

Date: 05/08/2022

Qty. | Description

TPE2 50-240 N-A-F-A-BQQE-IDC



Note! Product picture may differ from actual product

Product No.: 98437897

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 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.

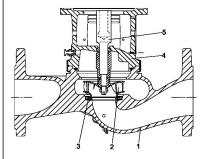
An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "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 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.

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.



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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.

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

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: 5500 rpm

Rated flow: 33.1 m³/h
Rated head: 19.6 m
Actual impeller diameter: 74 mm
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35 Composite

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



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Type of connection: DIN
Size of connection: DN 50
Pressure rating for connection: PN 6/10
Port-to-port length: 280 mm
Flange size for motor: 56C

Electrical data:

Motor type: 90LC IE Efficiency class: IE5 Rated power - P2: 2.2 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 4.35-3.55 A Cos phi - power factor: 0.91-0.85 Rated speed: 480-5900 rpm Efficiency: 90.1%

Efficiency: 90.1%

Motor efficiency at full load: 90.1 %

Enclosure class (IEC 34-5): IP55

Insulation class (IEC 85): F

Motor No: 99138046

Others:

Minimum efficiency index, MEI ≥: 0.70

Net weight: 29.1 kg

Gross weight: 36.3 kg

Shipping volume: 0.104 m³

Finnish LVI No.: 4616298

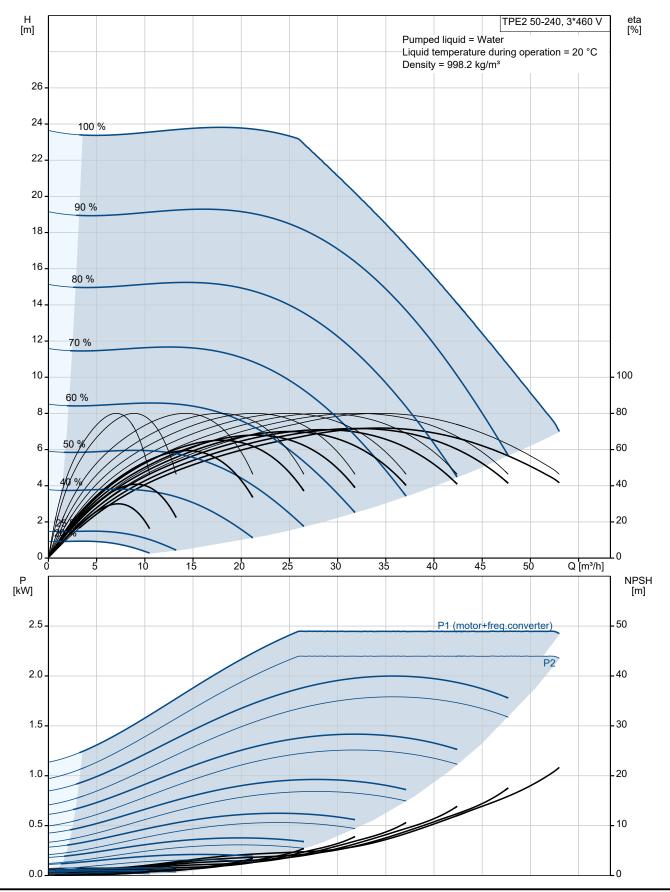
Country of origin: HU

Custom tariff no.: 84137051



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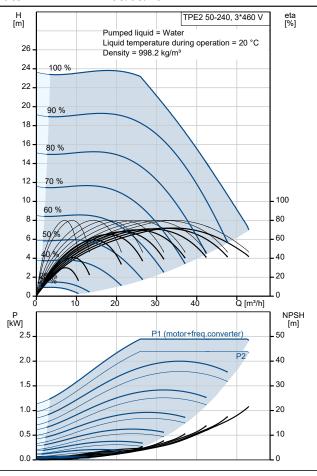
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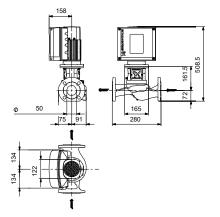


