

TP 40-90/4-A-F-Z-BUBE 400Y 50HZ
Grundfos pump 96492030




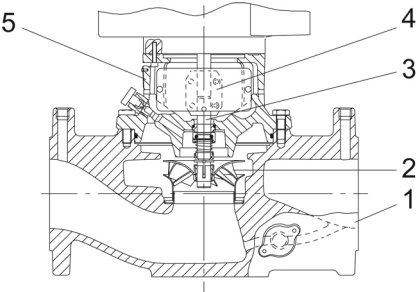
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<https://www.lenntech.com/grundfos/TPB00/96492030/TP-40-90-4-B-A-F-Z-BUBE.html>

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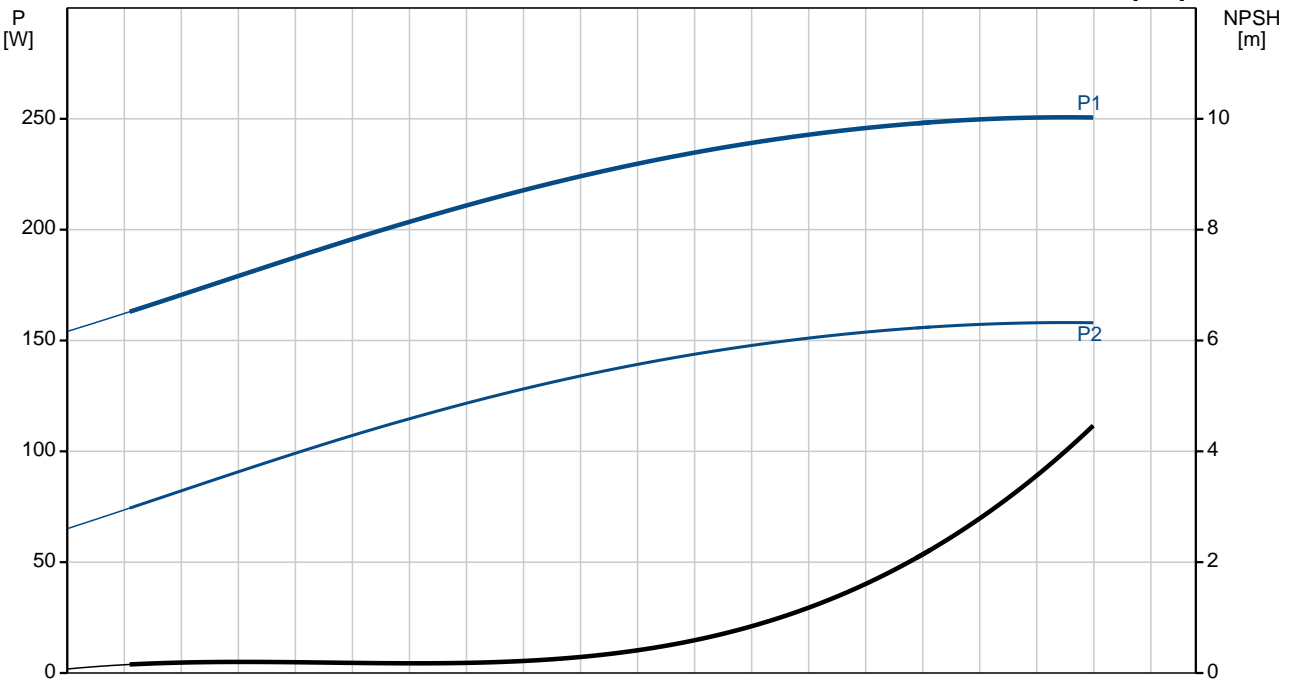
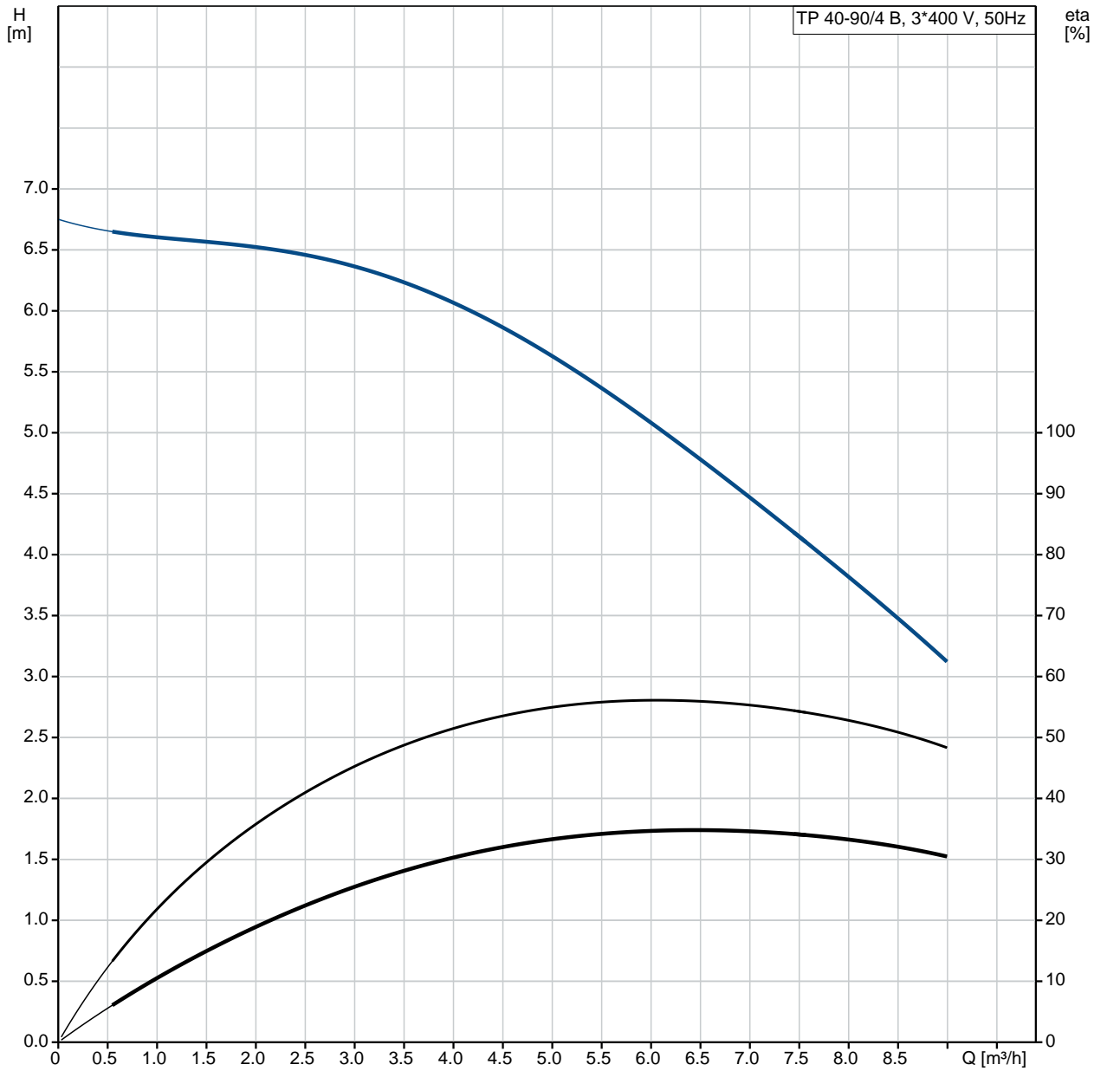
fax. +31 152 616 289

Position	Qty.	Description
	1	<p data-bbox="320 163 619 194">TP 40-90/4 B A-F-Z-BUBE</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 1422 680">The pump is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 16 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">Further product details</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="320 983 403 1014">Pump</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"> 1) Alkaline-based cleaning. 2) Pretreatment with zinc phosphate coating. 3) Cathodic electrocoating (epoxy). 4) Curing of paint film at 200-250 °C.  <ol data-bbox="320 1529 507 1675" style="list-style-type: none"> 1: Pump housing 2: Impeller 3: Shaft 4: Coupling 5: Pump head <p data-bbox="320 1706 1458 1783">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 1441 1897">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.</p> <p data-bbox="320 1906 467 1937">Primary seal:</p> <ul data-bbox="357 1939 1058 1995" style="list-style-type: none"> • Rotating seal ring material: tungsten carbide (WC) • Stationary seat material: carbon graphite, resin-impregnated <p data-bbox="320 1998 1431 2096">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.</p>

