
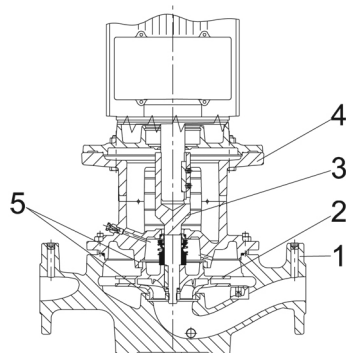


Qty.	Description
1	<p data-bbox="199 336 534 358">TPE 125-95/4-S A-F-A-BQQE</p> <div data-bbox="319 403 478 616">  </div> <p data-bbox="199 660 470 683">Product No.: 99114807</p> <p data-bbox="199 716 1452 795">Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical 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="199 801 1452 880">TPE 125-95/4-S A-F-A-BQQE The pump is fitted with an unbalanced rubber bellows seal. TPE 125-95/4-S A-F-A-BQQE The pump is fitted with an unbalanced rubber bellows seal. TPE 125-95/4-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).</p> <p data-bbox="199 887 1037 913">Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).</p> <p data-bbox="199 920 1452 969">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="199 976 1452 1025">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 1066 790 1093">The pump is fitted with a differential-pressure sensor.</p> <p data-bbox="199 1122 518 1153">Further product details</p> <p data-bbox="199 1160 1452 1238">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.</p> <p data-bbox="199 1245 1452 1301">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 1335 1452 1413">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 1447 1452 1525">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.</p> <p data-bbox="199 1532 279 1563">Pump</p> <p data-bbox="199 1570 1141 1597">Pump housing and pump head are electrocoated to improve the corrosion resistance.</p> <p data-bbox="199 1603 470 1630">Electrocoating includes:</p> <ol data-bbox="199 1637 694 1749" 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.

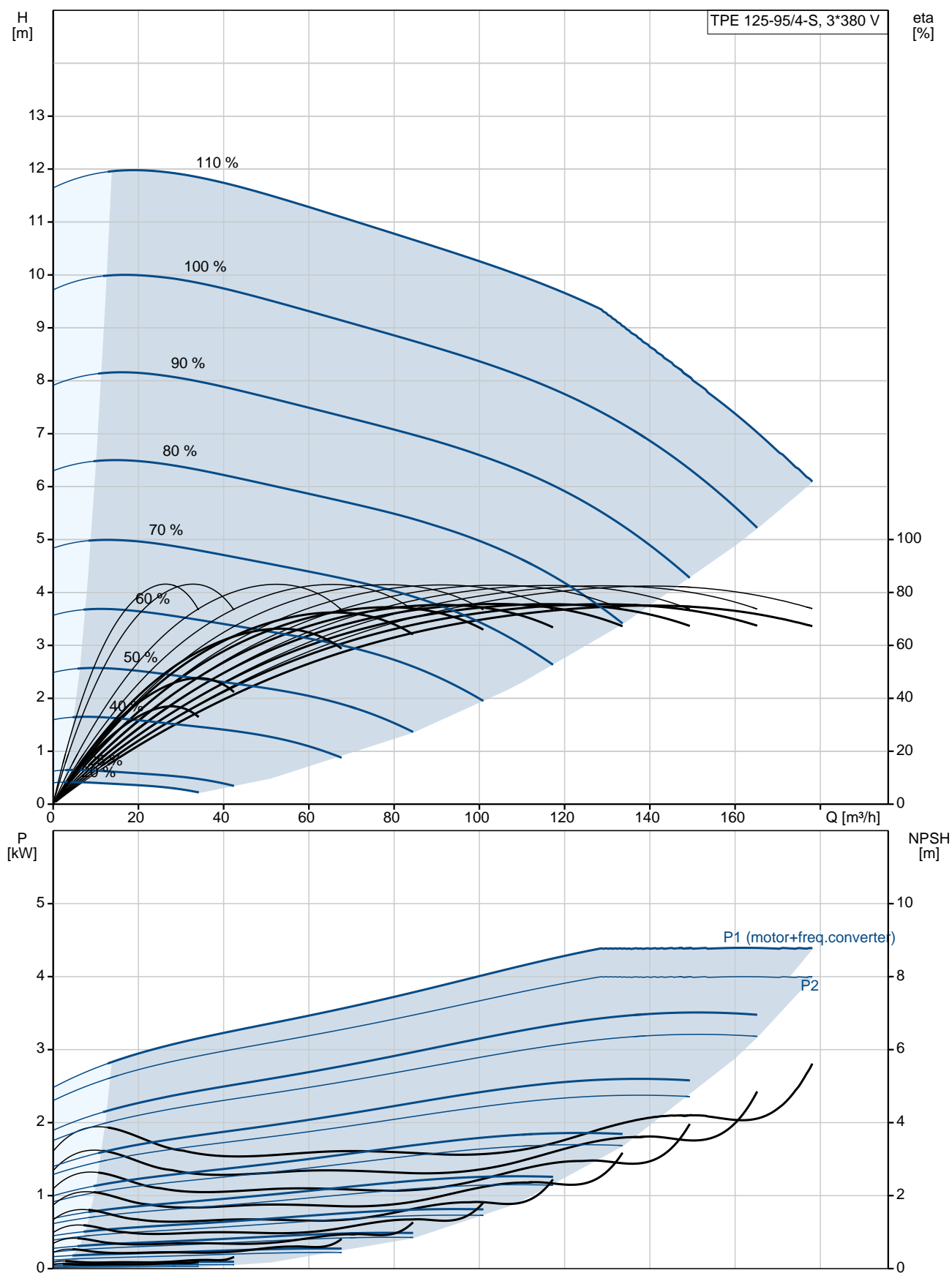
TPE 125-95/4-S A-F-A-BQQE The terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; 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

