

TPD 80-70/4-A-F-A-BQQE 1X230 50HZ

Grundfos Pump 96384304



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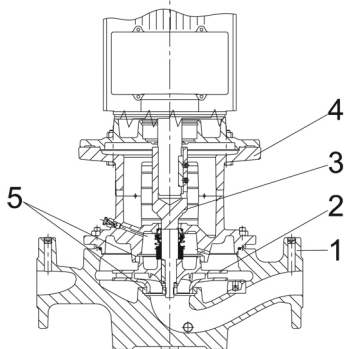
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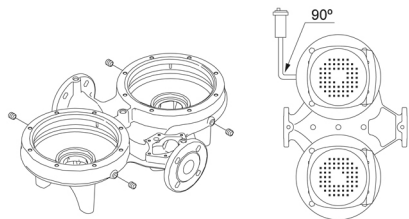
<https://www.lenntech.com/grundfos/TPD00/96384304/TPD-80-70-4-A-F-A-BQQE.html>

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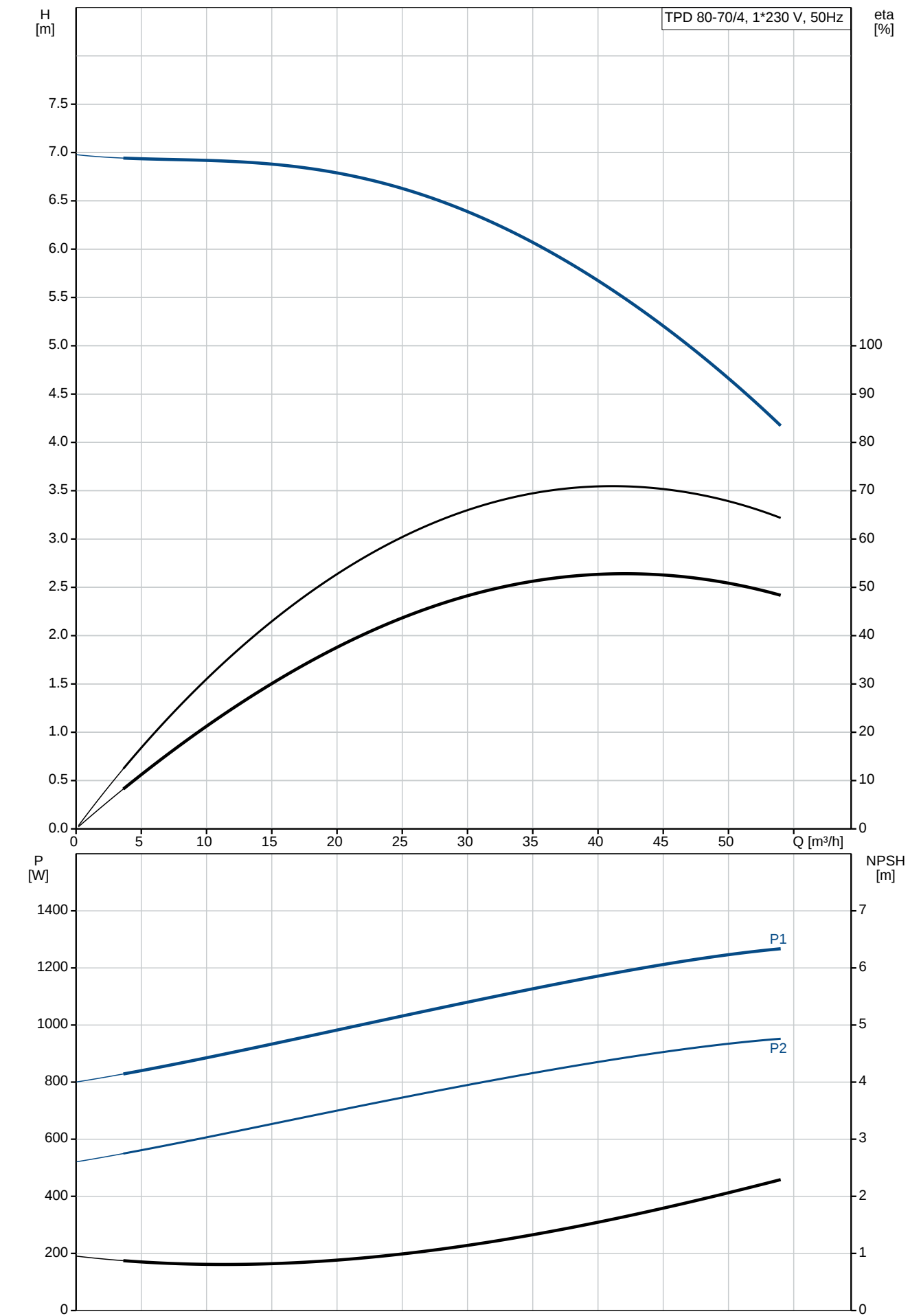
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Position	Qty.	Description
	1	TPD 80-70/4 A-F-A-BQQE  Product No.: 96384304 Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads. 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. Each power head 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). Each power head is fitted with a fan-cooled asynchronous motor of identical size. Further product details 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: Stub shaft 4: Pump head/motor stool 5: Wear rings The twin-head pump is designed with two parallel power-heads. A non-return flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head. The pump housing is provided with a replaceable bronze neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side. The impeller is secured to the shaft with a 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: Silicon carbide (SiC) - Stationary seat material: Silicon carbide (SiC) This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles. Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