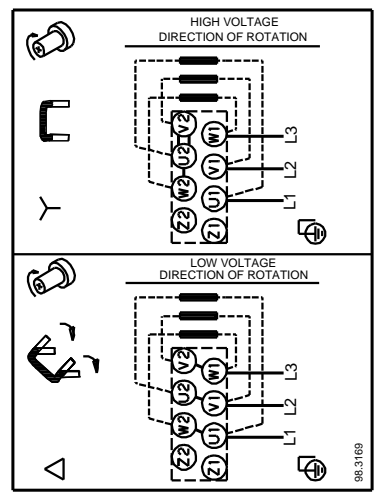
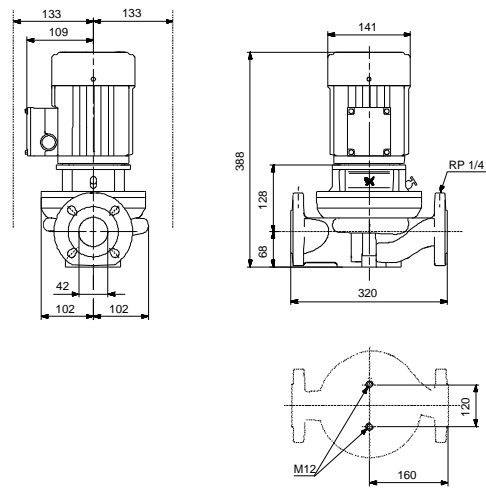
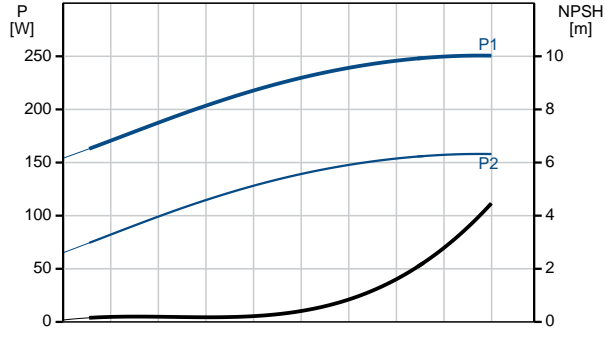
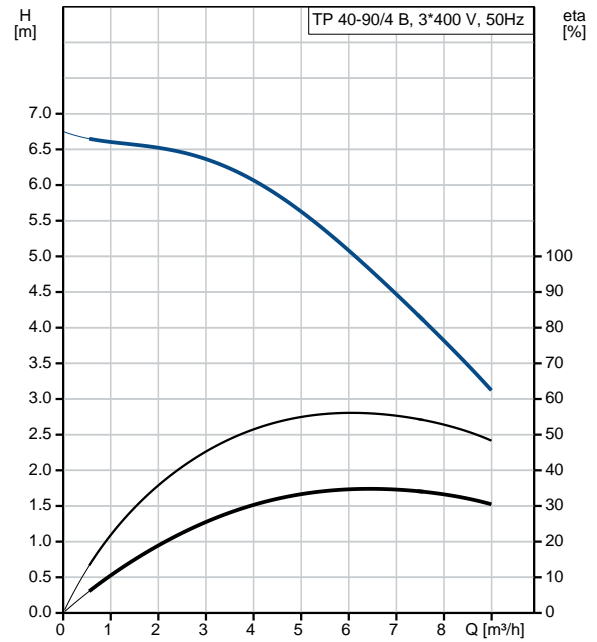
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		<p>Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p> <p>A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.</p> <p>The flanges have tapings 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>Motor</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 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>Technical data</p> <p>Liquid:</p> <table> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>0 .. 140 °C</td> </tr> <tr> <td>Liquid temperature during operation:</td> <td>20 °C</td> </tr> <tr> <td>Density:</td> <td>998.2 kg/m³</td> </tr> </table> <p>Technical:</p> <table> <tr> <td>Rated flow:</td> <td>6 m³/h</td> </tr> <tr> <td>Rated head:</td> <td>5.1 m</td> </tr> <tr> <td>Primary shaft seal:</td> <td>BUBE</td> </tr> <tr> <td>Curve tolerance:</td> <td>ISO9906:2012 3B</td> </tr> </table> <p>Materials:</p> <table> <tr> <td>Pump housing:</td> <td>Bronze DIN W.-Nr. 2.1050 ASTM B505-C90700</td> </tr> <tr> <td>Impeller:</td> <td>Stainless steel DIN W.-Nr. 1.4301 AISI 304</td> </tr> </table> <p>Installation:</p> <table> <tr> <td>Range of ambient temperature:</td> <td>-30 .. 40 °C</td> </tr> <tr> <td>Maximum operating pressure:</td> <td>16 bar</td> </tr> <tr> <td>Flange standard:</td> <td>DIN</td> </tr> <tr> <td>Pipe connection:</td> <td>DN 40</td> </tr> <tr> <td>Pressure rating:</td> <td>PN 16</td> </tr> <tr> <td>(@):</td> <td>320 mm</td> </tr> <tr> <td>Flange size for motor:</td> <td>FT85</td> </tr> </table> <p>Electrical