

**Date:** 16/06/2022

### Qty. | Description

1 TPE3 100-40 S-A-F-A-BQQE-CAA



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".

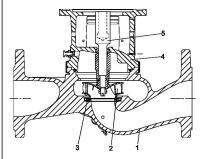
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.



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

Technical:

Pump speed on which pump data are based: 1860 rpm

Rated flow: 24.4 m³/h
Rated head: 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

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

Type of connection:

Size of connection:

Pressure rating for connection:

Port-to-port length:

Flange size for motor:

DIN

DN 100

PN 10

450 mm

56C

Electrical data:

Motor type: 71A
IE Efficiency class: IE5
Rated power - P2: 0.25 kW
Mains frequency: 50 / 60 Hz
Rated voltage: 1 x 200-240 V
Rated current: 1.65-1.40 A
Cos phi - power factor: 0.95

Rated speed: 180-2000 rpm

Efficiency: 83.4%
Motor efficiency at full load: 83.4 %
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 99137977

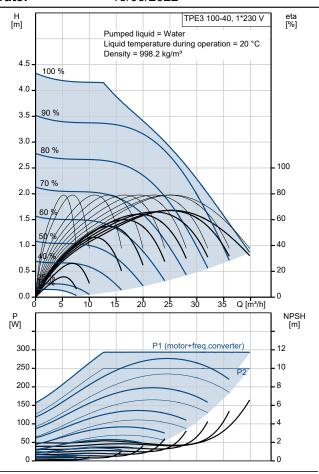
Others:

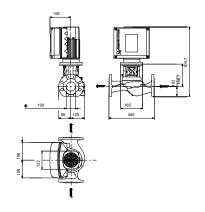
Minimum efficiency index, MEI ≥: 0.70 Net weight: 36.8 kg Gross weight: 45.6 kg Shipping volume: 0.164 m<sup>3</sup> Danish VVS No.: 381605040 Swedish RSK No.: 5745897 Finnish LVI No.: 4616212 Country of origin: HU Custom tariff no .: 84137051

