

**Date:** 16/06/2022

### Qty. | Description

1 TPE3 100-120 S-A-F-A-BQQE-GAB



Note! Product picture may differ from actual product

Product No.: On request

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.

The shaft seal is according to EN 12756. Pipework connection is via PN 10 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 combined temperature- and differential pressure sensor.

The pump is suitable for applications requiring pressure or temperature control and offers following control modes:

- AUTOADAPT. This function continuously adjusts the proportional-pressure curve and automatically sets a more efficient curve without compromising comfort demands.
- FLOWADAPT. This control mode combines AUTOADAPT with a flow-limiting function. The pump continuously monitors the flow rate to ensure the desired maximum flow is not exceeded. This will save the cost of a separate pump-throttling valve.
- Constant differential pressure. The pump head is kept constant, independent of the flow in the system.
- Proportional pressure. The head of the pump will increase proportionally to the flow in the system to compensate for the large pressure losses in the distribution pipes.
- Constant temperature. The return-pipe temperature is kept constant. Note: If the pump is installed in the flow pipe, an external temperature sensor must be installed in the return pipe of the system.
- Constant differential temperature. The differential temperature can be measured by a differential-temperature sensor or two separate temperature sensors.
- Constant curve. The pump can be set to run at a constant speed in the range of 25 to 100 % of the maximum speed.

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.

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".

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 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".

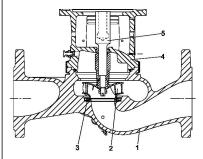
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.



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#### Qty. | Description

#### **Pump**



- 1: Pump housing
- 2: Impeller
- 3: Neck ring
- 4: Pump head/motor stool
- 5: Stub shaft

The pump housing is provided with a replaceable stainless 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 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.

#### Seal faces:

- · 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.

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 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.

The terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-10 V
- one configurable digital input or open-collector output
- Grundfos combined temperature and differential pressure sensor (separate connected)
- 24 V voltage supply for sensors
- two signal relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

#### Further product details

Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

## **Technical data**



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#### Qty. Description

Controls:

Frequency converter: Built-in

Liquid:

Pumped liquid: Water -25 .. 120 °C Liquid temperature range: Selected liquid temperature: 20 °C Density: 998.2 kg/m3

Technical:

Pump speed on which pump data are based: 3000 rpm

Rated flow: 41.9 m<sup>3</sup>/h Rated head: 7.3 m Actual impeller diameter: 90 mm Code for shaft seal: **BQQE** 

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Cast iron

> EN-GJL-250 ASTM class 35

Impeller: Composite PES+30% GF

Installation:

Range of ambient temperature: -20 .. 50 °C Maximum operating pressure: 10 bar

10 bar / 120 °C Max pressure at stated temp:

Type of connection: DIN **DN 100** Size of connection: Pressure rating for connection: PN 10 Port-to-port length: 450 mm Flange size for motor: 56C

Electrical data:

80B Motor type: IE Efficiency class: IE5 Rated power - P2: 1.1 kW Mains frequency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated current: 6.70-5.60 A 0.99

Cos phi - power factor: Rated speed: 360-4000 rpm Efficiency: 86.9%

Motor efficiency at full load: 86.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F

Motor No: 99137987

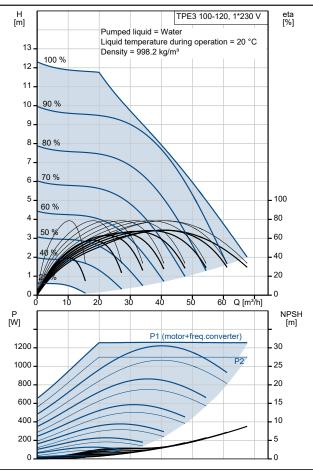
Others:

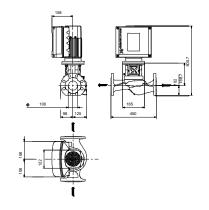
Minimum efficiency index, MEI ≥: 0.70 Net weight: 37.6 kg Gross weight: 46.4 kg Shipping volume: 0.164 m<sup>3</sup> Danish VVS No.: 381605120 Swedish RSK No.: 5745899 Finnish LVI No.: 4616213 Country of origin: HU Custom tariff no .: 84137051