data:</p> <table> <tr> <td>Motor type:</td> <td>71A</td> </tr> <tr> <td>Rated power - P2:</td> <td>0.25 kW</td> </tr> <tr> <td>Power (P2) required by pump:</td> <td>0.25 kW</td> </tr> <tr> <td>Mains frequency:</td> <td>50 Hz</td> </tr> <tr> <td>Rated voltage:</td> <td>3 x 220-240D/380-415Y V</td> </tr> <tr> <td>Rated current:</td> <td>1.48/0.85 A</td> </tr> <tr> <td>Starting current:</td> <td>400-440 %</td> </tr> <tr> <td>Cos phi - power factor:</td> <td>0.75-0.65</td> </tr> </table>	Pumped liquid:	Water	Liquid temperature range:	0 .. 140 °C	Liquid temperature during operation:	20 °C	Density:	998.2 kg/m ³	Rated flow:	6 m ³ /h	Rated head:	5.1 m	Primary shaft seal:	BUBE	Curve tolerance:	ISO9906:2012 3B	Pump housing:	Bronze DIN W.-Nr. 2.1050 ASTM B505-C90700	Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304	Range of ambient temperature:	-30 .. 40 °C	Maximum operating pressure:	16 bar	Flange standard:	DIN	Pipe connection:	DN 40	Pressure rating:	PN 16	(@):	320 mm	Flange size for motor:	FT85	Motor type:	71A	Rated power - P2:	0.25 kW	Power (P2) required by pump:	0.25 kW	Mains frequency:	50 Hz	Rated voltage:	3 x 220-240D/380-415Y V	Rated current:	1.48/0.85 A	Starting current:	400-440 %	Cos phi - power factor:	0.75-0.65
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Position	Qty.	Description
		<p>Rated speed: 1400-1420 rpm Efficiency: 61,5% - 68,5% Motor efficiency at full load: 61.5-68.5 % Motor efficiency at 3/4 load: 70 % Motor efficiency at 1/2 load: 63.9 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F</p> <p>Others: Minimum efficiency index, MEI : 0.70 ErP status: EuP Standalone/Prod. Net weight: 27.7 kg Gross weight: 30.2 kg Shipping volume: 0.06 m³</p>