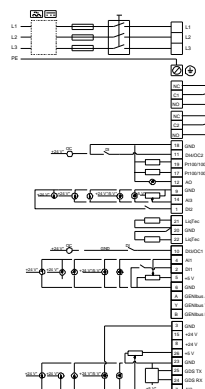
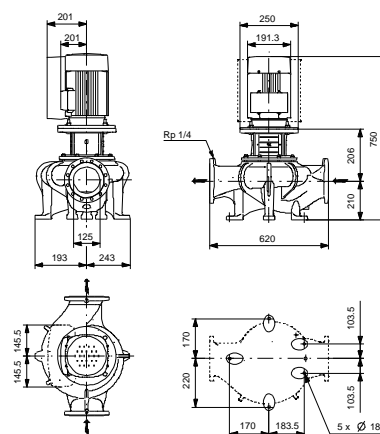
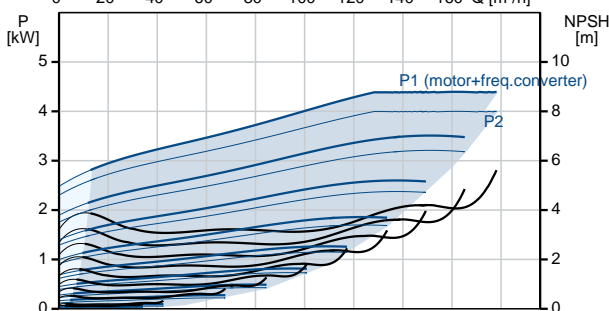
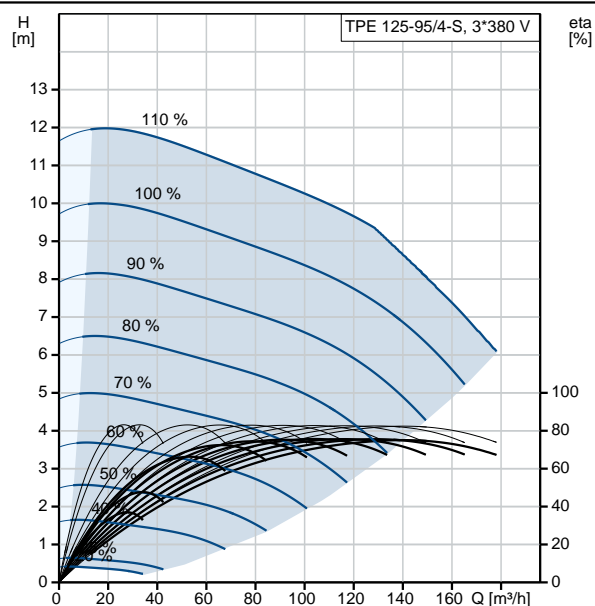
Qty.	Description
	<ul style="list-style-type: none"> - Grundfos Digital Sensor input and output - 24 V voltage supply for sensors - two signal relay outputs (potential-free contacts) - GENIbus connection - interface for Grundfos CIM fieldbus module. <p>TPE 125-95/4-S A-F-A-BQQE The terminal box holds 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:</p> <p>Frequency converter: Built-in</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -25 .. 120 °C</p> <p>Selected liquid temperature: 20 °C</p> <p>Density at selected liquid temperature: 998.2 kg/m³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 1460 rpm</p> <p>Rated flow: 128 m³/h</p> <p>Rated head: 7.56 m</p> <p>Actual impeller diameter: 176 mm</p> <p>Primary shaft seal: BQQE</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Pump housing: Cast iron EN-JL1040 ASTM A48-40 B</p> <p>Impeller: Cast iron EN-JL1030 ASTM A48-30 B</p> <p>Installation:</p> <p>Range of ambient temperature: -20 .. 50 °C</p> <p>Maximum operating pressure: 16 bar</p> <p>Flange standard: DIN</p> <p>Pipe connection: DN 125</p> <p>Pressure rating: PN 16</p> <p>Port-to-port length: 620 mm</p> <p>Flange size for motor: FF215</p> <p>Electrical data:</p> <p>Motor type: 112ME</p> <p>IE Efficiency class: IE5</p> <p>Rated power - P2: 4 kW</p> <p>Mains frequency: 50 Hz</p>

