

22/08/2019

Qty. | Description

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## TPED 32-320/2 A-F-A-BQQE



Note! Product picture may differ from actual product

Product No.: 98112551

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.

TPED 32-320/2 A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPED 32-320/2 A-F-A-BQQETPED 32-320/2 A-F-A-BQQETPED 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.



Company name: Created by:

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		Date:	22/08/2019			
D	escription					
	Cathodic electrocoating (epoxy). Curing of paint film at 200-250 °C.					
5						
	Pump housing					
	Impeller Stub shaft					
4:	Pump head/motor stool					
5:	Wear rings					
Tł ou	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.					
th	ne pump is fitted with an unbalanced rubber bellows e bellows. Due to the bellows, the seal does not wea eposits on the shaft.	seal with torqu ar the shaft, ar	ue transmission across the spring and around the axial movement is not prevented by			
Pr	imary seal:	٨				
	<ul> <li>Rotating seal ring material: silicon carbide (SiC)</li> <li>Stationary seat material: silicon carbide (SiC)</li> </ul>					
	nis material pairing is used where higher corrosion re airing offers good resistance against abrasive particle		quired. The high hardness of this material			
Se	econdary seal material: EPDM (ethylene-propylene	ubber)				
E	PDM has excellent resistance to hot water. EPDM is	not suitable fo	or mineral oils.			
	circulation of liquid through the duct of the air vent s ne flanges have tappings for mounting of pressure g		lubrication and cooling of the shaft seal.			
Ve	ne motor stool forms connection between the pump ant screw for venting of the pump housing and the sh ump housing is an O-ring.	housing and th haft seal cham	ne motor, and is equipped with a manual air ber. The sealing between motor stool and			
Tł sł	ne central part of the motor stool is provided with gua naft is fastened directly on the motor shaft with key a	ards for protec nd set screws	tion against the shaft and coupling. The pum			
м	lotor					
	ne motor is a totally enclosed, fan-cooled motor with lerances comply with IEC 60034.	principal dime	ensions to IEC and DIN standards. Electrical			
	ne motor is flange-mounted with free-hole flange (FF otor-mounting designation in accordance with IEC 6	,	5, IM V 1 (Code I) / IM 3001, IM 3011 (Code			
Tł	ne motor efficiency is classified as IE5 in accordance ne motor requires no external motor protection. The uick-rising temperatures, e.g. constant overload and	motor control	unit incorporates protection against slow- and			

TPED 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

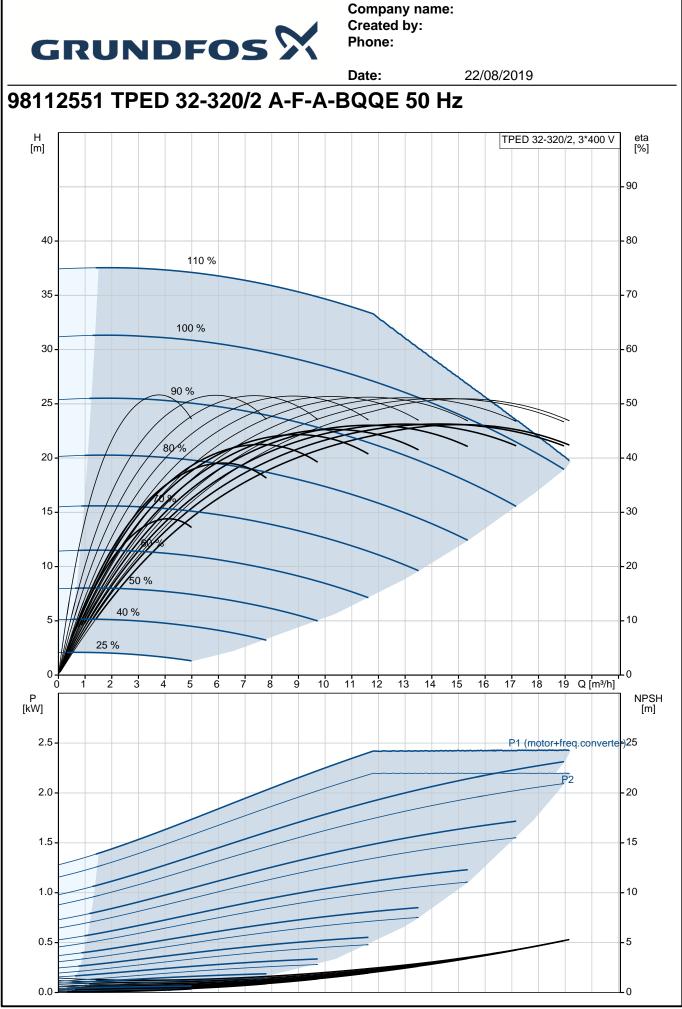


Company name: Created by:

