

Company name: Created by: Phone:

Date:

20/08/2019

Qty. | Description

1

TPE 32-320/2 A-F-A-BQQE



Note! Product picture may differ from actual product

Product No.: 98112558

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 32-320/2 A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPE 32-320/2 A-F-A-BQQETPE 32-320/2 A-F-A-BQQETPE 32-320/2 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).

Pipework connection is via PN 16 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".

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.

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.



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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.					
f this material					
e shaft seal.					
ith a manual air otor stool and					
oupling. The pump					
dards. Electrical					
, IM 3011 (Code					
against slow- and					

TPE 32-320/2 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 •



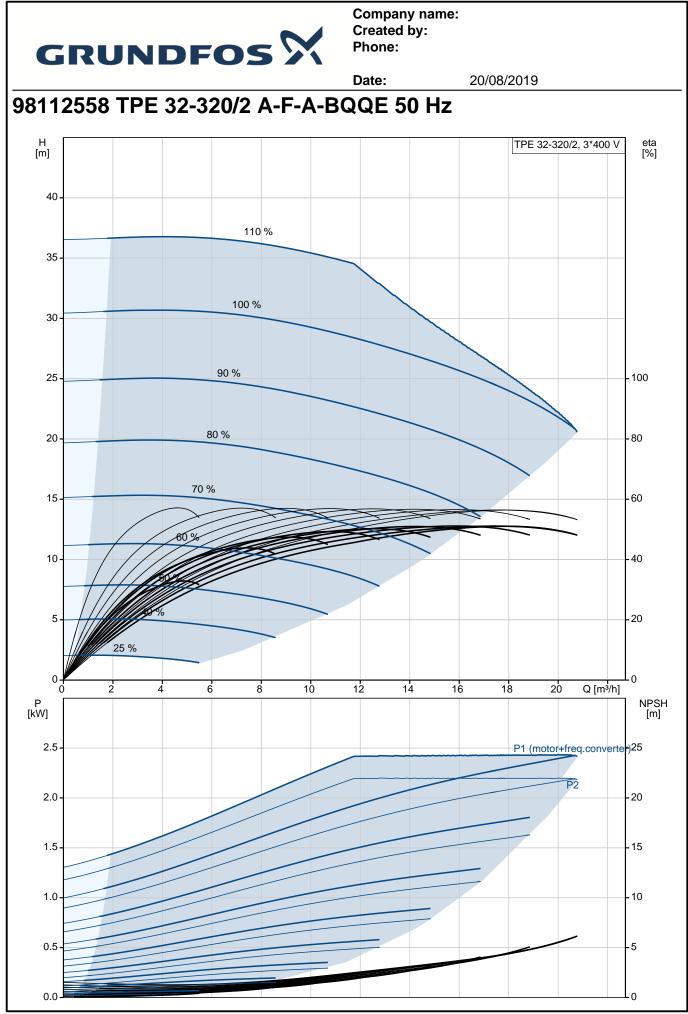
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	GRUNDFO	os X	Created by: Phone:			
			Date:	20/08/2019		
Qty.	Description					
	 5 V voltage supply to pote one configurable digital ir Grundfos Digital Sensor i 24 V voltage supply for set two signal-relay outputs (GENIbus connection interface for Grundfos CI 	nput or open-collect nput and output ensors potential-free conta M fieldbus module.	or output ucts)			
	 TPE 32-320/2 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) the two power heads communicate via wireless GENIair or wired GENI connection interface for Grundfos CIM fieldbus module. 					
	Technical data					
	Controls: Frequency converter:	Built-in				
	Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid tempe	Water -25 120 °C 20 °C rature: 998.2 kg/m	13			
	Technical: Pump speed on which pump dat Rated flow: Rated head: Actual impeller diameter: Primary shaft seal: Curve tolerance:	a are based: 2900 17.6 m³/h 24 m 155 mm BQQE ISO9906:2012 3B				
	Materials: Pump housing:	Cast iron EN-JL1040				
	Impeller:	ASTM A48-40 B Cast iron EN-JL1030 ASTM A48-30 B				
	Installation: Range of ambient temperature: Maximum operating pressure: Flange standard: Pipe connection: Pressure rating: Port-to-port length: Flange size for motor:	-20 50 °C 16 bar DIN DN 32 PN 16 340 mm FF165				
	Electrical data: Motor type: IE Efficiency class: Rated power - P2:	90LD IE5 2.2 kW				



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 GRUNDF		Date:	20/08/2019	
Description				
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-500 V			
Rated current:	4.15-3.40 A			
Cos phi - power factor:	0.93-0.87			
Rated speed:	360-4000 rpm			
Efficiency:	90.1%			
Motor efficiency at full load:	90.1 %			
Enclosure class (IEC 34-5): Insulation class (IEC 85):	IP55 F			
Motor No:	98534624			
	00001021			
Others: Minimum efficiency index, MEI	ô%.¥• 0.70			
ErP status:	EuP Standalone/Prod	4		
Net weight:	46 kg	J.		
Gross weight:	60 kg			
Shipping volume:	0.134 m ³			
Danish VVS No.:	382011320			