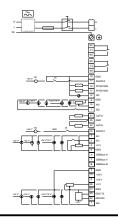


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Description   Value		
Product No: EAN number: On request  Fechnical: Pump speed on which pump data are based: Rated flow: Rated head: Actual impeller diameter: Pump tode for shaft seal: Curve tolerance: Pump housing: Pinstallation: Range of ambient temperature: Maximum operating pressure: 10 bar Max pressure at stated temp: Type of connection: PN 10 Port-to-port length: Flange size for motor: Selected liquid temperature: Quency Density: Pumped liquid: Liquid temperature range: Pump housig: Pump housing: Post. 120 °C Push housing: Post. 120 °C Poensity: Pest-30% GF  Rated over the stated temp: Port-to-port length: Flange size for motor: Selected liquid temperature: Quency Pump housing: Post. 120 °C Poensity: Pumped liquid: Pumped liqu		Value
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Technical:         Pump speed on which pump data are based:           Rated flow:         41.9 m³/h           Rated head:         7.3 m           Maximum head:         120 dm           Actual impeller diameter:         90 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B2           Pump version:         A           Materials:         Pump housing:           Pump housing:         Cast iron           Pump housing:         EN-GJL-250           Pump housing:         ASTM class 35           Impeller:         Composite           Impeller:         PES+30% GF           Material code:         A           Installation:         A           Range of ambient temperature:         -20 50 °C           Maximum operating pressure:         10 bar           Max pressure at stated temp:         10 bar / 120 °C           Type of connection:         DIN           Size of connection:         DN 100           Pressure rating for connection:         PN 10           Port-to-port length:         450 mm           Flange size for motor:         56C           Connect code:         F           Liquid:	Product No:	On request
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Rated flow: 41.9 m³/h Rated head: 7.3 m  Maximum head: 120 dm  Actual impeller diameter: 90 mm  Code for shaft seal: BQQE  Curve tolerance: ISO9906:2012 3B2  Pump version: A  Materials:  Pump housing: Cast iron  Pump housing: EN-GJL-250  Pump housing: EN-GJL-250  Pump housing: ASTM class 35  Impeller: Composite  Impeller: PES+30% GF  Material code: A  Installation:  Range of ambient temperature: -20 50 °C  Maximum operating pressure: 10 bar  Max pressure at stated temp: 10 bar / 120 °C  Type of connection: DIN  Size of connection: DN 100  Pressure rating for connection: PN 10  Port-to-port length: 450 mm  Flange size for motor: 56C  Connect code: F  Liquid: Water  Liquid temperature range: -25 120 °C  Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: 80B  IE Efficiency class: IE5  Rated power - P2: 1.1 kW  Mains frequency: 50 / 60 Hz  Rated voltage: 1 x 200-240 V  Rated current: 6.70-5.60 A  Cos phi - power factor: 0.99  Rated speed: 360-4000 rpm  Efficiency: 86.9%  Motor efficiency at full load: 86.9%  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 34-5): IP55  Insulation class (IEC 35): F  Built-in motor protection: ELEC  Motor No: 99137987  Controls:  Control panel: HMI300 - Graphical  Function Module: FM300 - Advanced  Frequency converter: Others:  Minimum efficiency index, MEI ≥: 0.70	Technical:	
Rated head:         7.3 m           Maximum head:         120 dm           Actual impeller diameter:         90 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B2           Pump version:         A           Materials:         Pump housing:           Pump housing:         ASTM class 35           Impeller:         Composite           Impeller:         PES+30% GF           Material code:         A           Installation:         A           Range of ambient temperature:         -20 50 °C           Maximum operating pressure:         10 bar           Max pressure at stated temp:         10 bar / 120 °C           Type of connection:         DN 100           Pressure rating for connection:         PN 10           Port-to-port length:         450 mm           Flange size for motor:         56C           Connect code:         F           Liquid:         Water           Pumped liquid:         Water           Liquid:         Water           Pumped liquid temperature:         20 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³		3000 rpm
