

TP 80-60/4-AI-F-Z-AUUE 400Y 50HZ

Grundfos pump 96404922



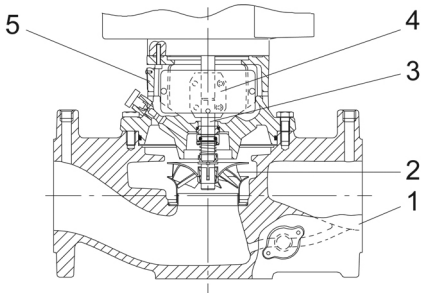
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<https://www.lenntech.com/grundfos/TPB00/96404922/TP-80-60-4-B-AI-F-Z-AUUE.html>

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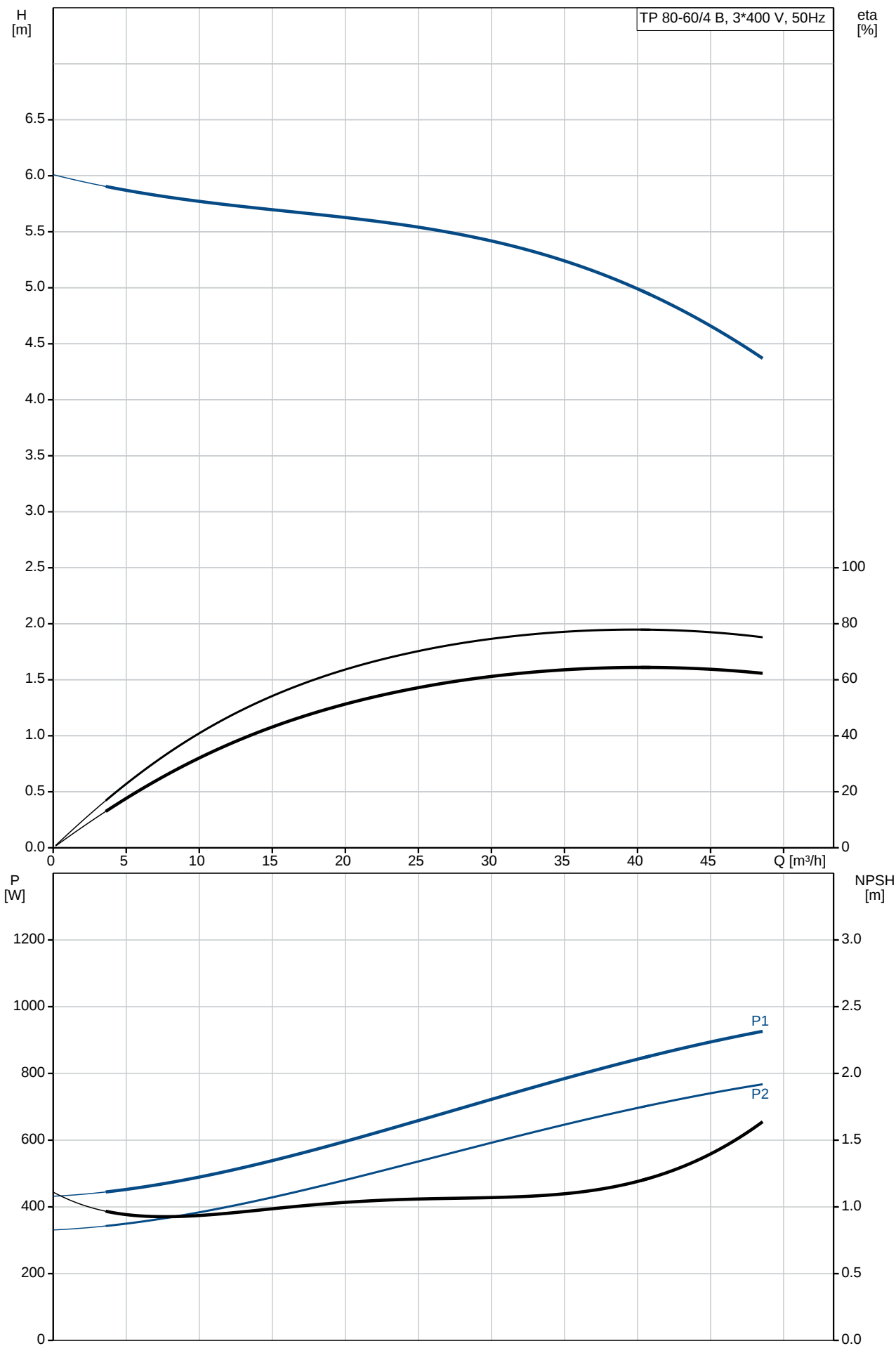
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Position	Qty.	Description
	1	TP 80-60/4 B AI-F-Z-AUUE  Product No.: On request Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, i.e. the power head (motor, 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 O-ring 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 O-ring seal with a rigid torque-transmission system. It has a fixed seal driver ensuring a reliable rotation of all parts. The dynamic secondary seal is an O-ring. Primary seal: • Rotating seal ring material: tungsten carbide (WC) • Stationary seat material: tungsten carbide (WC) This material pairing is extremely wear resistant and can resist rough handling. The dry friction is high, meaning that the pairing has poor dry-running properties. Above certain pressures and temperatures, the seal may generate noise. The run-in wear period can generate noise up to four weeks. Secondary seal material: EPDM (ethylene-propylene rubber)