GRUNDFO	<b>DS</b> X	Created by Phone:	
		Date:	22/08/2019
Description			
<ul> <li>5 V voltage supply to pote</li> <li>one configurable digital ir</li> <li>Grundfos Digital Sensor i</li> <li>24 V voltage supply for set</li> <li>two signal-relay outputs (</li> <li>GENIbus connection</li> <li>interface for Grundfos CII</li> </ul>	put or open-collecton nput and output ensors potential-free conta	or output	
<ul> <li>TPED 32-320/2 A-F-A-BQQETh</li> <li>one dedicated digital input</li> <li>two analog inputs, 0(4)-2i</li> <li>5 V voltage supply to pote</li> <li>one configurable digital in</li> <li>Grundfos Digital Sensor i</li> <li>24 V voltage supply for set</li> <li>two signal relay outputs (</li> <li>the two power heads com</li> <li>interface for Grundfos CII</li> </ul>	It D mA, 0-5 V, 0-10 V entiometer and sens uput or open-collecton nput and output ensors potential-free contacton municate via wirele	r, 0.5 - 3.5 V sor or output cts)	
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	3	
Technical:	Ũ		
Pump speed on which pump dat Rated flow: Rated head: Actual impeller diameter: Primary shaft seal: Curve tolerance:	a are based: 2900 17 m <sup>3</sup> /h 21.8 m 155 mm BQQE ISO9906:2012 3B	) rpm	
Materials:			
Pump housing: Impeller:	Cast iron EN-JL1040 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		



		Date:	22/08/2019	
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):	IP55			
Insulation class (IEC 85):	F			
Motor No:	98534624			
Others:				
Minimum efficiency index, ME				
ErP status:	EuP Standalone/Proc	d.		
Net weight:	93 kg			
Gross weight:	107 kg			
Shipping volume:	0.383 m³			



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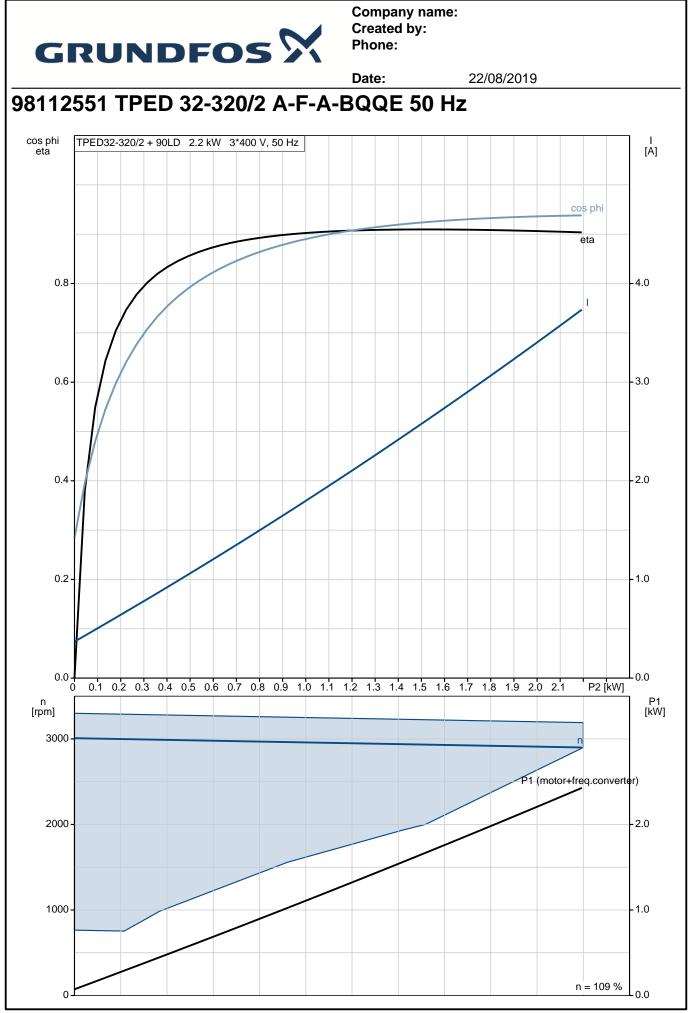


