

Qty. Description

1 **TPED 32-200/2-S A-F-A-BQQE**



Product No.: [99133591](#)

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.

TPED 32-200/2-S A-F-A-BQQE The pump is fitted with an unbalanced rubber bellows seal. TPED 32-200/2-S A-F-A-BQQE TPED 32-200/2-S 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).

Pipework connection is via PN 16 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.

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.

The pump is fitted with a differential-pressure sensor.

Further product details

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.

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".

The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.

The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".

Communication with the pump is also 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 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).

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.

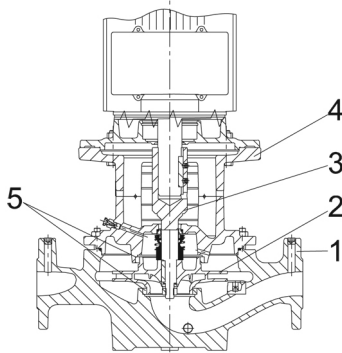
Pump

Qty. Description

Pump housing and pump head are electrocoated to improve the corrosion resistance.

Electrocoating includes:

- 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).

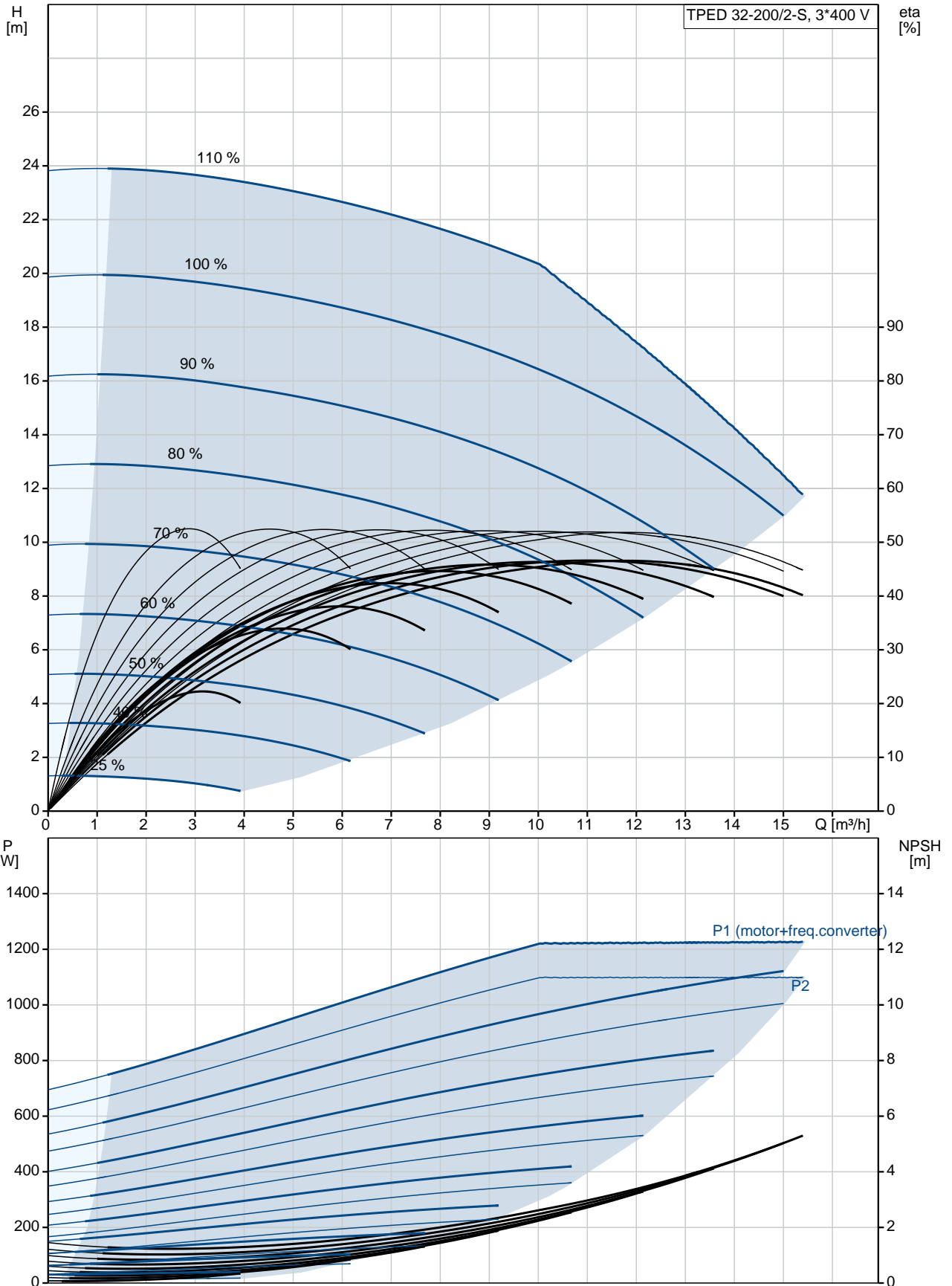
The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

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.