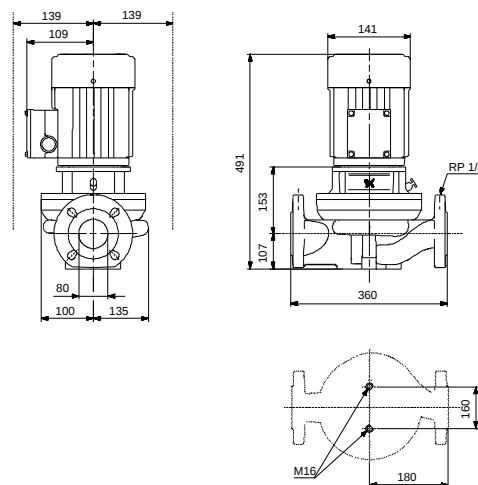
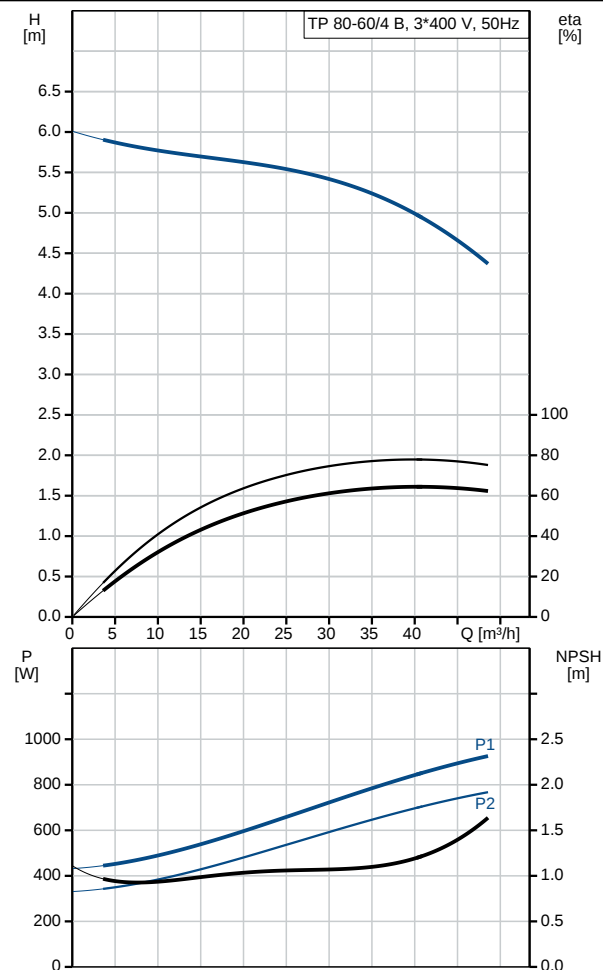
Position	Qty.	Description
		EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils. A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. The flanges have tapings for mounting of pressure gauges. The motor stool forms 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). Technical data Liquid: Pumped liquid: Water Liquid temperature range: 0 .. 90 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Rated flow: 39.1 m³/h Rated head: 4.97 m Primary shaft seal: AUUE 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 80 Pressure rating: PN 6 (@): 360 mm Flange size for motor: FT100 Electrical data: Motor type: 90SC IE Efficiency class: IE3 Rated power - P₂: 0.75 kW Power (P₂) required by pump: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240 D/380-415 Y V Rated current: 3.30/1.90 A Starting current: 620-670 %

