

TP 100-120/2-AI-F-Z-BUBE 400D 50HZ

Grundfos pump 96410060



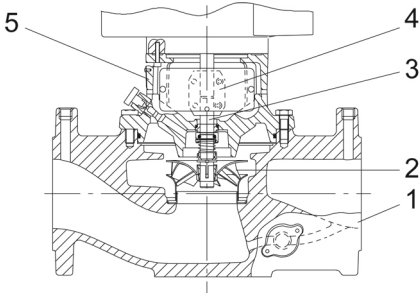
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<https://www.lenntech.com/grundfos/TPB00/96410060/TP-100-120-2-B-AI-F-Z-BUBE.html>

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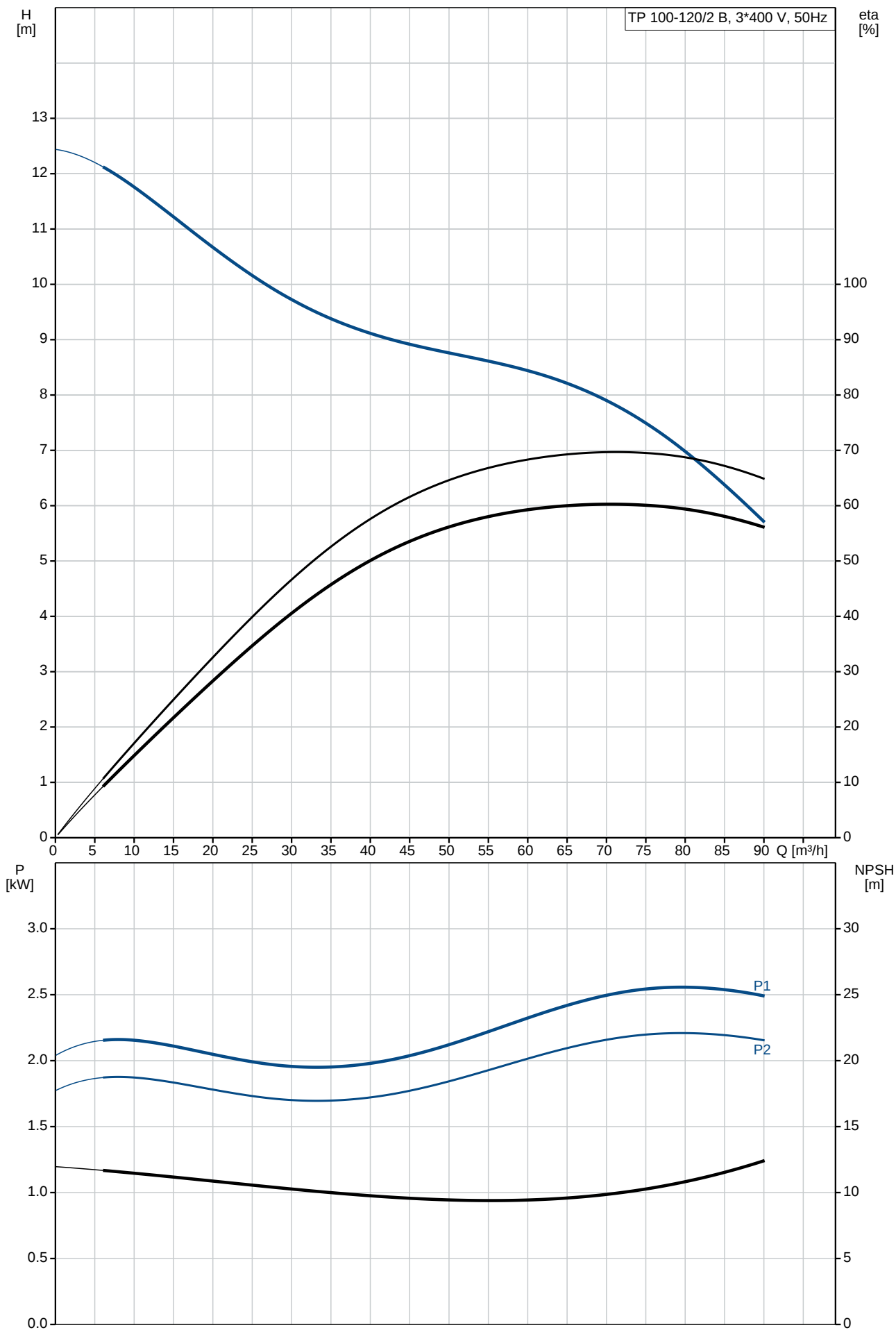
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Position	Qty.	Description
	1	TP 100-120/2 B AI-F-Z-BUBE  Product No.: On request Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework. The pump is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 6 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled asynchronous motor. Further product details The bronze pump housing and stainless-steel impeller make the pump suitable for circulation of hot water. The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013. Pump Pump housing and pump head are electrocoated to improve the corrosion resistance. Electrocoating includes: 1) Alkaline-based cleaning. 2) Pretreatment with zinc phosphate coating. 3) Cathodic electrocoating (epoxy). 4) Curing of paint film at 200-250 °C.  1: Pump housing 2: Impeller 3: Shaft 4: Coupling 5: Pump head The pump housing is provided with a replaceable stainless steel/PTFE neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side. The impeller is secured with a split cone with nut. The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft. Primary seal: • Rotating seal ring material: tungsten carbide (WC) • Stationary seat material: carbon graphite, resin-impregnated This is a widely used material pairing. If the pumped liquid contains particles, wear on the seal faces must be expected. Due to the favourable lubricating properties of carbon graphite, the seal is suitable for use even under poor lubricating conditions, such as hot water. However, under such conditions, wear on the carbon graphite face reduces seal life.

