

**Date:** 10/09/2021

Qty. | Description

1 TP 40-180/2 A-F-A-BQQE-EX1



Note! Product picture may differ from actual product

Product No.: 98957965

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.

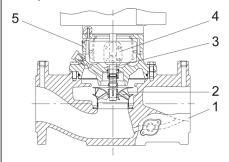
The shaft seal is according to EN 12756. Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2).

The pump is fitted with a fan-cooled asynchronous motor.

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.

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 with 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:



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- 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. 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 has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

### **Further product details**

#### **Technical data**

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -25 .. 120 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2860 rpm

Rated flow: 12.5 m³/h
Rated head: 10 m
Actual impeller diameter: 98 mm
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Impeller: Stainless steel

EN 1.4301 AISI 304

Installation:

Range of ambient temperature: -30 .. 40 °C
Maximum operating pressure: 10 bar

Max pressure at stated temp: 10 bar / 120 °C



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Type of connection: DIN
Size of connection: DN 40
Pressure rating for connection: PN 6/10
Port-to-port length: 250 mm
Flange size for motor: FT100

Electrical data:

Motor type: 80A Rated power - P2: 0.55 kW Mains frequency: 50 Hz

Rated voltage: 1 x 220-230/240 V
Rated current: 4.00/3.65 A
Starting current: 280 %
Cos phi - power factor: 0.99
Rated speed: 2750 rpm
Motor efficiency at full load: 66-64 %

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Motor No: 85215103

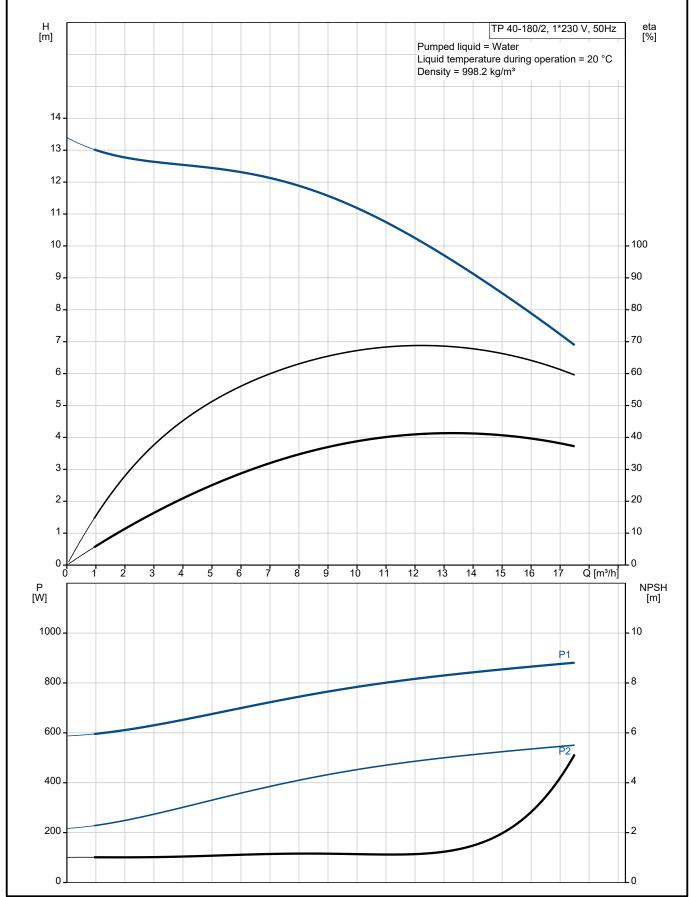
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 25.5 kg
Gross weight: 29 kg
Shipping volume: 0.08 m³



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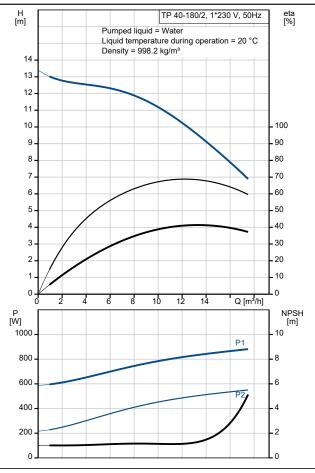
# 98957965 TP 40-180/2 A-F-A-BQQE-EX1 50 Hz

