

**TP 80-60/4-AI-F-Z-AUUE 400Y 50HZ**  
Grundfos pump 96404922




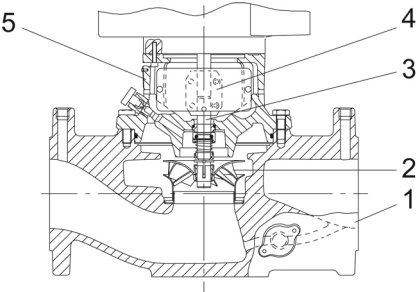
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<https://www.lenntech.com/grundfos/TPB00/96404922/TP-80-60-4-B-AI-F-Z-AUUE.html>

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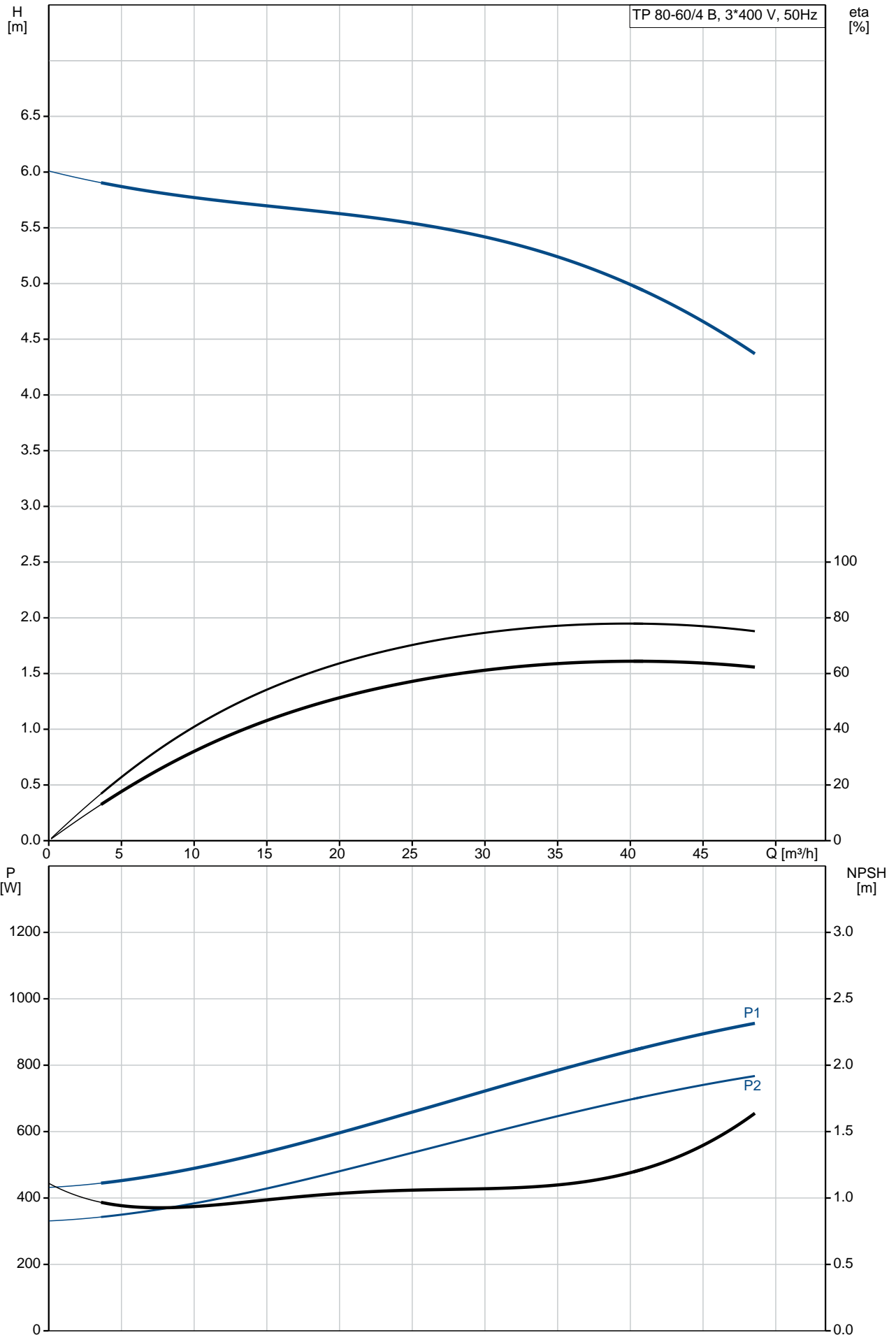
fax. +31 152 616 289

