

TP 50-60/4-A-F-A-BUBE 400Y 50HZ

Grundfos Pump 96402045



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<https://www.lenntech.com/grundfos/TP000/96402045/TP-50-60-4-A-F-A-BUBE.html>

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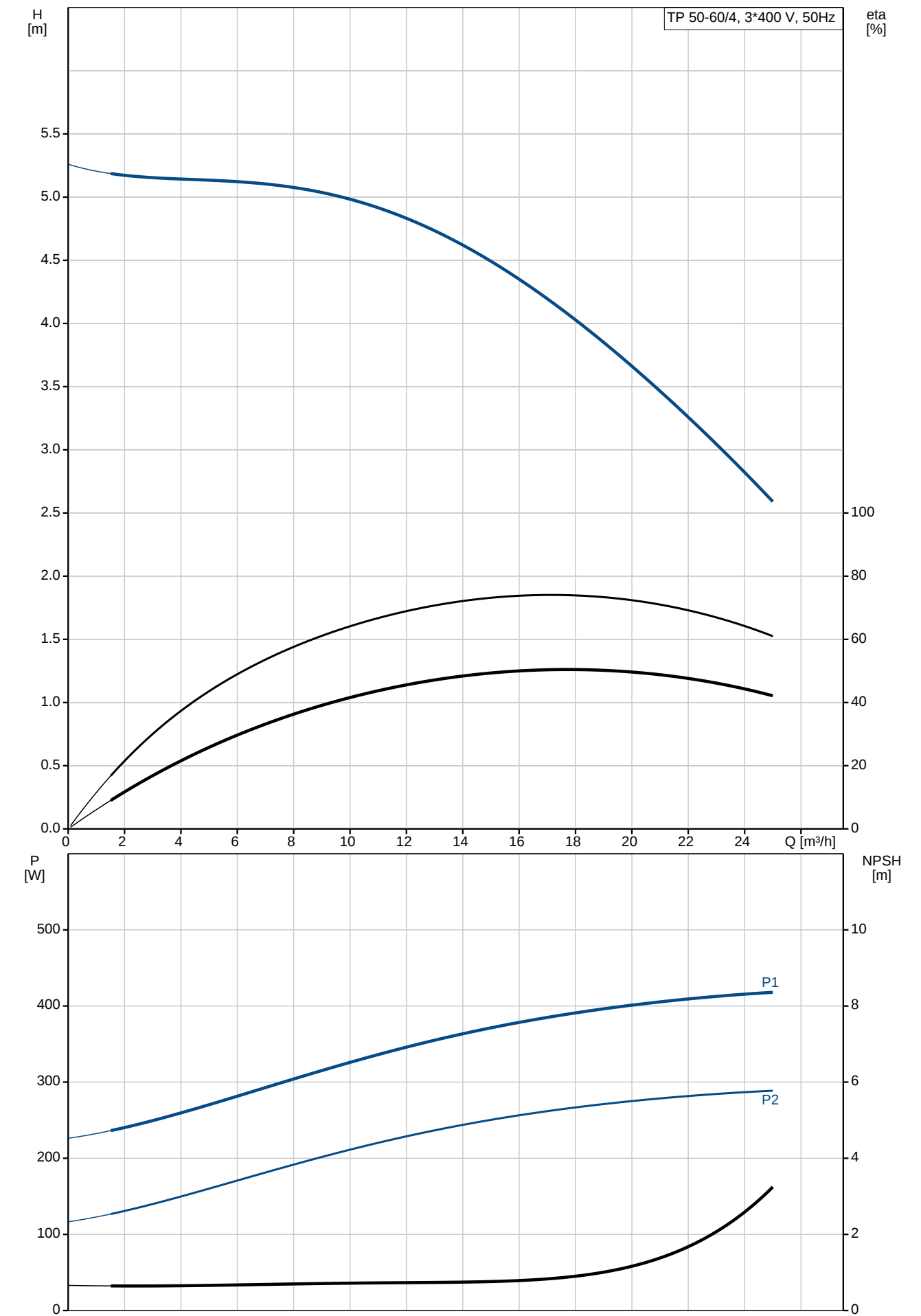
fax. +31-15-261.62.89