Position	Qty.	Description
		Cos phi - power factor: 0.71-0.64 Rated speed: 1455-1463 rpm Efficiency: IE3 82,5% Motor efficiency at full load: 82.5 % Motor efficiency at 3/4 load: 83.6 % Motor efficiency at 1/2 load: 81.1 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Others: Minimum efficiency index, MEI ≥: 0.70 ErP status: EuP Standalone/Prod. Net weight: 55.1 kg Gross weight: 61 kg Shipping volume: 0.16 m³

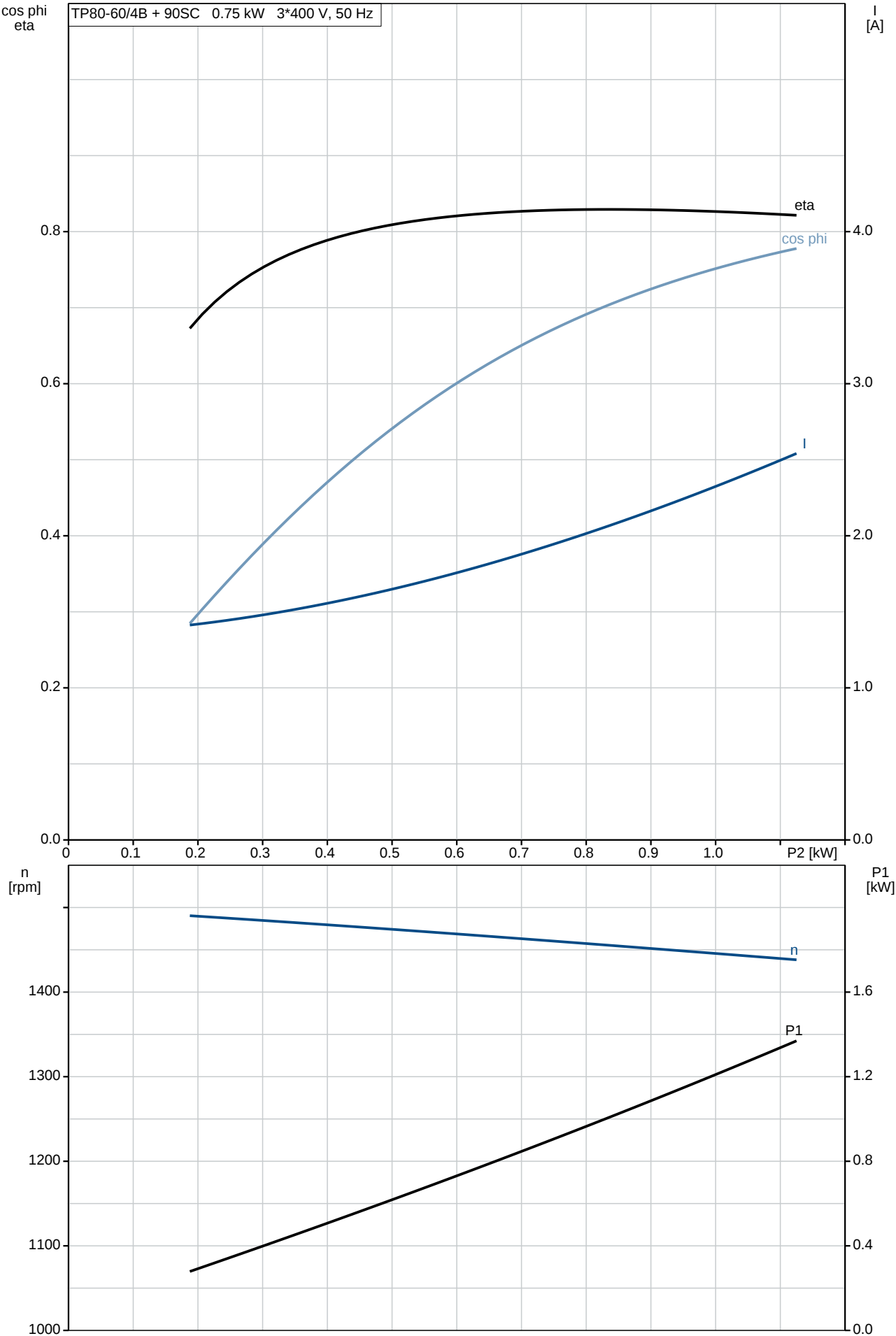
On request TP 80-60/4 B AI-F-Z-AUUE 50 Hz



