

TP 100-30/4-AI-F-A-BQQE 400Y 50HZ

Grundfos pump 98873387



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https://www.lenntech.com/grundfos/TP000/98873387/TP-100-30-4-AI-F-A-BQQE.html

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Position	Qty.	Description				
	1	TP 100-30/4 AI-F-A-BQQE				
		Product No.: On request				
		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 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled asynchronous motor.				
		Further product details Pump				
		Pump housing and pump head are electrocoated to improve the corrosion resistance. Electrocoating includes:				
		 Alkaline-based cleaning. Pretreatment with zinc phosphate coating. 				
		3) Cathodic electrocoating (epoxy).4) Curing of paint film at 200-250 °C.				
		5 1: Pump housing 2: Impeller 3: Shaft 4: Coupling 5: Pump head				
		The pump housing is provided with a replaceable stainles 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: 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. 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 shell 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.

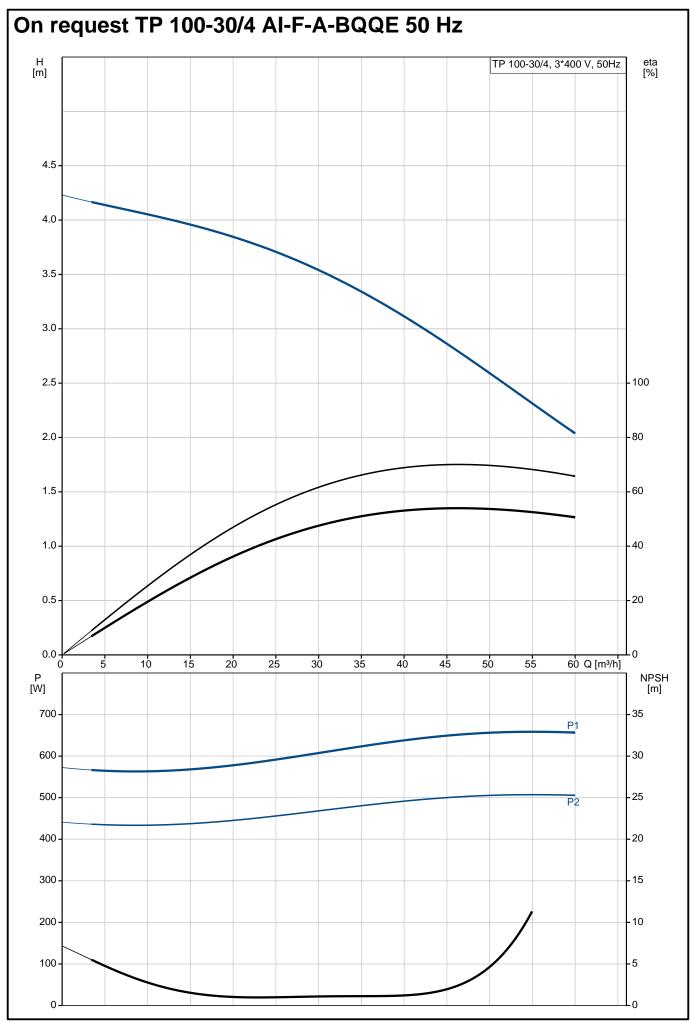
The motor is flange-mounted with tapped-hole flange (FT). Motor-mounting designation in accordance with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (Code II).

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).

