


Qty.	Description
1	<p data-bbox="199 340 526 362">TPE 100-200/2 A-F-A-BQQE</p> <div data-bbox="263 403 518 761">  </div> <p data-bbox="590 772 1077 795" style="text-align: center;">Note! Product picture may differ from actual product</p> <p data-bbox="199 801 470 824">Product No.: 99113964</p> <p data-bbox="199 862 1444 936">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="199 945 1428 1019">TPE 100-200/2 A-F-A-BQQE The pump is fitted with an unbalanced rubber bellows seal. TPE 100-200/2 A-F-A-BQQE The 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="199 1030 1037 1052">Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).</p> <p data-bbox="199 1064 1436 1115">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.</p> <p data-bbox="199 1124 1428 1176">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="199 1236 518 1265">Further product details</p> <p data-bbox="199 1272 1428 1323">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="199 1361 1452 1435">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="199 1473 1412 1547">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:</p> <ul data-bbox="239 1563 1412 1704" style="list-style-type: none"> • "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). <p data-bbox="199 1742 1452 1816">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".</p> <p data-bbox="199 1854 279 1883">Pump</p> <p data-bbox="199 1890 1141 1912">Pump housing and pump head are electrocoated to improve the corrosion resistance.</p> <p data-bbox="199 1921 470 1944">Electrocoating includes:</p> <ol data-bbox="199 1953 694 2063" 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 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.

TPE 100-200/2 A-F-A-BQQE The terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one configurable digital input or open-collector output
- Grundfos Digital Sensor input and output



Company name:

Created by:

Phone:

Date:

20/08/2019

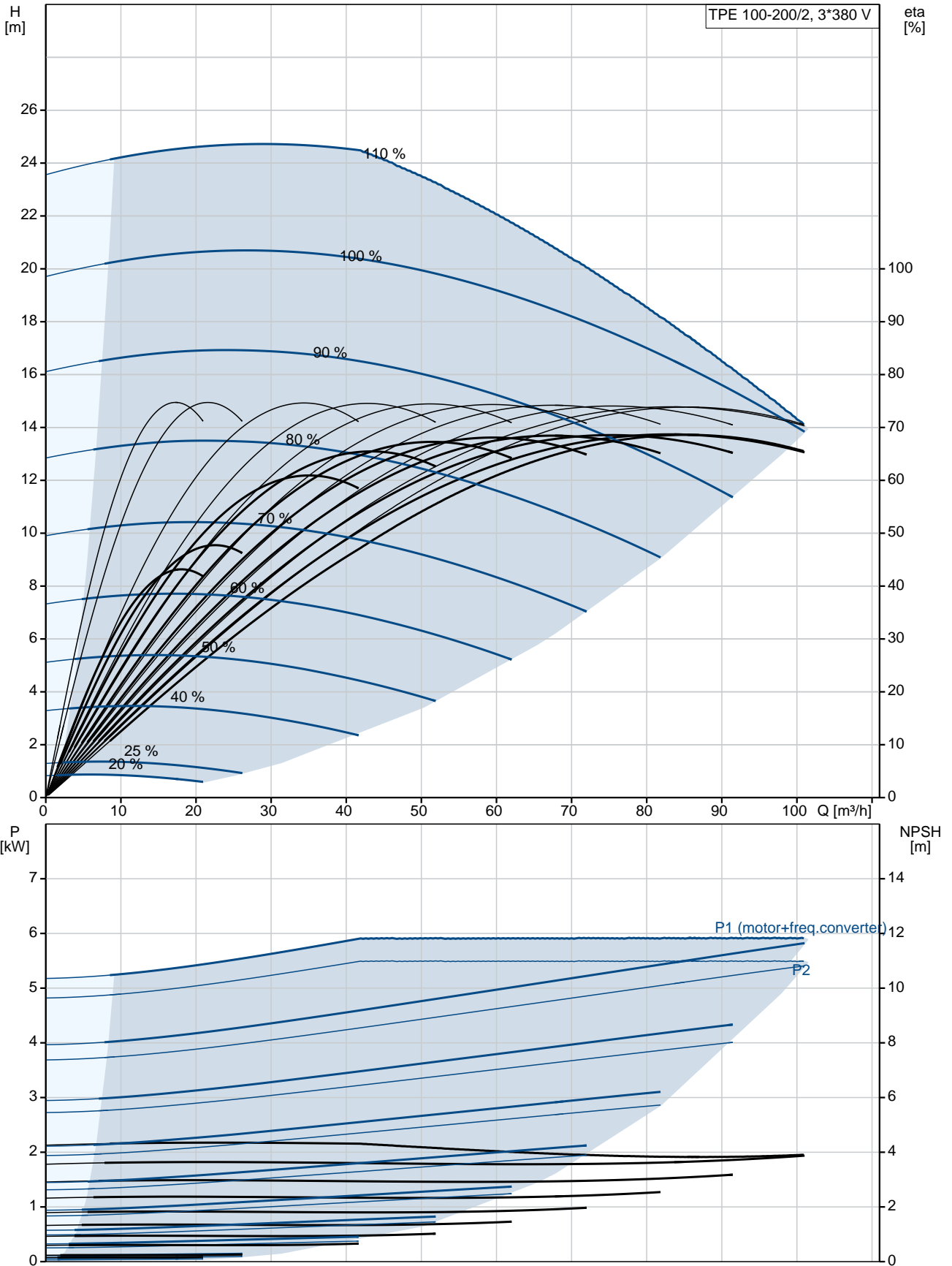
Qty.	Description
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Cos phi - power factor:	0.92-0.88
Rated speed:	360-4000 rpm
Efficiency:	92.7%
Motor efficiency at full load:	92.7 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	98971079