Position	Qty.	Description
	1	<p data-bbox="320 163 624 194"><b>TP 80-60/4 B AI-F-Z-AUUE</b></p>  <p data-bbox="320 483 600 515">Product No.: On request</p> <p data-bbox="320 544 1445 620">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.</p> <p data-bbox="320 629 1437 680">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).</p> <p data-bbox="320 687 951 719">The pump is fitted with a fan-cooled asynchronous motor.</p> <p data-bbox="320 745 639 777"><b>Further product details</b></p> <p data-bbox="320 781 1410 833">The bronze pump housing and stainless-steel impeller make the pump suitable for circulation of hot water.</p> <p data-bbox="320 869 1426 945">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.</p> <p data-bbox="320 983 400 1014"><b>Pump</b></p> <p data-bbox="320 1019 1256 1050">Pump housing and pump head are electrocoated to improve the corrosion resistance.</p> <p data-bbox="320 1055 584 1086">Electrocoating includes:</p> <ol data-bbox="320 1090 810 1196" style="list-style-type: none"> <li>1) Alkaline-based cleaning.</li> <li>2) Pretreatment with zinc phosphate coating.</li> <li>3) Cathodic electrocoating (epoxy).</li> <li>4) Curing of paint film at 200-250 °C.</li> </ol>  <ol data-bbox="320 1529 507 1675" style="list-style-type: none"> <li>1: Pump housing</li> <li>2: Impeller</li> <li>3: Shaft</li> <li>4: Coupling</li> <li>5: Pump head</li> </ol> <p data-bbox="320 1709 1458 1785">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.</p> <p data-bbox="320 1821 1458 1874">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.</p> <p data-bbox="320 1879 464 1910">Primary seal:</p> <ul data-bbox="357 1915 948 1968" style="list-style-type: none"> <li>• Rotating seal ring material: tungsten carbide (WC)</li> <li>• Stationary seat material: tungsten carbide (WC)</li> </ul> <p data-bbox="320 1973 1437 2049">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.</p> <p data-bbox="320 2054 986 2085">Secondary seal material: EPDM (ethylene-propylene rubber)</p>

