| | GRUNDFOS 🕅 | Company name: Created by: Phone: |
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| | | Date: |
| Qty. | Description | |
| 1 | TPED 32-230/2-S A-F-A-BQQE | |
| | Product No.: 99133609 | |
| | Single-stage, close-coupled, volute pump with in-line is of the top-pull-out design, i.e. the power head (mot | tor, pump head and imp |

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.

29/08/2019

TPED 32-230/2-S A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPED 32-230/2-S A-F-A-BQQETPED 32-230/2-S A-F-A-BQQETPED 32-230/2-S A-F-A-BQQETPED 32-230/2-S A-F-A-BQQEThe shaft seal is according to EN 12756. Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2).

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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).

Pump

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

Electrocoating includes:

1) Alkaline-based cleaning.



Company name: Created by:

| Description Pretreatment with zinc phosphate coating. 2) Pretreatment with zinc phosphate coating. 3) Cathodic electrocoating (epoxy). 4) Curing of paint film at 200-250 °C. Implement and the second s | 1 | Description | | |
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| a) Cathodic electrocoating (epoxy). d) Curing of paint film at 200-250 °C. Subset if it at 200-250 °C. Subset if it at 200-250 °C. Subset if it at 200-250 °C. Pump housing Pump housing Pump housing Shaft Coupling Pump head The pump housing is provided with a replaceable stainles 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 wit nut. The pump housing is provided with a replaceable stainles 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 wit nut. The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and arco 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) Stationary seat material: silicon carbide (SiC) Stationary seat material: PDM (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 mouning of pressure gauges. The motor stool forms connection between the pump housing and the motor, and is equipped with a manual ai pump housing is an 0-ring. Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electric tolerances comply with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (Cill). The motor efficiency is classified as IE5 in accordance with IEC 60034-3 | - | • | | |
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| The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and arout 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: solicon carbide (SiC) Stationary seat material: solicon carbide (SiC) Stationary seal material: solicon carbide (SiC) Stationary 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 ai vent screw for venting of the 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 pump shaft are connected via a shell coupling. Motor The motor is flange-mounted with tapped-hole flange (FT). Motor-mounting designation in accordance with IEC 60034-77: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (C 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-a quick-rising temperatures, e.g. constant overload and stalled conditions. | | | iction side. | . The impeller is secured with a split cone with |
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| The motor requires no external motor protection. The motor control unit incorporates protection against slow- a quick-rising temperatures, e.g. constant overload and stalled conditions. | 1 | ····· | | |
| The motor requires no external motor protection. The motor control unit incorporates protection against slow- a quick-rising temperatures, e.g. constant overload and stalled conditions. | - | The motor efficiency is classified as IE5 in accordance | with IEC 60 | 0034-30-2. |
| quick-rising temperatures, e.g. constant overload and stalled conditions. | | • | | |
| TPED 32-230/2-S A-F-A-BQQEThe terminal box holds terminals for these connections: | | | | |
| TPED 32-230/2-S A-F-A-BQQEThe terminal box holds terminals for these connections: | | | | |
| | - | TPED 32-230/2-S A-F-A-BQQEThe terminal box holds | terminals fo | for these connections: |



