

TP50-30/4 BUBE 1x220-230V PN6/10

Grundfos Pump 96402013



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<https://www.lenntech.com/grundfos/TP000/96402013/TP-50-30-4-A-F-A-BUBE.html>

info@lenntech.com

tel. +31-15-261.09.00

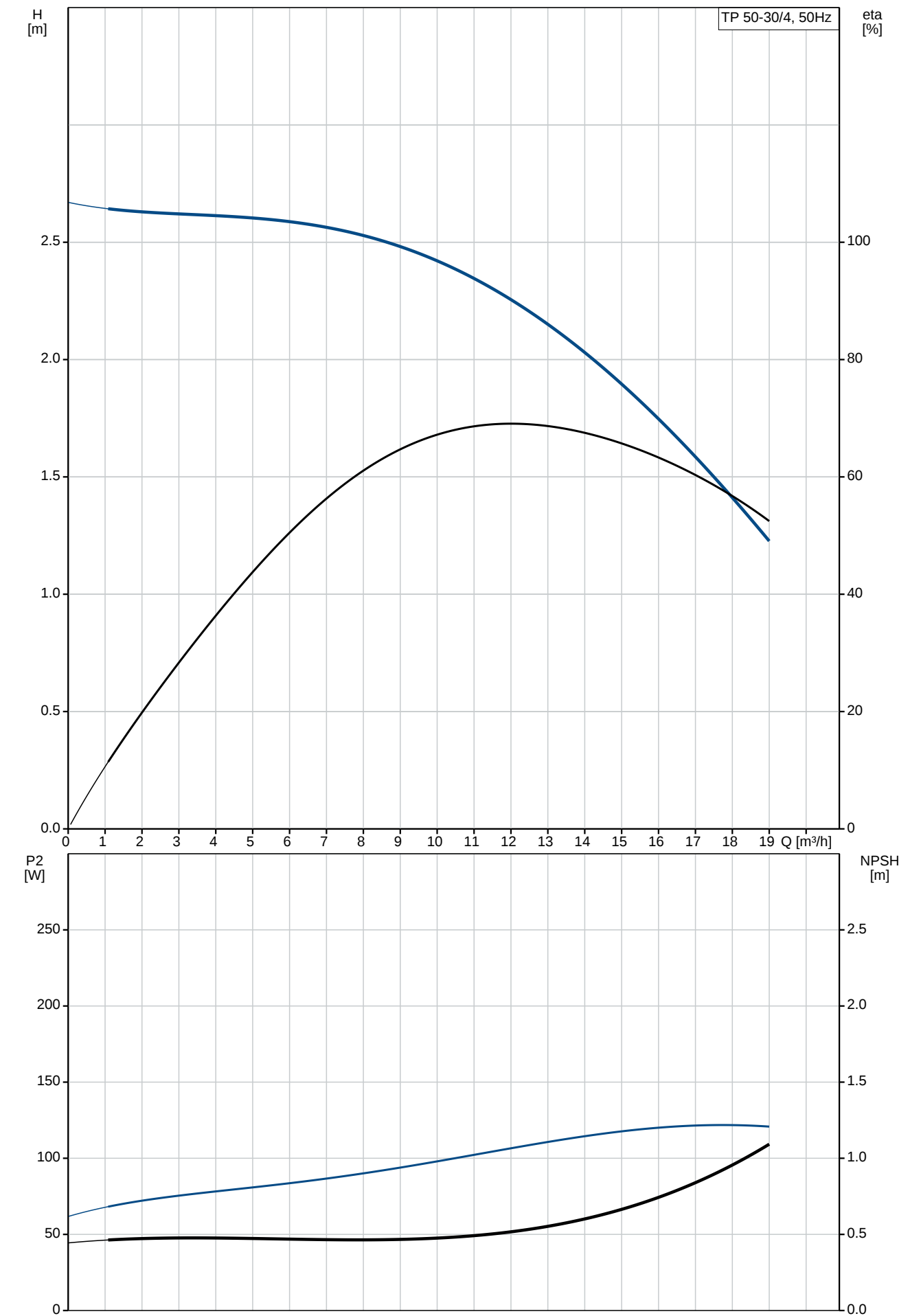
fax. +31-15-261.62.89

Position	Qty.	Description
	1	TP 50-30/4 A-F-A-BUBE  Product No.: 96402013 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.