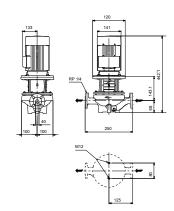


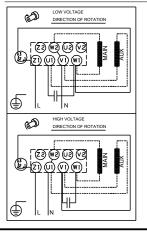


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Description	Value	
General information:		
Product name:	TP 40-180/2	
Product No:	A-F-A-BQQE-EX1 98957965	
EAN number:	98957965 5712604244326	
Technical:	37 12004244320	
Pump speed on which pump data are	2060 rnm	
based:	2860 rpm	
Rated flow:	12.5 m³/h	
Rated head:	10 m	
Maximum head:	180 dm	
Actual impeller diameter:	98 mm	
Code for shaft seal:	BQQE	
Curve tolerance:	ISO9906:2012 3B2	
Pump version:	A	
Materials:	0 1 !	
Pump housing:	Cast iron	
Pump housing:	EN-GJL-250	
Pump housing:	ASTM class 35	
Impeller:	Stainless steel	
Impeller:	EN 1.4301	
Impeller:	AISI 304	
Material code:	Α	
Installation:		
Range of ambient temperature:	-30 40 °C	
Maximum operating pressure:	10 bar	
Max pressure at stated temp:	10 bar / 120 °C	
Type of connection:	DIN	
Size of connection:	DN 40	
Pressure rating for connection:	PN 6/10	
Port-to-port length:	250 mm	
Flange size for motor:	FT100	
Connect code:	F	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:		
Motor type:	80A	
Rated power - P2:	0.55 kW	
Mains frequency:	50 Hz	
Rated voltage:	1 x 220-230/240 V	
Rated current:	4.00/3.65 A	
Starting current:	280 %	
Cos phi - power factor:	0.99	
Rated speed:	2750 rpm	
Motor efficiency at full load:	66-64 %	
Number of poles:	2	
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
Built-in motor protection:	PTO	
Motor No:	85215103	
Controls:		
Frequency converter:	NONE	
Others:		
Minimum efficiency index, MEI ≥:	0.70	
Net weight:	25.5 kg	
Gross weight:	29 kg	







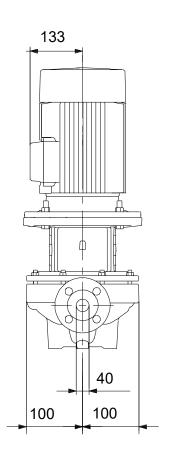


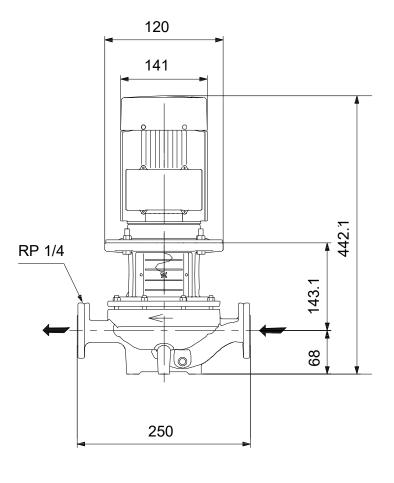
		Date:	10/09/2021
Description	Value		
<b>Description</b> Shipping volume:	Value 0.08 m³		
Shipping volume.	0.00 111		

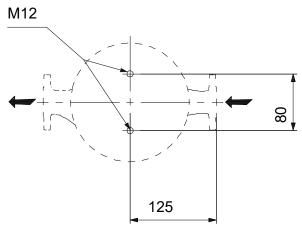


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### 98957965 TP 40-180/2 A-F-A-BQQE-EX1 50 Hz





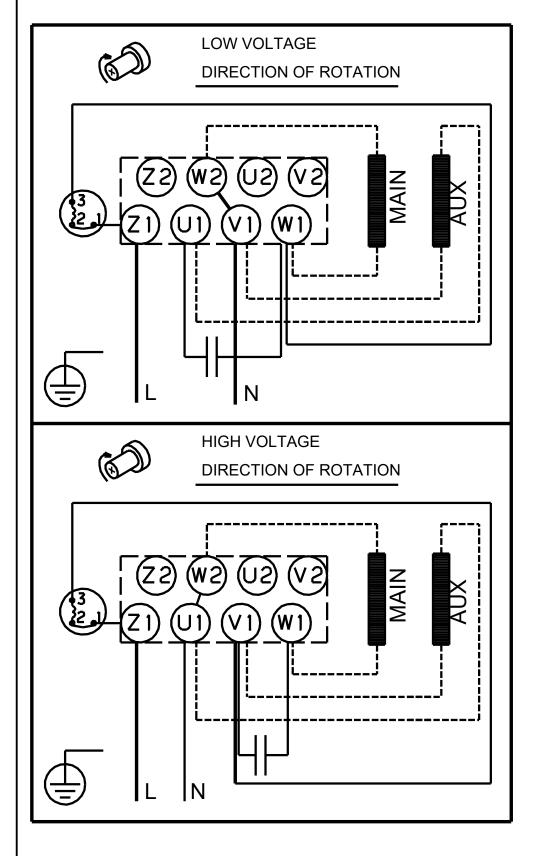


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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