

## TP 200-400/4-A-F-A-BQQE 400D 50HZ

Grundfos pump 96306168



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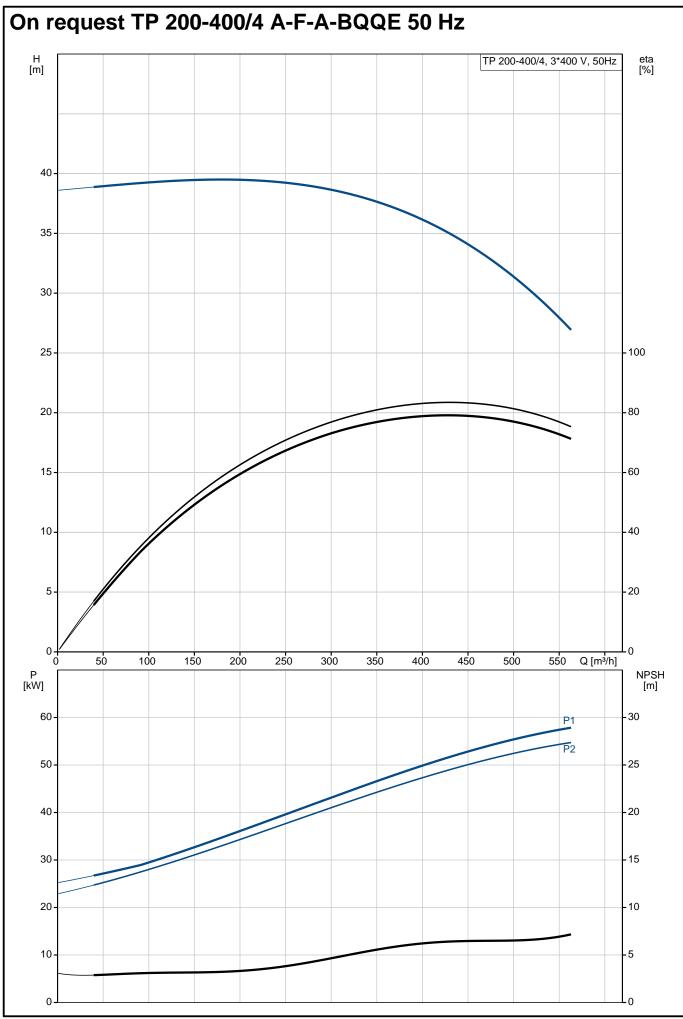
https://www.lenntech.com/grundfos/TP000/96306168/TP-200-400-4-A-F-A-BQQE.html

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Position	Qty.	Description
	1	TP 200-400/4 A-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 16 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.
		<ul> <li>Pump</li> <li>Pump housing and pump head are electrocoated to improve the corrosion resistance.</li> <li>Electrocoating includes: <ol> <li>Alkaline-based cleaning.</li> <li>Pretreatment with zinc phosphate coating.</li> <li>Cathodic electrocoating (epoxy).</li> <li>Curing of paint film at 200-250 °C.</li> </ol> </li> </ul>
		1: Pump housing 2: Impeller 3: Stub shaft 4: Pump head/motor stool 5: Wear rings
		The pump housing is provided with a replaceable brass neck ring to reduce the amount of liquid running from the outlet side of the impeller to the inlet 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)
		<ul> <li>Stationary seat material: silicon carbide (SiC)</li> <li>This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.</li> <li>Secondary seal material: EPDM (ethylene-propylene rubber)</li> </ul>
		EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