On request TP 40-90/4 B A-F-Z-BUBE 50 Hz

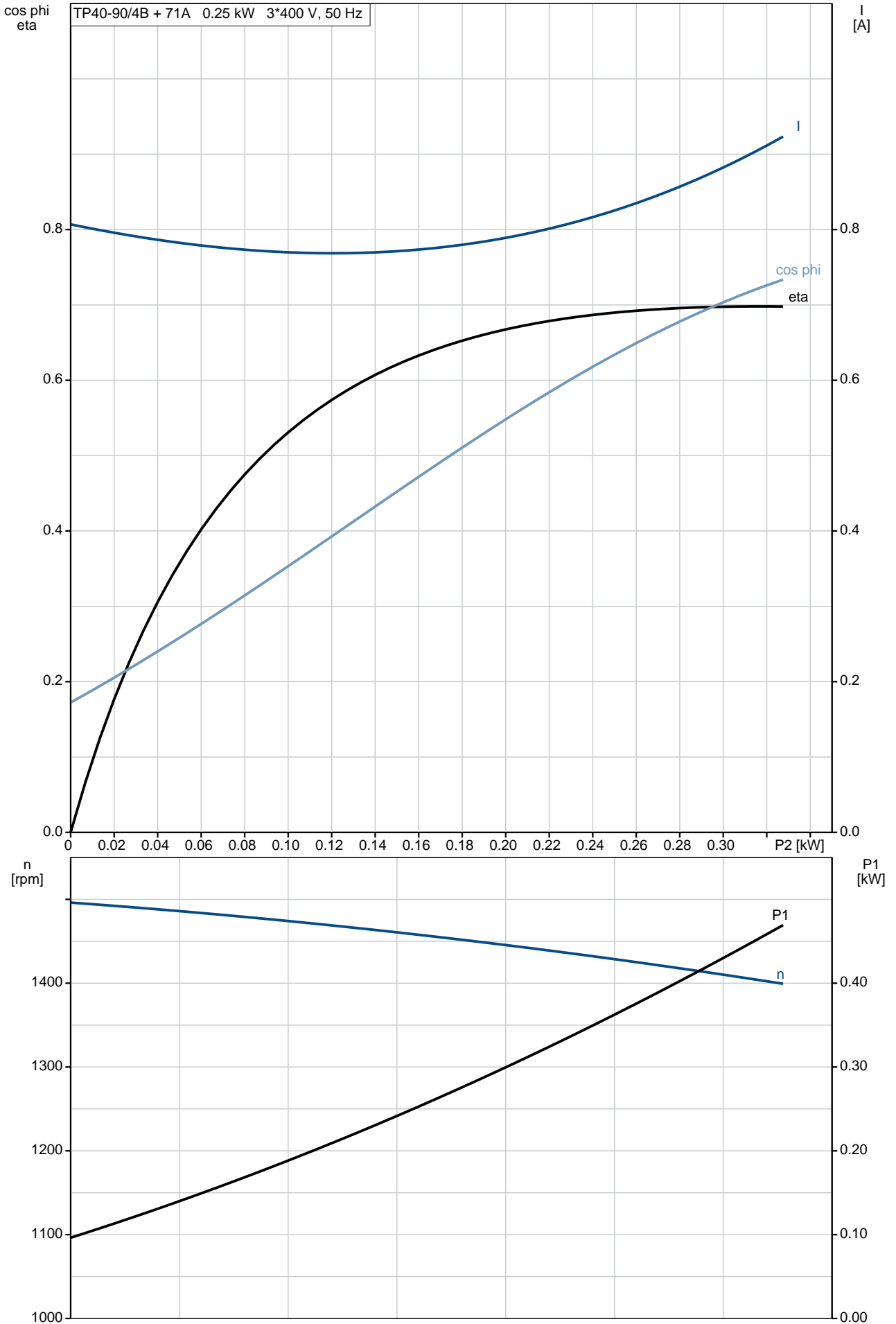


Description	Value
General information:	
Product name:	TP 40-90/4 B A-F-Z-BUBE
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	6 m ³ /h
Rated head:	5.1 m
Head max:	90 dm
Primary shaft seal:	BUBE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Bronze
	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 .. 40 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Pipe connection:	DN 40
Pressure rating:	PN 16
(@)	320 mm
Flange size for motor:	FT85
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	0 .. 140 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
Motor type:	71A
Rated power - P2:	0.25 kW
Power (P2) required by pump:	0.25 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	1.48/0.85 A
Starting current:	400-440 %
Cos phi - power factor:	0.75-0.65
Rated speed:	1400-1420 rpm
Efficiency:	61,5% - 68,5%
Motor efficiency at full load:	61.5-68.5 %
Motor efficiency at 3/4 load:	70 %
Motor efficiency at 1/2 load:	63.9 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	86805101
Others:	
Minimum efficiency index, MEI :	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	27.7 kg
Gross weight:	30.2 kg
Shipping volume:	0.06 m ³