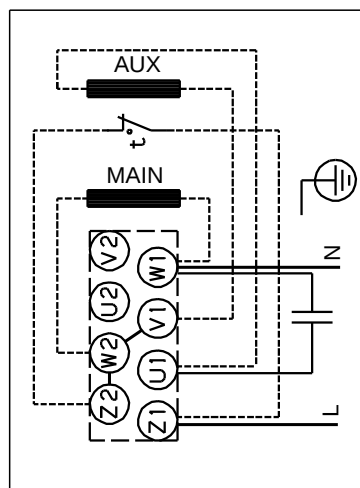
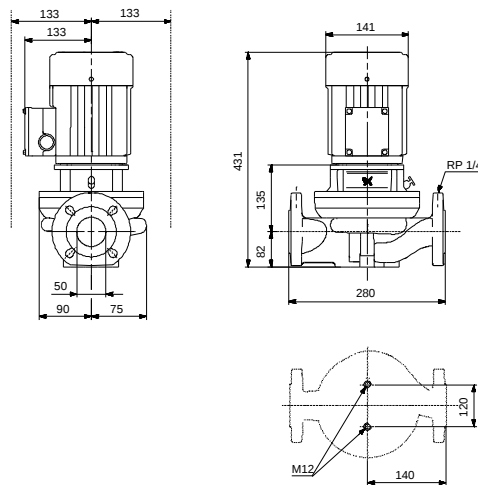
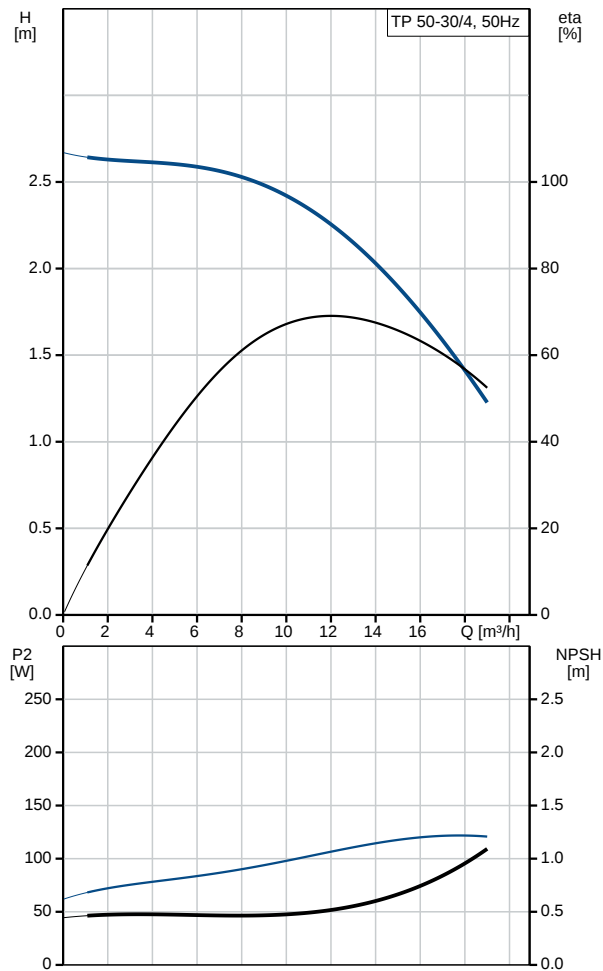
Position	Qty.	Description
		A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. The flanges have tappings for mounting of pressure gauges. The motor stool forms connection between the pump housing and the motor, and is equipped with a manual 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 has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions. As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents. Technical data Liquid: Pumped liquid: Water Liquid temperature range: 0 .. 140 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Speed for pump data: 1400 rpm Rated flow: 11.9 m³/h Rated head: 2.26 m Primary shaft seal: BUBE Curve tolerance: ISO9906:2012 3B Materials: Pump housing: Cast iron EN-JL1040 Impeller: ASTM A48-40 B Stainless steel DIN W.-Nr. 1.4301 AISI 304 Installation: 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 Electrical data: Motor type: 71A Rated power - P2: 0.18 kW Power (P2) required by pump: 0.18 kW Mains frequency: 50 Hz Rated voltage: 1 x 220-230 V Rated current: 1.62 A

Position	Qty.	Description
		Starting current: 200 % Cos phi - power factor: 0,97 Rated speed: 1350-1370 rpm Motor efficiency at full load: 54.0-52.0 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 25 kg Gross weight: 26.3 kg Shipping volume: 41.6 m³

