

Date: 22/08/2019

Qty. | Description

1 TPED 80-240/4 A-F-A-BQQE



Product No.: 99114628

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 80-240/4 A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPED 80-240/4 A-F-A-BQQETPED 80-240/4 A-F-A

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.

Further product details

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".

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:

- "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).

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".

Pump

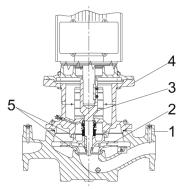
Pump housing and pump head are electrocoated to improve the corrosion resistance.

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.



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- 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.

TPED 80-240/4 A-F-A-BQQEThe 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



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- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- · GENIbus connection
- · interface for Grundfos CIM fieldbus module.

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- 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.

Technical data

Controls:

Frequency converter: Built-in

Liquid:

Pumped liquid: Water Liquid temperature range: -25 .. 120 °C

Selected liquid temperature: 20 °C

Density at selected liquid temperature: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 1455 rpm

Rated flow: 61 m³/h
Rated head: 19 m
Actual impeller diameter: 258 mm
Primary shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B

Materials:

Pump housing: Cast iron

EN-JL1040 ASTM A48-40 B

Impeller: Cast iron

EN-JL1030 ASTM A48-30 B

Installation:

Range of ambient temperature: -20 .. 50 °C

Maximum operating pressure: 16 bar

Flange standard: DIN

Pipe connection: DN 80

Pressure rating: PN 16

Port-to-port length: 620 mm

Flange size for motor: FF265

Electrical data:

Motor type: 132SG
IE Efficiency class: IE5
Rated power - P2: 5.5 kW
Mains frequency: 50 Hz
Rated voltage: 3 x 380-500 V
Rated current: 10.5-8.40 A



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Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm

Efficiency: 91.9%

Motor efficiency at full load: 91.9 %

Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 98971184

Others:

Minimum efficiency index, MEI ≥: 0.60

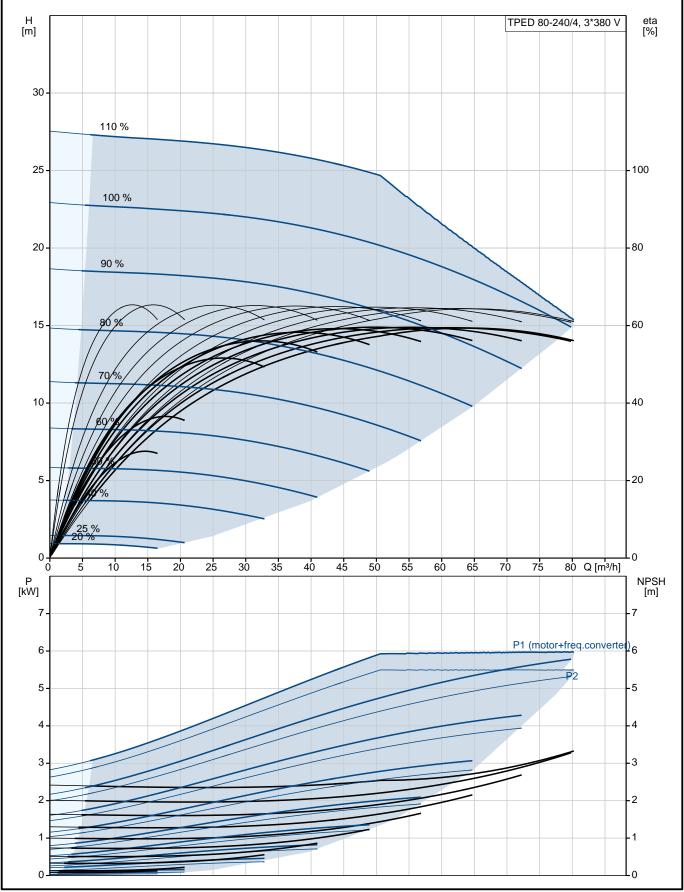
ErP status: EuP Standalone/Prod.