		Date:	22/00	3/2019		
Description	Value	H [m]		TPED 32-320	/2, 3*400 V	eta [%]
General information:						- 90
Product name:	TPED 32-320/2 A-F-A-BQQE	40 -				- 80
Product No:	98112551		110 %			
EAN number:	5710629214317	35 -				- 70
	5710629214317	_	100 %			
Price:	6.417,00 GBP	30 -				- 60
Technical:	0.417,00 001	_	00.01			
Pump speed on which pump data are		25 -	90 %	t also		- 50
based:	2900 rpm					
Rated flow:	17 m³/h	20			14	- 40
Rated head:	21.8 m	/		$\sim$		
Head max:	320 dm	15-77				- 30
	155 mm	//				
Actual impeller diameter:		10-	150 %			- 20
Primary shaft seal:	BQQE					
Curve tolerance:	ISO9906:2012 3B	5_	40 %			- 10
Pump version:	A	2	5 %			
Model:	Α	0				Lo
Materials:		P [	2 4 6 8	10 12 14 16	Q [m³/h]	
Pump housing:	Cast iron	[kW]				[m]
	EN-JL1040	2.5 -		P1 (mo	otor+freq.cor	v <b>e</b> ger)
	ASTM A48-40 B					00
Impeller:	Cast iron	2.0 -				- 20
	EN-JL1030	1.5 -				- 15
	ASTM A48-30 B	- 1.0				10
Material code:	A	1.0				- 10
Installation:	<i>/</i>					
Range of ambient temperature:	-20 50 °C	0.5 -				- 5
	16 bar	0.0				Lo
Maximum operating pressure:	DIN	0.0				<b>L</b> 0
Flange standard:		- 345	345			
Pipe connection:	DN 32		—• ! .			
Pressure rating:	PN 16					
Port-to-port length:	340 mm					
Flange size for motor:	FF165					
Connect code:	F			∎E ≇		
Liquid:						
Pumped liquid:	Water					
Liquid temperature range:	-25 120 °C	260	257 _ 340	└── <b>→</b> │ │ ~~		
Selected liquid temperature:	20 °C	+	m10			
Density at selected liquid temperature:	998.2 kg/m <sup>3</sup>			<u> </u>		
Electrical data:						
Motor type:	90LD		158			
IE Efficiency class:	IE5	<u></u>	M16			
Rated power - P2:	2.2 kW		175	5 45		
Mains frequency:	50 Hz					
Rated voltage:	3 x 380-500 V					
Rated current:	4.15-3.40 A		═᠇ᡛᢇ᠊᠋			
Cos phi - power factor:	0.93-0.87		Ø.			
Rated speed:	360-4000 rpm					
Efficiency:	90.1%					
Motor efficiency at full load:	90.1 %					
Enclosure class (IEC 34-5):	IP55					
nsulation class (IEC 85):	F					
Motor protec:	YES	-8110				
Motor No:	98534624	- <u>317</u> <b>9</b> - <u>317</u> <b>1</b> - <u>317</u> - <u>317</u> <b>1</b> - <u>317</u> - <u>317</u> <b>1</b> - <u>317</u>				
Controls:			A GENBAR A V GENBAR A V GENBAR V			
Control panel:	HMI200 - Standard		1 Galaxies at 1			
Function Module:	FM300 - Advanced					
Frequency converter:	Built-in	***********************				

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	Date:	22/08/2019
Value		
0.70		
EuP Standalone/Prod.		
93 kg		
107 kg		
0.383 m <sup>3</sup>		
98478729		
	0.70 EuP Standalone/Prod. 93 kg 107 kg 0.383 m <sup>3</sup>	Value 0.70 EuP Standalone/Prod. 93 kg 107 kg 0.383 m <sup>3</sup>



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