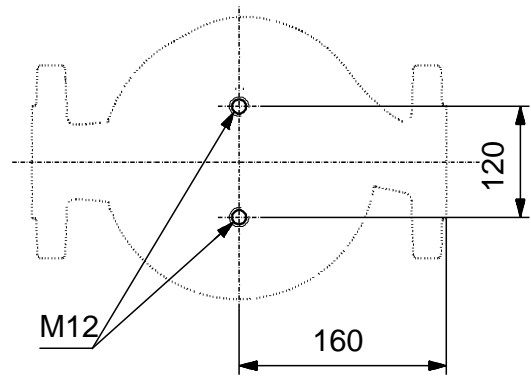
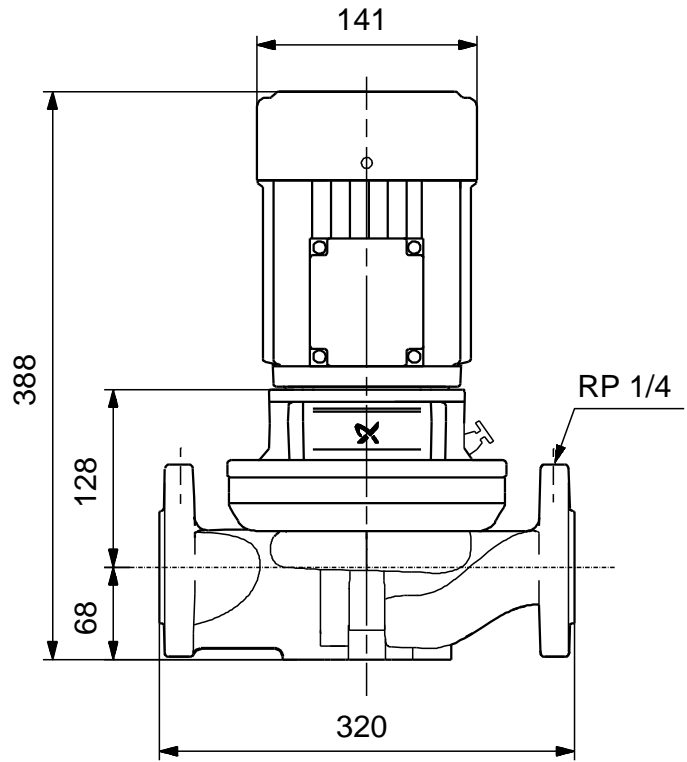
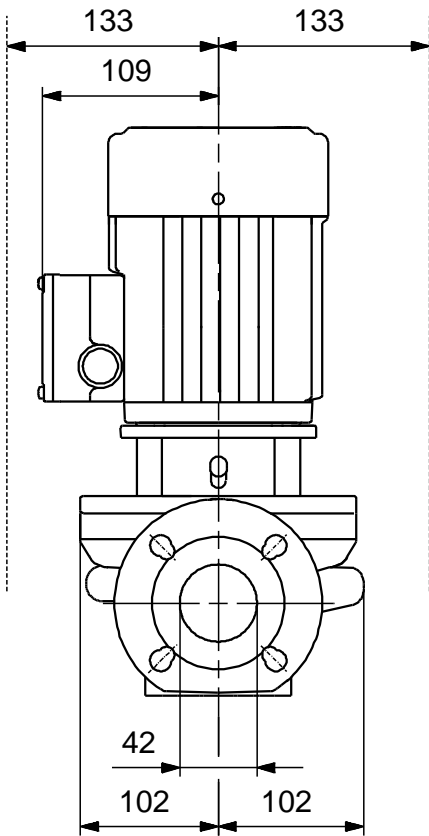