Maximum head:         120 dm           Actual impeller diameter:         90 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B2           Pump version:         A           Materials:         -A           Pump housing:         EN-GJL-250           Pump housing:         EN-GJL-250           Pump housing:         EN-GJL-250           Pump housing:         ASTM class 35           Impeller:         Composite           Impeller:         PES+30% GF           Material code:         A           Installation:         Range of ambient temperature:           Range of ambient temperature:         -20 50 °C           Maximum operating pressure:         10 bar           Max pressure at stated temp:         10 bar / 120 °C           Max pressure at stated temp:         10 bar / 120 °C           Type of connection:         DIN           Size of connection:         DN 100           Pressure rating for connection:         PN 10           Port-to-port length:         450 mm           Flange size for motor:         56C           Connect code:         F           Liquid:         Water           Liquid		41.9 m³/h
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Range of ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:  DIN  Size of connection:  Pressure rating for connection:  Port-to-port length:  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Bie Efficiency class:  Rated power - P2:  Rated voltage:  Rated voltage:  Rated speed:  Cos phi - power factor:  Cos phi - power factor:  Bielt Cas 34-5):  Insulation class (IEC 34-5):  Insulation class (IEC 34-5):  Insulation class (IEC 85):  Built-in motor protection:  Control selected:  Cothers:  Minimum efficiency index, MEI ≥:  Minimum efficiency index, MEI ≥:  Minimum efficiency index, MEI ≥:  O 100  DN 100  Dar / 120 °C  DIN  Water  450 mm  450 mm		Α
Maximum operating pressure: 10 bar   Max pressure at stated temp: 10 bar / 120 °C   Type of connection: DIN   Size of connection: DN 100   Pressure rating for connection: PN 10   Port-to-port length: 450 mm   Flange size for motor: 56C   Connect code: F   Liquid: Water   Pumped liquid: Water   Liquid temperature range: -25 120 °C   Selected liquid temperature: 20 °C   Density: 998.2 kg/m³   Electrical data: Motor type:   Motor type: 80B   IE Efficiency class: IE5   Rated power - P2: 1.1 kW   Mains frequency: 50 / 60 Hz   Rated voltage: 1 x 200-240 V   Rated current: 6.70-5.60 A   Cos phi - power factor: 0.99   Rated speed: 360-4000 rpm   Efficiency: 86.9%   Motor efficiency at full load: 86.9 %   Enclosure class (IEC 34-5): IP55   Insulation class (IEC 85): F   Built-in motor protection: ELEC   Motor No: 99137987   Controls: Controls:   Control panel: HMI300 - Graphical   Function Module: FM300 - Advanced   Frequency converter: Built-in   Others: Minimum efficiency index, MEI ≥: 0.70		
Max pressure at stated temp:10 bar / 120 °CType of connection:DINSize of connection:DN 100Pressure rating for connection:PN 10Port-to-port length:450 mmFlange size for motor:56CConnect code:FLiquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:80BIE Efficiency class:IE5Rated power - P2:1.1 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:6.70-5.60 ACos phi - power factor:0.99Rated speed:360-4000 rpmEfficiency:86.9%Motor efficiency at full load:86.9 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99137987Controls:Controls:Control panel:HMI300 - GraphicalFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70		
Type of connection:  Size of connection:  DN 100  Pressure rating for connection: PN 10  Port-to-port length: Flange size for motor: Connect code: F Liquid: Pumped liquid: Uquid temperature range: Selected liquid temperature: Description: Bate power - P2: Mains frequency: Rated voltage: Rated voltage: Rated speed: Cos phi - power factor: Description: Bate power - Ba		
Size of connection: Pressure rating for connection: Port-to-port length: Flange size for motor: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Petrical data: Motor type: Rated power - P2: Rated voltage: Rated voltage: Rated voltage: Rated speed: Sole and speed: Sole durrent: Sole for Motor of Sole Rated speed: Sole for Hill load: Sole for Sole Sole Sole for Motor of Sole Sole Sole Sole Sole Sole Sole Sole		
Pressure rating for connection: Port-to-port length: Flange size for motor: Connect code: F Liquid: Pumped liquid: Uquid temperature range: Selected liquid temperature: Density: Density: Density: Bated power - P2: Rated power - P2: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Density: Bated speed: Bated		=
Port-to-port length:       450 mm         Flange size for motor:       56C         Connect code:       F         Liquid:       Water         Pumped liquid:       Water         Liquid temperature range:       -25 120 °C         Selected liquid temperature:       20 °C         Density:       998.2 kg/m³         Electrical data:       Motor type:         Motor type:       80B         IE Efficiency class:       IE5         Rated power - P2:       1.1 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       1 x 200-240 V         Rated current:       6.70-5.60 A         Cos phi - power factor:       0.99         Rated speed:       360-4000 rpm         Efficiency:       86.9%         Motor efficiency at full load:       86.9 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99137987         Controls:       Controls:         Control panel:       HMI300 - Graphical         Function Module:       FM300 - Advanced         Frequency converter:       Built-in <td></td> <td></td>		
Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Blectrical data:  Motor type:  BEFficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated voltage:  Rated current:  Cos phi - power factor:  Befficiency:  Motor efficiency at full load:  Enclosure class (IEC 34-5):  Built-in motor protection:  Controls:  Control panel:  FM300 - Advanced  Frequency converter:  Minimum efficiency index, MEI ≥:  Mater	_	
Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Blectrical data:  Motor type:  Befficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated voltage:  Rated current:  Cos phi - power factor:  Befficiency:  Motor efficiency at full load:  Befficiency:  Motor efficiency at full load:  Beficiency:  Built-in motor protection:  Belec  Beficiency:  Built-in motor protection:  Built-in motor protection:  Built-in motor protection:  Built-in motor panel:  Function Module:  Fination Module:  Fi		
Liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:80BMotor type:80BIE Efficiency class:IE5Rated power - P2:1.1 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:6.70-5.60 ACos phi - power factor:0.99Rated speed:360-4000 rpmEfficiency:86.9%Motor efficiency at full load:86.9 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99137987Controls:Controls:Control panel:HMI300 - GraphicalFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70		
Pumped liquid:  Liquid temperature range: Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Mains frequency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated current: 6.70-5.60 A  Cos phi - power factor: 998 Rated speed: 360-4000 rpm Efficiency: 86.9% Motor efficiency at full load: 86.9 % Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: ELEC Motor No: 99137987  Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		Г
Liquid temperature range:  Selected liquid temperature:  Density:  998.2 kg/m³  Electrical data:  Motor type:  80B  IE Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  1 x 200-240 V  Rated current:  6.70-5.60 A  Cos phi - power factor:  Rated speed:  360-4000 rpm  Efficiency:  86.9%  Motor efficiency at full load:  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  Built-in motor protection:  Motor No:  99137987  Controls:  Control panel:  Function Module:  Frequency converter:  Built-in  Others:  Minimum efficiency index, MEI ≥:  0.70	•	Water
Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: 80B  IE Efficiency class: IE5  Rated power - P2: 1.1 kW  Mains frequency: 50 / 60 Hz  Rated voltage: 1 x 200-240 V  Rated current: 6.70-5.60 A  Cos phi - power factor: 0.99  Rated speed: 360-4000 rpm  Efficiency: 86.9%  Motor efficiency at full load: 86.9 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor No: 99137987  Controls:  Control panel: HMI300 - Graphical  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70		
Density:         998.2 kg/m³           Electrical data:         80B           IE Efficiency class:         IE5           Rated power - P2:         1.1 kW           Mains frequency:         50 / 60 Hz           Rated voltage:         1 x 200-240 V           Rated current:         6.70-5.60 A           Cos phi - power factor:         0.99           Rated speed:         360-4000 rpm           Efficiency:         86.9%           Motor efficiency at full load:         86.9 %           Enclosure class (IEC 34-5):         IP55           Insulation class (IEC 85):         F           Built-in motor protection:         ELEC           Motor No:         99137987           Controls:         Controls:           Control panel:         HMI300 - Graphical           Function Module:         FM300 - Advanced           Frequency converter:         Built-in           Others:           Minimum efficiency index, MEI ≥:         0.70	, , , , , , , , , , , , , , , , , , , ,	
Electrical data:         Motor type:       80B         IE Efficiency class:       IE5         Rated power - P2:       1.1 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       1 x 200-240 V         Rated current:       6.70-5.60 A         Cos phi - power factor:       0.99         Rated speed:       360-4000 rpm         Efficiency:       86.9%         Motor efficiency at full load:       86.9 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99137987         Controls:       Controls:         Control panel:       HMI300 - Graphical         Function Module:       FM300 - Advanced         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70		
Motor type:       80B         IE Efficiency class:       IE5         Rated power - P2:       1.1 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       1 x 200-240 V         Rated current:       6.70-5.60 A         Cos phi - power factor:       0.99         Rated speed:       360-4000 rpm         Efficiency:       86.9%         Motor efficiency at full load:       86.9 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99137987         Controls:       Controls:         Control panel:       HMI300 - Graphical         Function Module:       FM300 - Advanced         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70		
