

20/08/2019

Qty. | Description

1 TPE 32-230/2 A-F-A-BQQE



Product No.: 98902601

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 32-230/2 A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPE 32-230/2 A-F-A-BQQETPE 32-230/2 A-F-A-BQQETPE 32-230/2 A-F-A-BQQEThe shaft seal is according to EN 12756. Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2).

Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2).

The pump is fitted with a fan-cooled, permanent-magnet synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

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.

Further product details

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".

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is possible by means of 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

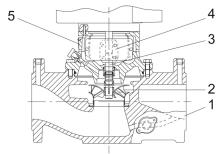
Pump housing and pump head are electrocoated to improve the corrosion resistance. Electrocoating includes:

- 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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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 efficiency is classified as IE5 in accordance with IEC 60034-30-2. 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 32-230/2 A-F-A-BQQEThe terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one configurable digital input or open-collector output
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)

		Date:	20/08/2019
Description			
GENIbus connection			
 interface for Grundfos CI 	M fieldbus module.		
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TPE 32-230/2 A-F-A-BQQEThe - one dedicated digital input		terminals for thes	se connections:
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- 5 V voltage supply to pot			
- one configurable digital ir			
 Grundfos Digital Sensor 			
- 24 V voltage supply for s			
 two signal relay outputs (rad CENII connection
 the two power heads con interface for Grundfos CI 		ess Geniair of wi	Ted GEINI connection
	in heldbus module.		
Technical data			
Controls:			
Frequency converter:	Built-in		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:			
Selected liquid temperature:		•	
Density at selected liquid tempe	rature: 998.2 kg/m	3	
Technical:			
Pump speed on which pump date		5 rpm	
Rated flow:	6.8 m³/h		
Rated head: Actual impeller diameter:	16.7 m 136 mm		
Primary shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B		
Materials: Pump housing:	Cast iron		
Fullp housing.	EN-JL1040		
	ASTM A48-40 B		
Impeller:	Stainless steel		
	DIN WNr. 1.430	l	
	AISI 304		
Installation:			
Range of ambient temperature:	-20 50 °C		
Maximum operating pressure:	10 bar		
Flange standard:	DIN		
Pipe connection:	DN 32		
Pressure rating: Flange size for motor:	PN 6/10 FT100		
Tunge size for motor.	1 1 100		
Electrical data:			
Motor type:	80A		
IE Efficiency class:	IE5		
Rated power - P2: Mains frequency:	0.75 kW 50 Hz		
Rated voltage:	3 x 380-500 V		
Rated current:	1 70-1 60 Δ		

1.70-1.60 A

360-4000 rpm

0.83-0.67

85.9%

Rated current:

Rated speed:

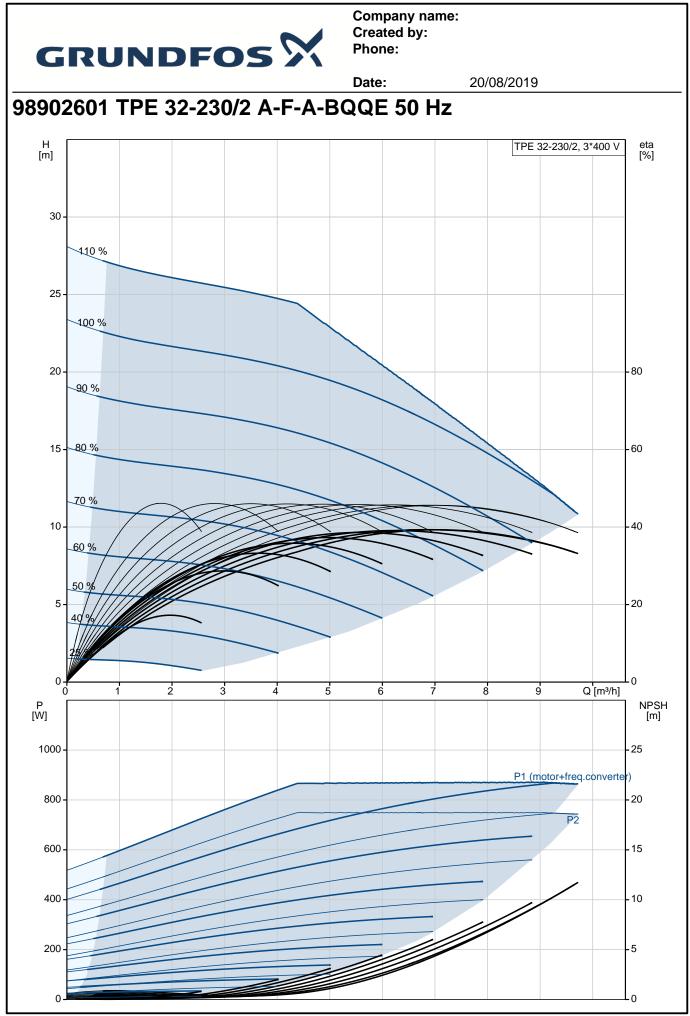
Efficiency:

