

29/08/2019

Qty. | Description

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



Product No.: 99133750

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-S A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPE 32-230/2-S A-F-A-BQQETPE 32-230/2-S A-F-A-BQQETPE 32-230/2-S 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.

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".

The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.

The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".

Communication with the pump is also 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".

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).

## Pump

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

Electrocoating includes:

1) Alkaline-based cleaning.



Company name: Created by:

	Description		29/08/2019	
-	2) Pretreatment with zinc phosphate coating.			
	3) Cathodic electrocoating (epoxy).			
	4) Curing of paint film at 200-250 °C.			
	., eg et p			
	3			
	1: Pump housing			
	2: Impeller			
	3: Shaft			
	4: Coupling			
	5: Pump head			
•	The pump housing is provided with a replaceable stainl	es steel/PTF	FE neck ring to reduce the amount of liquid	id
	running from the discharge side of the impeller to the su	uction side.	The impeller is secured with a split cone w	vith
	nut.			
	The summeric fitter design of the second states of	a a l a 1911 - 1		
	The pump is fitted with an unbalanced rubber bellows s the bellows. Due to the bellows, the seal does not wear	eal with torc	que transmission across the spring and are	ou
,	deposits on the shaft.	the shalt, a	and the axial movement is not prevented b	y
	Primary seal:			
	Rotating seal ring material: silicon carbide (SiC)			
	Stationary seat material: silicon carbide (SiC)			
	This material pairing is used where higher corrosion res	sistance is re	equired. The high hardness of this materia	al
	pairing offers good resistance against abrasive particles			
	Secondary seal material: EPDM (ethylene-propylene ru			
	EPDM has excellent resistance to hot water. EPDM is r	not suitable f	for mineral oils.	
	A circulation of liquid through the duct of the air vent sc		s lubrication and cooling of the shaft seal.	
	The flanges have tappings for mounting of pressure ga	uges.		
	The motor steel forms connection between the number	oucing and t	the motor, and is equipped with a manual	~ ir
,	The motor stool forms connection between the pump ho vent screw for venting of the pump housing and the sha	ousing and t	mber. The sealing between motor stool and	aii d
	pump housing is an O-ring.			
	The central part of the motor stool is provided with guar	ds for prote	ection against the shaft and coupling. Moto	or a
	pump shaft are connected via a shell coupling.			
	Motor			
	The motor is a totally enclosed, fan-cooled motor with p	principal dim	nensions to IEC and DIN standards. Electri	ica
1	tolerances comply with IEC 60034.			
	The motor is flower mounted with target dials (base of			
	The motor is flange-mounted with tapped-hole flange (F		2 14 IM \/ 18 (Code  ) / IM 2604 IM 2014 /	( <b>^</b> .
	Motor-mounting designation in accordance with IEC 60 II).	034-7: IN B	5 14, IVI V TO (COUE I) / IVI 3601, IVI 3611 (	
	The motor efficiency is classified as IE5 in accordance	with IEC 600	034-30-2	
•	The motor requires no external motor protection. The m			- a
				-
•	quick-rising temperatures, e.g. constant overload and s	talled condit	IUOIIS.	
	quick-rising temperatures, e.g. constant overload and s	talled condit	lilons.	

