	4 inch
Liquid:	
Pumped liquid:	Water
Maximum liquid temperature:	40 °C
Max liquid t at 0.15 m/sec:	40 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	MS402
Applic. motor:	GRUNDFOS
Rated power - P2:	1.5 kW
Power (P2) required by pump:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	4.10-4.20-4.40 A
Starting current:	490-500-500 %
Cos phi - power factor:	0.80-0.75-0.70
Rated speed:	2850-2860-2870 rpm
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	B
Motor protec:	NONE
Thermal protec:	external
Built-in temp. transmitter:	no
Motor No:	79192006
Others:	
Minimum efficiency index, MEI ≥:	0.50
ErP status:	EuP Standalone/Prod.
Net weight:	16 kg
Gross weight:	17.8 kg
Shipping volume:	16.3 m³

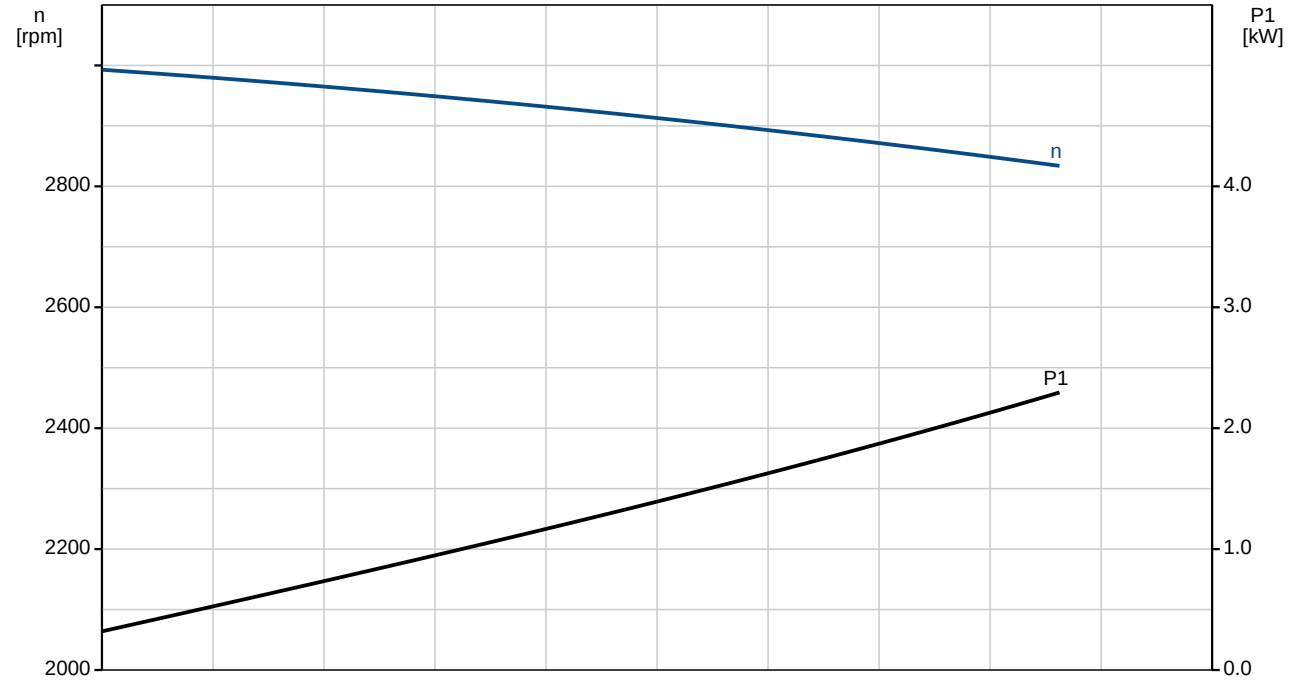




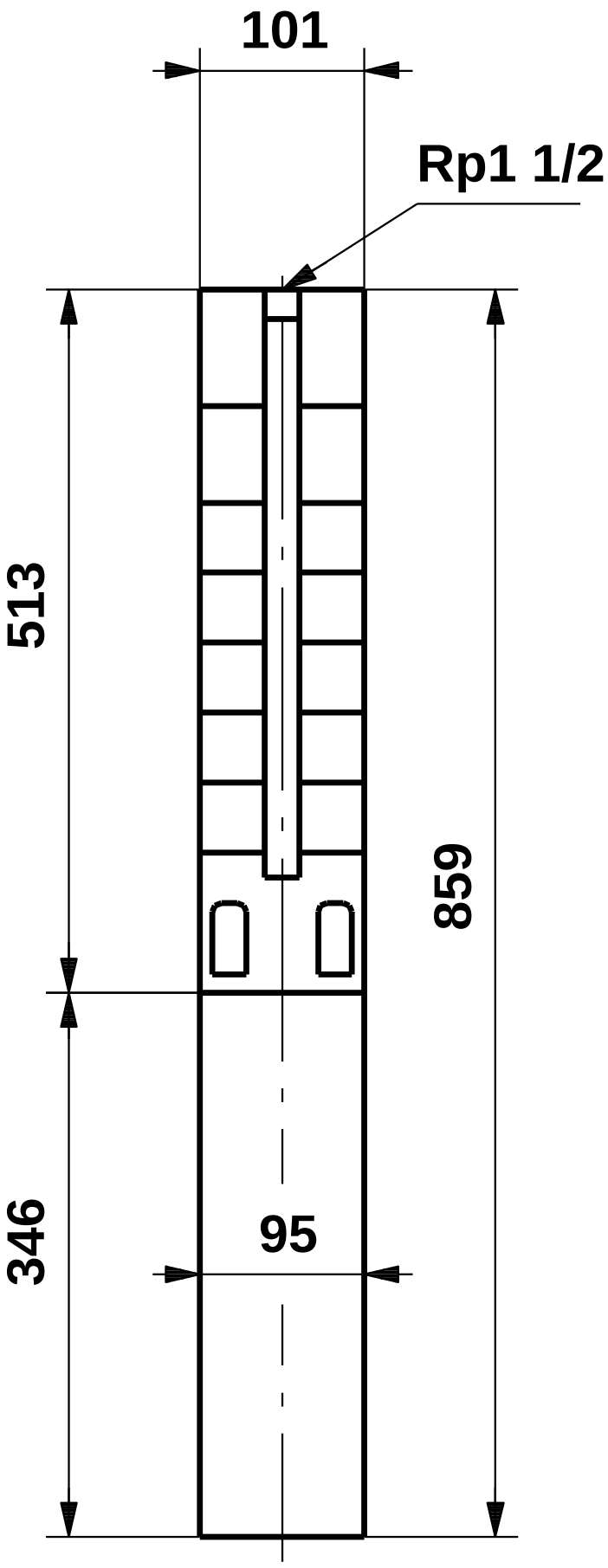


On request SP 5A-17 50 Hz



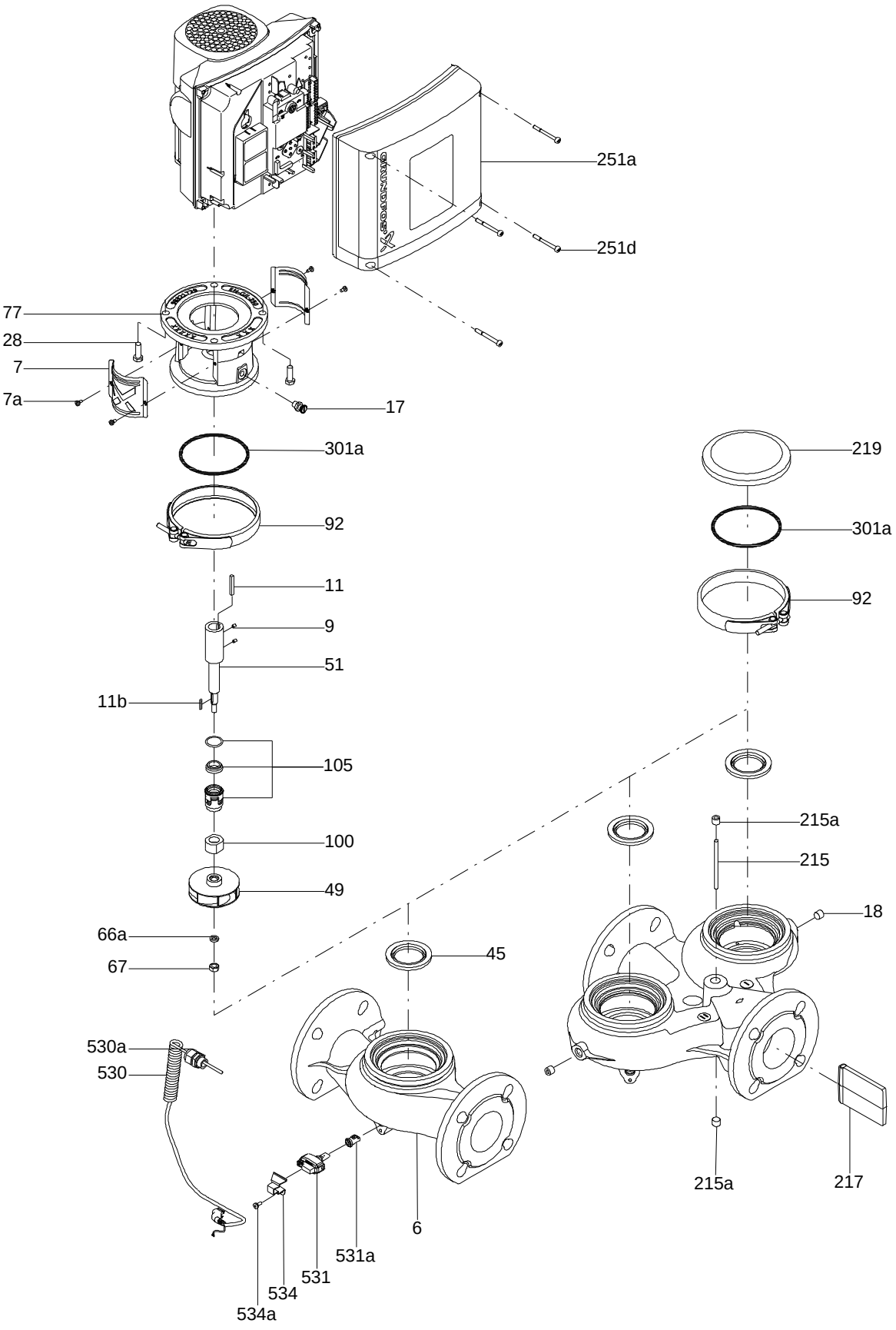


On request SP 5A-17 50 Hz

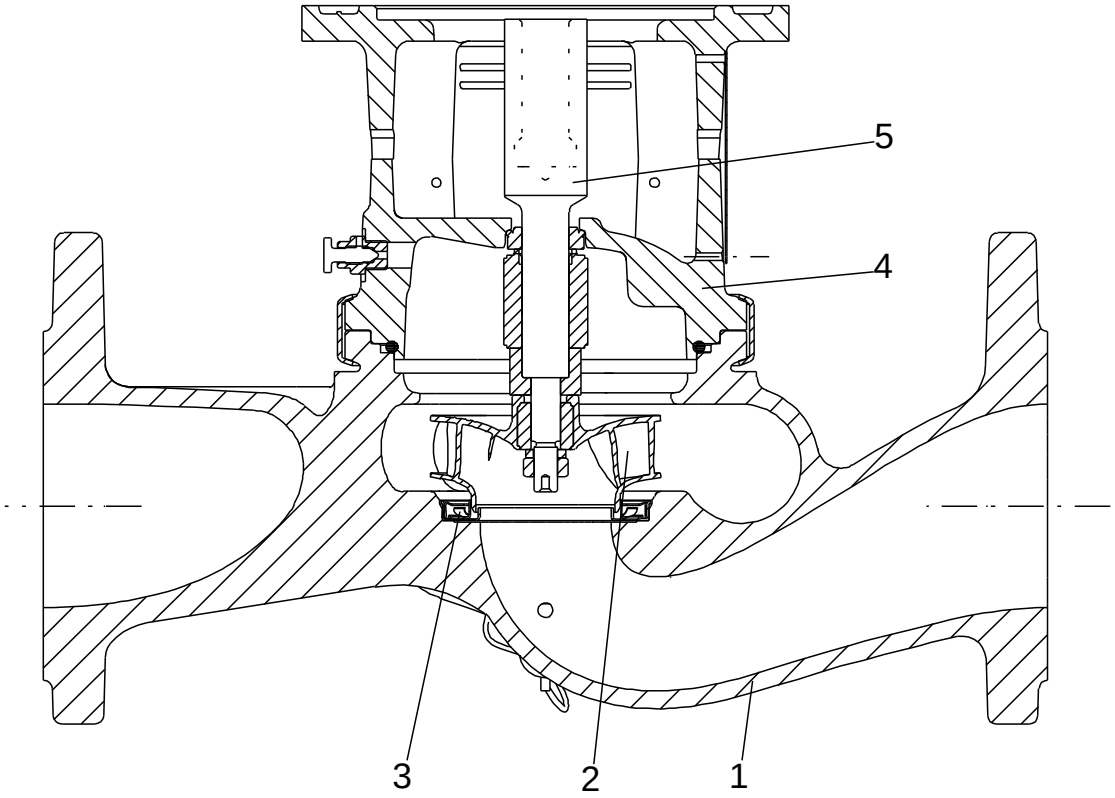


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

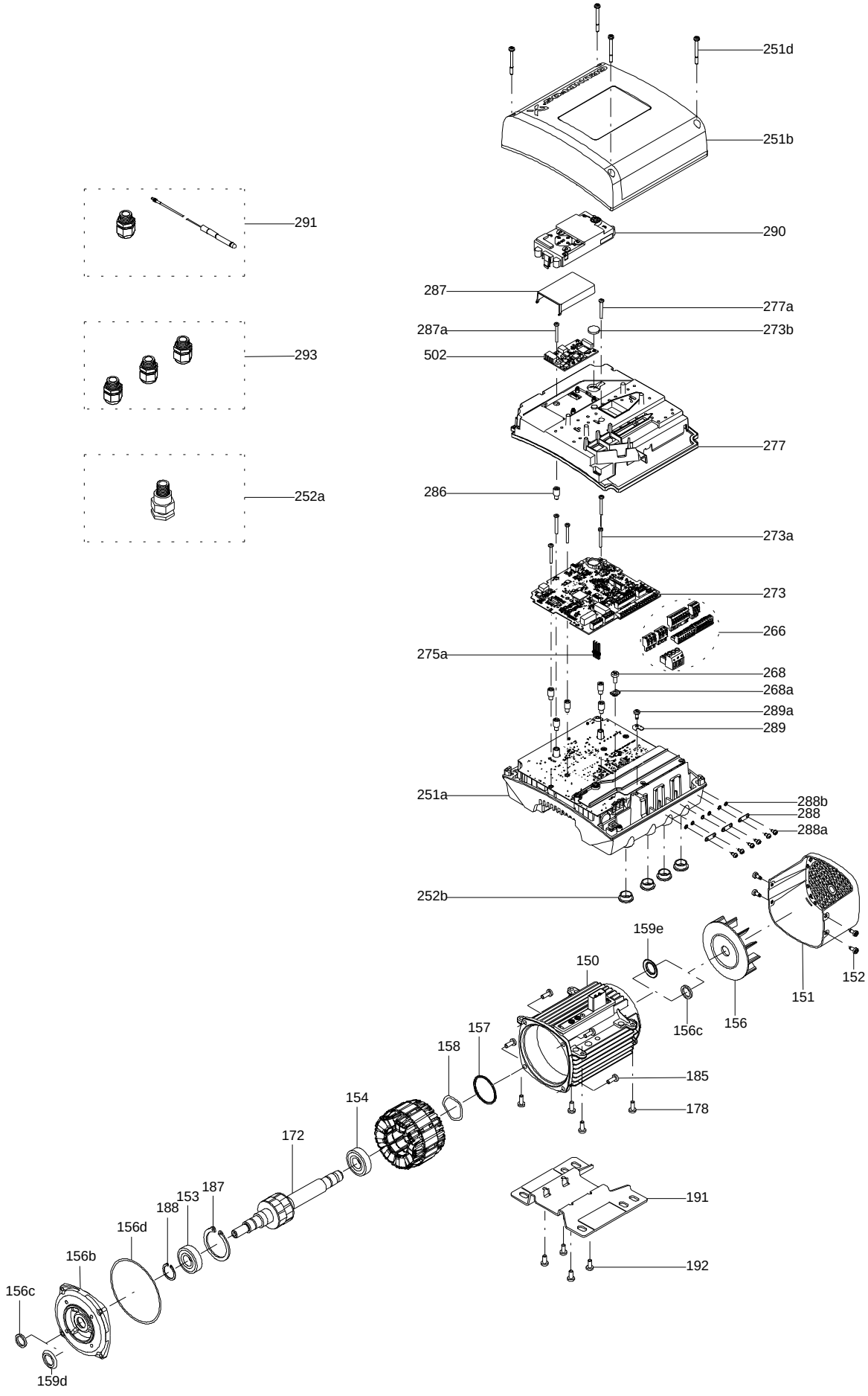


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list SP 5A-17, Product No. On request
Valid from 1.12.1994 (9448)

	Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