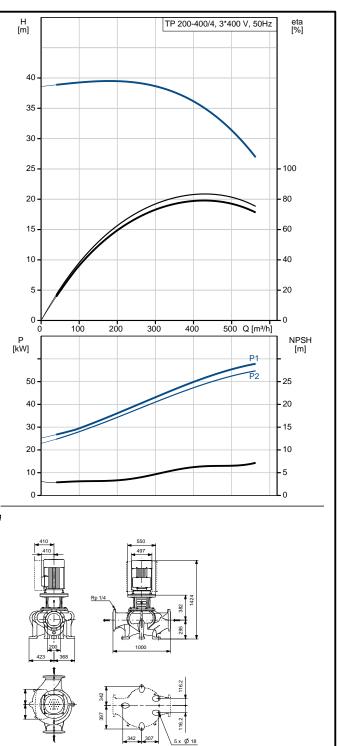
Position	Qty.	Description				
		A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shall seal.				
		The flanges have tappings for mounting of pressure gauges.				
		The motor stool forms connection between the pump housing and the motor, and is equipped 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 couplin The pump shaft is fastened directly on the motor shaft with key and set screws.				
			fan-cooled motor with principal dimensions to IEC and DIN standards. 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 thermistors (PTC	as IE3 in accordance with IEC 60034-30-1. sensors) in the windings in accordance with DIN 44081/DIN 44082. w- and quick-rising temperatures, e.g. constant overload and stalled			
			ected to an external control circuit in a way which ensures that the cidents. The motors must be connected to a motor-protective circuit ations.			
		A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.				
		Technical data				
		Liquid:	<b>N</b>			
		Pumped liquid: Liquid temperature range:	Water -25 120 °C			
		Liquid temperature during opera				
		Density:	998.2 kg/m <sup>3</sup>			
		Technical:				
		Rated flow:	433 m³/h			
		Rated head:	35 m			
		Actual impeller diameter:	343 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:	-20 55 °C			
		Maximum operating pressure:	16 bar			
		Flange standard:	DIN			
		Pipe connection:	DN 200			
		Pump inlet:	DN 200			
		Pump outlet:	DN 200			
		Pressure rating:	PN 16			
		(@):	1000 mm			
		Flange size for motor:	FF500			
		Electrical data:				
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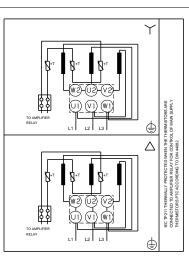
Position	Qty.	Description	
		Motor type:	SIEMENS
		IE Efficiency class:	IE3
		Rated power - P2:	55 kW
		Power (P2) required by pump:	55 kW
		Mains frequency:	50 Hz
		Rated voltage:	3 x 380-420D/660-725Y V
		Rated current:	100-93,0/58,0-54,0 A
		Starting current:	680-680 %
		Cos phi - power factor:	0.87
		Rated speed:	1480 rpm
		Efficiency:	IE3 94,6%
		Motor efficiency at full load:	94.6-94.6 %
		Motor efficiency at 3/4 load:	95.1-95.1 %
		Motor efficiency at 1/2 load:	95.0-95.0 %
		Number of poles:	4
		Enclosure class (IEC 34-5):	55 Dust/Jetting
		Insulation class (IEC 85):	F
		Others:	
		Minimum efficiency index, MEI	: 0.70
		ErP status:	EuP Standalone/Prod.
		Net weight:	854 kg
		Gross weight:	898 kg
		Shipping volume:	3.13 m <sup>3</sup>
		Danish VVS No.:	381719400
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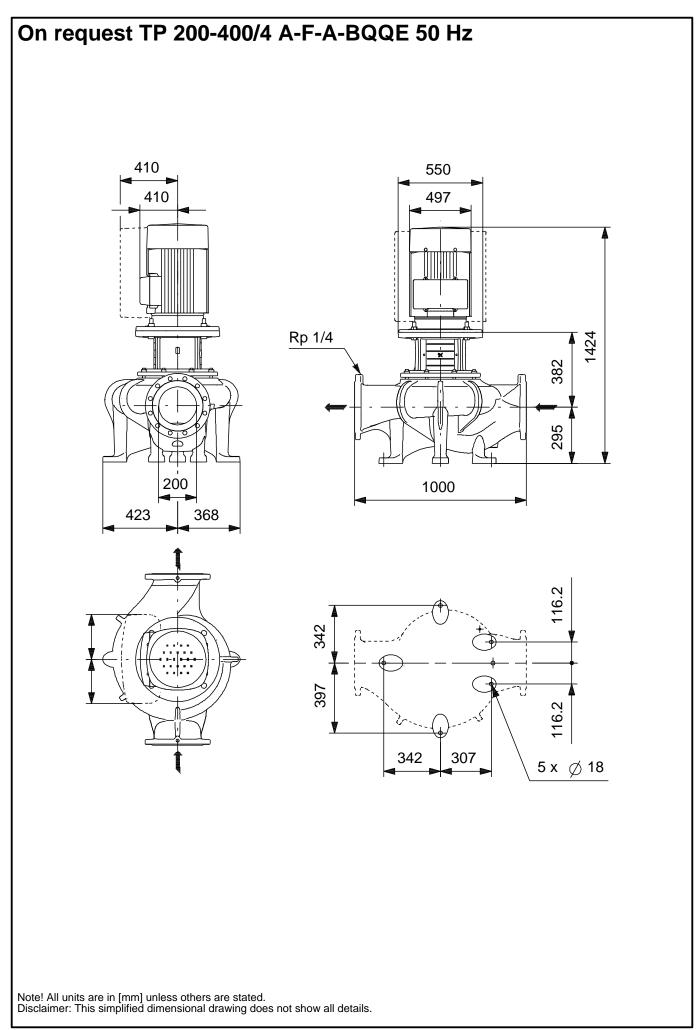