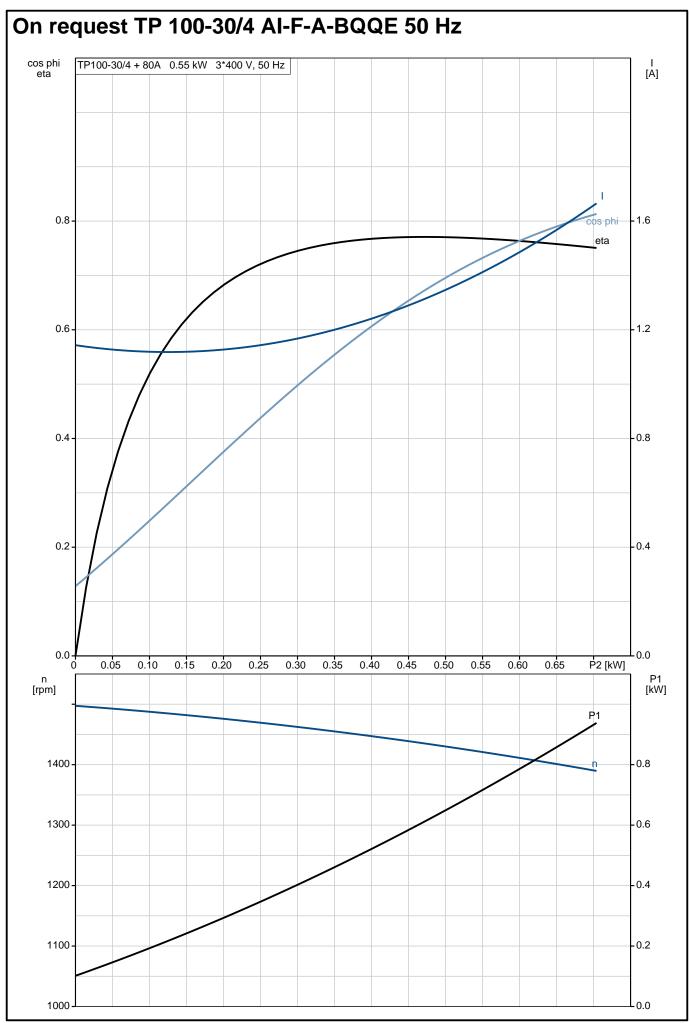
Technical data

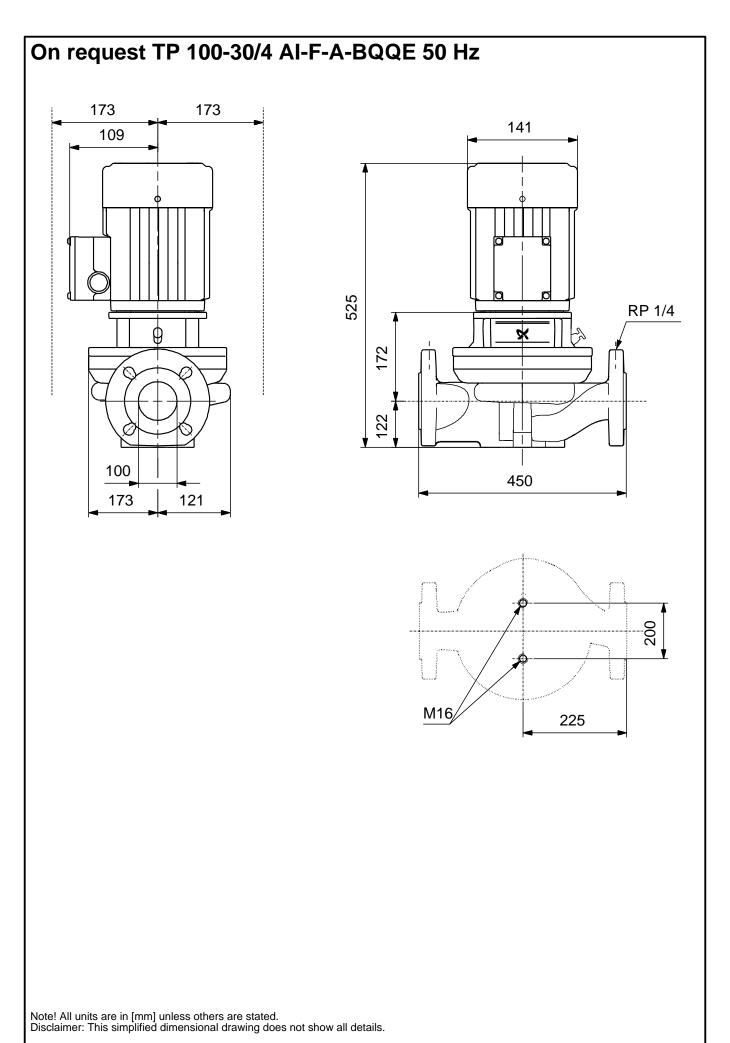
Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during opera Density:	Water -25 120 °C tion: 20 °C 998.2 kg/m³
Technical: Rated flow: Rated head: Actual impeller diameter: Primary shaft seal: Curve tolerance:	46.1 m³/h 2.8 m 119 mm BQQE ISO9906:2012 3B
Materials: Pump housing: Impeller:	Cast iron EN-JL1040 ASTM A48-40 B Stainless steel DIN WNr. 1.4301 AISI 304
Installation: Range of ambient temperature: Maximum operating pressure: Flange standard: Pipe connection: Pump inlet: Pump outlet: Pressure rating: (@): Flange size for motor:	-30 40 °C 6 bar DIN DN 100 DN 100 DN 100 PN 6 450 mm FT100
Electrical data: Motor type: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load:	80A 0.55 kW 0.55 kW 50 Hz 3 x 220-240D/380-415Y V 2.60/1.50 A 430-470 % 0.79-0.70 1390-1410 rpm 70.0% 70.0 % 79 %