IE Efficiency class:       IE5         Rated power - P2:       1.1 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       1 x 200-240 V         Rated current:       6.70-5.60 A         Cos phi - power factor:       0.99         Rated speed:       360-4000 rpm         Efficiency:       86.9%         Motor efficiency at full load:       86.9 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99137987         Controls:       Controls:         Control panel:       HMI300 - Graphical         Function Module:       FM300 - Advanced         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70		80B
Rated power - P2:       1.1 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       1 x 200-240 V         Rated current:       6.70-5.60 A         Cos phi - power factor:       0.99         Rated speed:       360-4000 rpm         Efficiency:       86.9%         Motor efficiency at full load:       86.9 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99137987         Controls:       Control panel:         Function Module:       FM300 - Graphical         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70		
Mains frequency:       50 / 60 Hz         Rated voltage:       1 x 200-240 V         Rated current:       6.70-5.60 A         Cos phi - power factor:       0.99         Rated speed:       360-4000 rpm         Efficiency:       86.9%         Motor efficiency at full load:       86.9 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99137987         Controls:       Control panel:         Function Module:       FM300 - Graphical         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70	_	
Rated voltage:       1 x 200-240 V         Rated current:       6.70-5.60 A         Cos phi - power factor:       0.99         Rated speed:       360-4000 rpm         Efficiency:       86.9%         Motor efficiency at full load:       86.9 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99137987         Controls:       Control panel:         Function Module:       FM300 - Graphical         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70	•	
Rated current: 6.70-5.60 A  Cos phi - power factor: 0.99  Rated speed: 360-4000 rpm  Efficiency: 86.9%  Motor efficiency at full load: 86.9 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor No: 99137987  Controls:  Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70		1 x 200-240 V
Cos phi - power factor:  Rated speed:  Signature 360-4000 rpm  Efficiency:  Motor efficiency at full load:  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  Built-in motor protection:  Motor No:  99137987  Controls:  Control panel:  Function Module:  Frequency converter:  Built-in  Others:  Minimum efficiency index, MEI ≥:  0.70	9	
Rated speed: 360-4000 rpm  Efficiency: 86.9%  Motor efficiency at full load: 86.9 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor No: 99137987  Controls:  Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70	Cos phi - power factor:	0.99
Efficiency: 86.9%  Motor efficiency at full load: 86.9 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor No: 99137987  Controls:  Control panel: HMI300 - Graphical  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70	• •	360-4000 rpm
Motor efficiency at full load:  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  Built-in motor protection:  Motor No:  99137987  Controls:  Control panel:  HMI300 - Graphical  Function Module:  Frequency converter:  Built-in  Others:  Minimum efficiency index, MEI ≥:  0.70	•	•
Enclosure class (IEC 34-5): Insulation class (IEC 85):  Built-in motor protection:  ELEC  Motor No: 99137987  Controls:  Control panel:  HMI300 - Graphical  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70		86.9 %
Insulation class (IEC 85):  Built-in motor protection:  Motor No:  99137987  Controls:  Control panel:  HMI300 - Graphical  Function Module:  Frequency converter:  Built-in  Others:  Minimum efficiency index, MEI ≥:  0.70		IP55
Built-in motor protection: ELEC  Motor No: 99137987  Controls:  Control panel: HMI300 - Graphical  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70		F
Motor No: 99137987  Controls:  Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70		ELEC
Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70		99137987
Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70	Controls:	
Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70	Control panel:	HMI300 - Graphical
Others: Minimum efficiency index, MEI ≥: 0.70	Function Module:	FM300 - Advanced
Minimum efficiency index, MEI ≥: 0.70	Frequency converter:	Built-in
	Others:	
Net weight: 37.6 kg	Minimum efficiency index, MEI ≥:	0.70
	Net weight:	37.6 kg