Position	Qty.	Description
	1	TP 50-60/4 A-F-A-BUBE  Product No.: 96402045 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 6/10 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled asynchronous motor. Further product details 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. Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

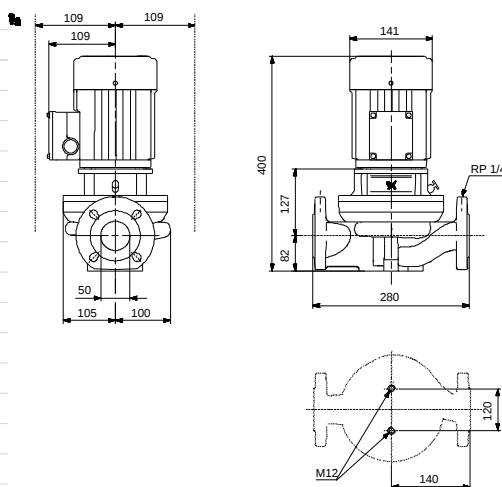
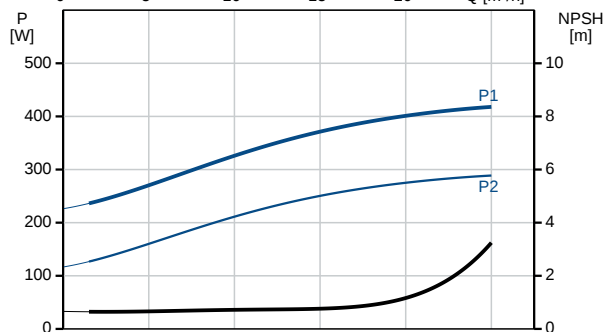
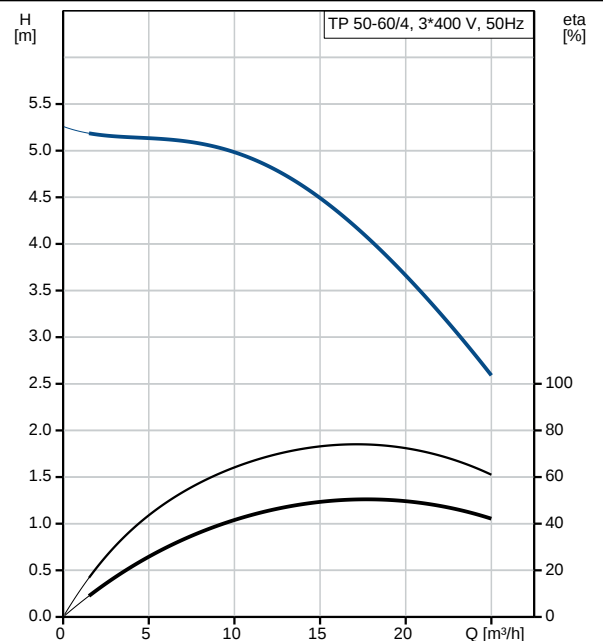
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		A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. The flanges have tappings for mounting of pressure gauges. The motor stool forms connection between the pump housing and the motor, 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 rigid two-part 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 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: <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> Technical: <table><tr><td>Speed for pump data:</td><td>1430 rpm</td></tr><tr><td>Rated flow:</td><td>17.1 m³/h</td></tr><tr><td>Rated head:</td><td>4.2 m</td></tr><tr><td>Actual impeller diameter:</td><td>126 mm</td></tr><tr><td>Primary shaft seal:</td><td>BUBE</td></tr><tr><td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr></table> Materials: <table><tr><td>Pump housing:</td><td>Cast iron EN-JL1040 ASTM A48-40 B</td></tr><tr><td>Impeller:</td><td>Stainless steel DIN W.-Nr. 1.4301 AISI 304</td></tr></table> Installation: <table><tr><td>Range of ambient temperature:</td><td>-30 .. 