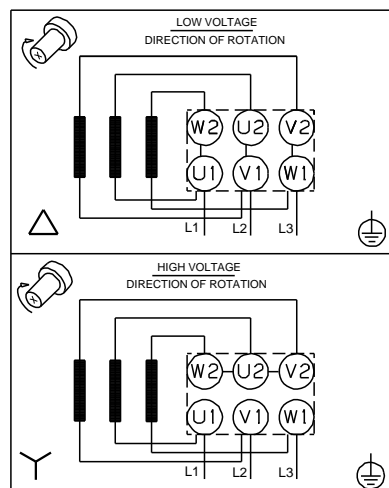
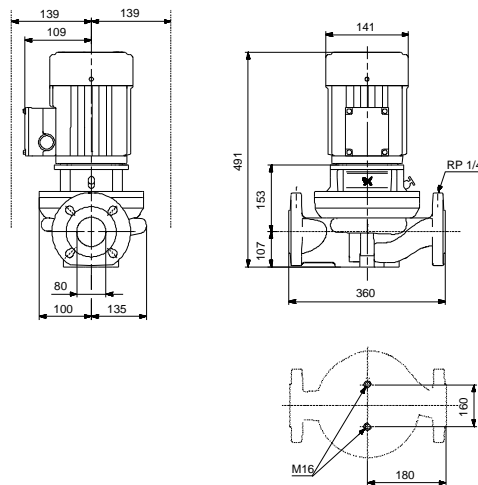
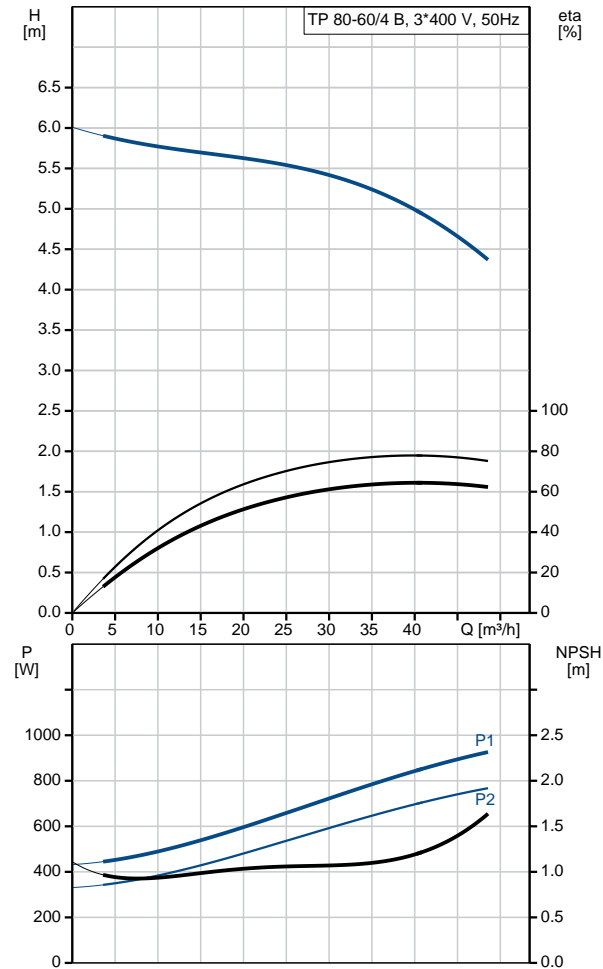
Position	Qty.	Description
		<p>EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p> <p>A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.</p> <p>The flanges have tappings for mounting of pressure gauges.</p> <p>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.</p> <p>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.</p> <p><b>Motor</b></p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.</p> <p>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).</p> <p>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).</p> <p><b>Technical data</b></p> <p><b>Liquid:</b>  Pumped liquid: Water  Liquid temperature range: 0 .. 90 °C  Liquid temperature during operation: 20 °C  Density: 998.2 kg/m<sup>3</sup></p> <p><b>Technical:</b>  Rated flow: 39.1 m<sup>3</sup>/h  Rated head: 4.97 m  Primary shaft seal: AUUE  Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b>  Pump housing: Bronze  DIN W.-Nr. 2.1050  ASTM B505-C90700  Impeller: Stainless steel  DIN W.-Nr. 1.4301  AISI 304</p> <p><b>Installation:</b>  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</p> <p><b>Electrical data:</b>  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 %</p>

Position	Qty.	Description
		<p> 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 </p> <p> <b>Others:</b>  Minimum efficiency index, MEI : 0.70  ErP status: EuP Standalone/Prod.  Net weight: 55.1 kg  Gross weight: 61 kg  Shipping volume: 0.16 m<sup>3</sup> </p>