Qty.	Description
	<div><div><div>Rated voltage:</div><div>Rated current:</div><div>Cos phi - power factor:</div><div>Rated speed:</div><div>Efficiency:</div><div>Motor efficiency at full load:</div><div>Enclosure class (IEC 34-5):</div><div>Insulation class (IEC 85):</div><div>Motor No:</div></div><div><div>3 x 380-500 V</div><div>7.70-6.00 A</div><div>0.92-0.87</div><div>180-2200 rpm</div><div>90.3%</div><div>90.3 %</div><div>IP55</div><div>F</div><div>98971266</div></div></div>
	Others: <div><div>Minimum efficiency index, MEI : 0.7</div><div>ErP status: EuP Standalone/Prod.</div><div>Net weight: 134 kg</div><div>Gross weight: 167 kg</div><div>Shipping volume: 1.14 m³</div><div>Danish VVS No.: 381957095</div></div>

99114807 TPE 125-95/4-S A-F-A-BQQE 50 Hz



Description	Value
General information:	
Product name:	TPE 125-95/4-S A-F-A-BQQE
Product No:	99114807
EAN number:	5712607036294
	5712607036294
Price:	6.335,00 GBP
Technical:	
Pump speed on which pump data are based:	1460 rpm
Rated flow:	128 m³/h
Rated head:	7.56 m
Head max:	95 dm
Actual impeller diameter:	176 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 125
Pressure rating:	PN 16
Port-to-port length:	620 mm
Flange size for motor:	FF215
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:	112ME
IE Efficiency class:	IE5
Rated power - P2:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-500 V
Rated current:	7.70-6.00 A
Cos phi - power factor:	0.92-0.87
Rated speed:	180-2200 rpm
Efficiency:	90.3%
Motor efficiency at full load:	90.3 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	98971266
Controls:	
Control panel:	HMI300 - Advanced
Function Module:	FM300 - Advanced
Frequency converter:	Built-in





Company name:

Created by:

Phone:

Date:

29/08/2019

Description	Value
Others:	
Minimum efficiency index, MEI :	0.7
ErP status:	EuP Standalone/Prod.
Net weight:	134 kg
Gross weight:	167 kg
Shipping volume:	1.14 m ³
Config. file no:	99139896
Danish VVS No.:	381957095

99114807 TPE 125-95/4-S A-F-A-BQQE 50 Hz

