

22/08/2019

Qty. | Description

1

TPED 100-120/2 AI-F-A-BQQE



Note! Product picture may differ from actual product

Product No.: 98958243

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 100-120/2 AI-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPED 100-120/2 AI-F-A-BQQETPED 100-12

Pipework connection is via PN 6 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.



D0	te:	22/08/2019
Description		
3) Cathodic electrocoating (epoxy).4) Curing of paint film at 200-250 °C.		
,		
1: Pump housing		
2: Impeller		
3: Shaft		
4: Coupling 5: Pump head		
5. Tump nead		
The pump housing is provided with a replaceable stainles running from the discharge side of the impeller to the suction ut.	steel/PTF on side. T	E neck ring to reduce the amount of liquid he impeller is secured with a split cone with
The pump is fitted with an unbalanced rubber bellows seal the bellows. Due to the bellows, the seal does not wear the deposits on the shaft.	with torque shaft, ar	ue transmission across the spring and aroun ad the axial movement is not prevented by
Primary seal: • Rotating seal ring material: silicon carbide (SiC)		
• Stationary seat material: silicon carbide (SiC) This material pairing is used where higher corrosion resists pairing offers good resistance against abrasive particles.	ance is re	quired. The high hardness of this material
Secondary seal material: EPDM (ethylene-propylene rubbe EPDM has excellent resistance to hot water. EPDM is not		or mineral oils.
A circulation of liquid through the duct of the air vent screw The flanges have tappings for mounting of pressure gauge		lubrication and cooling of the shaft seal.
The motor stool forms connection between the pump hous vent screw for venting of the pump housing and the shaft s pump housing is an O-ring.	ing and th eal cham	ne motor, and is equipped with a manual air ber. The sealing between motor stool and
The central part of the motor stool is provided with guards pump shaft are connected via a shell coupling.	for protec	tion against the shaft and coupling. Motor a
Motor		
The motor is a totally enclosed, fan-cooled motor with prin tolerances comply with IEC 60034.	cipal dime	ensions to IEC and DIN standards. Electrica
The motor is flange-mounted with tapped-hole flange (FT) Motor-mounting designation in accordance with IEC 60034 II).		14, IM V 18 (Code I) / IM 3601, IM 3611 (Cc
The motor efficiency is classified as IE5 in accordance with The motor requires no external motor protection. The motor quick-rising temperatures, e.g. constant overload and stall	or control	unit incorporates protection against slow- ar
TPED 100-120/2 AI-F-A-BQQEThe terminal box holds term • one dedicated digital input		these connections:
 two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 	461/	



Company name:

