

Date: 29/08/2019

Qty. | Description

1 TPE 32-580/2-S A-F-A-BQQE



Product No.: 99114657

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.

TPE 32-580/2-S A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPE 32-580/2-S A-F-A-BQQETPE 32-580/2

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".

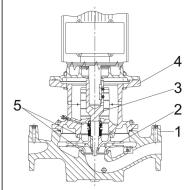
Communication with the pump is possible by means of the Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

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.



1: Pump housing



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- 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 32-580/2-S 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; 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.

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- 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



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- 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: 2920 rpm

Rated flow: 23.7 m³/h
Rated head: 44.6 m
Actual impeller diameter: 205 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 32
Pressure rating: PN 16
Port-to-port length: 440 mm
Flange size for motor: FF265

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 No: 98971271

Others:

Minimum efficiency index, MEI : 0.50

ErP status: EuP Standalone/Prod.

Net weight: 84 kg



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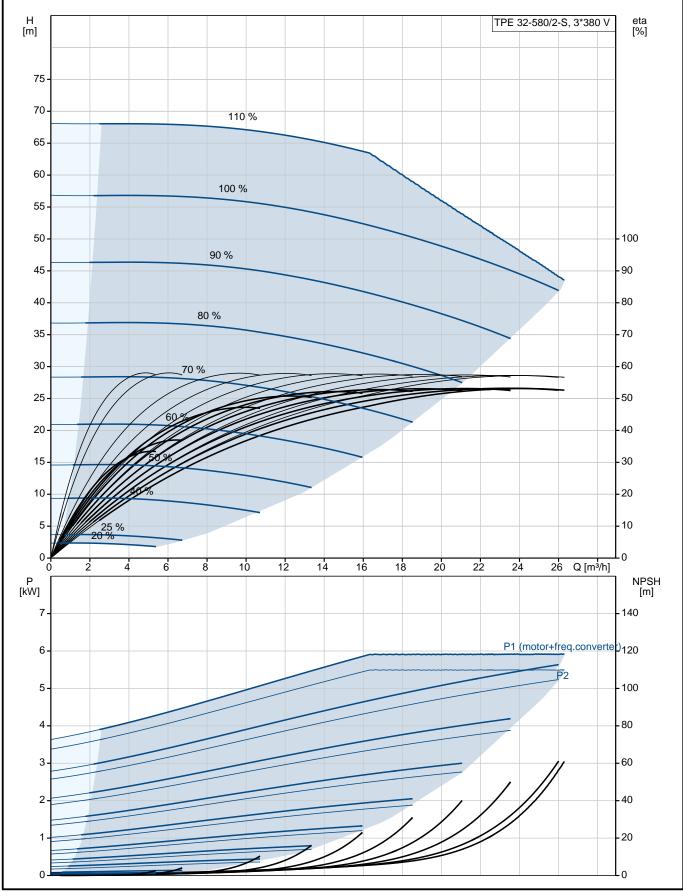
	Description		
	Gross weight:	103 kg	
	Shipping volume:	0.383m^3	

Danish VVS No.: 381941580



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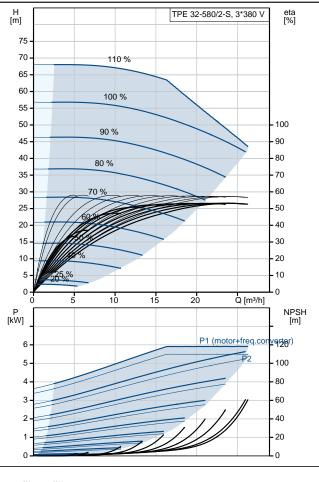
99114657 TPE 32-580/2-S A-F-A-BQQE 50 Hz

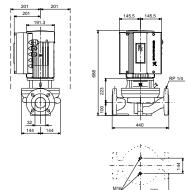


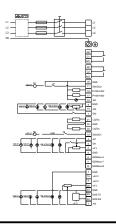


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Description General information:	Value		
General Information:	TPE 32-580/2-S		
Product name:	A-F-A-BQQE		
Product No:	99114657		
EAN number:	5712607033415		
	5712607033415		
Price:	5.343,00 GBP		
Technical:	·		
Pump speed on which pump data are based:	2920 rpm		
Rated flow:	23.7 m³/h		
Rated head:	44.6 m		
Head max:	580 dm		
Actual impeller diameter:	205 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:	Α		
Installation:			
Range of ambient temperature:	-20 50 °C		
Maximum operating pressure:	16 bar		
Flange standard:	DIN		
Pipe connection:	DN 32		
Pressure rating:	PN 16		
Port-to-port length:	440 mm		
Flange size for motor:	FF265		
Connect code:	F		
Liquid:	NA /		
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:	132SE		
Motor type:	IE5		
IE Efficiency class: 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:	98971271		
Controls:			
Control panel:	HMI300 - Advanced		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
1			









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Description	Value
Others:	
Minimum efficiency index, MEI :	0.50
ErP status:	EuP Standalone/Prod.
Net weight:	84 kg
Gross weight:	103 kg
Shipping volume:	0.383 m³
Config. file no:	99135879
Danish VVS No.:	381941580



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99114657 TPE 32-580/2-S A-F-A-BQQE 50 Hz