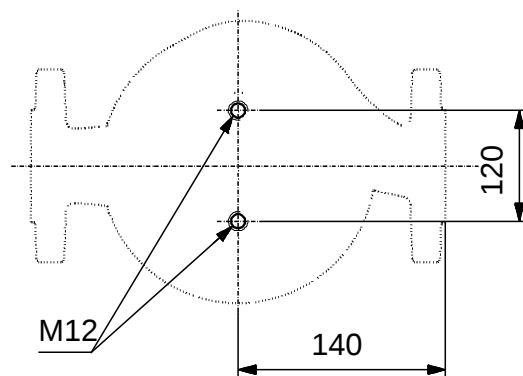
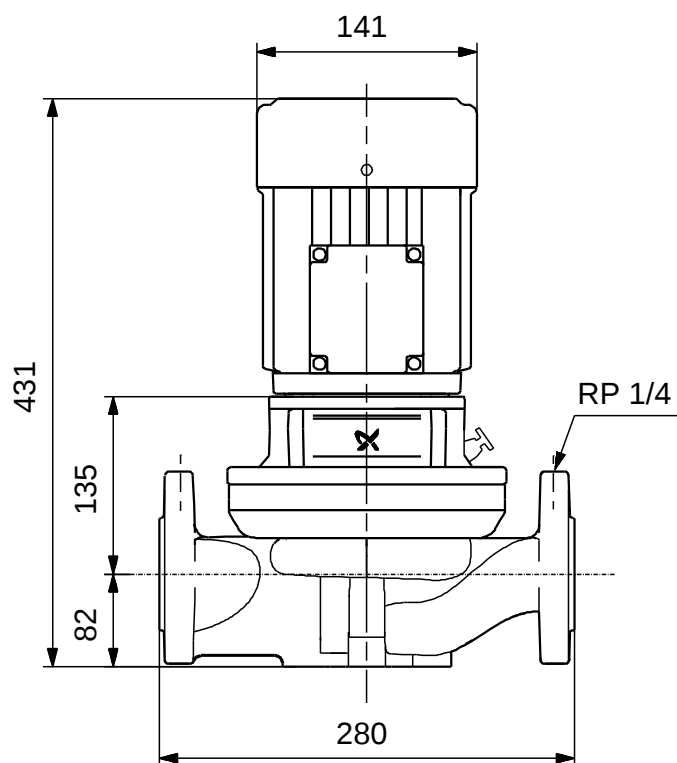
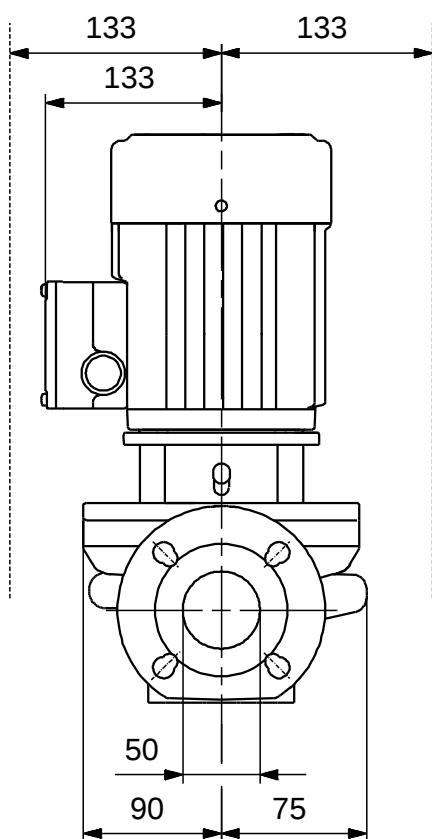
96402013 TP 50-30/4 50 Hz