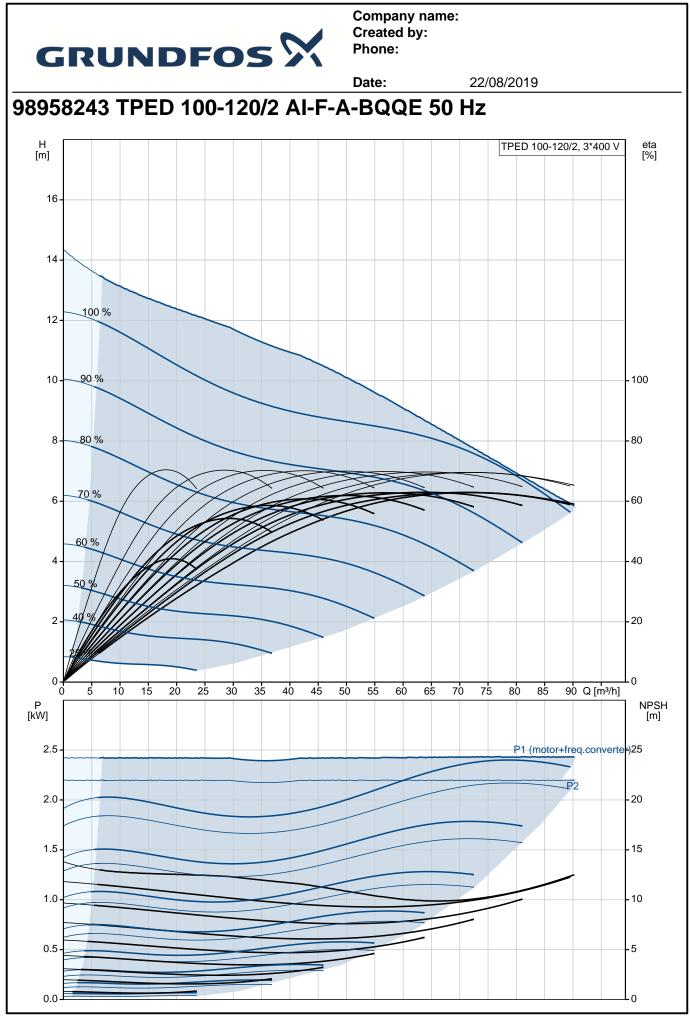
	GRUNDFO	os X	Company n Created by: Phone:		
	Description		Date:	22/08/2019	
Qty.	 one configurable digital in Grundfos Digital Sensor 24 V voltage supply for s two signal-relay outputs GENIbus connection interface for Grundfos CI 	input and output ensors (potential-free contacts			
	 TPED 100-120/2 AI-F-A-BQQE one dedicated digital inpu- two analog inputs, 0(4)-2 5 V voltage supply to pot one configurable digital in Grundfos Digital Sensor 24 V voltage supply for s two signal relay outputs (the two power heads cor interface for Grundfos CI 	ut 10 mA, 0-5 V, 0-10 V, 0 entiometer and senso nput or open-collector input and output ensors (potential-free contacts nmunicate via wireless	0.5 - 3.5 V r output s)		
	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 erature: 998.2 kg/m³			
	Technical: Pump speed on which pump da Rated flow: Rated head: Actual impeller diameter: Primary shaft seal: Curve tolerance:	ta are based: 2910 r 72.8 m³/h 7.79 m 104 mm BQQE ISO9906:2012 3B	om		
	Materials: Pump housing:	Cast iron EN-JL1040 ASTM A48-40 B			
	Impeller:	Stainless steel DIN WNr. 1.4301 AISI 304			
	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 6 bar DIN DN 100 PN 6 450 mm FT115			
	Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency:	90LD IE5 2.2 kW 50 Hz			

50 Hz

Mains frequency:



		Date:	22/08/2019		
<i>.</i>	Description				
	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:	98190193			
	Minimum efficiency index, ME ErP status: Net weight:	l ≥: 0.70 EuP Standalone/Prod. 105 kg			
	ErP status:	EuP Standalone/Prod.			
	ErP status: Net weight: Gross weight:	EuP Standalone/Prod. 105 kg 119 kg			
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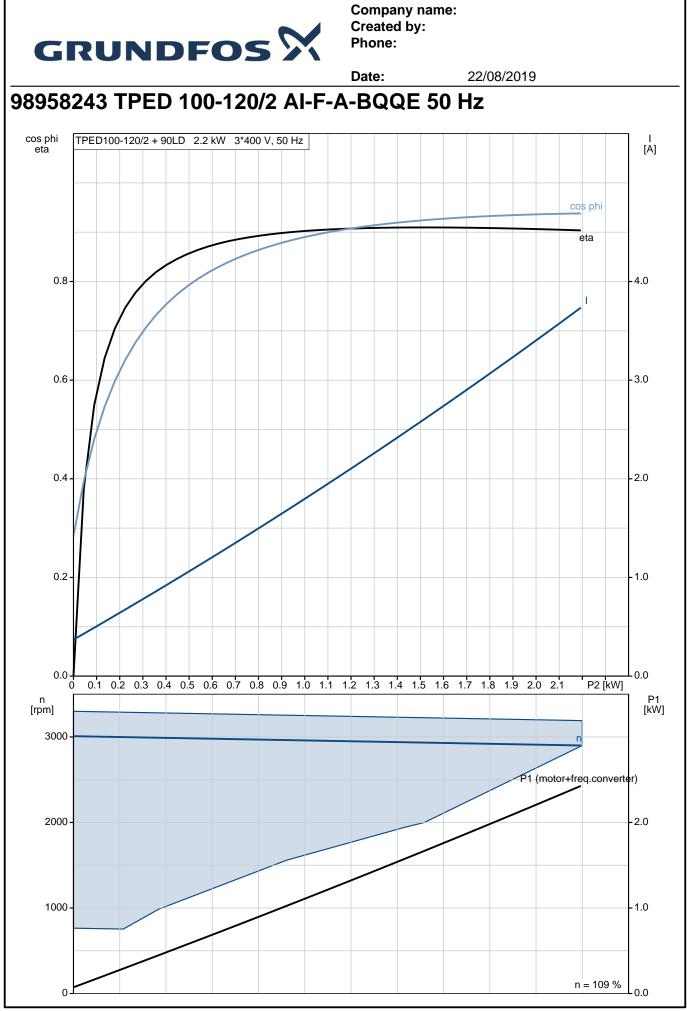


