



Product No.: 99114622

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.

22/08/2019

TPED 100-200/2 A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPED 100-200/2 A-F-A-BQQETPED 100-200/2 A-F-A-BQQETPED 100-200/2 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".

Pump

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

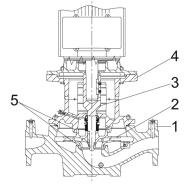
- 1) Alkaline-based cleaning.
- 2) Pretreatment with zinc phosphate coating.
- 3) Cathodic electrocoating (epoxy).
- 4) Curing of paint film at 200-250 °C.



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- 1: Pump housing
- 2: Impeller
- 3: 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 I).

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.

TPED 100-200/2 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



Company name:

	GRUNDFO	os X	Company n Created by: Phone:		
			Date:	22/08/2019	
Qty.	Description				
	 24 V voltage supply for set two signal-relay outputs (GENIbus connection interface for Grundfos CII 	potential-free contac	cts)		
	 TPED 100-200/2 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 connect 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 ³	1		
	Technical: Pump speed on which pump dat Rated flow: Rated head: Actual impeller diameter: Primary shaft seal: Curve tolerance:	a are based: 2920 75.7 m³/h 17.1 m 127 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 100 PN 16 500 mm FF265			
	Electrical data: Motor type: IE Efficiency class: Rated power - P2:	132SE IE5 5.5 kW			

5.5 kW

50 Hz

3 x 380-500 V

10.3-8.20 A

Rated power - P2:

Mains frequency:

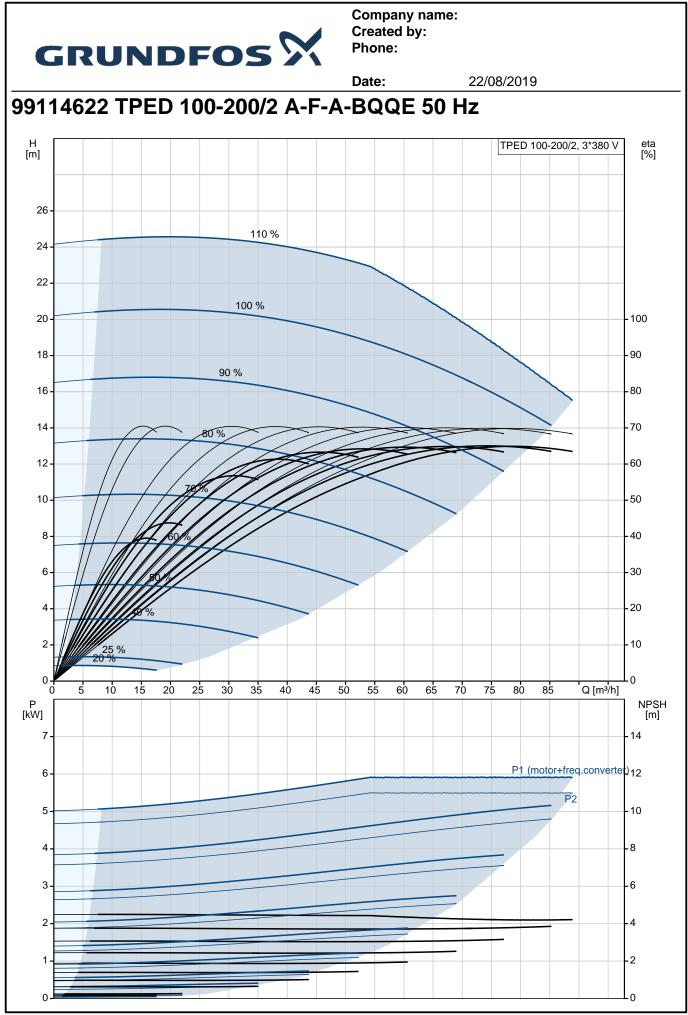
Rated voltage:

Rated current:



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			Date:	22/08/2019	
Qty.	Description				
	Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No:	0.92-0.88 360-4000 rpm 92.7% 92.7 % IP55 F 98971079			
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	Date:	22/08/	/2019	
Value	H [m]		TPED 100-200/2, 3*380	V eta [%]
TPED 100-200/2 A-F-A-BQQE	26-	110 %		
	22 -	100 %		
	20 -	100 %		- 100
5712007032715	18			- 90
		90 %		
2920 rpm				- 80
75.7 m³/h		· 00 10-		
17.1 m	12-	1700		- 60
200 dm	10			- 50
127 mm	8- // /			40
BQQE				
ISO9906:2012 3B	6-			- 30
	4 -	6%		- 20
		1		10
	20%			
Cast iron	0 10	20 30 40	50 60 70 80 Q [m ³ /	0 /h]
				NPSH
				[m]
	6-		P1 (motor+freq.	converter)
	5-		, ,	- 10
	4			- 8
Α	3-			- 6
	2			4
16 bar	1-			- 2
DIN	0			0
DN 100				
PN 16	481 481			
500 mm				
FF265	i Grada di Grada		Ī	
F				
			120	
Water			54	
-25 120 °C			6	
20 °C	347 332	500	0	
		<u>M16</u>		
		145.5 * † *		
132SE		J	-89	
	t	M16		
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		-F		
		Ø€ ∞		
	Ö [11 DieloC2 14 Pr10/100 17 Pr00/100		
F				
YES				
98971079				
HMI200 - Standard		A GENILUA A V GENILUA V B GENILUA B		
		3 640		
FM300 - Advanced		15 +24 V 8 _44 V		
FM300 - Advanced Built-in				
	TPED 100-200/2 A-F-A-BQQE 99114622 5712607032715 5712607032715 2920 rpm 75.7 m³/h 17.1 m 200 dm 127 mm BQQE ISO9906:2012 3B A A Cast iron EN-JL1040 ASTM A48-40 B Cast iron EN-JL1030 ASTM A48-30 B A -20 50 °C 16 bar DIN DN 100 PN 16 500 mm FF265 F Water -25 120 °C 20 °C 998.2 kg/m³ 132SE IE5 5.5 kW 50 Hz 3 x 380-500 V 10.3-8.20 A 0.92-0.88 360-4000 rpm 92.7 % 92.7 % 92.7 % 98971079	Value H TPED 100-200/2 A-F-A-BQQE 99114622 5712607032715 5712607032715 2920 rpm 75.7 m³/h 17.1 m 200 dm 127 mm BQQE ISO9906:2012 3B A A Cast iron EN-JL1040 ASTM A48-40 B Cast iron EN-JL1030 ASTM A48-30 B A -2050 °C 16 bar DIN DN 100 PN 16 500 mm FF265 F Water -25 120 °C 20 °C 998.2 kg/m³ 132SE IE5 5.5 kW 50 Hz 3 x 380-500 V 10.3-8.20 A 0.92-0.88 360-4000 rpm 92.7% 92.7% 92.7% 92.7% 92.7% 98971	Value Image: constraint of the second se	Value Image: constraint of the second se

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		Date:	22/08/2019
Description	Value		
Minimum efficiency index, MEI ≥:	0.58	_	
ErP status:	EuP Standalone/Prod.		
Net weight:	216 kg		
Gross weight:	247 kg		
Shipping volume:	1.14 m ³		
Config. file no:	99100551		