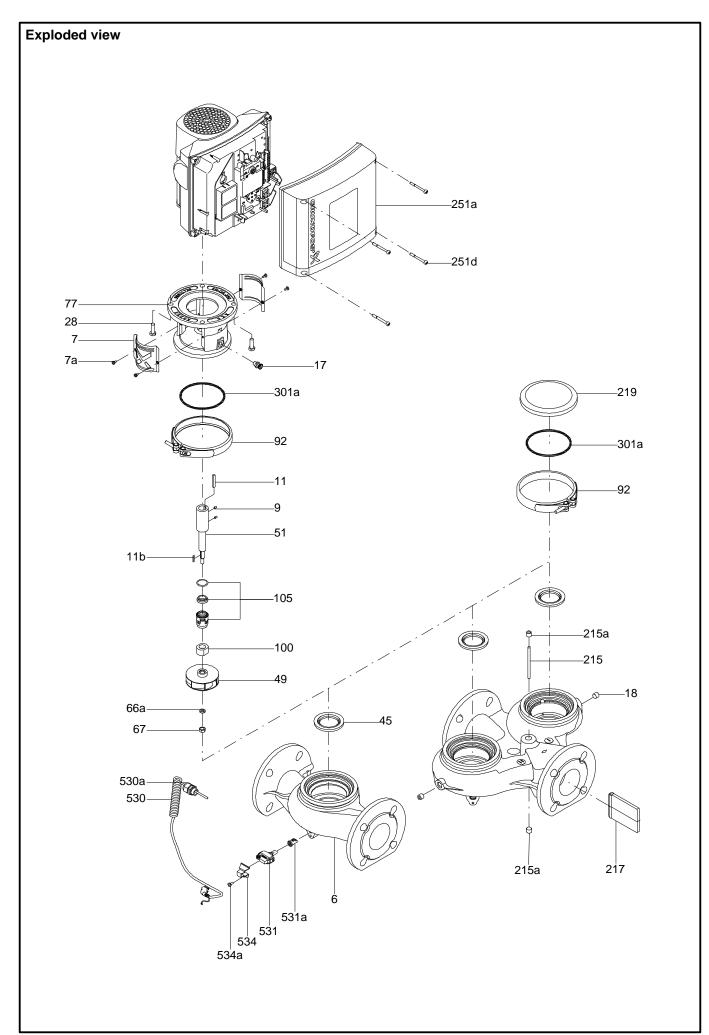
Position	Qty.	Description	
		Motor efficiency at 1/2 load:	78.1 %
		Number of poles:	4 EE_Dust/latting
		Enclosure class (IEC 34-5): Insulation class (IEC 85):	55 Dust/Jetting F
		Others:	
		Minimum efficiency index, MEI ErP status:	: 0.45 EuP Standalone/Prod.
		Net weight:	46 kg
		Gross weight:	52.6 kg
		Shipping volume:	0.16 m ³
		Norwegian NRF no.:	9043601
1			
1			