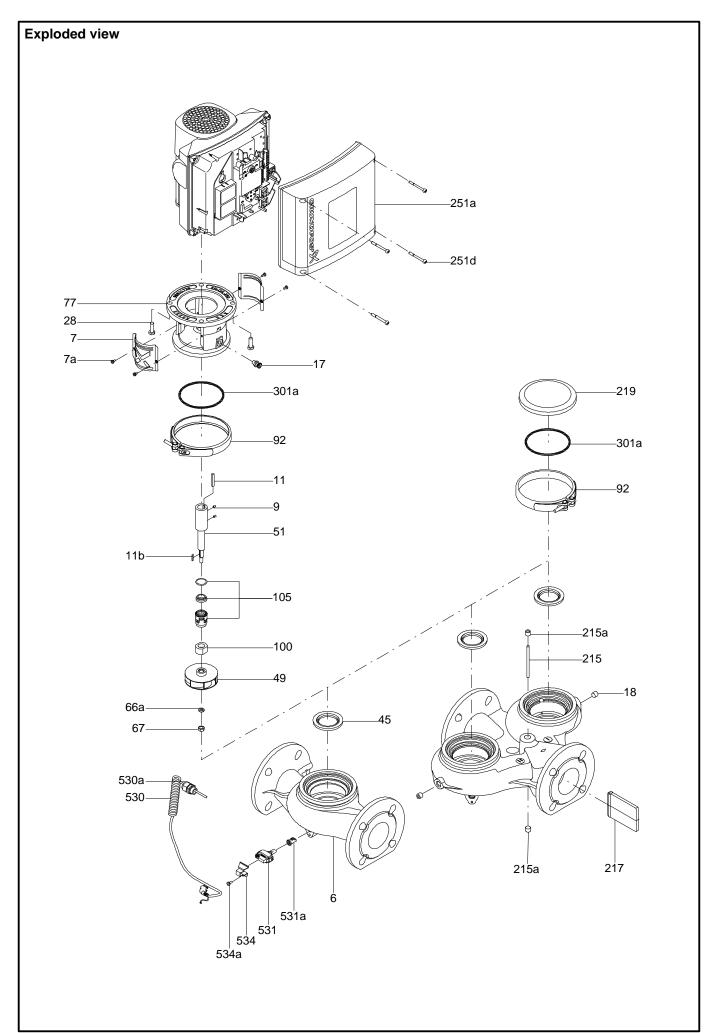
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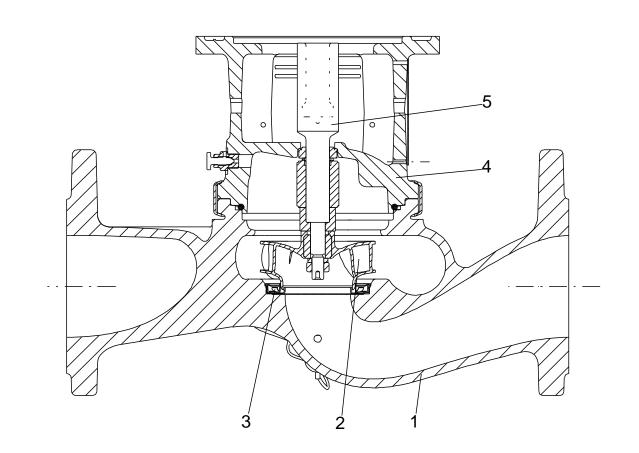
Description	Value
General information:	
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Product No:	On request
EAN number:	On request
Technical:	100 0/
Rated flow:	433 m³/h
Rated head:	35 m
Head max:	400 dm
Actual impeller diameter:	343 mm
Primary shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	Α
Materials:	Orating
Pump housing:	Cast iron
	EN-JL1040
have all an	ASTM A48-40 B
Impeller:	Cast iron
	EN-JL1030
Motorial anda:	ASTM A48-30 B
Material code:	Α
Installation:	00 55 90
Range of ambient temperature:	-20 55 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Pipe connection:	DN 200
Pump inlet:	DN 200
Pump outlet:	DN 200
Pressure rating:	PN 16
(@)	1000 mm
Flange size for motor:	FF500
Connect code:	F a
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 120 °C
Liquid temperature during operation:	20 °C
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Electrical data:	
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Number of poles:	4
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Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	99032127