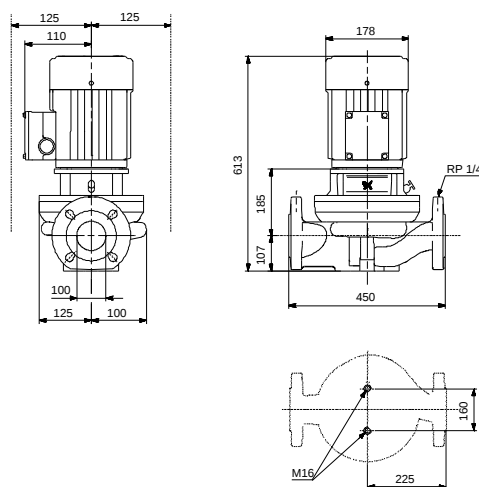
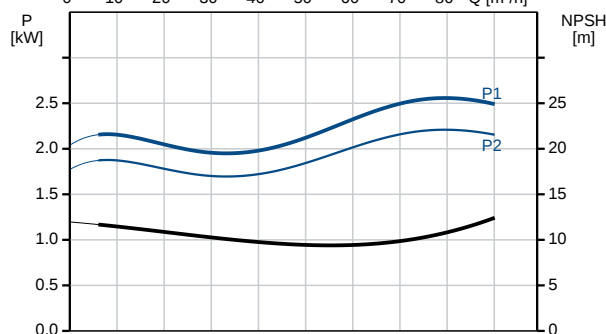
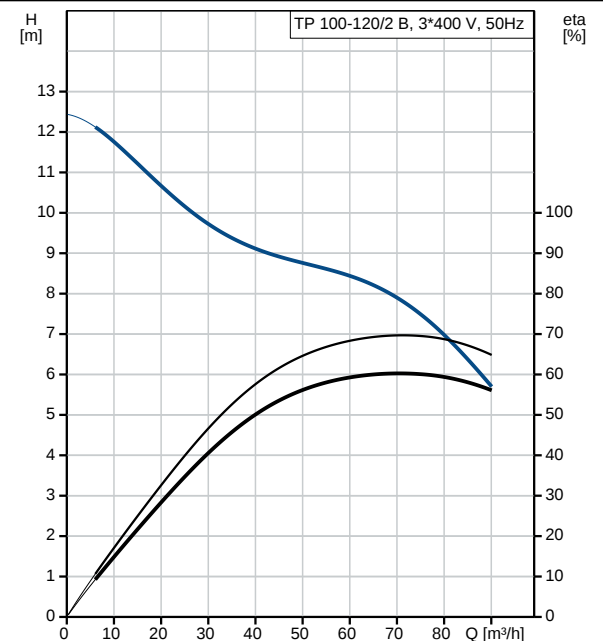
Position	Qty.	Description
		Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils. A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. The flanges have tapplings for mounting of pressure gauges. The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring. The central part of the motor stool is provided with guards for protection against the shaft and coupling. Motor and pump shaft are connected via a shell coupling. Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034. The motor is flange-mounted with tapped-hole flange (FT). Motor-mounting designation in accordance with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (Code II). The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1. The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I₁/1). The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center. Technical data Liquid: Pumped liquid: Water Liquid temperature range: 0 .. 140 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 72.8 m³/h Rated head: 7.8 m Primary shaft seal: BUBE Curve tolerance: ISO9906:2012 3B Materials: Pump housing: Bronze DIN W.-Nr. 2.1050 ASTM B505-C90700 Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304 Installation: Range of ambient temperature: -30 .. 60 °C Maximum operating pressure: 6 bar Flange standard: DIN Pipe connection: DN 100 Pressure rating: PN 6 (@): 450 mm Flange size for motor: FT115 Electrical data: Motor type: 90LC IE Efficiency class: IE3 Rated power - P₂: 2.2 kW