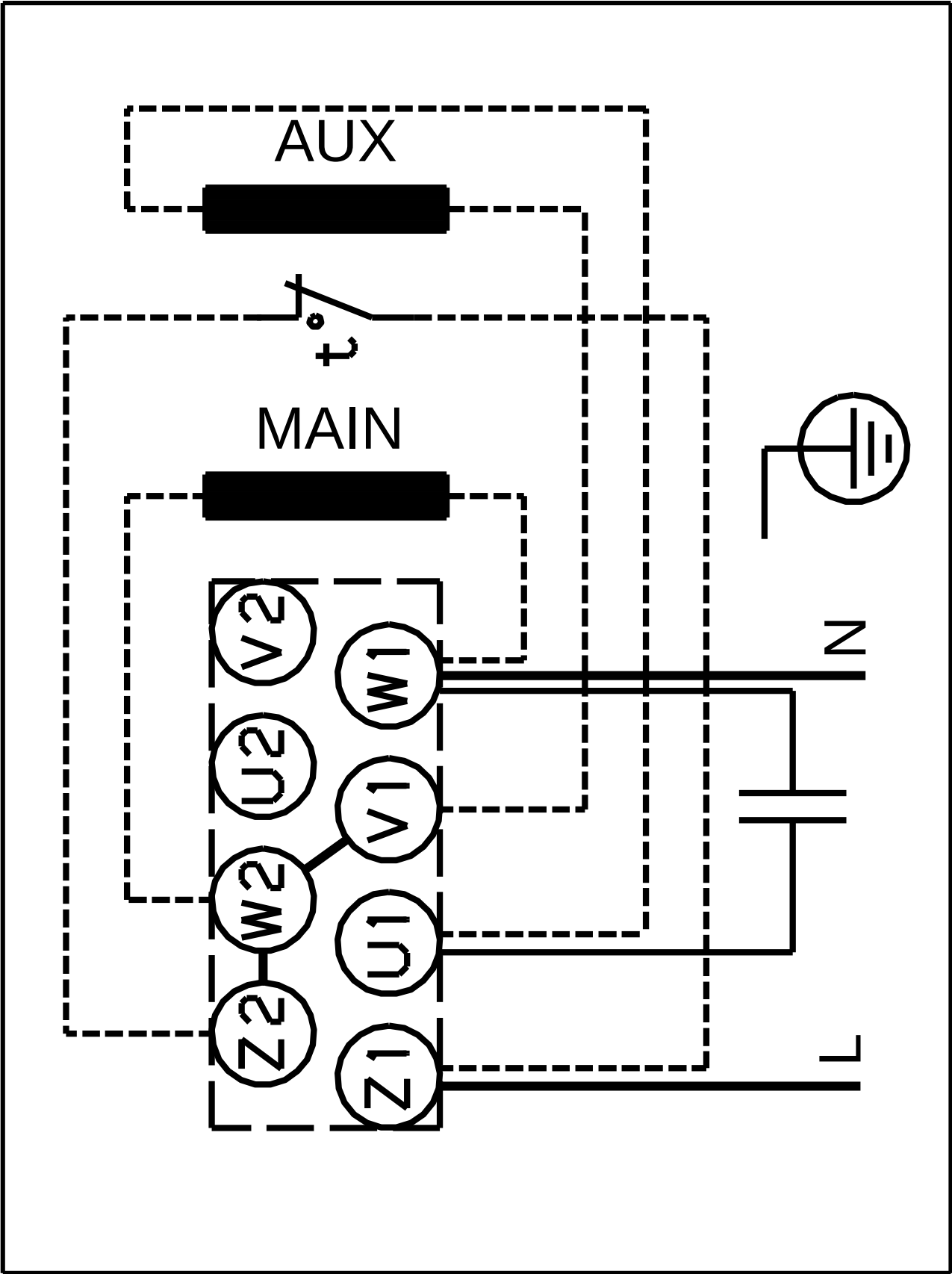
Description	Value
General information:	
Product name:	TP 50-30/4 A-F-A-BUBE
Product No:	96402013
EAN number:	5700390656836
Technical:	
Speed for pump data:	1400 rpm
Rated flow:	11.9 m³/h
Rated head:	2.26 m
Head max:	30 dm
Primary shaft seal:	BUBE
Curve tolerance:	ISO9906:2012 3B
Pump No:	96405065
Pump 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:	71A
Rated power - P2:	0.18 kW
Power (P2) required by pump:	0.18 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 220-230 V
Rated current:	1.62 A
Starting current:	200 %
Cos phi - power factor:	0,97
Rated speed:	1350-1370 rpm
Motor efficiency at full load:	54.0-52.0 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTO
Motor No:	86215100
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	25 kg
Gross weight:	26.3 kg
Shipping volume:	41.6 m³



96402013 TP 50-30/4 50 Hz



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



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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info@lenntech.com

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tel. +31-15-261.09.00

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