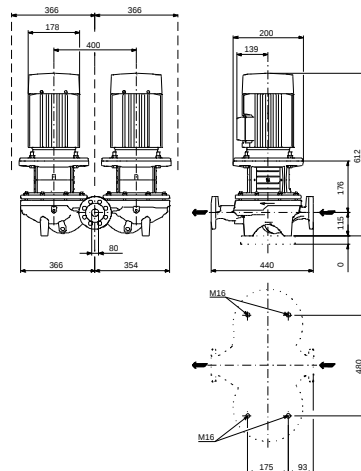
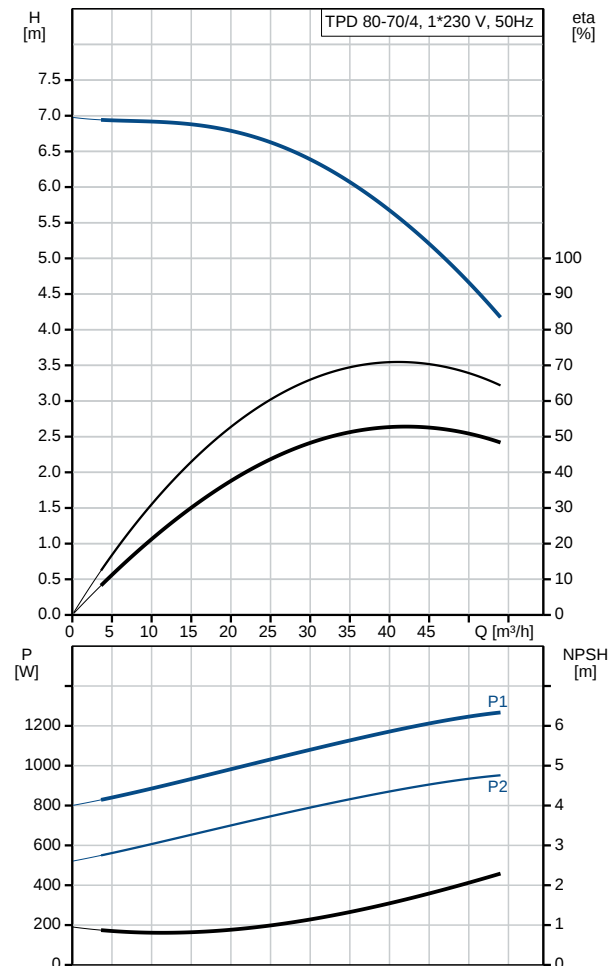
Position	Qty.	Description
		A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. The pump housing has four Rp 1/8 tappings for mounting of automatic air vents. Fit an air vent to the upper pump housing if the twin-head pump is to be installed in a horizontal pipeline with horizontal pump shaft.  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. The pump stub shaft is fastened directly on the motor shaft with key and set screws. 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 free-hole flange (FF). Motor mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (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: -25 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Technical: Speed for pump data: 1445 rpm Rated flow: 38.9 m³/h Rated head: 5.9 m Actual impeller diameter: 149 mm Primary shaft seal: BQQE Curve tolerance: ISO9906:2012 3B Materials: Pump housing: Cast iron EN-JL1040 ASTM A48-40 B Impeller: Cast iron EN-JL1030 ASTM A48-30 B Installation: Range of ambient temperature: -30 .. 40 °C Maximum operating pressure: 16 bar Flange standard: DIN Pipe connection: DN 80 Pump inlet: DN 80 Pump outlet: DN 80