Qty.	Description
	<p>TPED 32-200/2-S A-F-A-BQQE The terminal box holds terminals for these connections:</p> <ul style="list-style-type: none"> - one dedicated digital input - two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs - 5 V voltage supply to potentiometer and sensor - one configurable digital input or open-collector output - Grundfos Digital Sensor input and output - 24 V voltage supply for sensors - two signal relay outputs (potential-free contacts) - GENIbus connection - interface for Grundfos CIM fieldbus module. <p>TPED 32-200/2-S A-F-A-BQQE The terminal box holds terminals for these connections:</p> <ul style="list-style-type: none"> - one dedicated digital input - two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs - 5 V voltage supply to potentiometer and sensor - one configurable digital input or open-collector output - Grundfos Digital Sensor input and output - 24 V voltage supply for sensors - two signal relay outputs (potential-free contacts) - the two power heads communicate via wireless GENIair or wired GENI connection - interface for Grundfos CIM fieldbus module. <p>Technical data</p> <p>Controls: Frequency converter: Built-in</p> <p>Liquid: Pumped liquid: Water Liquid temperature range: -25 .. 120 °C Selected liquid temperature: 20 °C Density at selected liquid temperature: 998.2 kg/m³</p> <p>Technical: Pump speed on which pump data are based: 2900 rpm Rated flow: 11 m³/h Rated head: 15 m Actual impeller diameter: 129 mm Primary shaft seal: BQQE Curve tolerance: ISO9906:2012 3B</p> <p>Materials: Pump housing: Cast iron EN-JL1040 ASTM A48-40 B Impeller: Cast iron EN-JL1030 ASTM A48-30 B</p> <p>Installation: Range of ambient temperature: -20 .. 50 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C Flange standard: DIN Pipe connection: DN 32 Pressure rating: PN 16 Port-to-port length: 340 mm</p>

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	<p data-bbox="199 338 639 365">Flange size for motor: FF165</p> <p data-bbox="199 398 379 425">Electrical data:</p> <p data-bbox="199 427 612 454">Motor type: 80B</p> <p data-bbox="199 456 604 483">IE Efficiency class: IE5</p> <p data-bbox="199 486 644 512">Rated power - P2: 1.1 kW</p> <p data-bbox="199 515 635 542">Mains frequency: 50 Hz</p> <p data-bbox="199 544 722 571">Rated voltage: 3 x 380-500 V</p> <p data-bbox="199 573 695 600">Rated current: 2.20-1.90 A</p> <p data-bbox="199 602 671 629">Cos phi - power factor: 0.89-0.79</p> <p data-bbox="199 631 722 658">Rated speed: 360-4000 rpm</p> <p data-bbox="199 660 635 687">Efficiency: 89.1%</p> <p data-bbox="199 689 644 716">Motor efficiency at full load: 89.1 %</p> <p data-bbox="199 719 620 745">Enclosure class (IEC 34-5): IP55</p> <p data-bbox="199 748 580 775">Insulation class (IEC 85): F</p> <p data-bbox="199 777 676 804">Motor No: 99306728</p> <p data-bbox="199 837 292 864">Others:</p> <p data-bbox="199 866 635 893">Minimum efficiency index, MEI : 0.70</p> <p data-bbox="199 896 810 922">ErP status: EuP Standalone/Prod.</p> <p data-bbox="199 925 628 952">Net weight: 87 kg</p> <p data-bbox="199 954 639 981">Gross weight: 101 kg</p> <p data-bbox="199 983 651 1010">Shipping volume: 0.39 m³</p>

99133591 TPED 32-200/2-S A-F-A-BQQE 50 Hz





Company name:

Created by:

Phone:

Date:

29/08/2019

Description	Value
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI :	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	87 kg
Gross weight:	101 kg
Shipping volume:	0.39 m ³
Config. file no:	99140388

99133591 TPED 32-200/2-S A-F-A-BQQE 50 Hz