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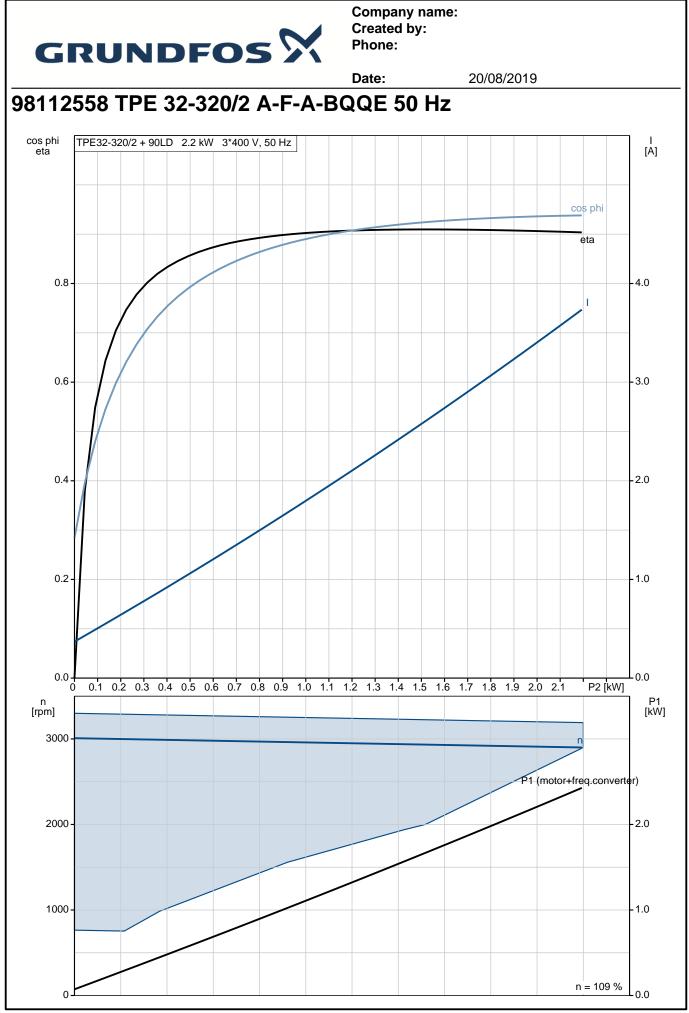
		Date:	20/08/20	218	
Description	Value	H [m]		TPE 32-320/2, 3*400 V	eta [%]
General information:		40 -			
Product name:	TPE 32-320/2	40-			1
	A-F-A-BQQE		110 %		
Product No:	98112558	35 -			1
EAN number:	5710629214386		100 %		
	5710629214386	30 -			
Technical:					
Pump speed on which pump data are based:	2900 rpm	25 -	90 %		- 100
Rated flow:	17.6 m³/h	_	80 %		
Rated head:	24 m	20 -	00 /8		- 80
Head max:	320 dm	_	70.0/		
Actual impeller diameter:	155 mm	15 -	70 %		- 60
Primary shaft seal:	BQQE	_			
Curve tolerance:	ISO9906:2012 3B	10-7			- 40
Pump version:	A				
Model:	A				
Materials:		5-			- 20
Pump housing:	Cast iron		25 %		
r amp nousing.	EN-JL1040	0 //	5 10	15 Q [m³/h]	Lo
	ASTM A48-40 B	P	5 10	15 Q [m³/h]	NPSH
Impellor	Cast iron	[kW]			[m]
Impeller:		2.5 -		P1 (motor+freq.con	₩ 25 er)
	EN-JL1030			P2	
	ASTM A48-30 B	2.0 -			- 20
Material code:	A	1.5			- 15
Installation:		1.0			[13
Range of ambient temperature:	-20 50 °C	1.0			- 10
Maximum operating pressure:	16 bar				-
Flange standard:	DIN	0.5			-5
Pipe connection:	DN 32				
Pressure rating:	PN 16	0.0			L ₀
Port-to-port length:	340 mm	158	158		
Flange size for motor:	FF165	158			
Connect code:	F		2	134 134	
Liquid:					
Pumped liquid:	Water				1
Liquid temperature range:	-25 120 °C		TÎÎT Î		
Selected liquid temperature:	20 °C				
Density at selected liquid temperature:	998.2 kg/m ³				
Electrical data:					
Motor type:	90LD	╶╴╶┎╼		<u> </u>	œ
IE Efficiency class:	IE5				528
Rated power - P2:	2.2 kW		Rp 1/4		_1
Mains frequency:	50 Hz				154
Rated voltage:	3 x 380-500 V				↓
Rated current:	4.15-3.40 A		₩ ₩		100
Cos phi - power factor:	0.93-0.87				
Rated speed:	360-4000 rpm	32	-		•
Efficiency:	90.1%	125	117	340	
Motor efficiency at full load:	90.1 %		• •	>	
Enclosure class (IEC 34-5):	IP55				
Insulation class (IEC 85):	F				
	F YES		Ν	M16	
Motor protec:					
Motor No:	98534624		•	· / \\	
Controls:			, +==	<u>·</u>	- 4
Control panel:	HMI200 - Standard		i li		
Function Module:	FM300 - Advanced		••	`. <u> </u>	
Frequency converter:	Built-in			170	
Others:				→	

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		Date:	20/08/2019
Description	Value		
Minimum efficiency index, MEI ≥:	0.70	_	
ErP status:	EuP Standalone/Prod.		
Net weight:	46 kg		
Gross weight:	60 kg		
Shipping volume:	0.134 m ³		
Config. file no:	98478729		
Danish VVS No.:	382011320		



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