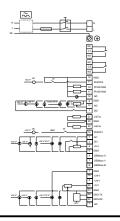


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Description         Value           General information:         TPE3 100-40 S-A-F-A-BQQE-CAA           Product No:         On request           EAN number:         On request           Technical:         On request           Pump speed on which pump data are based:         1860 rpm           Rated flow:         24.4 m²/h           Rated head:         3 m           Maximum head:         40 dm           Actual impeller diameter:         90 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B2           Pump version:         A           Materials:         Pump bousing:           Pump housing:         Cast iron           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           Type of connection:         DN 100           Pressure rating for connection:         PN 10		
Product name: TPE3 100-40	Description	Value
Product No: On request EAN number: On request Technical: Pump speed on which pump data are based: Rated flow: 24.4 m³/h Rated head: 3 m Maximum head: 40 dm Actual impeller diameter: 90 mm Code for shaft seal: BCQE 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: DN 100 Pressure rating for connection: PN 10 Port-to-port length: 450 mm Flange size for motor: 56C Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.25 kW Mains frequency: 50 / 60 Hz Rated speed: 180-2000 rpm Efficiency: 43.4% Motor efficiency at full load: 83.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 34-5): IP55 Insulation notor protection: ELEC		
EAN number: On request  Technical: Pump speed on which pump data are based: Rated flow: 24.4 m³/h Rated head: 3 m Maximum head: 40 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: 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: 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 ange: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.25 kW Mains frequency: 50 / 60 Hz Rated voltage: 1x 200-240 V Rated current: 1.65-1.40 A Cos phi - power factor: 0.95 Rated speed: 180-2000 rpm Efficiency: 83.4% Motor efficiency at full load: 83.4 % Enclosure class (IEC 34-5): IP55 Insulation notor protection: ELEC	Product name:	TPE3 100-40 S-A-F-A-BQQE-CAA
Technical:  Pump speed on which pump data are based:  Rated flow: 24.4 m³/h  Rated head: 3 m  Maximum head: 40 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: 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:  Pumped liquid temperature: 20 °C  Selected liquid temperature: 20 °C  Rated your - P2: 0.25 kW  Mains frequency: 50 / 60 Hz  Rated voltage: 1 x 200-240 V  Rated voltage: 1 x 200-240 V  Rated speed: 180-2000 rpm  Efficiency: 33.4%  Motor efficiency at full load: 83.4 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC	Product No:	On request
Pump speed on which pump data are based:         1860 rpm           Rated flow:         24.4 m³/h           Rated head:         3 m           Maximum head:         40 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:         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           Max pressure at stated temp:         10 bar / 120 °C           Max pressure rating for 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           <	EAN number:	On request
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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: 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:  Pumped liquid: Water  Liquid temperature range: -25 120 °C  Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: 71A  IE Efficiency class: IE5  Rated power - P2: 0.25 kW  Mains frequency: 50 / 60 Hz  Rated voltage: 1 x 200-240 V  Rated current: 1.65-1.40 A  Cos phi - power factor: 0.95  Rated speed: 180-2000 rpm  Efficiency: 83.4%  Motor efficiency at full load: 83.4 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC	110100110001	* ···
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Type of connection:  Size of connection:  DIN 100  Pressure rating for connection:  Port-to-port length:  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Density:  Flange size for motor:  Selected liquid temperature:  Density:  Selected liquid temperature:  Density:  Pumped liquid temperature:  20 °C  Selected liquid temperature:  Density:  Flectrical data:  Motor type:  T1A  IE Efficiency class:  Rated power - P2:  D.25 kW  Mains frequency:  Rated voltage:  Rated voltage:  Rated voltage:  Rated current:  DIN  100  PN 10  PN 10  PN 10  PN 10  Flange size for motor:  50 °C  Selected liquid temperature:  20 °C  Density:  998.2 kg/m³  Flectrical data:  Motor type:  11A  12B  12B  13B  13B  13B  13B  13B  13B		. •
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: Density: Petertical data: Motor type: Fated power - P2: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency at full load: Efficiency class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection:  DN 100 PN 10 PN 1		
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: Density: Perfect ficiency class: Rated power - P2: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency at full load: Efficiency class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection:  PN 10 450 mm 450 mm 450 mm 450 mm  Water  Late Vater  F  Vater Va		
Port-to-port length: 450 mm  Flange size for motor: 56C  Connect code: F  Liquid:  Pumped liquid: Water  Liquid temperature range: -25 120 °C  Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: 71A  IE Efficiency class: IE5  Rated power - P2: 0.25 kW  Mains frequency: 50 / 60 Hz  Rated voltage: 1 x 200-240 V  Rated current: 1.65-1.40 A  Cos phi - power factor: 0.95  Rated speed: 180-2000 rpm  Efficiency: 83.4%  Motor efficiency at full load: 83.4 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC		
Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Pumped liquid temperature:  20 °C  Selected liquid temperature:  Motor type:  T1A  IE Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated voltage:  Rated current:  1.65-1.40 A  Cos phi - power factor:  Rated speed:  Efficiency at full load:  83.4 %  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  Built-in motor protection:  EES  Rated Water  F  Built-in motor protection:  56C  Cos C  P  Rater  F  Liquid:  Water  F  1.20 °C  CO  CO  CO  CO  CO  CO  CO  CO  CO	_	* * * * * *
Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Pumped liquid temperature:  20 °C  Selected liquid temperature:  Density:  Page 20 °C  Density:  Page 20 °C  Density:  Belectrical data:  Motor type:  T1A  IE Efficiency class:  Rated power - P2:  Mains frequency:  Mains frequency:  T1A  IE 5  Rated power - P2:  Mains frequency:  T1A  IE 5  Rated power - P2:  Mains frequency:  T1A  IE 5  Rated power - P2:  Mains frequency:  T1A  IE 5  Rated power - P2:  Mains frequency:  T1A  IE 5  Rated power - P2:  Mains frequency:  T1A  IE 5  Rated power - P2:  Mains frequency:  T20 - 240 V  Rated current:  T1.65-1.40 A  Cos phi - power factor:  D.95  Rated speed:  T180-2000 rpm  Efficiency:  T20 - 25  T2		
Liquid: Pumped liquid: Uniquid temperature range: Selected liquid temperature: Density: Density: Pumped liquid temperature: Selected liquid temperature: Density: Selectrical data: Motor type: T1A  IE Efficiency class: Rated power - P2: Density: Selectrical data:  Motor type: T1A  IE 5  Rated power - P2: Density: Selectrical data:  Motor type: T1A  IE 5  Rated power - P2: Density: Selectrical data:  Motor type: T1A  IE 5  Rated power - P2: Density: Selectrical data:  Motor efficiency: Selectrical data: Selectric		
Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³  Electrical data:  Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.25 kW Mains frequency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated current: 1.65-1.40 A Cos phi - power factor: 0.95 Rated speed: 180-2000 rpm Efficiency: 83.4% Motor efficiency at full load: 83.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC		•
Liquid temperature range:  Selected liquid temperature:  Density:  998.2 kg/m³  Electrical data:  Motor type:  The Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated current:  Cos phi - power factor:  Rated speed:  Efficiency:  Basa 4 %  Enclosure class (IEC 34-5):  IP55  Insulation class (IEC 85):  Built-in motor protection:  ELEC	-	Water
Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         71A           Motor type:         71A           IE Efficiency class:         IE5           Rated power - P2:         0.25 kW           Mains frequency:         50 / 60 Hz           Rated voltage:         1 x 200-240 V           Rated current:         1.65-1.40 A           Cos phi - power factor:         0.95           Rated speed:         180-2000 rpm           Efficiency:         83.4%           Motor efficiency at full load:         83.4 %           Enclosure class (IEC 34-5):         IP55           Insulation class (IEC 85):         F           Built-in motor protection:         ELEC		-25 120 °C
Density:         998.2 kg/m³           Electrical data:         71A           Motor type:         71A           IE Efficiency class:         IE5           Rated power - P2:         0.25 kW           Mains frequency:         50 / 60 Hz           Rated voltage:         1 x 200-240 V           Rated current:         1.65-1.40 A           Cos phi - power factor:         0.95           Rated speed:         180-2000 rpm           Efficiency:         83.4%           Motor efficiency at full load:         83.4 %           Enclosure class (IEC 34-5):         IP55           Insulation class (IEC 85):         F           Built-in motor protection:         ELEC		
Electrical data:           Motor type:         71A           IE Efficiency class:         IE5           Rated power - P2:         0.25 kW           Mains frequency:         50 / 60 Hz           Rated voltage:         1 x 200-240 V           Rated current:         1.65-1.40 A           Cos phi - power factor:         0.95           Rated speed:         180-2000 rpm           Efficiency:         83.4%           Motor efficiency at full load:         83.4 %           Enclosure class (IEC 34-5):         IP55           Insulation class (IEC 85):         F           Built-in motor protection:         ELEC		998.2 kg/m³
IE Efficiency class:		<u> </u>
IE Efficiency class:	Motor type:	71A
Mains frequency: 50 / 60 Hz  Rated voltage: 1 x 200-240 V  Rated current: 1.65-1.40 A  Cos phi - power factor: 0.95  Rated speed: 180-2000 rpm  Efficiency: 83.4%  Motor efficiency at full load: 83.4 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC	* *	IE5
Rated voltage: 1 x 200-240 V Rated current: 1.65-1.40 A Cos phi - power factor: 0.95 Rated speed: 180-2000 rpm Efficiency: 83.4% Motor efficiency at full load: 83.4 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC	Rated power - P2:	0.25 kW
Rated current: 1.65-1.40 A  Cos phi - power factor: 0.95  Rated speed: 180-2000 rpm  Efficiency: 83.4%  Motor efficiency at full load: 83.4 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC	Mains frequency:	50 / 60 Hz
Cos phi - power factor:  Rated speed:  Efficiency:  Motor efficiency at full load:  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  Built-in motor protection:  0.95  83.4%  83.4%  IP55  F  ELEC	Rated voltage:	1 x 200-240 V
Rated speed: 180-2000 rpm  Efficiency: 83.4%  Motor efficiency at full load: 83.4 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC	Rated current:	1.65-1.40 A
Efficiency: 83.4%  Motor efficiency at full load: 83.4 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC	Cos phi - power factor:	0.95
Motor efficiency at full load: 83.4 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC	Rated speed:	180-2000 rpm
Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC	Efficiency:	83.4%
Insulation class (IEC 85): F Built-in motor protection: ELEC	Motor efficiency at full load:	83.4 %
Built-in motor protection: ELEC	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
Motor No: 99137977	Built-in motor protection:	ELEC
55.01011	Motor No:	99137977
Controls:	Controls:	
Control panel: HMI300 - Graphical	Control panel:	HMI300 - Graphical
Function Module: FM300 - Advanced	Function Module:	FM300 - Advanced
Frequency converter: Built-in	Frequency converter:	Built-in
Others:	Others:	
Minimum efficiency index, MEI ≥: 0.70		0.70
Net weight: 36.8 kg	Net weight:	36.8 kg