-		Pump w/o motor				1	pcs
		Nut				1	
		Impeller				17	
		Washer				1	
-	1	Valve casing cpl.				1	
		Valve casing				1	
		Bearing, top				1	
	2	Valve cone				1	
	3	Valve seat				1	
	70	Valve guide				1	
	1b	Discharge piece				1	
-	9	Chamber				16	
		Chamber w/o guide vanes				1	
		Bearing				1	
	7	Neck ring				1	
-	10	Chamber, bottom				1	
		Chamber w/o guide vanes				1	
	7	Neck ring				1	
	14	Suction interconnector				1	
	16	Shaft cpl.		Length (mm): 413,5		1	
	17	Strap cpl.				3	
	18	Cable guard				1	
	18.a	Pan head screw				2	
	26b	Hex head screw				3	
	64	Priming disc				1	
	71	Washer				3	
	78	Nameplate				1	
-		Motor				1	pcs
		Non return valve cpl.				1	
	1	Stator cpl.				1	
	2	Shaft w/rotor				1	
	2a	Lock ring				1	
	3	Thrust ring support cpl.				1	
	5a	Radial bearing				1	
	22	Staybolt		Thread: M8 X M8		4	
	25	Cover plate				1	
	25a	Cross recess countersunk screw				3	
	27	Sand shield				1	
	74	Socket countersunk screw				1	
	20	Motor cable		Length (M): 1,7M		1	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated.
Data may be subject to alterations without further notice.
Please contact us to verify the data above is still accurate/up-to-date.

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