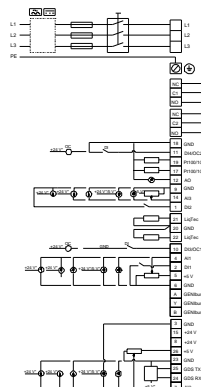
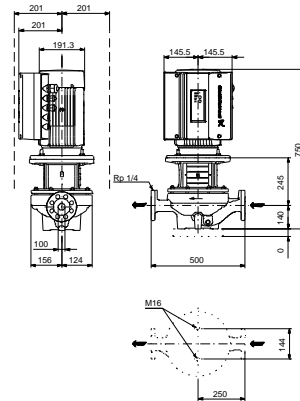
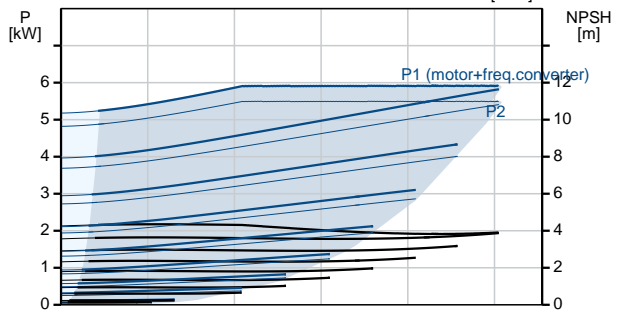
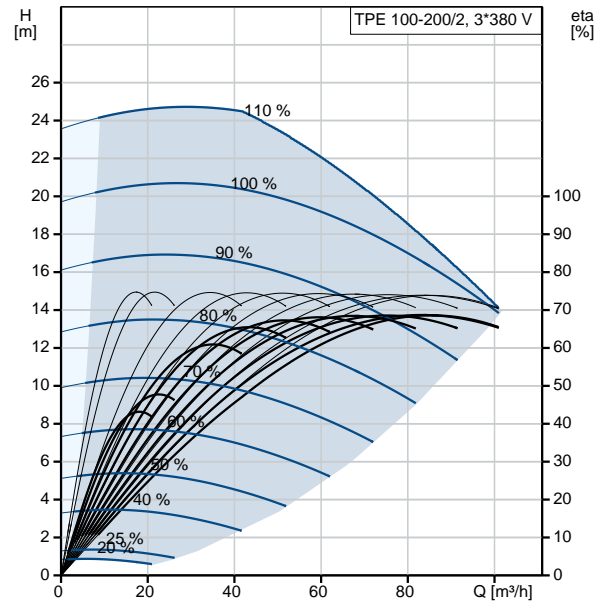
Others:

Minimum efficiency index, MEI $\hat{\alpha}\%$:	0.58
ErP status:	EuP Standalone/Prod.
Net weight:	101 kg
Gross weight:	120 kg
Shipping volume:	0.383 m ³
Danish VVS No.:	382066200
Norwegian NRF no.:	9043671

99113964 TPE 100-200/2 A-F-A-BQQE 50 Hz



Description	Value
General information:	
Product name:	TPE 100-200/2 A-F-A-BQQE
Product No:	99113964
EAN number:	5712607020392 5712607020392
Technical:	
Pump speed on which pump data are based:	2920 rpm
Rated flow:	85.2 m³/h
Rated head:	16.7 m
Head max:	200 dm
Actual impeller diameter:	127 mm
Primary shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron EN-JL1040 ASTM A48-40 B
Impeller:	Cast iron EN-JL1030 ASTM A48-30 B
Material code:	A
Installation:	
Range of ambient temperature:	-20 .. 50 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Pipe connection:	DN 100
Pressure rating:	PN 16
Port-to-port length:	500 mm
Flange size for motor:	FF265
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Selected liquid temperature:	20 °C
Density at selected liquid temperature:	998.2 kg/m³
Electrical data:	
Motor type:	132SE
IE Efficiency class:	IE5
Rated power - P2:	5.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-500 V
Rated current:	10.3-8.20 A
Cos phi - power factor:	0.92-0.88
Rated speed:	360-4000 rpm
Efficiency:	92.7%
Motor efficiency at full load:	92.7%
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	98971079
Controls:	
Control panel:	HMI200 - Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	





Company name:

Created by:

Phone:

Date:

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Description	Value
Minimum efficiency index, MEI â%¥:	0.58
ErP status:	EuP Standalone/Prod.
Net weight:	101 kg
Gross weight:	120 kg
Shipping volume:	0.383 m³
Config. file no:	99100551
Danish VVS No.:	382066200
Norwegian NRF no.:	9043671

99113964 TPE 100-200/2 A-F-A-BQQE 50 Hz