Others:	
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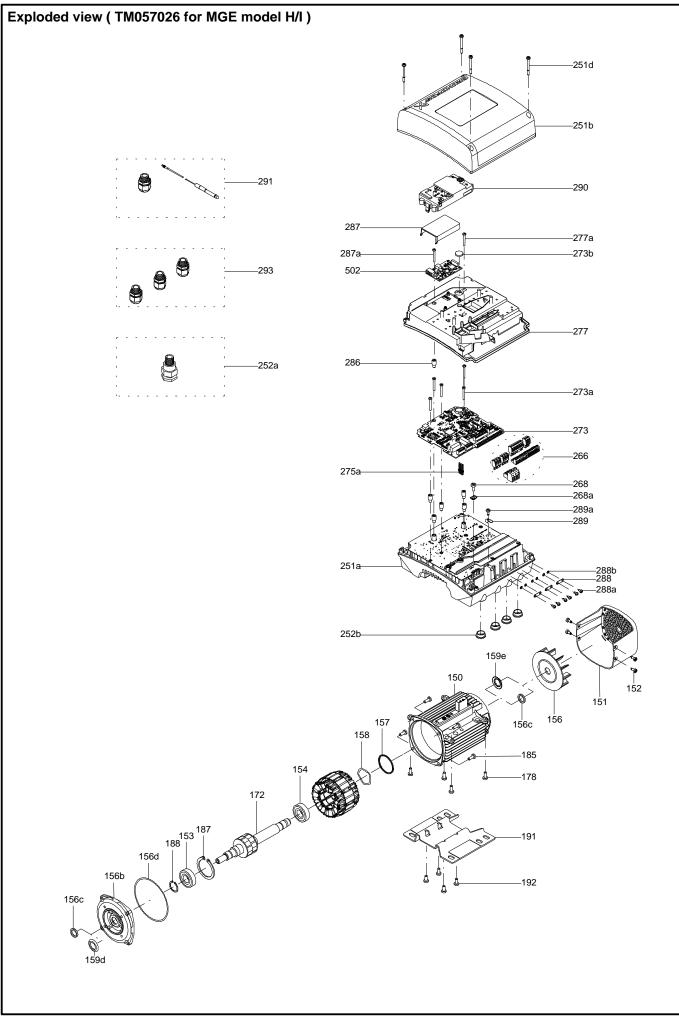








## TM058200



## Parts list TP 200-400/4, Product No. On request Valid from 19.3.2012 (1212)

	Dec	Description	A	Dennées de classifiestieur	Dálánan	Oursetité	11		
	POS	Description	Annotation	Données de classification	Reference				
+		Motor				1	pcs		
-	~~	Nut				1	pcs		
	66	Washer				1			
	66a	Spring lock washer				1			
	67	Nut		Thread: M27		1			
-		Motor stool cpl.				1	pcs		
	1a	Motor stool				1			
	7	Coupling guard				2			
	77a	Pan head screw				4			
-		Pump housing cpl.				1	pcs		
	6	Pump housing				1			
	36	Hex nut		Thread: M16		16			
-		Shaft seal cpl.				1	pcs		
	72a	O-ring		Diameter: 66		1			
		Material type: RUBBER							
		Thickness: 3,53							
	105	Shaft seal				1			
-		Shaft cpl.				1	pcs		
	10	Socket set screw		Length (mm): 10		3			
				Thread: M8					
	11	Key				2			
	51	Stub shaft				1			
	19	Plug				2	pcs		
	49	Impeller				1	pcs		
-	77	Cover				1	pcs		
	36	Hex nut		Thread: M16		14			
	77	Cover				1			

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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