		Date:	22/08/2019
Description	Value	H [m]	TPED 100-120/2, 3*400 V eta [%
General information:		16	
Product name:	TPED 100-120/2 AI-F-A-BQQE		
Product No:	98958243	14 -	
EAN number:	5712604247129	100 %	
	5712604247129	12 - 100 %	
Price:	8.091,00 GBP		
Technical:	0.001,00 001	10 - 90 %	100
Pump speed on which pump data are			
based:	2910 rpm	8 80 %	80
Rated flow:	72.8 m³/h		
Rated head:	7.79 m	6 70%	-60
Head max:	120 dm		
Actual impeller diameter:	104 mm	4	40
Primary shaft seal:	BQQE	50 %	
Curve tolerance:	ISO9906:2012 3B		
Pump version:	AI	² 49	-20
Model:	A	200	
Materials:	Π	0 10	20 30 40 50 60 70 80 Q [m³/h]
Pump housing:	Cast iron	P [kW]	NP-
Fump housing.	EN-JL1040	[kW] 2.5 -	[n P1 (motor+freq.conveger)
	ASTM A48-40 B	2.0	
Impollory		2.0	P2 - 20
Impeller:	Stainless steel	_	
	DIN WNr. 1.4301	1.5	15
	AISI 304	1.0	10
Material code:	A	1.0	
Installation:		0.5 -	-5
Range of ambient temperature:	-20 50 °C		
Maximum operating pressure:	6 bar	0.0	
Flange standard:	DIN		
Pipe connection:	DN 100	347 4	347
Pressure rating:	PN 6		
Port-to-port length:	450 mm		
Flange size for motor:	FT115		
Connect code:	F		
Liquid:			
Pumped liquid:	Water	260 100	242 Rp 1/4 450
Liquid temperature range:	-25 120 °C	Ha	
Selected liquid temperature:	20 °C		
Density at selected liquid temperature:	998.2 kg/m ³	134	
Electrical data:			
Motor type:	90LD	- AL	
IE Efficiency class:	IE5	t	
Rated power - P2:	2.2 kW		<u>M16 // /</u>
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-500 V		T
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	lauchair A A o	
Insulation class (IEC 85):	F		
Motor protec:	YES		
Motor No:	98190193		
Controls:			
Control panel:	HMI200 - Standard		
Function Module:	FM300 - Advanced		
			P P I assax

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Date: 22/08/2019 Description Value Others: Minimum efficiency index, MEI ≥: 0.70 EuP Standalone/Prod. ErP status: Net weight: 105 kg Gross weight: 119 kg 0.383 m³ Shipping volume: Config. file no: 98478727



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