40 °C</td></tr><tr><td>Maximum operating pressure:</td><td>10 bar</td></tr><tr><td>Flange standard:</td><td>DIN</td></tr><tr><td>Pipe connection:</td><td>DN 50</td></tr><tr><td>Pump inlet:</td><td>DN 50</td></tr><tr><td>Pump outlet:</td><td>DN 50</td></tr><tr><td>Pressure rating:</td><td>PN 6/10</td></tr><tr><td>Port-to-port length:</td><td>280 mm</td></tr><tr><td>Flange size for motor:</td><td>FT85</td></tr></table> Electrical data: <table><tr><td>Motor type:</td><td>71B</td></tr><tr><td>Rated power - P2:</td><td>0.37 kW</td></tr><tr><td>Power (P2) required by pump:</td><td>0.37 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>1,90/1,10 A</td></tr><tr><td>Starting current:</td><td>400-440 %</td></tr></table>	Pumped liquid:	Water	Liquid temperature range:	0 .. 140 °C	Liquid temperature during operation:	20 °C	Density:	998.2 kg/m³	Speed for pump data:	1430 rpm	Rated flow:	17.1 m³/h	Rated head:	4.2 m	Actual impeller diameter:	126 mm	Primary shaft seal:	BUBE	Curve tolerance:	ISO9906:2012 3B	Pump housing:	Cast iron EN-JL1040 ASTM A48-40 B	Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304	Range of ambient temperature:	-30 .. 40 °C	Maximum operating pressure:	10 bar	Flange standard:	DIN	Pipe connection:	DN 50	Pump inlet:	DN 50	Pump outlet:	DN 50	Pressure rating:	PN 6/10	Port-to-port length:	280 mm	Flange size for motor:	FT85	Motor type:	71B	Rated power - P2:	0.37 kW	Power (P2) required by pump:	0.37 kW	Mains frequency:	50 Hz	Rated voltage:	3 x 220-240D/380-415Y V	Rated current:	1,90/1,10 A	Starting current:	400-440 %
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Position	Qty.	Description
		Cos phi - power factor: 0,77-0,67 Rated speed: 1400-1420 rpm Efficiency: 66,0% Motor efficiency at full load: 66.0 % Motor efficiency at 3/4 load: 72.2 % Motor efficiency at 1/2 load: 67.6 % 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: 28.6 kg Gross weight: 35.5 kg Shipping volume: 0.06 m³

