

Date: 05/08/2022

Qty. | Description

TPE3 40-150 S-A-F-I-BQQE-EDB



Note! Product picture may differ from actual product

Product No.: 98416544

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 6/10 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 stainless-steel pump housing makes the pump suitable for circulation of hot water.

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".

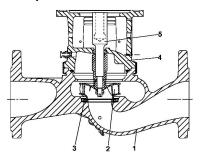


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Qty. | Description

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.

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



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Technical data

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: 3900 rpm

Rated flow: 16.1 m³/h
Rated head: 9.3 m
Actual impeller diameter: 74 mm
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Impeller:

Pump housing: Stainless steel

EN 1.4308 ASTM CF8 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 40

PN 6/10

250 mm

Flange size for motor:

56C

Electrical data:

Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9%

Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F

Motor No: 99137999

Others:

Minimum efficiency index, MEI ≥: 0.70 Net weight: 24.7 kg



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 Gross weight:
 32.2 kg

 Shipping volume:
 0.104 m³

 Danish VVS No.:
 382151150

 Finnish LVI No.:
 4616327

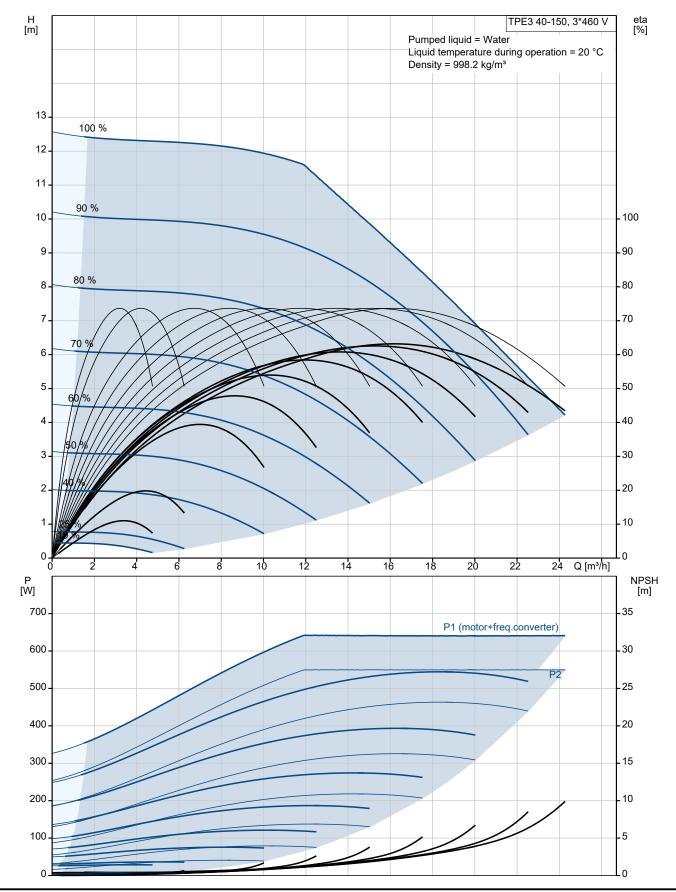
 Country of origin:
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 Custom tariff no.:
 84137051



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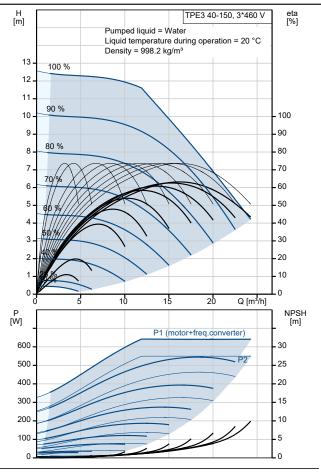
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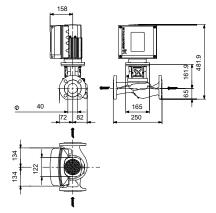