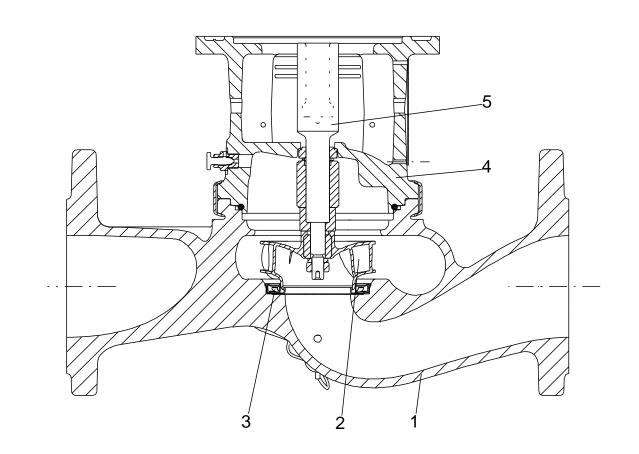


-		H [m] TP 100-30/4, 3*400 V, 50Hz [%]
Description	Value	[m]
General information:		
Product name:	TP 100-30/4 AI-F-A-BQQE	45
Product No:	On request	4.5 -
EAN number:	On request	4.0
Technical:		4.0
Rated flow:	46.1 m³/h	3.5
Rated head:	2.8 m	0.0
Head max:	30 dm	3.0
Actual impeller diameter:	119 mm	3.0
Primary shaft seal:	BQQE	2.5 - 100
Curve tolerance:	ISO9906:2012 3B	
Pump version:	Al	2.0 - 80
Model:	A	
Materials:	A	1.5
Pump housing:	Cast iron	1.0 40
	EN-JL1040	
	ASTM A48-40 B	0.5 20
Impeller:	Stainless steel	
	DIN WNr. 1.4301	0.0
	AISI 304	0 10 20 30 40 50 Q [m³/h]
Material code:	A	P [W] [m]
Installation:		P1
Range of ambient temperature:	-30 40 °C	600 - 30
Maximum operating pressure:	6 bar	500 - 25
Flange standard:	DIN	500 - P2 - 23
Pipe connection:	DN 100	400 - 20
•		300 - 15
Pump inlet:	DN 100	
Pump outlet:	DN 100	200 - 10
Pressure rating:	PN 6	100 5
(@)	450 mm	
Flange size for motor:	FT100	
Connect code:	F	173 173
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:	80A	
Rated power - P2:	0.55 kW	
Power (P2) required by pump:	0.55 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 220-240D/380-415Y V	
Rated current:	2.60/1.50 A	
Starting current:	430-470 %	
Cos phi - power factor:	0.79-0.70	
Rated speed:	1390-1410 rpm	M16 225
Efficiency:	70.0%	
Motor efficiency at full load:	70.0 %	
Motor efficiency at 3/4 load:	79 %	HIGH VOLTAGE DIRECTION OF ROTATION
Motor efficiency at 1/2 load:	78.1 %	()
Number of poles:	4	
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
	NONE	
Motor protec:		
Motor No:	86805103	
Others:		
Minimum efficiency index, MEI :	0.45	LOW VOLTAGE DIRECTION OF ROTATION
ErP status:	EuP Standalone/Prod.	
Net weight:	46 kg	
Gross weight:	52.6 kg	
Shipping volume:	0.16 m ³	
Norwegian NRF no.:	9043601	
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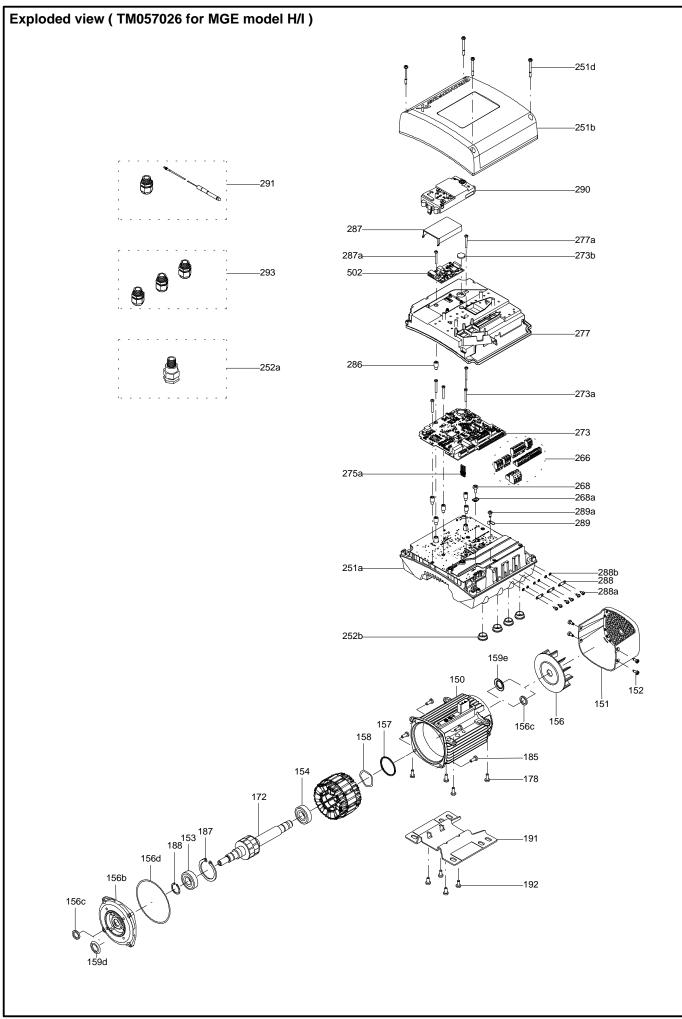








TM058200



Parts list TP 100-30/4, 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): 25		8	
			Thread: M10			
28	Hex head screw				4	
-	Pump housing cpl.				1	pcs
- 6	Pump housing cpl.				1	
	Pump housing				1	
45	Neck ring				1	
-	Coupling guard cpl.				1	pcs
7	Coupling guard				2	
7a	Pan head screw				4	
-	Shaft seal cpl.				1	pcs
105	Shaft seal				1	
-	Shaft w/impeller cpl.				1	pcs
49	Impeller				1	
49b	Split cone				1	
49b	Split cone nut				1	
51	Shaft				1	
18	Air vent screw		Thread: 1/4"		1	pcs
19	Plug				2	pcs
72a	O-ring		Diameter: 154		1	pcs
			Material type: EPDM			
			Thickness: 4			

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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