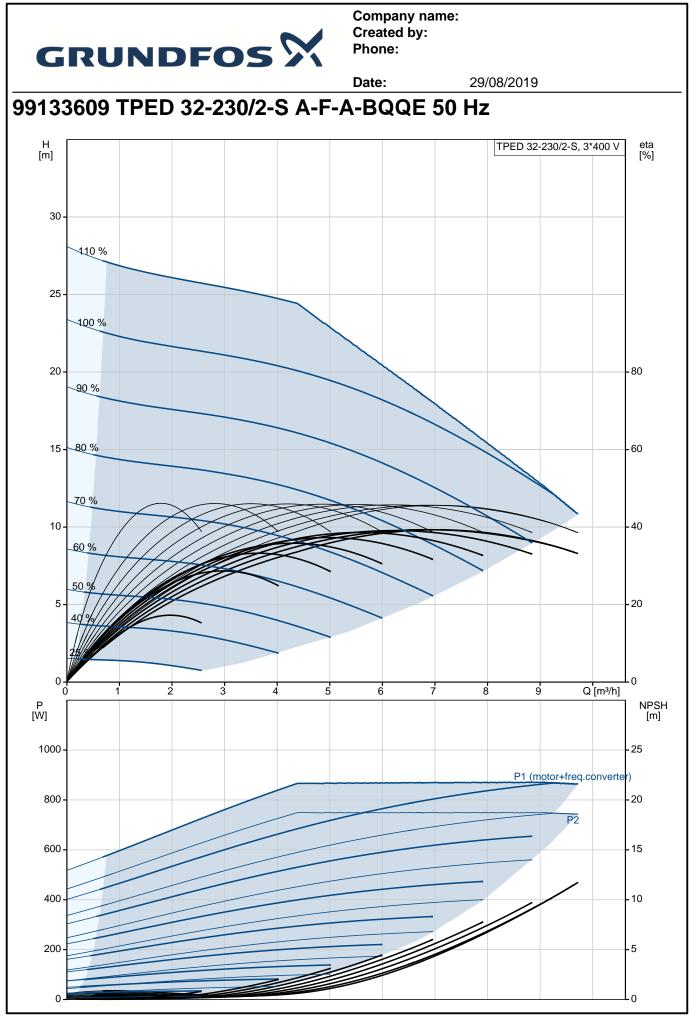
| Qty. | Description |
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| Description | |
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| two analog inputs, 0 one of these inputs | (4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected |
| | o potentiometer and sensor |
| | ital input or open-collector output |
| Grundfos Digital Se 24 V voltage supply | nsor input and output |
| | buts (potential-free contacts) |
| - GENIbus connection | |
| interface for Grundfer | os CIM fieldbus module. |
| | QQEThe terminal box holds terminals for these connections: |
| one dedicated digita | |
| two analog inputs, to one of these inputs | (4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected |
| | o potentiometer and sensor |
| | jital input or open-collector output nsor input and output |
| - 24 V voltage supply | |
| | outs (potential-free contacts) |
| | s communicate via wireless GENIair or wired GENI connection |
| - interface for Grundf | os CIM fieldbus module. |
| Technical data | |
| Controls: | |
| Frequency converter: | Built-in |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: Selected liquid temperature | -25 120 °C e: 20 °C |
| Density at selected liquid temperature | |
| Technical: | |
| | ip data are based: 2855 rpm |
| Rated flow: | 7.1 m³/h |
| Rated head: | 15 m |
| Actual impeller diameter: | 136 mm BQQE |
| Primary shaft seal: Curve tolerance: | ISO9906:2012 3B |
| | |
| Materials: Pump housing: | Cast iron |
| i amp nedenigi | EN-JL1040 |
| | ASTM A48-40 B |
| Impeller: | Stainless steel |
| | DIN WNr. 1.4301 AISI 304 |
| Installation: | |
| Range of ambient tempera | ture: -20 50 °C |
| Maximum operating pressu | ire: 10 bar |
| Max pressure at stated ten | • |
| Flange standard: | DIN |
| Pipe connection: Pressure rating: | DN 32 PN 6/10 |
| Port-to-port length: | 280 mm |
| Flange size for motor: | FT100 |
| | |
| | |
| from Grundfos Product Centre [| 2010 04 0021 |

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Date: 29/08/2019 Qty. Description **Electrical data:** 80A Motor type: IE Efficiency class: IE5 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.70-1.60 A Cos phi - power factor: 0.83-0.67 Rated speed: 360-4000 rpm 85.9% Efficiency: Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 99167596 Others: Minimum efficiency index, MEI : 0.64 ErP status: EuP Standalone/Prod. Net weight: 62.8 kg Gross weight: 72.3 kg Shipping volume: 0.22 m³



