

Company name: Created by: Phone:

20/08/2019

Qty. | Description

1

TPE 25-90/2 A-O-A-BQQE



Note! Product picture may differ from actual product

Product No.: 98076621

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 25-90/2 A-O-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPE 25-90/2 A-O-A-BQQETPE 25-90/2 A-O-A-BQQETPE 25-90/2 A-O-A-BQQETPE 25-90/2 A-O-A-BQQEThe shaft seal is according to EN 12756. Pipework connection is via PN 10 union connections (ISO 228-1).

Pipework connection is via PN 10 union connections (ISO 228-1).

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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	3) Cathodic electrocoating (epoxy).		
	4) Curing of paint film at 200-250 °C.		
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	THE THE REAL PROPERTY OF THE P		
	1: Pump housing		
	2: Impeller		
	3: Shaft		
	4: Coupling 5: Pump head		
	5. Pump nead		
	The pump housing is provided with a replaceable stair	nles steel/PTF	E neck ring to reduce the amount of liquid
	running from the discharge side of the impeller to the s pressed onto the shaft.	suction side. T	The impeller is secured with a split cone
	The pump is fitted with an unbalanced rubber bellows	seal with torq	ue transmission across the spring and arou
	the bellows. Due to the bellows, the seal does not wea deposits on the shaft.	ar the shaft, ar	nd 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 re pairing offers good resistance against abrasive particle	esistance is re	quired. The high hardness of this material
L	Secondary seal material: EPDM (ethylene-propylene r		
	EPDM has excellent resistance to hot water. EPDM is	not suitable for	or mineral oils.
	A circulation of liquid through the duct of the air vent s	crew ensures	lubrication and cooling of the shaft seal.
	The motor stool forms connection between the pump I	nousing and th	ne motor, and is equipped with a manual a
	vent screw for venting of the pump housing and the sh pump housing is an O-ring or a flat gasket.	haft seal cham	ber. The sealing between motor stool and
	The central part of the motor stool is provided with gua	ards for protec	tion against the shaft and coupling. Motor
	pump shaft are connected via a shell coupling.		sion against the shart and coupling. Motor
	Motor		
	The motor is a totally enclosed, fan-cooled motor with tolerances comply with IEC 60034.	principal dime	ensions to IEC and DIN standards. Electric
	The motor is flange-mounted with tapped-hole flange		
	Motor-mounting designation in accordance with IEC 6 II).	0034-7: IM B	14, IM V 18 (Code I) / IM 3601, IM 3611 (C
	The motor efficiency is classified as IE5 in accordance		
	The motor requires no external motor protection. The quick-rising temperatures, e.g. constant overload and	motor control	unit incorporates protection against slow- a
	quier noing temperatures, e.g. constant oventad and		
	TPE 25-90/2 A-O-A-BQQEThe terminal box holds terr	ninals for thes	e connections:
	one dedicated digital input		
	 two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0 		
	 5 V voltage supply to potentiomator and concer 	•	
	 5 V voltage supply to potentiometer and sensor one configurable digital input or open-collector 		



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JILONDEC		Date:	20/08/2019	
Description				
 24 V voltage supply for se two signal-relay outputs (p GENIbus connection interface for Grundfos CIM 	potential-free contac	cts)		
 TPE 25-90/2 A-O-A-BQQEThe termination one dedicated digital inputering two analog inputs, 0(4)-20 5 V voltage supply to potermination one configurable digital in Grundfos Digital Sensor in 24 V voltage supply for sermination two signal relay outputs (provide the two power heads commination) interface for Grundfos CIM 	t o mA, 0-5 V, 0-10 V, entiometer and sens put or open-collecto nput and output ensors potential-free contac municate via wirele	, 0.5 - 3.5 V or or output cts)		
Technical data				
Controls: Frequency converter:	Built-in			
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid temper	Water -25 120 °C 20 °C rature: 998.2 kg/m ²	3		
Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Primary shaft seal: Curve tolerance:	a are based: 2865 7.88 m³/h 7.93 m 89 mm BQQE ISO9906:2012 3B	rpm		
Materials: Pump housing:	Cast iron EN-JL1030			
Impeller:	ASTM A48-30 B Composite PES/PF	P 30% GF		
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 10 bar UNION G 1 1/2 PN 10 180 mm FT85			
Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Cos phi - power factor:	71A IE5 0.37 kW 50 Hz 1 x 200-240 V 2.40-2.10 A 0.96			