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

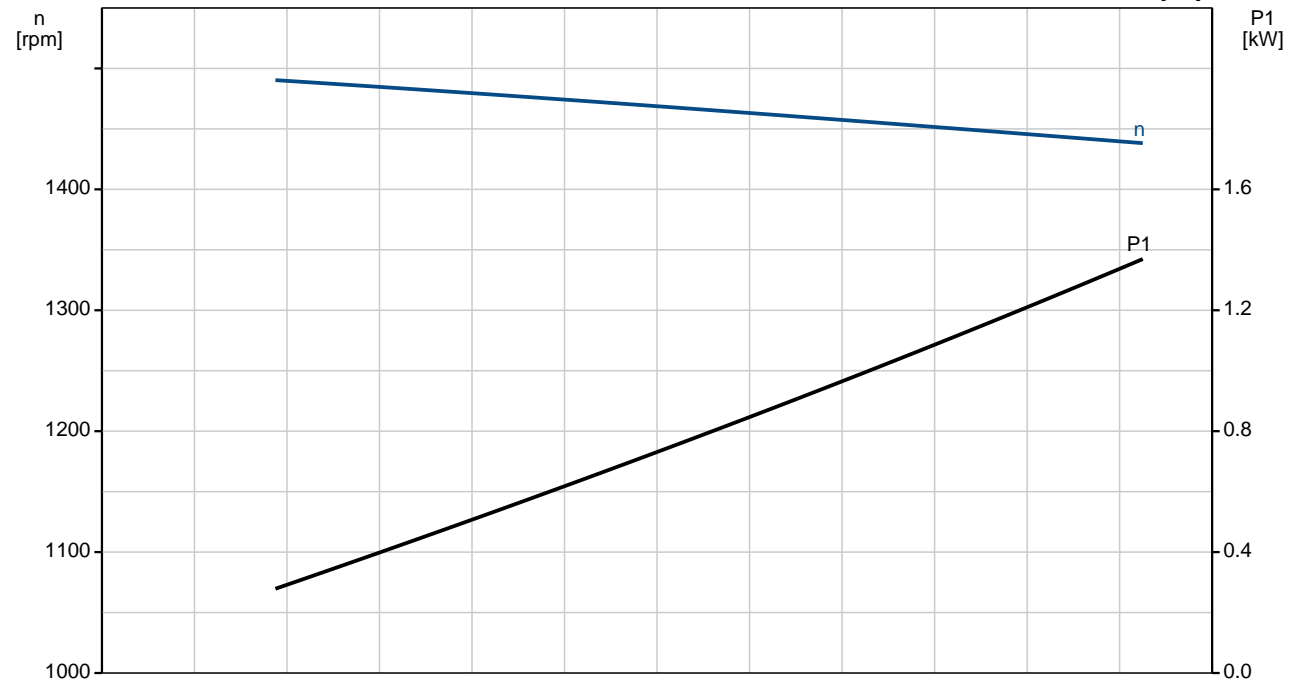
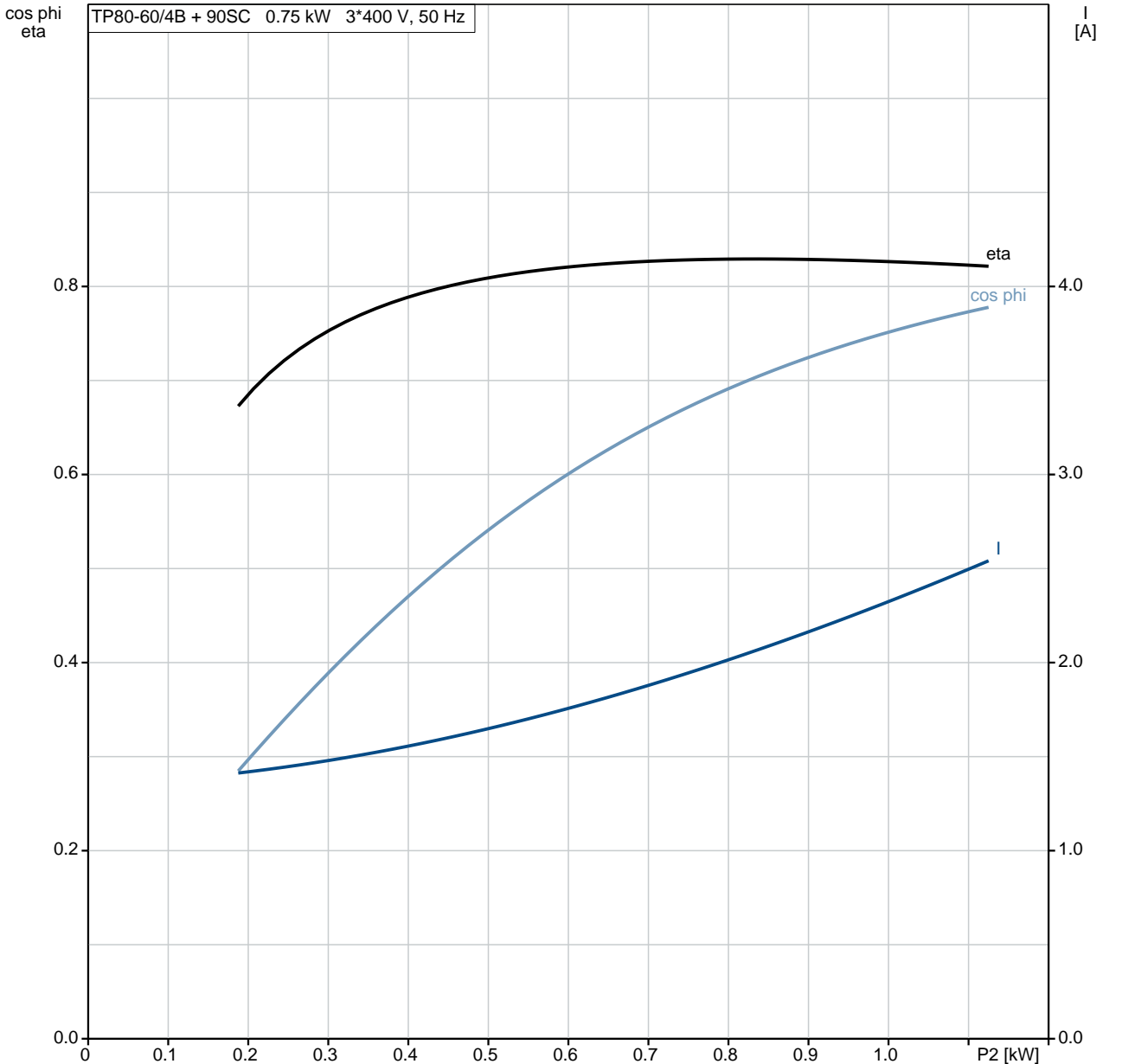