On request TP 40-90/4 B A-F-Z-BUBE 50 Hz

TP40-90/4B + 71A 0.25 kW 3*400 V, 50 Hz



On request TP 40-90/4 B A-F-Z-BUBE 50 Hz

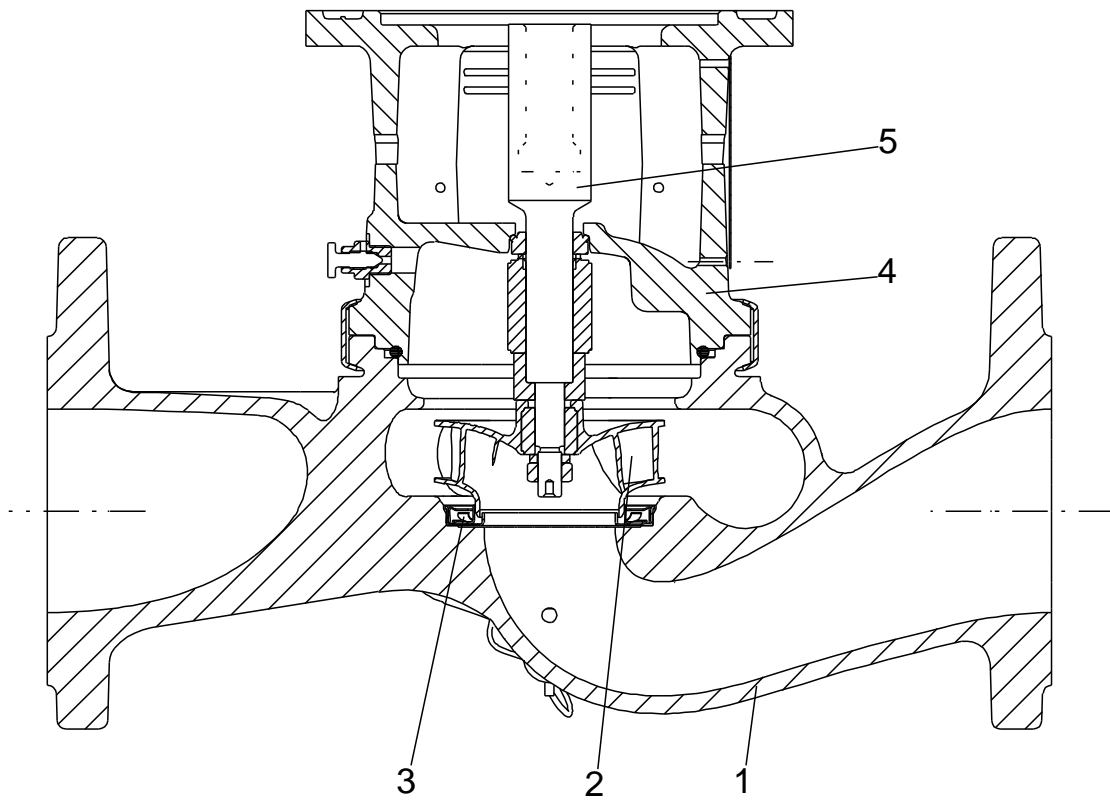


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list TP 40-90/4 B, Product No. On request
Valid from 20.6.2010 (1024)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+	Motor				1	pcs
-	Coupling cpl.				1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 20			
			Thread: M6			
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
10a	Coupling half				2	
-	Motor stool cpl.				1	pcs
2	Motor stool				1	
26	Hex head screw		Length (mm): 28		8	
			Thread: M10			
28	Hex head screw		Length (mm): 20		4	
			Thread: M6			
-	Pump housing cpl.				1	pcs
- 6	Pump housing				1	
	Pump housing				1	
45	Neck ring				1	
-	Coupling guard cpl.				1	pcs
7	Coupling guard				2	
7a	Pan head screw				4	
-	Shaft w/impeller cpl.				1	pcs
49	Impeller cpl.				1	
49b	Split cone				1	
49b	Split cone nut				1	
51	Pump shaft				1	
18	Air vent screw		Thread: 1/4"		1	pcs
19	Pipe plug		Thread: R 1/4		2	pcs
72a	O-ring		Diameter: 154		1	pcs
			Material type: EPDM			
			Thickness: 4			
105	Shaft seal		Material type: EPDM		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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