Net weight: 360 kg Gross weight: 391 kg Shipping volume: 1.14 m³



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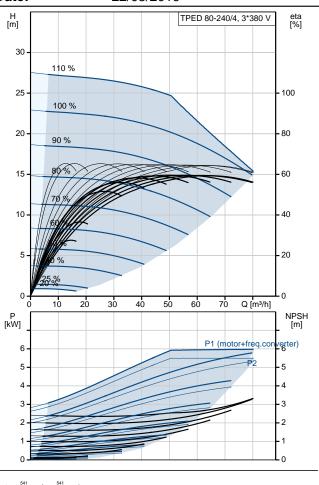
99114628 TPED 80-240/4 A-F-A-BQQE 50 Hz

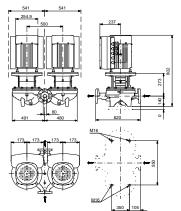


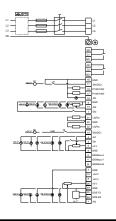


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Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid temperature: Pumped liquid temperature: Selected liquid temperature: Density at selected liquid temperature: Selectrical data: Motor type: Selectrical data: Motor efficiency: Selectrical data: Selectrical da	Flange size for motor:	FF265
Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 998.2 kg/m³ Electrical data: Motor type: 132SG IE Efficiency class: IE5 Rated power - P2: 5.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971184 Controls: Control panel: HMI200 - Standard Frequency converter: Built-in	Connect code:	F
Liquid temperature range: Selected liquid temperature: Density at selected liquid temperature: Pelectrical data: Motor type: I 32SG IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No: Controls: Control panel: Frequency converter: P98.2 kg/m³ 132SG IE5 RateS RateS IE5 RateD So Hz So	Liquid:	
Selected liquid temperature: 20 °C Density at selected liquid temperature: 998.2 kg/m³ Electrical data: Motor type: 132SG IE Efficiency class: IE5 Rated power - P2: 5.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971184 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Pumped liquid:	Water
Density at selected liquid temperature: 998.2 kg/m³ Electrical data: Motor type: 132SG IE Efficiency class: IE5 Rated power - P2: 5.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Liquid temperature range:	-25 120 °C
Electrical data: 132SG Motor type: 132SG IE Efficiency class: IE5 Rated power - P2: 5.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Selected liquid temperature:	20 °C
Motor type: 132SG IE Efficiency class: IE5 Rated power - P2: 5.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in	Density at selected liquid temperature:	998.2 kg/m³
IE Efficiency class:	Electrical data:	
Rated power - P2: 5.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in	Motor type:	132SG
Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in	IE Efficiency class:	IE5
Rated voltage: 3 x 380-500 V Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in	Rated power - P2:	5.5 kW
Rated current: 10.5-8.40 A Cos phi - power factor: 0.92-0.88 Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in	Mains frequency:	50 Hz
Cos phi - power factor: Rated speed: Rated speed: Efficiency: 91.9% Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protec: YES Motor No: 98971184 Controls: Control panel: Function Module: Frequency converter: Built-in	Rated voltage:	3 x 380-500 V
Rated speed: 180-2200 rpm Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Rated current:	10.5-8.40 A
Efficiency: 91.9% Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Cos phi - power factor:	
Motor efficiency at full load: 91.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Rated speed:	180-2200 rpm
Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protec: YES Motor No: 98971184 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	•	91.9%
Insulation class (IEC 85): Motor protec: YES Motor No: 98971184 Controls: Control panel: Function Module: Frequency converter: Built-in	•	91.9 %
Motor protec: Motor No: 98971184 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Enclosure class (IEC 34-5):	IP55
Motor No: 98971184 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Insulation class (IEC 85):	F
Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Motor protec:	YES
Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in	Motor No:	98971184
Function Module: FM300 - Advanced Frequency converter: Built-in	Controls:	
Frequency converter: Built-in	•	
- 1	Function Module:	FM300 - Advanced
Others:		Built-in
	Others:	









Date: 22/08/2019

Description	Value
Minimum efficiency index, MEI ≥:	0.60
ErP status:	EuP Standalone/Prod.
Net weight:	360 kg
Gross weight:	391 kg
Shipping volume:	1.14 m³
Config. file no:	99100732



Date: 22/08/2019

99114628 TPED 80-240/4 A-F-A-BQQE 50 Hz