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| | | Date: 29/08/2019 |
|--|-------------------------------|---|
| Description | Value | H [m] TPED 32-230/2-S, 3*400 V [%] |
| General information: | Value | |
| Product name: | TPED 32-230/2-S A-F-A-BQQE | 30 - 110 % |
| Product No: | 99133609 | |
| EAN number: | 5712607367060 | 25- |
| LAN Humber. | 5712607367060 | 100 % |
| Price: | | |
| | 5.567,00 GBP | 20 - 90 % |
| Technical: | | |
| Pump speed on which pump data are based: | 2855 rpm | 15 80 % 60 |
| Rated flow: | 7.1 m³/h | |
| Rated head: | 15 m | 70 % |
| Head max: | 230 dm | 10-60 % |
| Actual impeller diameter: | 136 mm | |
| Primary shaft seal: | BQQE | 50 % |
| Curve tolerance: | ISO9906:2012 3B | 5-40-20 |
| Pump version: | A | |
| Model: | A | |
| Materials: | | 0 1 2 3 4 5 6 7 8 Q [m³/h] |
| Pump housing: | Cast iron | P [W] [m] |
| r amp nouoing. | EN-JL1040 | [W] 1000 |
| | ASTM A48-40 B | P1 (motor+freq.corverter) |
| Impoller: | Stainless steel | 800 - 20 |
| Impeller: | | P2 |
| | DIN WNr. 1.4301 AISI 304 | 600 15 |
| Material code: | A | 400 - 10 |
| Installation: | | 200 - 5 |
| Range of ambient temperature: | -20 50 °C | 200 |
| Maximum operating pressure: | 10 bar | 0 |
| Max pressure at stated temp: | 10 bar / 120 °C | 1 327 327 I |
| Flange standard: | DIN | |
| Pipe connection: | DN 32 | |
| Pressure rating: | PN 6/10 | |
| Port-to-port length: | 280 mm | |
| Flange size for motor: | FT100 | |
| Connect code: | F | |
| Liquid: | • | |
| Pumped liquid: | Water | 222 222 280 |
| Liquid temperature range: | -25 120 °C | |
| Selected liquid temperature: | -23 120 °C | |
| Density at selected liquid temperature: | | |
| Electrical data: | 550.2 Ng/111 | |
| Motor type: | 80A | |
| IE Efficiency class: | IE5 | |
| Rated power - P2: | 0.75 kW | MTZ/ · · · · · · · · · · · · · · · · · · · |
| | | |
| Mains frequency: | 50 Hz | |
| Rated voltage: | 3 x 380-500 V | |
| Rated current: | 1.70-1.60 A | |
| Cos phi - power factor: | 0.83-0.67 | |
| Rated speed: | 360-4000 rpm | |
| Efficiency: | 85.9% | |
| Motor efficiency at full load: | 85.9 % | |
| Enclosure class (IEC 34-5): | IP55 | |
| Insulation class (IEC 85): | F | A GONbas A Y GONbas Y |
| Motor protec: | YES | B GENton B 3 Orc |
| Motor No: | 99167596 | 15 - 24V 8 - 24V 9 - 24V |
| Controls: | | |
| Control panel: | HMI300 - Graphical | |
| Function Module: | FM300 - Advanced | |

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| | | Date: | 29/08/2019 | |
|---------------------------------|----------------------|-------|------------|--|
| Description | Value | | | |
| Frequency converter: | Built-in | | | |
| Others: | | | | |
| Minimum efficiency index, MEI : | 0.64 | | | |
| ErP status: | EuP Standalone/Prod. | | | |
| Net weight: | 62.8 kg | | | |
| Gross weight: | 72.3 kg | | | |
| Shipping volume: | 0.22 m ³ | | | |
| Config. file no: | 99140386 | | | |
| 3 | | | | |