Position	Qty.	Description
		Power (P2) required by pump: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 4.45 A Starting current: 850-950 % Cos phi - power factor: 0.89-0.87 Rated speed: 2890-2910 rpm Efficiency: IE3 85,9% Motor efficiency at full load: 85.9 % Motor efficiency at 3/4 load: 86.8 % Motor efficiency at 1/2 load: 86.0 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Others: Minimum efficiency index, MEI $\geq$ 0.70 ErP status: EuP Standalone/Prod. Net weight: 66.1 kg Gross weight: 72 kg Shipping volume: 0.16 m ³

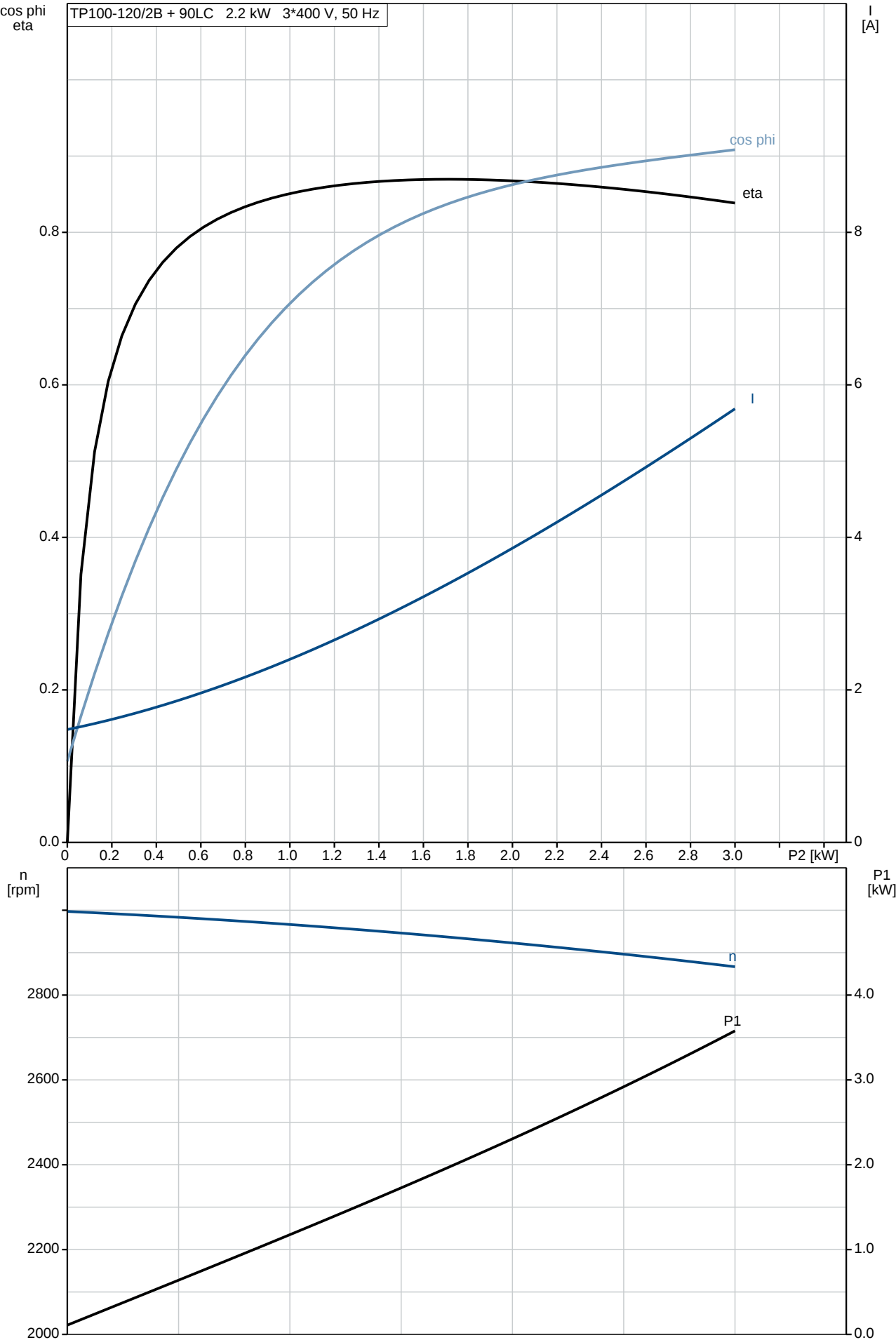
On request TP 100-120/2 B AI-F-Z-BUBE 50 Hz