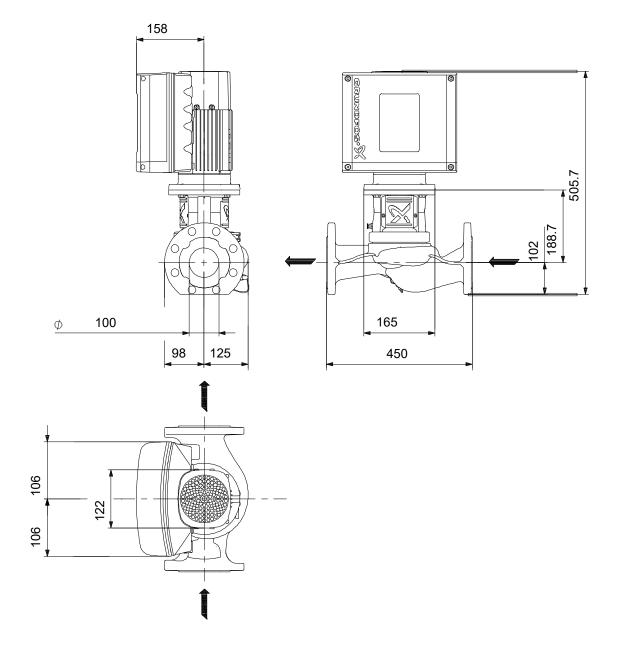
**Date:** 16/06/2022

Description	Value
Gross weight:	45.6 kg
Shipping volume:	0.164 m³
Config. file no:	98481410
Danish VVS No.:	381605040
Swedish RSK No.:	5745897
Finnish LVI No.:	4616212
Country of origin:	HU
Custom tariff no.:	84137051



16/06/2022 Date:

# On request TPE3 100-40 S-A-F-A-BQQE-CAA

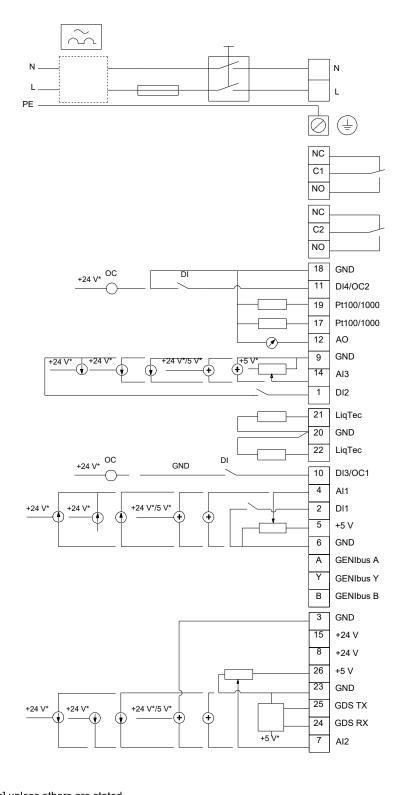


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 16/06/2022

## On request TPE3 100-40 S-A-F-A-BQQE-CAA



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



**Date:** 16/06/2022

Order Data:

Product name: TPE3 100-40

Amount: 1

Product No: On request

Total: Price on request