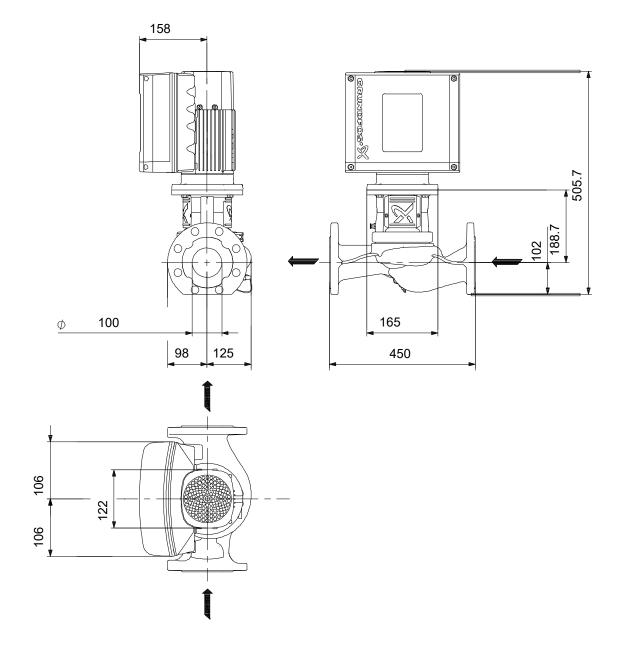
**Date:** 16/06/2022

Description	Value
Gross weight:	46.4 kg
Shipping volume:	0.164 m³
Config. file no:	98481411
Danish VVS No.:	381605120
Swedish RSK No.:	5745899
Finnish LVI No.:	4616213
Country of origin:	HU
Custom tariff no.:	84137051



16/06/2022 Date:

# On request TPE3 100-120 S-A-F-A-BQQE-GAB

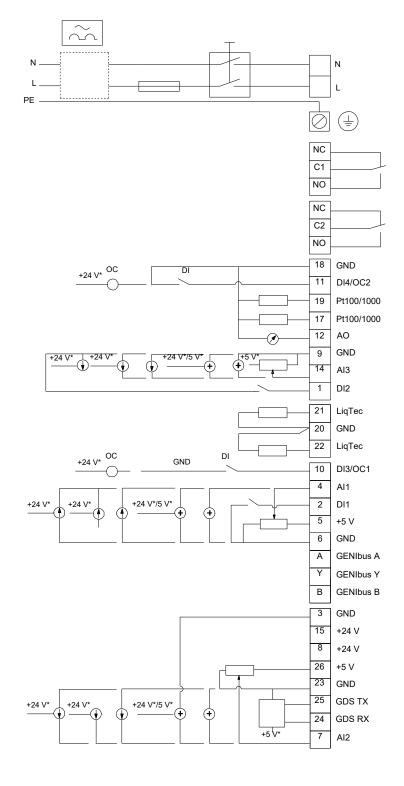


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 16/06/2022

# On request TPE3 100-120 S-A-F-A-BQQE-GAB



Note! All units are in [mm] unless others are stated.



**Date:** 16/06/2022

Order Data:

Product name: TPE3 100-120

Amount: 1

Product No: On request

Total: Price on request