Position	Qty.	Description
		Pressure rating: PN 16 Port-to-port length: 440 mm Flange size for motor: FF165 Electrical data: Motor type: 90LB Rated power - P2: 2 x 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz Rated voltage: 1 x 220-230 V Rated current: 7 A Starting current: 390 % Cos phi - power factor: 0,96 Rated speed: 1420-1430 rpm Motor efficiency at full load: 75-76 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Others: Minimum efficiency index, MEI $\geq$: 0.68 ErP status: EuP Standalone/Prod. Net weight: 142 kg Gross weight: 156 kg Shipping volume: 0.46 m ³

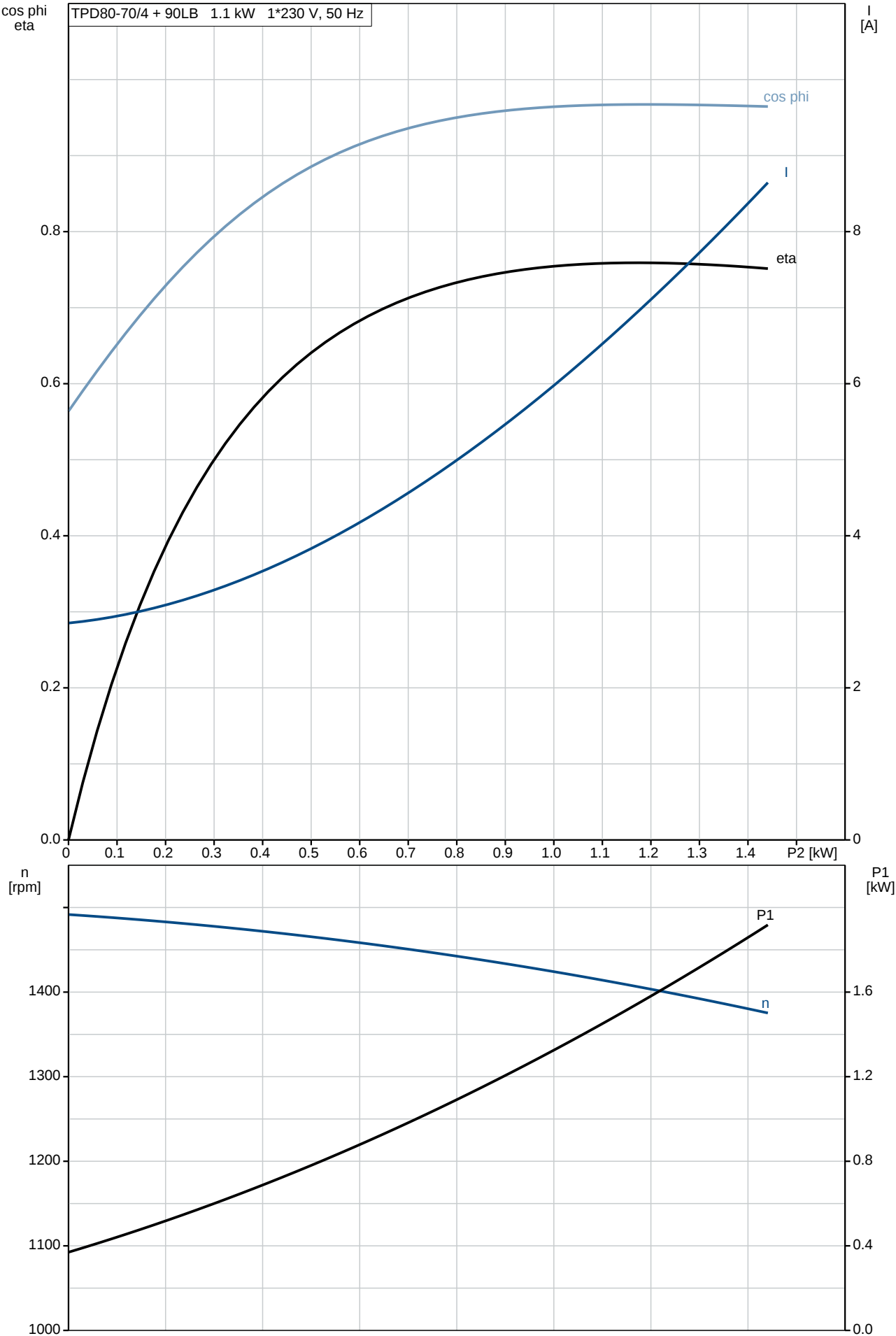
96384304 TPD 80-70/4 50 Hz



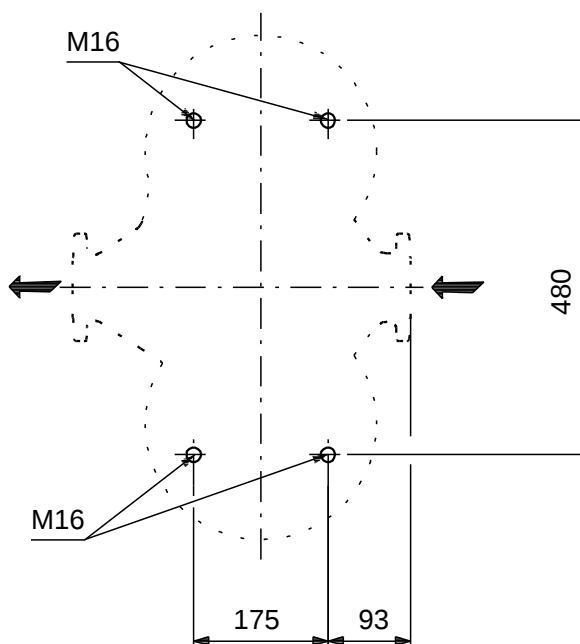
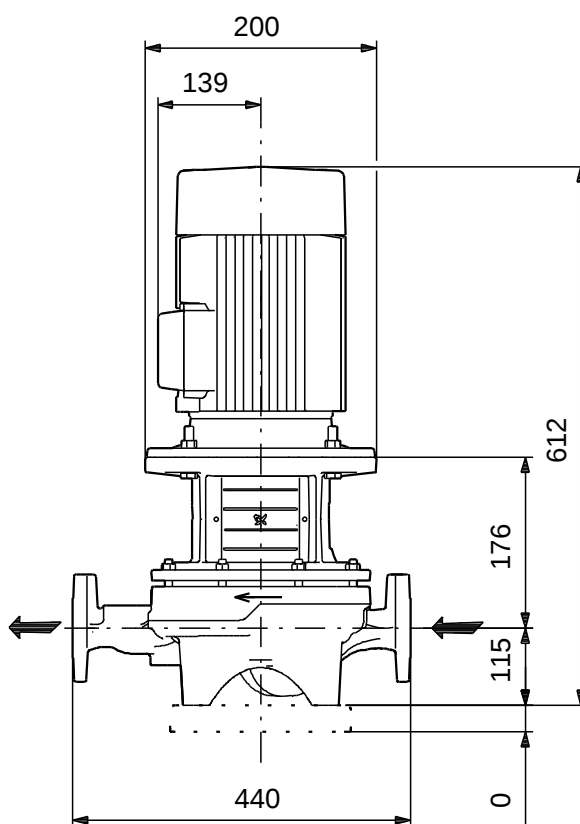
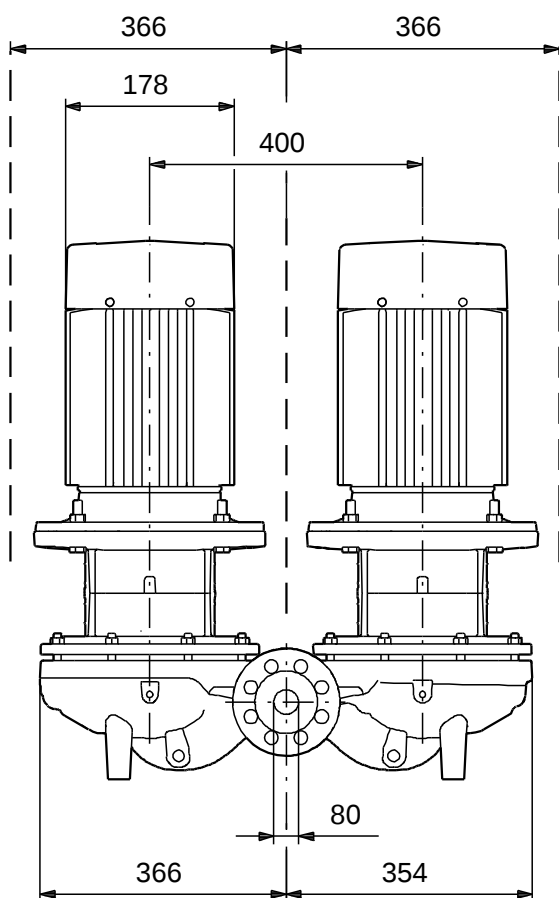
Description	Value
General information:	
Product name:	TPD 80-70/4 A-F-A-BQQE
Product No:	96384304
EAN number:	5700832153176
Technical:	
Speed for pump data:	1445 rpm
Rated flow:	38.9 m³/h
Rated head:	5.9 m
Head max:	70 dm
Actual impeller diameter:	149 mm
Primary shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron
	EN-JL1040
	ASTM A48-40 B
Impeller:	Cast iron
	EN-JL1030
	ASTM A48-30 B
Material code:	A
Installation:	
Range of ambient temperature:	-30 .. 40 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 80
Pump inlet:	DN 80
Pump outlet:	DN 80
Pressure rating:	PN 16
Port-to-port length:	440 mm
Flange size for motor:	FF165
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	90LB
Rated power - P2:	2 x 1.1 kW
Power (P2) required by pump:	1.1 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 220-230 V
Rated current:	7 A
Starting current:	390 %
Cos phi - power factor:	0,96
Rated speed:	1420-1430 rpm
Motor efficiency at full load:	75-76 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTO
Motor No:	87200343
Others:	
Minimum efficiency index, MEI ≥:	0.68
ErP status:	EuP Standalone/Prod.
Net weight:	142 kg
Gross weight:	156 kg
Shipping volume:	0.46 m³