Description	Value
<b>General information:</b>	
Product name:	TP 80-60/4 B AI-F-Z-AUUE
Product No:	On request
EAN number:	On request
<b>Technical:</b>	
Rated flow:	39.1 m <sup>3</sup> /h
Rated head:	4.97 m
Head max:	60 dm
Primary shaft seal:	AUUE
Curve tolerance:	ISO9906:2012 3B
Pump version:	AI
Model:	A
<b>Materials:</b>	
Pump housing:	Bronze
	DIN W.-Nr. 2.1050
	ASTM B505-C90700
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	Z
<b>Installation:</b>	
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
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	0 .. 90 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m <sup>3</sup>
<b>Electrical data:</b>	
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
<b>Others:</b>	
Minimum efficiency index, MEI :	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	55.1 kg
Gross weight:	61 kg
Shipping volume:	0.16 m <sup>3</sup>

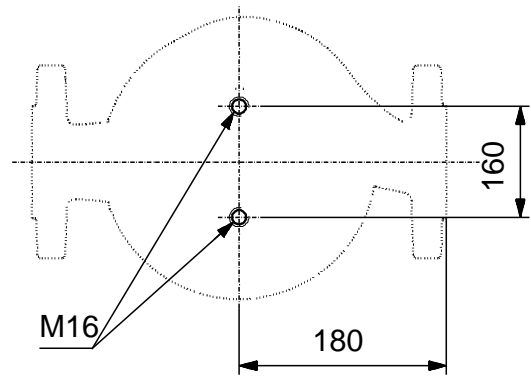
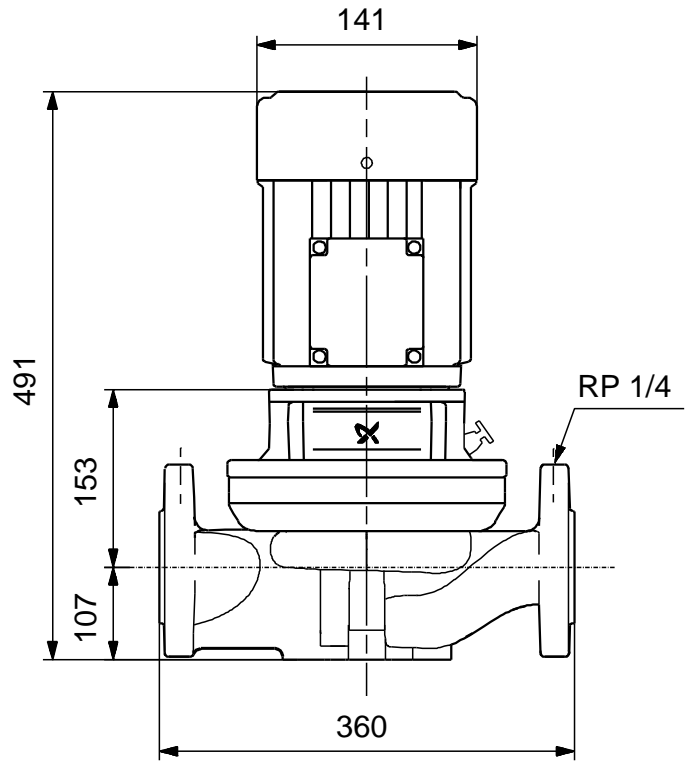
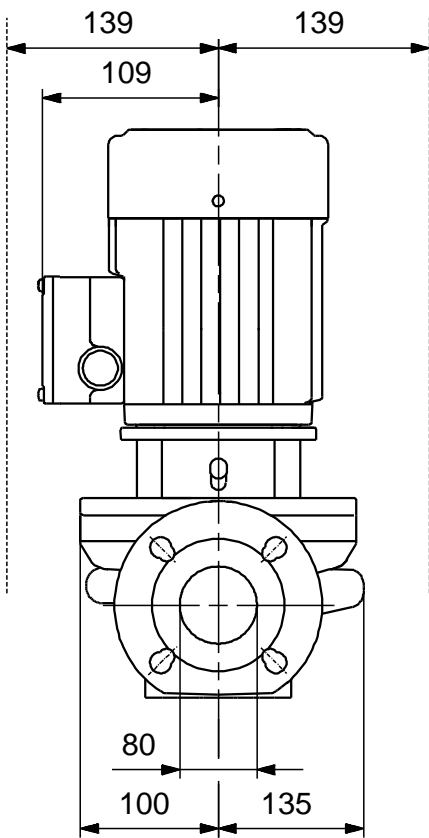