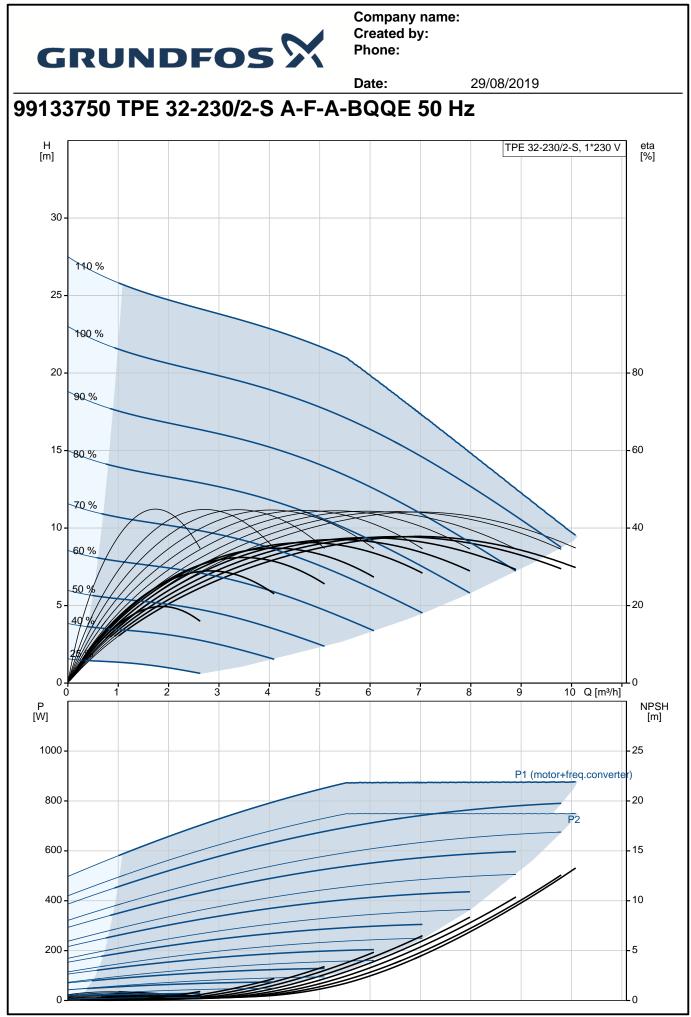


	<b>Date:</b> 29/08/2019
Description	
<ul> <li>two analog inputs, 0(4)-20 one of these inputs</li> <li>5 V voltage supply to pote</li> <li>one configurable digital inp</li> <li>Grundfos Digital Sensor in</li> <li>24 V voltage supply for set</li> <li>two signal relay outputs (p</li> <li>GENIbus connection</li> <li>interface for Grundfos CIN</li> </ul>	t or open-collector output it and output ors ential-free contacts)
<ul> <li>one dedicated digital input</li> </ul>	erminal box holds terminals for these connections: A, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to
<ul> <li>one of these inputs</li> <li>5 V voltage supply to pote</li> <li>one configurable digital inp</li> <li>Grundfos Digital Sensor in</li> <li>24 V voltage supply for set</li> <li>two signal relay outputs (p</li> </ul>	ometer and sensor t or open-collector output it and output ors
	inicate via wireless GENIair or wired GENI connection
Technical data	
Controls: Frequency converter:	uilt-in
Liquid temperature range:	ater 5 120 °C ) °C ure: 998.2 kg/m³
<b>Technical:</b> Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Primary shaft seal:	re based: 2855 rpm 8 m³/h 6.7 m 66 mm QQE
	O9906:2012 3B
i infriedenig.	ast iron N-JL1040 STM A48-40 B
Impeller:	ainless steel N WNr. 1.4301 SI 304
Installation:	
Range of ambient temperature: Maximum operating pressure: Flange standard: Pipe connection: Pressure rating: Port-to-port length:	0 50 °C 9 bar N N 32 N 6/10 90 mm ~100

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			Date:	29/08/2019	
_	Description				
	Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85):	80A IE5 0.75 kW 50 Hz 1 x 200-240 V 4.70-3.90 A 0.99 360-4000 rpm 85.2% 85.2 % IP55 F			
	Motor No:	98362272			
	Others: Minimum efficiency index, MEI ErP status: Net weight: Gross weight: Shipping volume:	: 0.64 EuP Standalone/Prod. 27.5 kg 34.5 kg 0.039 m <sup>3</sup>			



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		Date:	29/08/2019		
Description	Value	H [m]		TPE 32-230/2-S, 1*230 V	eta [%]
General information:					
Product name:	TPE 32-230/2-S A-F-A-BQQE	30 -			
Product No:	99133750	110 %	%		
EAN number:	5712607369774	25 -			-
	5712607369774	100 9	%		
Price:	2.790,00 GBP	20 -			- 80
Technical:		90 %			T <sup>eo</sup>
Pump speed on which pump data are	20 <i>EE</i> mm	_	$\overline{}$		
based:	2855 rpm	15 - 80 %			- 60
Rated flow:	6.8 m³/h		$\sim$		
Rated head:	16.7 m	70 %			
Head max:	230 dm	10 -			- 40
Actual impeller diameter:	136 mm	60 %			
Primary shaft seal:	BQQE	50%			
Curve tolerance:	ISO9906:2012 3B	5-40			- 20
Pump version:	Α				
Model:	Α	0			$\Box_0$
Materials:		Ó	2 4 6	8 Q [m³/h]	ů.
Pump housing:	Cast iron	P [W]			NPSH [m]
	EN-JL1040	1000 -			- 25
	ASTM A48-40 B			P1 (motor+freq.co	
Impeller:	Stainless steel	800 -			20
···· • • • • • • • • • • • • • • • • •	DIN WNr. 1.4301	600 -		P2	- 15
	AISI 304	000-			[ '3
Material code:	A	400 -			- 10
Installation:					
Range of ambient temperature:	-20 50 °C	200 -			-5
Maximum operating pressure:	10 bar	0			
Flange standard:	DIN				-0
Pipe connection:	DN 32	158158			
Pressure rating:	PN 6/10	158	• 106 • 106 •		
Port-to-port length:	280 mm				
Flange size for motor:	FT100				
Connect code:	F				
Liquid:	•			RP 1/4	
Pumped liquid:	Water				
Liquid temperature range:	-25 120 °C				
Selected liquid temperature:	20 °C	32	280		
Density at selected liquid temperature:	998.2 kg/m <sup>3</sup>		L		
Electrical data:	000.2 Ng/III			<u> </u>	
Motor type:	80A		/+	- 8	
IE Efficiency class:	IE5		M12 140		
Rated power - P2:	0.75 kW		I=	4	
Mains frequency:	50 Hz				
Rated voltage:	1 x 200-240 V				
Rated current:	4.70-3.90 A	~			
Cos phi - power factor:	4.70-3.90 A 0.99				
Rated speed:	360-4000 rpm		Ø.⊕ ⊯		
Efficiency:	85.2%				
Enciency: Motor efficiency at full load:	85.2% 85.2 %	~			
		-00.7.00-	11 DikOC2 93 Priormado		
Enclosure class (IEC 34-5):	IP55	****************			
Insulation class (IEC 85):	F				
Motor protec:	YES				
Motor No:	98362272				
Controls:			A GENBULA YY GENBULY B GENBULS B		
Control panel:	HMI300 - Graphical		3. GND 35. +36 V 9. +36 V		
Function Module:	FM300 - Advanced				
Frequency converter:	Built-in				

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Date: 29/08/2019 Description Value Others: Minimum efficiency index, MEI : 0.64 EuP Standalone/Prod. ErP status: Net weight: 27.5 kg Gross weight: 34.5 kg Shipping volume: 0.039 m<sup>3</sup> Config. file no: 99145773