Cos phi - power factor:



Company name: Created by:

	GRUNDF	osX	Phone:	-	
			Date:	20/08/2019	
Qty.	Description				
	Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No:	85.9 % IP55 F 98362240			
	Others: Minimum efficiency index, MEI ErP status: Net weight: Gross weight: Shipping volume:	≥: 0.64 EuP Standalone/F 28.3 kg 35.3 kg 159 m³	Prod.		



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GRUNDF	U5 2 1	FIIOIIE	
		Date:	20/08/2019
Description	Value	H [m]	TPE 32-230/2, 3*400 V eta [%]
General information:			
Product name:	TPE 32-230/2 A-F-A-BQQE	30 -	110 %
Product No:	98902601		
EAN number:	5712603283678 5712603283678	25 -	100 %
Technical:			- 80
Pump speed on which pump data are based:	2855 rpm	20 -	90 %
Rated flow:	6.8 m³/h	15 -	80 %
Rated head:	16.7 m		
Head max:	230 dm		70 %
Actual impeller diameter:	136 mm	10 -	- 40
Primary shaft seal:	BQQE		60 %
Curve tolerance:	ISO9906:2012 3B		50 %
Pump version:	A	5-	40 20
Model:	A		
Materials:		0-	
Pump housing:	Cast iron		0 1 2 3 4 5 6 7 8 Q [m ³ /h]
0	EN-JL1040	P [W]	NPSH [m]
	ASTM A48-40 B	1000 -	25
Impeller:	Stainless steel		P1 (motor+freq.corverter)
	DIN WNr. 1.4301	800 -	-20
	AISI 304		P2
Material code:		600 -	15
	A	400 -	10
Installation:	00 50 00	100	
Range of ambient temperature:	-20 50 °C	200 -	-5
Maximum operating pressure:	10 bar		
Flange standard:	DIN	0-	
Pipe connection:	DN 32		158
Pressure rating:	PN 6/10	158	
Flange size for motor:	FT100		
Connect code:	F		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C	4	
Selected liquid temperature:	20 °C		
Density at selected liquid temperature:	998.2 kg/m ³		
Electrical data:		32 100 10	280
Motor type:	80A		
IE Efficiency class:	IE5		M12
Rated power - P2:	0.75 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-500 V		140
Rated current:	1.70-1.60 A		
Cos phi - power factor:	0.83-0.67		
Rated speed:	360-4000 rpm	u — u —	
Efficiency:	85.9%	10 PE	
Motor efficiency at full load:	85.9 %		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	YES		
Motor No:		`	
Controls:	98362240		
Control panel:	HMI200 - Standard		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:		-21.7	
Minimum efficiency index, MEI ≥:	0.64		

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		Date:	20/08/2019
Description	Value		
ErP status:	EuP Standalone/Prod.	_	
Net weight:	28.3 kg		
Gross weight:	35.3 kg		
Shipping volume:	159 m³		
Config. file no:	98478677		