# On request TP 80-60/4 B AI-F-Z-AUUE 50 Hz

TP80-60/4B + 90SC 0.75 kW 3\*400 V, 50 Hz



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



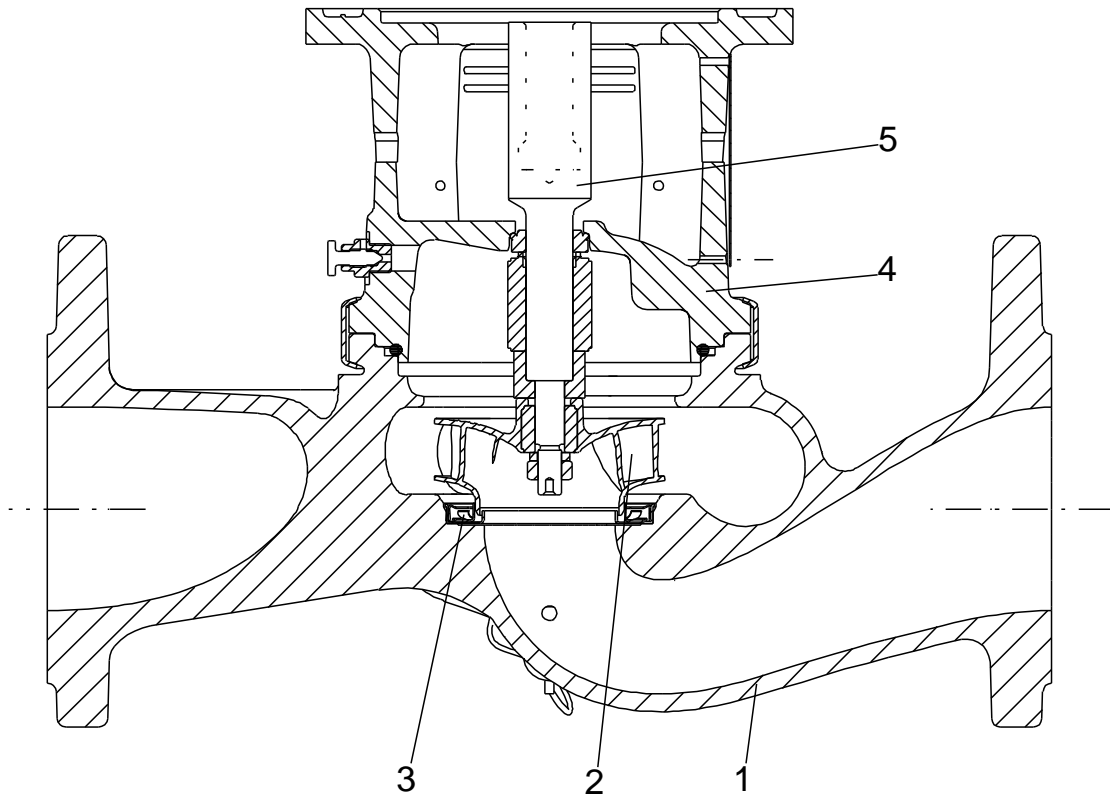
Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.