96384304 TPD 80-70/4 50 Hz

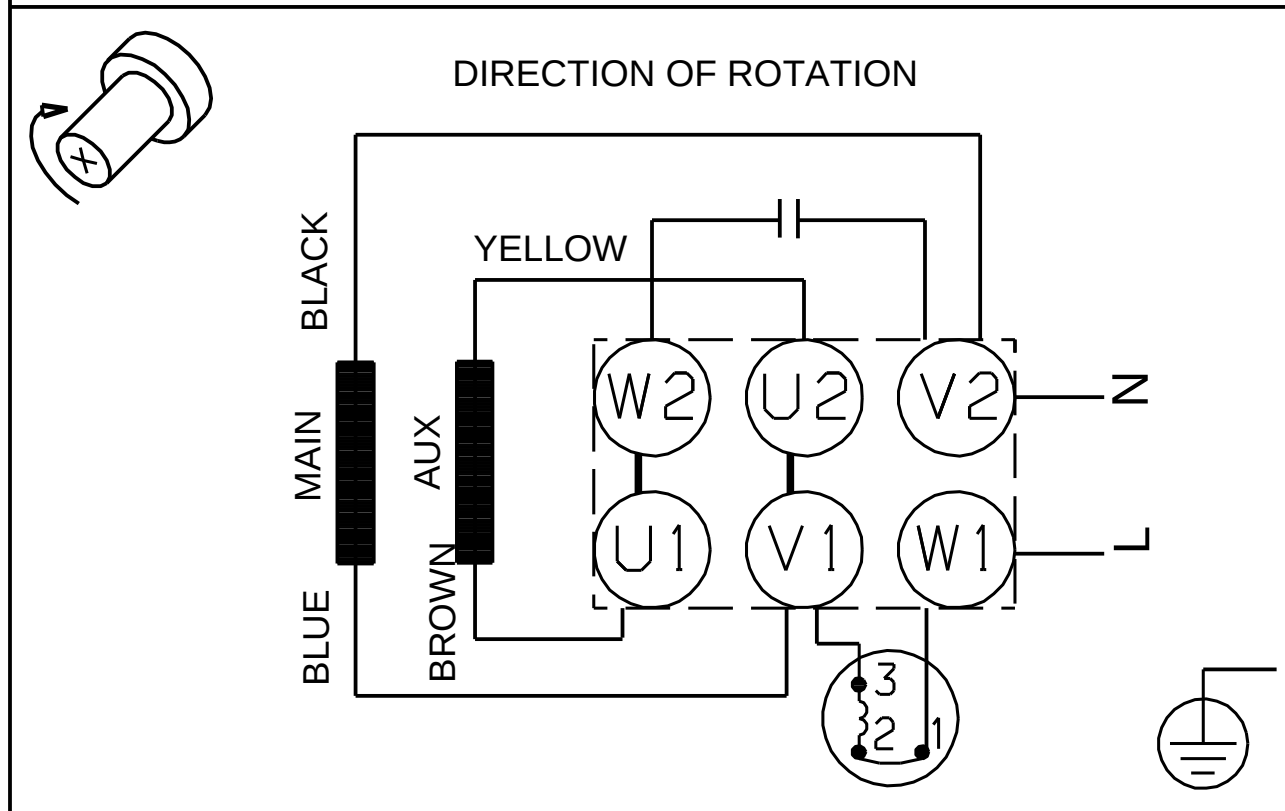
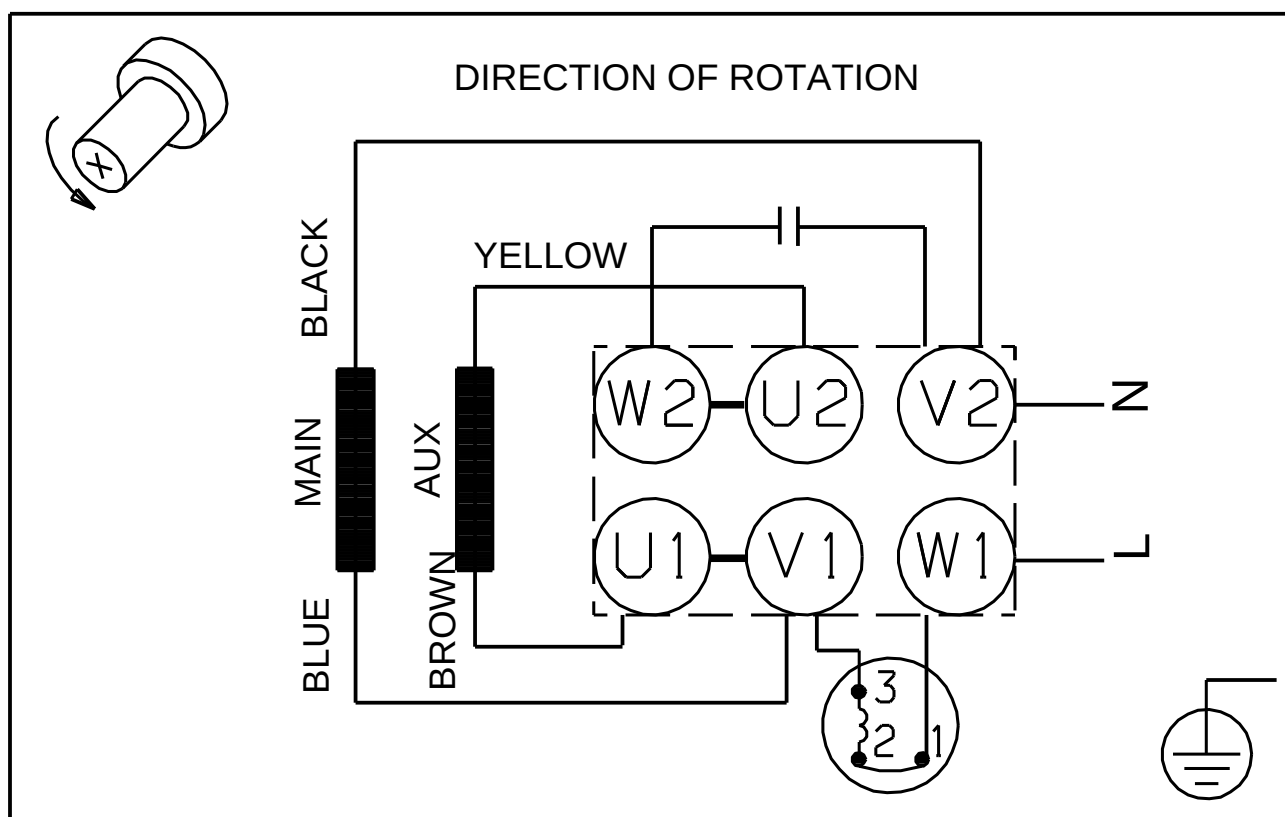


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Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

96384304 TPD 80-70/4 50 Hz



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*Disclaimer: The information about the Grundfos pump in this document may be outdated.
Data may be subject to alterations without further notice.
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