

29/08/2019

Qty. | Description

1 TPE 100-330/4-S A-F-A-BQQE



Product No.: 96276052

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.

TPE 100-330/4-S A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPE 100-330/4-S A-F-A-BQQETPE 100-330/4-S A-F-A-BQQETPE 100-330/4-S A-F-A-BQQEThe shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).

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The pump is fitted with a fan-cooled asynchronous motor.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

The pump is fitted with a differential-pressure sensor.

Further product details

The pump is suitable for applications requiring pressure control. The pump is fitted with a differential-pressure transmitter registering the differential pressure across the pump and enabling constant pressure or proportional-pressure control of the pump.

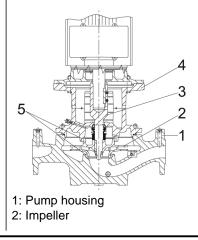
A control panel enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The control panel has indicator lights for "Operation" and "Fault".

Communication with the pump is possible by means of the Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

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.





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Qty. Description

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)
- 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. The pump 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 efficiency is classified as IE3 in accordance with IEC 60034-30-1. The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

TPE 100-330/4-S A-F-A-BQQEThe terminal box holds terminals for these connections:

- pump start/stop input (potential-free contact)
- remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA
- 10 V voltage supply for setpoint potentiometer, Imax = 5 mA
- one analog sensor input, 0-10 V, 0(4)-20 mA; the factory-fitted pressure sensor is connected to this input
- 24 V voltage supply for sensor, Imax = 40 mA
- one digital input
- two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"
- RS-485 GENIbus connection
- interface for Grundfos CIM fieldbus module.

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- 10 V voltage supply for setpoint potentiometer, Imax = 5 mA
- one analog sensor input, 0-10 V, 0(4)-20 mA; the factory-fitted pressure sensor is connected to this input
- 24 V voltage supply for sensor, Imax = 40 mA
- one digital input
- two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"
- cable for communication between the two power heads

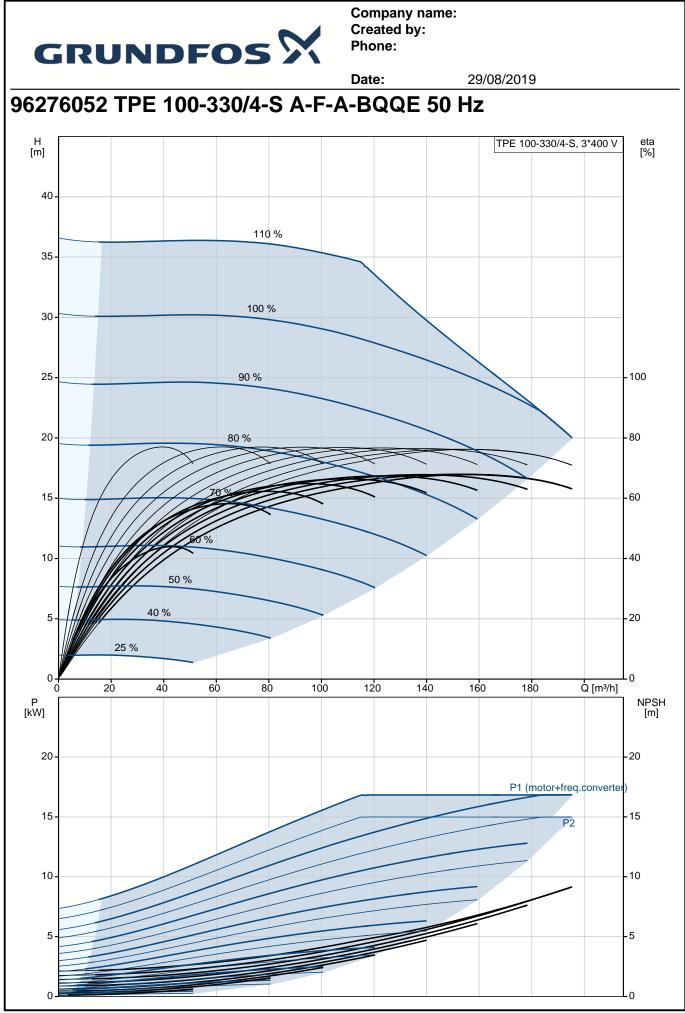


Company name: Created by:

Liquid: Water Liquid temperature range: -25120 °C Selected liquid temperature: 20 °C Density at selected liquid temperature: 998.2 kg/m³ Technical: Pumps speed on which pump data are based: Pumps speed on which pump data are based: 1460 rpm Rated flow: 151 m³/h Rated flow: 1509906:2012 3B Materials: BQQE Curve tolerance: ISO9906:2012 3B Materials: EN-JL1040 ASTM A48-40 B Inpeller: Cast iron EN-JL1030 ASTM A48-30 B STM A48-30 B Installation: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Flange standard: DIN Pieconnection: DN 100 Pressure rating: PN 16 Port-to-port length: 670 mm	
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Cos phi - power factor: 0.90-0.85	
Rated speed: 240-1750 rpm	
Efficiency: IE3 92,1%	
Motor efficiency at full load: 92.1 %	
Number of poles: 4	
Enclosure class (IEC 34-5): IP55	
Insulation class (IEC 85): F	
Motor No: 86906163	
Others:	
Minimum efficiency index, MEI : 0.69	
ErP status: EuP Standalone/Prod.	