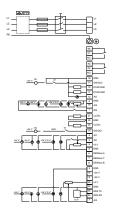


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Description			
Product No: 98416544 EAN number: 5711494653010 Technical: Pump speed on which pump data are based: 3900 rpm Rated flow: 16.1 m³/h Rated head: 9.3 m Maximum head: 150 dm Actual impeller diameter: 74 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump housing: A Materials: Pump housing: Stainless steel Pump housing: EN 1.4308 Pump housing: ASTM CF8 Impeller: Composite Impeller: PES+30% GF Material code: I I I I I I I I I I I I I I I I I I I	Description	Value	
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Port-to-port length: 250 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: Wotor type: Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated voltage: 3 x 380-500 V Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: HMI300 - Graphical Function Module:		=	
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: 0.55 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	_		
Connect code:FLiquid:WaterPumped liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:71AMotor type:71AIE Efficiency class:IE5Rated power - P2:0.55 kWMains frequency:50 / 60 HzRated voltage:3 x 380-500 VRated current:1.35-1.30 ACos phi - power factor:0.77-0.61Rated speed:360-4000 rpmEfficiency:85.9%Motor efficiency at full load:85.9 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99137999Controls:Controls:Control panel:HMI300 - GraphicalFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70			
Liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:71AMotor type:71AIE Efficiency class:IE5Rated power - P2:0.55 kWMains frequency:50 / 60 HzRated voltage:3 x 380-500 VRated current:1.35-1.30 ACos phi - power factor:0.77-0.61Rated speed:360-4000 rpmEfficiency:85.9 %Motor efficiency at full load:85.9 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99137999Controls: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: Density: Pumped liquid: Selected liquid temperature: Density: Page 20 °C Density: Blectrical data: Motor type: T1A 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): Built-in motor protection: Motor No: Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		F	
Liquid temperature range: Selected liquid temperature: Density: Pelectrical data: Motor type: Fated power - P2: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency at full load: Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Control panel: Function Module: Findau Yell 20 °C Page 20 °C Page 21 °C Page 21 °C Page 21 °C Page 22 °C Page 22 °C Page 23 °C Page 24 °C Page 24 °C Page 25 °C Page 26 °C Page 26 °C Page 26 °C Page 27 °C Page 27 °C Page 27 °C Page 27 °C Page 28 °C Page 29 °C Page 20 °	•	Water	
Selected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:71AMotor type:71AIE Efficiency class:IE5Rated power - P2:0.55 kWMains frequency:50 / 60 HzRated voltage:3 x 380-500 VRated current:1.35-1.30 ACos phi - power factor:0.77-0.61Rated speed:360-4000 rpmEfficiency:85.9%Motor efficiency at full load:85.9 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99137999Controls:Control panel:HMI300 - GraphicalFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70			
Density: 998.2 kg/m³ Electrical data: 71A Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70			
Electrical data: Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70			
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IE Efficiency class:		71A	
Rated power - P2: 0.55 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 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: 3 x 380-500 V Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: Function Module: FM300 - Graphical Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	•	0.55 kW	
Rated voltage: 3 x 380-500 V Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: Function Module: FM300 - Graphical Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	•	50 / 60 Hz	
Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		3 x 380-500 V	
Rated speed: 360-4000 rpm Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Rated current:	1.35-1.30 A	
Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Cos phi - power factor:	0.77-0.61	
Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Rated speed:	360-4000 rpm	
Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Motor No: 99137999 Controls: Control panel: Function Module: Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		<u>'</u>	
Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: Function Module: Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Motor efficiency at full load:	85.9 %	
Insulation class (IEC 85): Built-in motor protection: Motor No: 99137999 Controls: Control panel: Function Module: Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		IP55	
Built-in motor protection: ELEC Motor No: 99137999 Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		F	
Motor No: 99137999 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	-	99137999	
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: 24.7 kg	Minimum efficiency index, MEI ≥:	0.70	
	Net weight:	24.7 kg	









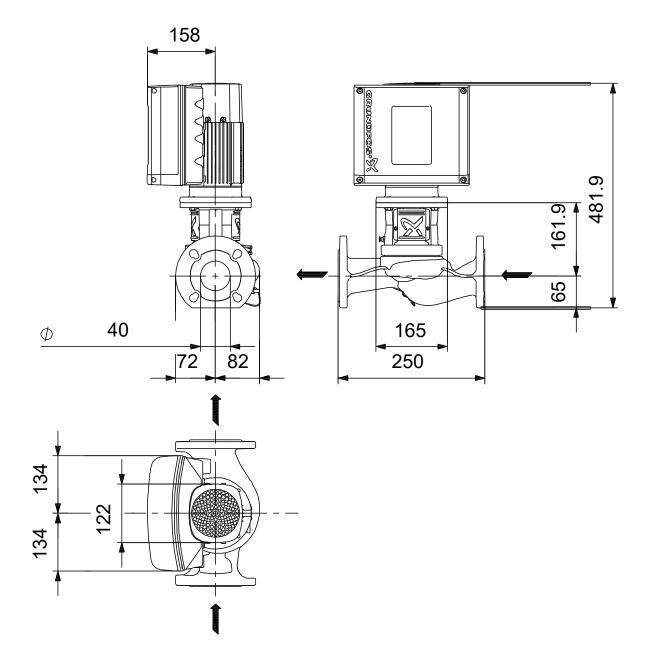
Date: 05/08/2022

Description	Value
Gross weight:	32.2 kg
Shipping volume:	0.104 m³
Config. file no:	98484775
Danish VVS No.:	382151150
Finnish LVI No.:	4616327
Country of origin:	HU
Custom tariff no.:	84137051



05/08/2022 Date:

98416544 TPE3 40-150 S-A-F-I-BQQE-EDB

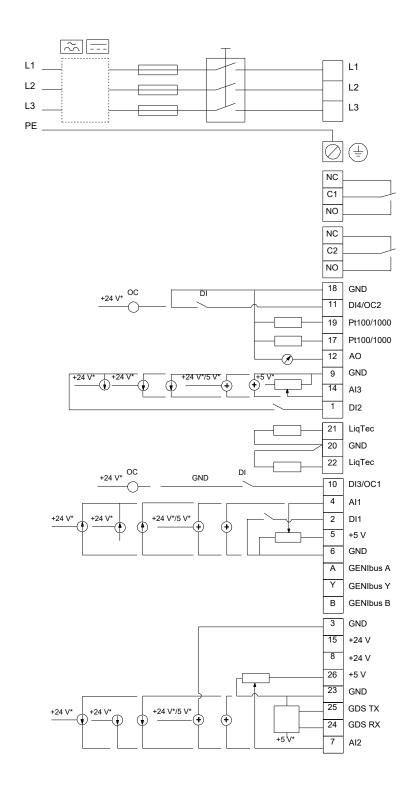


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 05/08/2022

98416544 TPE3 40-150 S-A-F-I-BQQE-EDB



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



Date: 05/08/2022

Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		TPE3 40-150	1	98416544	Price on request
					<u>'</u>