


Qty.	Description
1	<p data-bbox="204 340 536 369">TPE 50-830/2-S A-F-A-BQQE</p>  <p data-bbox="204 663 467 692">Product No.: 96397040</p> <p data-bbox="204 723 1445 797">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.</p> <p data-bbox="204 806 1453 880">TPE 50-830/2-S A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPE 50-830/2-S A-F-A-BQQETPE 50-830/2-S A-F-A-BQQETPE 50-830/2-S 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).</p> <p data-bbox="204 889 1035 918">Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).</p> <p data-bbox="204 927 831 956">The pump is fitted with a fan-cooled asynchronous motor.</p> <p data-bbox="204 965 1426 994">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.</p> <p data-bbox="204 1041 783 1070">The pump is fitted with a differential-pressure sensor.</p> <p data-bbox="204 1099 520 1128">Further product details</p> <p data-bbox="204 1137 1401 1211">The pump is suitable for applications requiring pressure control. The pump is fitted with a differential-pressure transmitter registering the differential pressure across the pump and enabling constant pressure or proportional-pressure control of the pump.</p> <p data-bbox="204 1220 1426 1272">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".</p> <p data-bbox="204 1308 1453 1382">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".</p> <p data-bbox="204 1417 1422 1491">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.</p> <p data-bbox="204 1505 284 1534">Pump</p> <p data-bbox="204 1543 1137 1572">Pump housing and pump head are electrocoated to improve the corrosion resistance.</p> <p data-bbox="204 1581 464 1610">Electrocoating includes:</p> <ol data-bbox="204 1619 692 1720" style="list-style-type: none">1) Alkaline-based cleaning.2) Pretreatment with zinc phosphate coating.3) Cathodic electrocoating (epoxy).4) Curing of paint film at 200-250 °C.



- 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 II).

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

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.

TPE 50-830/2-S A-F-A-BQQE The terminal box holds terminals for these connections:

- pump start/stop input (potential-free contact)
- remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA
- 10 V voltage supply for setpoint potentiometer, I_{max} = 5 mA
- one analog sensor input, 0-10 V, 0(4)-20 mA; the factory-fitted pressure sensor is connected to this input
- 24 V voltage supply for sensor, I_{max} = 40 mA

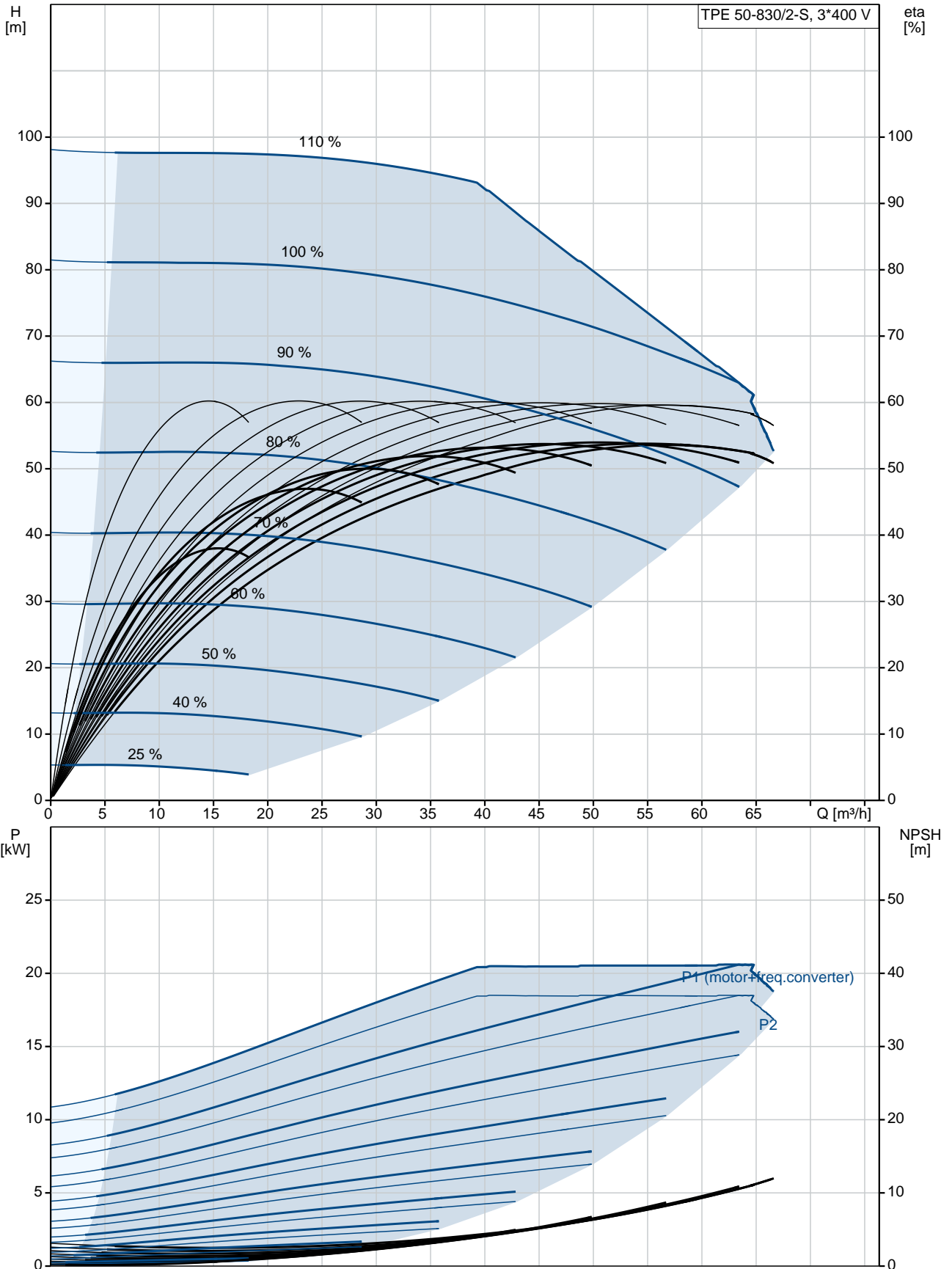
Qty.	Description
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Rated voltage:	3 x 380-480 V
Rated current:	37.0-31.0 A
Cos phi - power factor:	0.91-0.88
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,4%
Motor efficiency at full load:	92.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	85901234

Others:

Minimum efficiency index, MEI	: 0.70
ErP status:	EuP Standalone/Prod.
Net weight:	212 kg
Gross weight:	241 kg
Shipping volume:	1.14 m ³
Danish VVS No.:	381913830

96397040 TPE 50-830/2-S A-F-A-BQQE 50 Hz





Company name:

Created by:

Phone:

Date:

29/08/2019

Description	Value
Others:	
Minimum efficiency index, MEI :	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	212 kg
Gross weight:	241 kg
Shipping volume:	1.14 m ³
Config. file no:	95139460
Danish VVS No.:	381913830

96397040 TPE 50-830/2-S A-F-A-BQQE 50 Hz