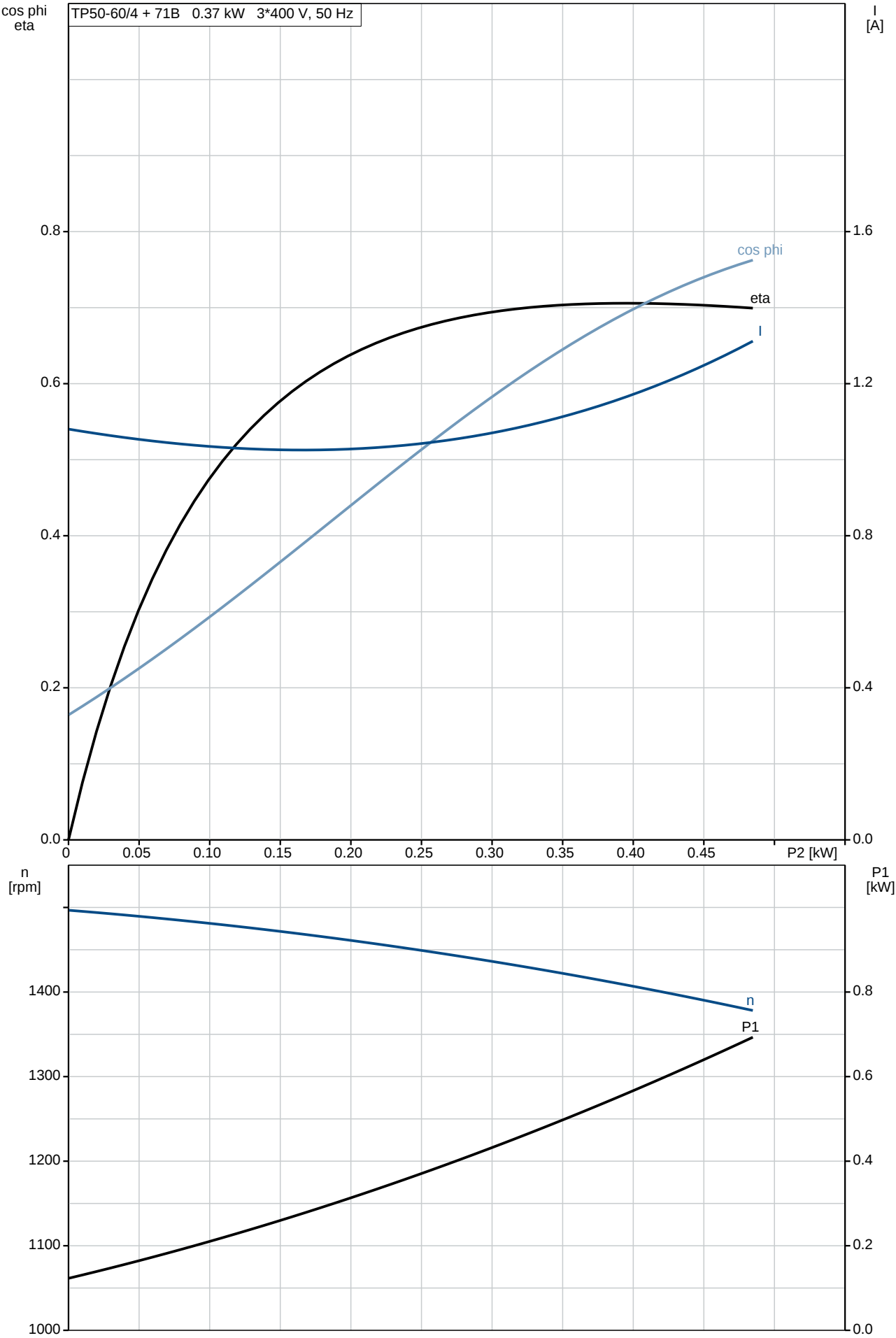
96402045 TP 50-60/4 50 Hz



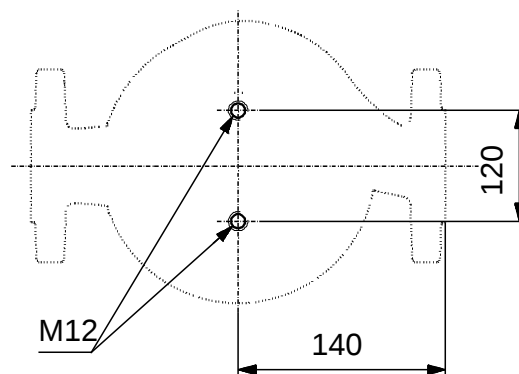
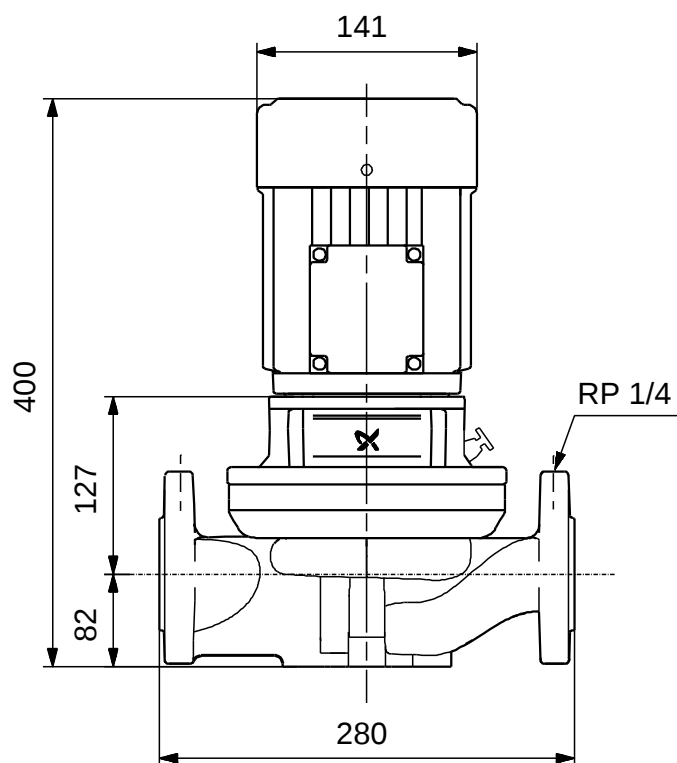
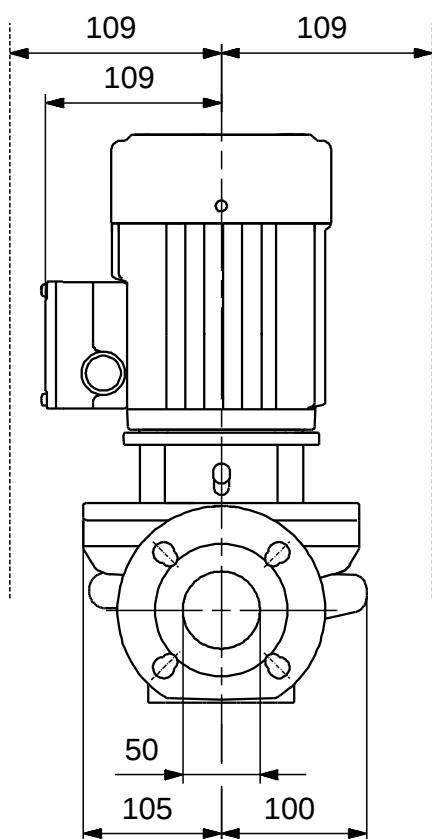
Description	Value
General information:	
Product name:	TP 50-60/4 A-F-A-BUBE
Product No:	96402045
EAN number:	5700390657765
Technical:	
Speed for pump data:	1430 rpm
Rated flow:	17.1 m³/h
Rated head:	4.2 m
Head max:	60 dm
Actual impeller diameter:	126 mm
Primary shaft seal:	BUBE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron
	EN-JL1040
	ASTM A48-40 B
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	A
Installation:	
Range of ambient temperature:	-30 .. 40 °C
Maximum operating pressure:	10 bar
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 50
Pump inlet:	DN 50
Pump outlet:	DN 50
Pressure rating:	PN 6/10
Port-to-port length:	280 mm
Flange size for motor:	FT85
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:	71B
Rated power - P2:	0.37 kW
Power (P2) required by pump:	0.37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	1,90/1,10 A
Starting current:	400-440 %
Cos phi - power factor:	0,77-0,67
Rated speed:	1400-1420 rpm
Efficiency:	66,0%
Motor efficiency at full load:	66.0 %
Motor efficiency at 3/4 load:	72.2 %
Motor efficiency at 1/2 load:	67.6 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	86805102
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	28.6 kg
Gross weight:	35.5 kg
Shipping volume:	0.06 m³
Sales region:	CN