Exploded view

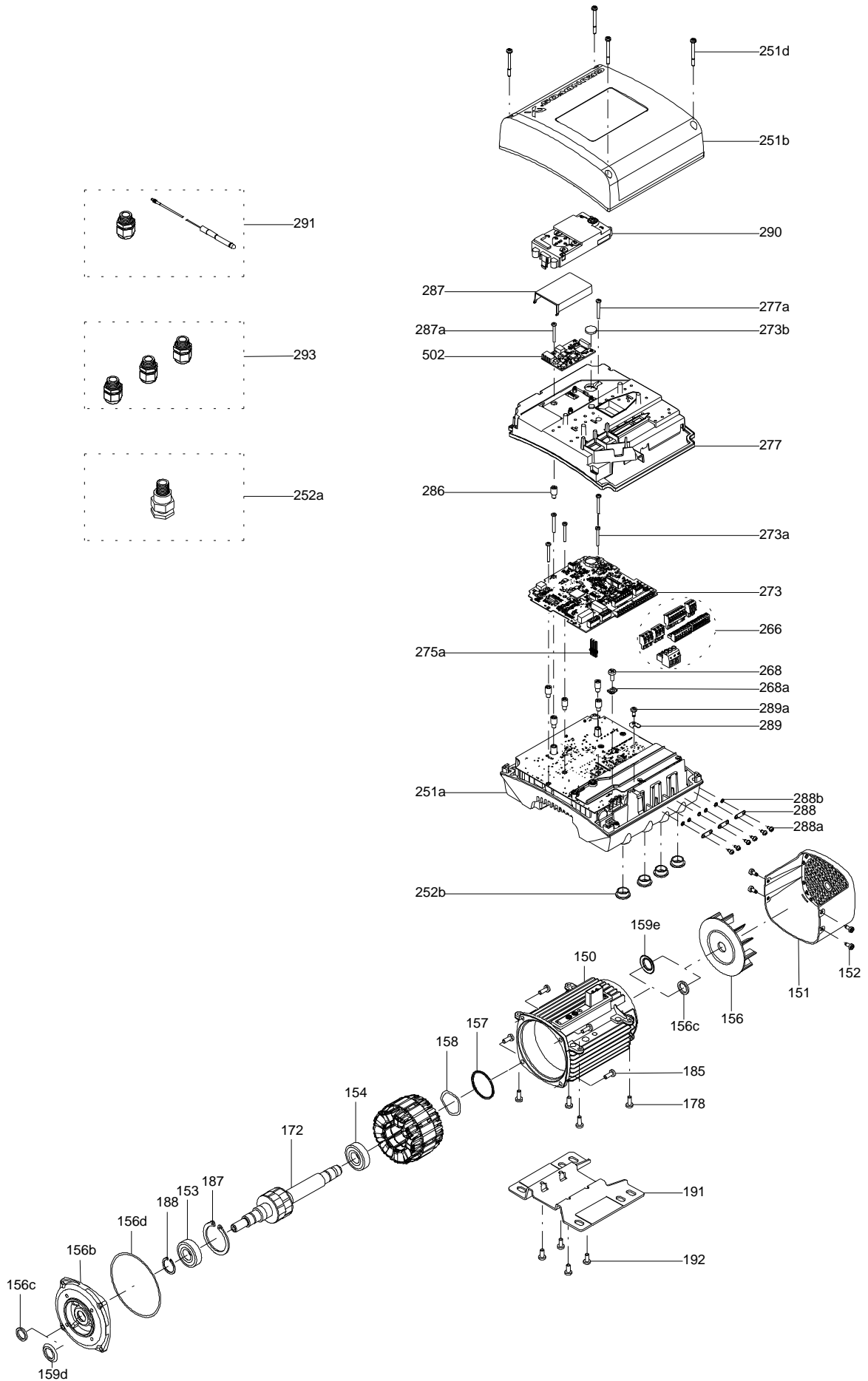


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view ( TM057026 for MGE model H/I )



*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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