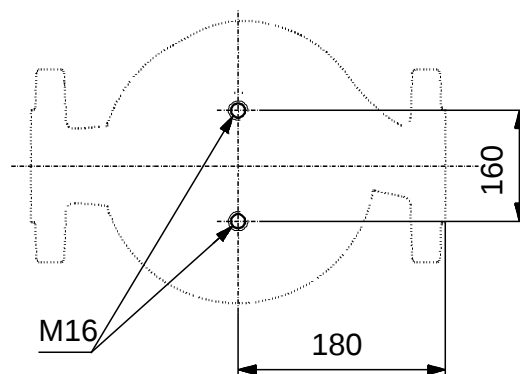
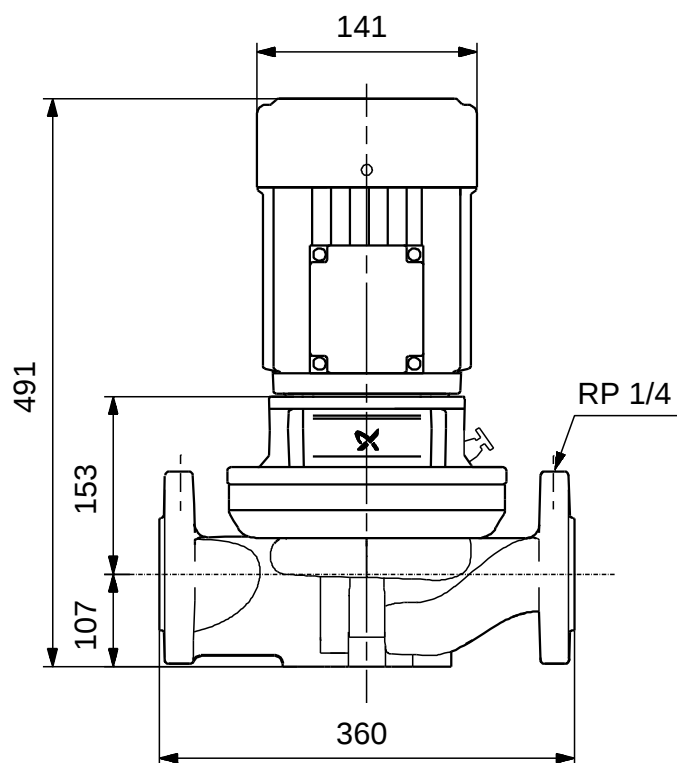
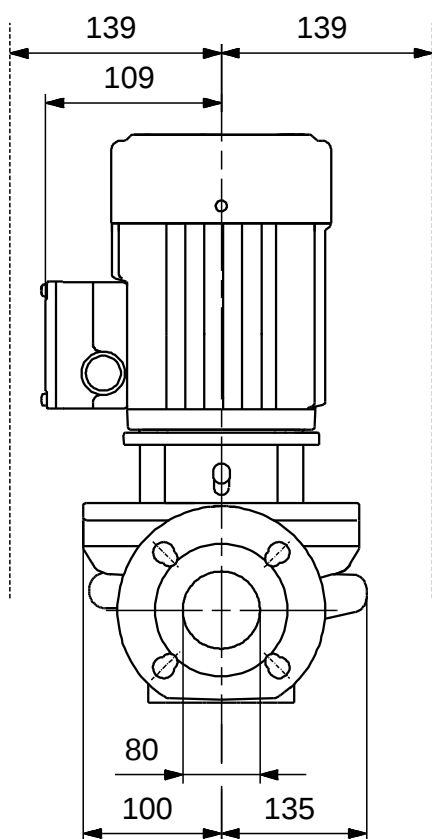
Description	Value
General information:	
Product name:	TP 80-60/4 B AI-F-Z-AUUE
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	39.1 m³/h
Rated head:	4.97 m
Head max:	60 dm
Primary shaft seal:	AUUE
Curve tolerance:	ISO9906:2012 3B
Pump version:	AI
Model:	A
Materials:	
Pump housing:	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 80
Pressure rating:	PN 6
(@)	360 mm
Flange size for motor:	FT100
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	0 .. 90 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	90SC
IE Efficiency class:	IE3
Rated power - P2:	0.75 kW
Power (P2) required by pump:	0.75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240 D/380-415 Y V
Rated current:	3.30/1.90 A
Starting current:	620-670 %
Cos phi - power factor:	0.71-0.64
Rated speed:	1455-1463 rpm
Efficiency:	IE3 82,5%
Motor efficiency at full load:	82.5 %
Motor efficiency at 3/4 load:	83.6 %
Motor efficiency at 1/2 load:	81.1 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	86U05904
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	55.1 kg
Gross weight:	61 kg
Shipping volume:	0.16 m³



On request TP 80-60/4 B AI-F-Z-AUUE 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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