0.96

360-4000 rpm

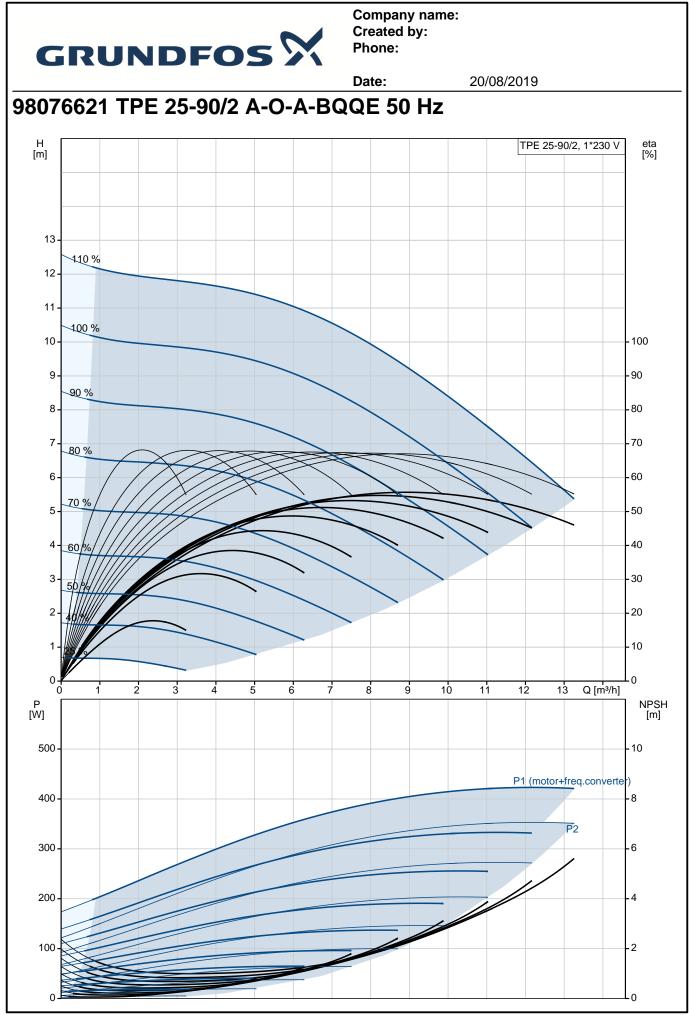
Cos phi - power factor:

Rated speed:



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•	Description				
	Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No:	84.0% 84.0 % IP55 F 98190190			
		30130130			
	Others: Minimum efficiency index, MEI				
	ErP status:	EuP Standalone/F	Prod.		
	Net weight:	13.1 kg			
	Gross weight: Shipping volume:	15.1 kg 0.045 m³			
	Danish VVS No.:	382000090			
	Norwegian NRF no.:	9043647			
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		Date:	20/08/2019	
Description General information:	Value	H [m]	TPE 25-90/2, 1*230 V	eta [%]
Product name:	TPE 25-90/2 A-O-A-BQQE	13 -		
Product No:	98076621	13 110 %		
EAN number:	5710628530920	-		
	5710628530920	11 - 100 %	10	0
Technical:		10-		
Pump speed on which pump data are	2865 rpm	9 - 90 %	900	
based: Rated flow:	7.88 m³/h	8-		
Rated head:	7.93 m	7 - 80 %		
Head max:	90 dm	6-	-60	
Actual impeller diameter:	89 mm	5 - 70 %///	50	
Primary shaft seal:	BQQE	4 - 60 %	40	
Curve tolerance:	ISO9906:2012 3B	3-50%	30	
Pump version:	A	2-00	-20	
Model:	B			
Materials:		1-1/0	10	
Pump housing:	Cast iron		4 6 8 10 12 Q [m³/h]	
r amp nousing.	EN-JL1030	P P		VPSH
	ASTM A48-30 B	[W] 500 -	- 10	[m]
Impeller:	Composite PES/PP 30% GF	400 -	P1 (motor+freq.convert	
Material code:	A	-	P2	
Installation:	Π	300 -	6	
Range of ambient temperature:	-20 50 °C	200 -	4	
Maximum operating pressure:	10 bar	- 200		
Flange standard:	UNION	100 -	-2	
Pipe connection:	G 1 1/2			
Pressure rating:	PN 10	0		
Port-to-port length:	180 mm	122	+	
Flange size for motor:	FT85	- <u>158</u>		
Connect code:	0			
Liquid:	•			
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C			
Density at selected liquid temperature:	998.2 kg/m ³			
Electrical data:				
Motor type:	71A			
IE Efficiency class:	IE5			
Rated power - P2:	0.37 kW		ļ	
Mains frequency:	50 Hz			
Rated voltage:	1 x 200-240 V			
Rated current:	2.40-2.10 A	-		
Cos phi - power factor:	0.96			
Rated speed:	360-4000 rpm	»→		
Efficiency:	84.0%	ь. Эб		
Motor efficiency at full load:	84.0 %			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F	<u></u>		
Motor protec:	YES	_		
Motor No:	98190190	<u>2170-217</u> 00-0-2		
Controls:				
Control panel:	HMI200 - Standard			
Function Module:	FM300 - Advanced			
Frequency converter:	Built-in		1 Goldson a 1 Goldson a	
Others:				
Minimum efficiency index, MEI ≥:	0.70			

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escription	Value		
ErP status:	EuP Standalone/Prod.	_	
Net weight:	13.1 kg		
Gross weight:	15.1 kg		
Shipping volume:	0.045 m ³		
Config. file no:	98478753		
Danish VVS No.:	382000090		
Norwegian NRF no.:	9043647		