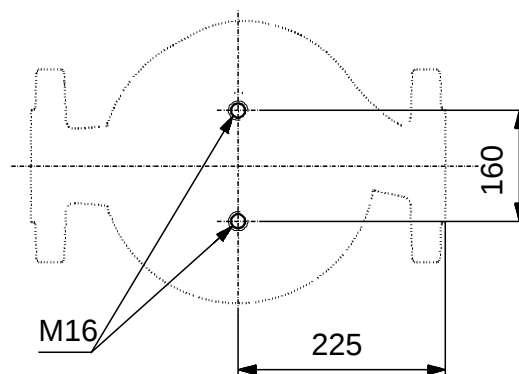
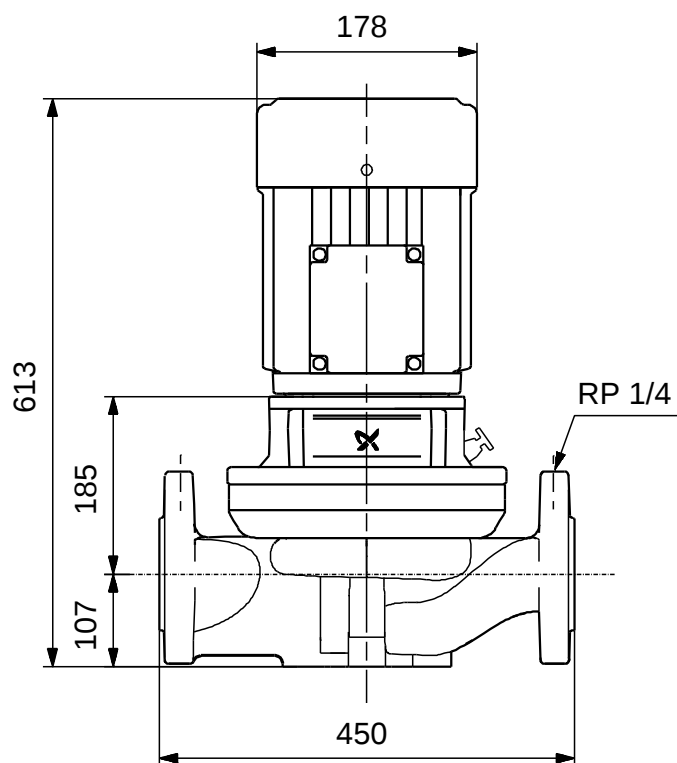
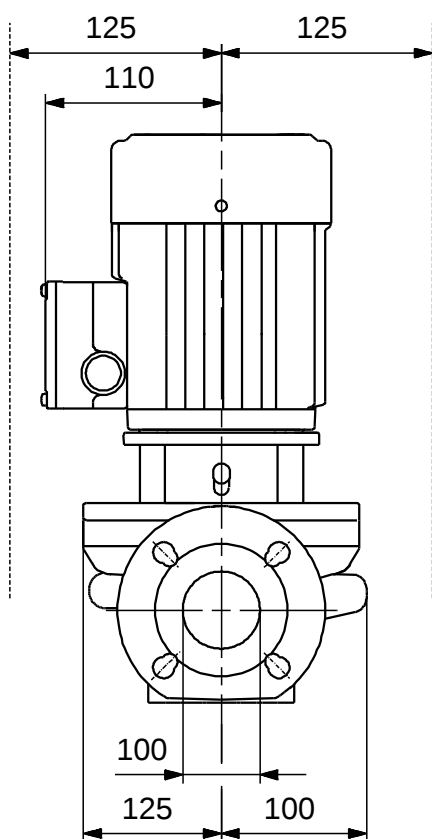
Description	Value
General information:	
Product name:	TP 100-120/2 B
Product No:	AI-F-Z-BUBE
EAN number:	On request
Technical:	
Rated flow:	72.8 m³/h
Rated head:	7.8 m
Head max:	120 dm
Primary shaft seal:	BUBE
Curve tolerance:	ISO9906:2012 3B
Pump version:	AI
Model:	A
Materials:	
Pump housing:	Bronze
	DIN W.-Nr. 2.1050
	ASTM B505-C90700
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	Z
Installation:	
Range of ambient temperature:	-30 .. 60 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pipe connection:	DN 100
Pressure rating:	PN 6
(@)	450 mm
Flange size for motor:	FT115
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	0 .. 140 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	90LC
IE Efficiency class:	IE3
Rated power - P2:	2.2 kW
Power (P2) required by pump:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D V
Rated current:	4.45 A
Starting current:	850-950 %
Cos phi - power factor:	0.89-0.87
Rated speed:	2890-2910 rpm
Efficiency:	IE3 85,9%
Motor efficiency at full load:	85.9 %
Motor efficiency at 3/4 load:	86.8 %
Motor efficiency at 1/2 load:	86.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U15908
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	66.1 kg
Gross weight:	72 kg
Shipping volume:	0.16 m³



On request TP 100-120/2 B AI-F-Z-BUBE 50 Hz



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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)



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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