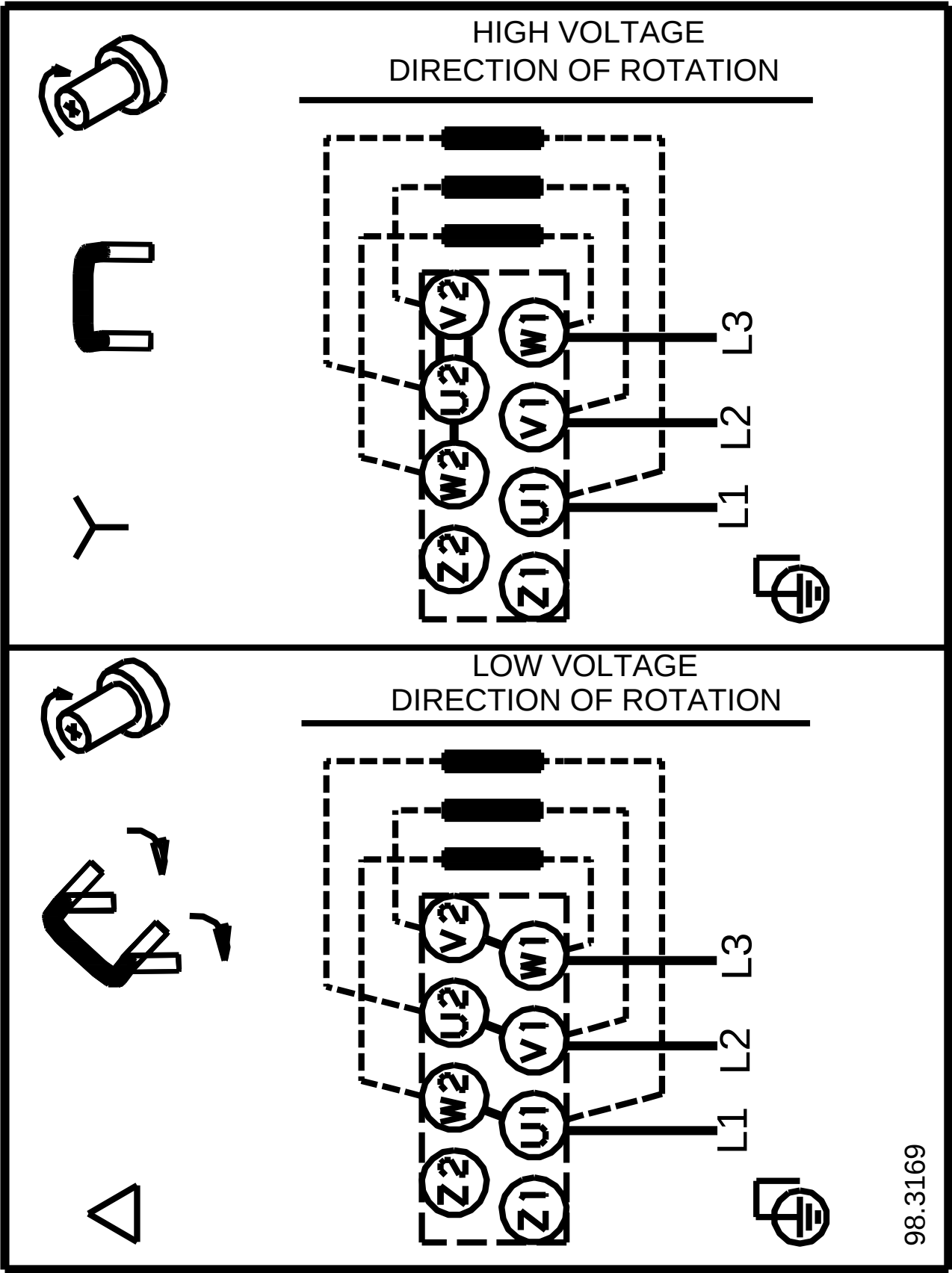
96402045 TP 50-60/4 50 Hz



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



98.3169

Note! All units are in [mm] unless others are stated.

*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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