	GRUNDI		Date:	29/08/2019	
ty.	Description				
	Net weight: Gross weight: Shipping volume: Danish VVS No.: Norwegian NRF no.:	340 kg 373 kg 1.14 m ³ 381926330 9043609			



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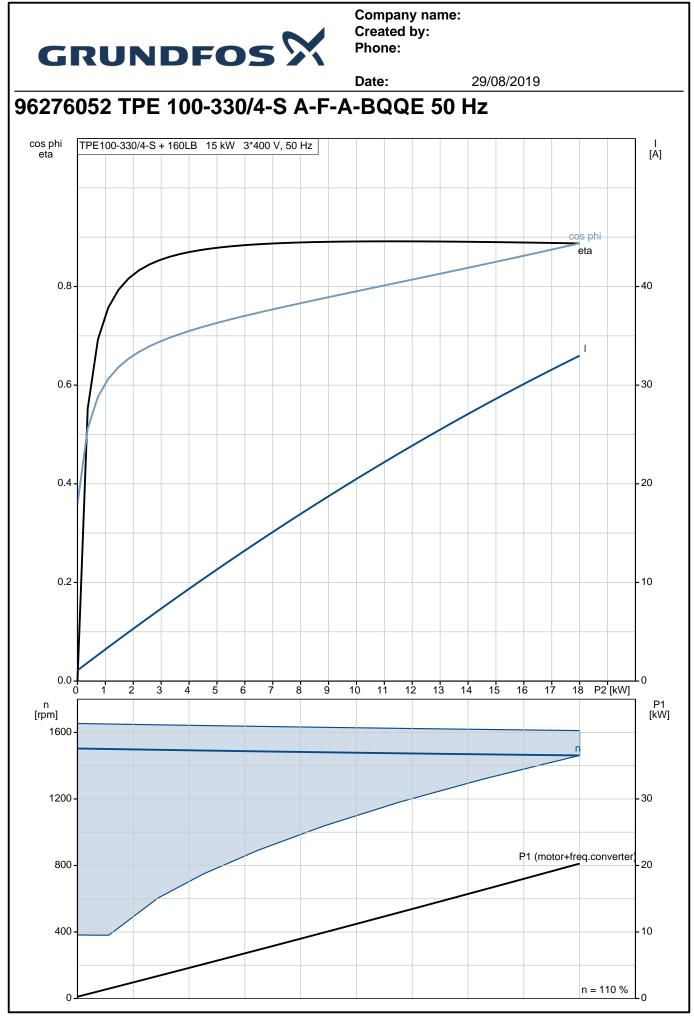


		Date:	29/08/2019	
Description	Value	H [m]	TPE 10	0-330/4-S, 3*400 ∨ eta [%]
General information:	Value	40 -		[,0]
Product name:	TPE 100-330/4-S A-F-A-BQQE	40 -	110 %	
Product No:	96276052	35 -		
EAN number:	5700830061213		100 %	
	5700830061213	30 -	100 %	
Technical:		_		
Pump speed on which pump data are	4.400	25	90 %	100
based:	1460 rpm			
Rated flow:	151 m³/h	20 -	80 %	- 80
Rated head:	25.2 m			
Head max:	330 dm	15		60
Actual impeller diameter:	299 mm			
Primary shaft seal:	BQQE	10 -		- 40
Curve tolerance:	ISO9906:2012 3B		50 %	
Pump version:	A	5 -	40 %	20
Model:	A		25 %	
Materials:		0		0
Pump housing:	Cast iron	o	50 100 1	0 Q [m³/h]
	EN-JL1040	P [kW]		NPSH [m]
	ASTM A48-40 B	20 -		- 20
Impeller:	Cast iron			P1 (motor+freq.converter)
	EN-JL1030	15 -		15
	ASTM A48-30 B			P2 13
Material code:	Α	10 -		10
Installation:				
Range of ambient temperature:	-20 40 °C	5-		-5
Maximum operating pressure:	16 bar			
Flange standard:	DIN	0		
Pipe connection:	DN 100	i		
Pressure rating:	PN 16	308 10 308		
Port-to-port length:	670 mm	308		
Flange size for motor:	FF300			
Connect code:	F			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C			
Density at selected liquid temperature:	998.2 kg/m ³	100 249	670 8	
Electrical data:			H H	
Motor type:	160LB		M16	
IE Efficiency class:	IE3		← <u></u>	
Rated power - P2:	15 kW			
Mains frequency:	50 Hz		335	
Rated voltage:	3 x 380-480 V			
Rated current:	30.0-25.4 A			
Cos phi - power factor:	0.90-0.85	입니 슈테히 ㅣ 슈테히		
Rated speed:	240-1750 rpm			
Efficiency:	IE3 92,1%			
Motor efficiency at full load:	92.1 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F		J	
Motor protec:	YES	610 V.	1: Digital input 9: GND (frame) 8: 8: 24 V	
Motor No:	86906163		7: Sensor input B: RS-485B	
Controls:			Y: Screen A: RS-485A	
Control panel:	BS	june state s	6: GND (frame)	
Function Module:	PUMP I/O		5 +10 V 4: Setpoint input 3: GND (frame) 101010 2: Start/stop	
Frequency converter:	Built-in			

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GRUNDI			
		Date:	29/08/2019
Description	Value		
Others:			
Minimum efficiency index, MEI :	0.69		
ErP status:	EuP Standalone/Prod.		
Net weight:	340 kg		
Gross weight:	373 kg		
Shipping volume:	1.14 m³		
Config. file no:	97912878		
Danish VVS No.:	381926330		
Norwegian NRF no.:	9043609		



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