

08/08/2022

Qty. | Description

1

#### TPE 40-50/2 A-F-A-BQQE-AAB



Note! Product picture may differ from actual product

Product No.: 98525620

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.

The pump is fitted with an unbalanced rubber bellows seal.

The shaft seal is according to EN 12756. Pipework connection is via PN 6/10 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.

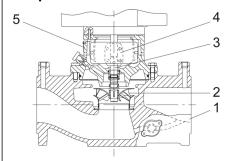
An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "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".

Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

### Pump



- 1: Pump housing
- 2: Impeller
- 3: Shaft
- 4: Coupling
- 5: Pump head

The pump housing is provided with a replaceable stainless steel/PTFE neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side.

The impeller is secured with a split cone pressed onto the shaft.



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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.

Date:

Seal faces:

- 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 or a flat gasket.

The central part of the motor stool is provided with guards for protection against the shaft and coupling. Motor and pump shaft are connected via a shell coupling.

### 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 tapped-hole flange (FT). Motor-mounting designation in accordance with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (Code II).

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.

### **Further product details**

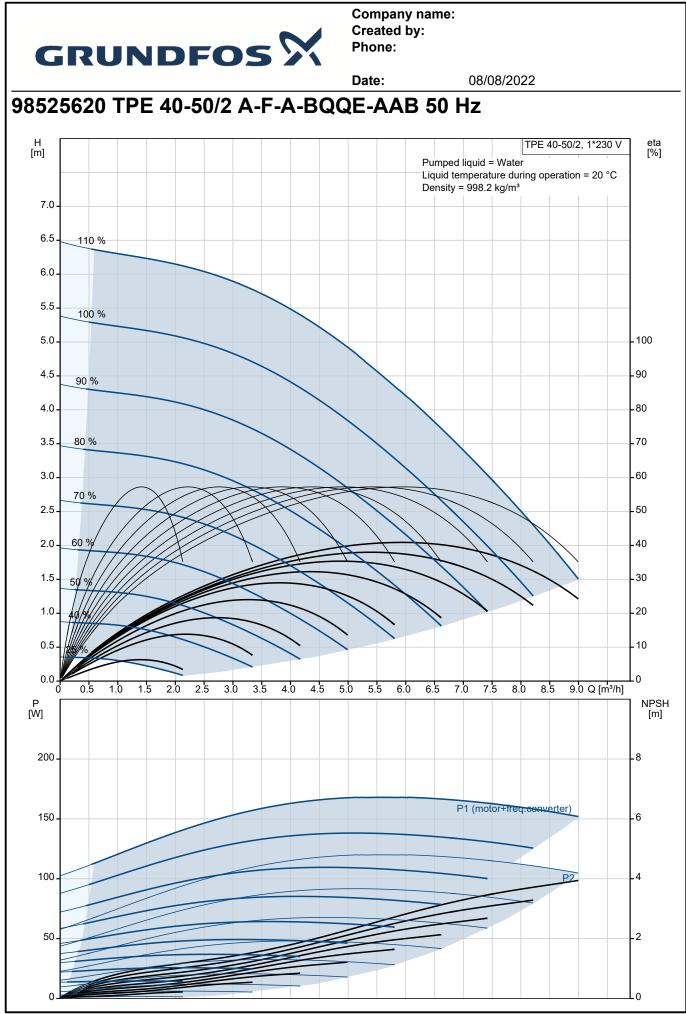
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

## **Technical data**

Controls: Frequency converter:	Built-in
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Code for shaft seal: Curve tolerance:	are based: 2800 rpm 5.61 m³/h 2.95 m 68 mm BQQE ISO9906:2012 3B2
Materials: Pump housing: Impeller:	Cast iron EN-GJL-200 ASTM class 30 Composite PES+30% GF



y. Description Installation: Range of ambient temperature: -2050 °C Maximum operating pressure: 10 bar Max pressure at stated temp: 10 bar / 120 °C Type of connection: DN N Size of connection: DN 40 Pressure rating for connection: PN 6/10 Port-0-port length: 250 mm Flange size for motor: FT85 Electrical data: Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.12 kW Mains frequency: 50 Hz Rated voltage: 1 x 200-240 V Rated current: 1.75-150 A Cos phi - power factor: 0.95 Rated speed: 360-4000 rpm Efficiency class: Efficiency: 81.1% Motor efficiency at full load: 81.1% Motor efficiency at full load: 81.1% Motor topies: P Rated speed: 52 Rated speed: 52 Rated speed: 52 Rated speed: 52 Rated speed: 54 Rated speed: 5			Date:	08/08/2022	
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Shipping volume:0.045 m³Country of origin:HU		15 kg			
Country of origin: HU	Gross weight:	17 kg			
	Shipping volume:	0.045 m³			
Custom tariff no.: 84137051		HU			
	Custom tariff no.:	84137051			



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		Date:	08/08/2022
Description	Value	H [m]	TPE 40-50/2, 1*230 V
General information:		[]	Pumped liquid = Water
Product name:	TPE 40-50/2	7.0	Liquid temperature during operation = 20 °C Density = 998.2 kg/m <sup>3</sup>
Product name.	A-F-A-BQQE-AAB	6.5 - 110 %	
Product No:	98525620	6.0	
EAN number:	5711496569258		
Technical:		5.5 - 100 %	
Pump speed on which pump data are based:	2800 rpm	5.0 -	100
Rated flow:	5.61 m³/h	00 //	
Rated head:	2.95 m	4.0 -	80
Maximum head:	50 dm	3.5 _ 80 %	70
Actual impeller diameter:	68 mm	3.0	
Code for shaft seal:	BQQE	70 %	V THE AND I HAD AND A HAD A HA
Curve tolerance:	ISO9906:2012 3B2	2.5 -	-50
Pump version:	A	2.0 - 60 %	40
Materials:	~	1.5 - 50 %	30
	Castiran		
Pump housing:	Cast iron	1.0 - 40	
Pump housing:	EN-GJL-200	0.5 - 0.5	10
Pump housing:	ASTM class 30	0.0	
Impeller:	Composite	oʻ 1	2 3 4 5 6 7 8 Q [m³/h]
Impeller:	PES+30% GF	P [W]	N
Material code:	А		
Installation:		200 -	
Range of ambient temperature:	-20 50 °C		P1 (motor+treq.converter)
Maximum operating pressure:	10 bar	150 -	-6
Max pressure at stated temp:	10 bar / 120 °C	_	
Type of connection:	DIN	100	<u>P2</u> -4
Size of connection:	DN 40		
Pressure rating for connection:	PN 6/10	50	-2
Port-to-port length:	250 mm		
Flange size for motor:	FT85		
Connect code:	F	0	_ 0
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		
	20 °C		
Selected liquid temperature: Density:			
Electrical data:	998.2 kg/m³		
	71 A		
Motor type:	71A		
IE Efficiency class:	IE5		
Rated power - P2:	0.12 kW		
Mains frequency:	50 Hz		
Rated voltage:	1 x 200-240 V		
Rated current:	1.75-1.50 A		
Cos phi - power factor:	0.95		
Rated speed:	360-4000 rpm		
Efficiency:	81.1%		
Motor efficiency at full load:	81.1 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	ELEC		
Motor No:	98667062		
Controls:	5000700Z		
	UMI200 Standard		
Control panel:	HMI200 - Standard		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			



DescriptionValueGross weight:17 kgShipping volume:0.045 m³Config. file no:98545835Country of origin:HUCustom tariff no.:84137051