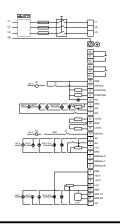


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Description				
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Selected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:90LCMotor type:90LCIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 / 60 HzRated voltage:3 x 380-500 VRated current:4.35-3.55 ACos phi - power factor:0.91-0.85Rated speed:480-5900 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99138046Controls:Control panel:HMI200 - StandardFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70		-25 120 °C		
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Electrical data: Motor type: 90LC IE Efficiency class: IE5 Rated power - P2: 2.2 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 4.35-3.55 A Cos phi - power factor: 0.91-0.85 Rated speed: 480-5900 rpm Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		998.2 kg/m³		
IE Efficiency class: IE5 Rated power - P2: 2.2 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 4.35-3.55 A Cos phi - power factor: 0.91-0.85 Rated speed: 480-5900 rpm Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		<u> </u>		
IE Efficiency class: IE5 Rated power - P2: 2.2 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 4.35-3.55 A Cos phi - power factor: 0.91-0.85 Rated speed: 480-5900 rpm Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Motor type:	90LC		
Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 4.35-3.55 A Cos phi - power factor: 0.91-0.85 Rated speed: 480-5900 rpm Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	**	IE5		
Rated voltage: 3 x 380-500 V Rated current: 4.35-3.55 A Cos phi - power factor: 0.91-0.85 Rated speed: 480-5900 rpm Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70		2.2 kW		
Rated current: 4.35-3.55 A Cos phi - power factor: 0.91-0.85 Rated speed: 480-5900 rpm Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Mains frequency:	50 / 60 Hz		
Cos phi - power factor: Rated speed: ### 480-5900 rpm Efficiency: 90.1% Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): #### Built-in motor protection: #### ELEC #### Motor No: ### 99138046 #### Controls: Control panel: #### HMI200 - Standard #### Function Module: #### FM300 - Advanced ##### Frequency converter: #### Built-in ##### Others: ###################################	Rated voltage:	3 x 380-500 V		
Rated speed: 480-5900 rpm Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Rated current:	4.35-3.55 A		
Efficiency: 90.1% Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Cos phi - power factor:	0.91-0.85		
Motor efficiency at full load: 90.1 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Rated speed:	480-5900 rpm		
Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor No: 99138046 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Efficiency:	90.1%		
Insulation class (IEC 85): Built-in motor protection: Motor No: 99138046 Controls: Control panel: Function Module: Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Motor efficiency at full load:	90.1 %		
Built-in motor protection: Motor No: 99138046 Controls: Control panel: Function Module: Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Enclosure class (IEC 34-5):	IP55		
Motor No: 99138046 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Insulation class (IEC 85):	F		
Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Built-in motor protection:	ELEC		
Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Motor No:	99138046		
Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70				
Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Control panel:	HMI200 - Standard		
Others: Minimum efficiency index, MEI ≥: 0.70	Function Module:	FM300 - Advanced		
Minimum efficiency index, MEI ≥: 0.70	Frequency converter:	Built-in		
	Others:			
Net weight: 29.1 kg	Minimum efficiency index, MEI ≥:			
	Net weight:	29.1 kg		









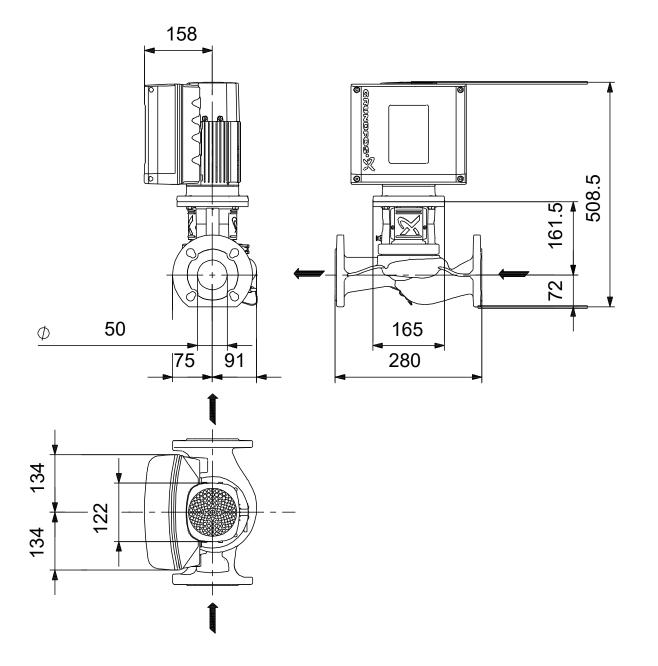
Date: 05/08/2022

Description	Value
Gross weight:	36.3 kg
Shipping volume:	0.104 m³
Config. file no:	98819282
Finnish LVI No.:	4616298
Country of origin:	HU
Custom tariff no.:	84137051



05/08/2022 Date:

98437897 TPE2 50-240 N-A-F-A-BQQE-IDC

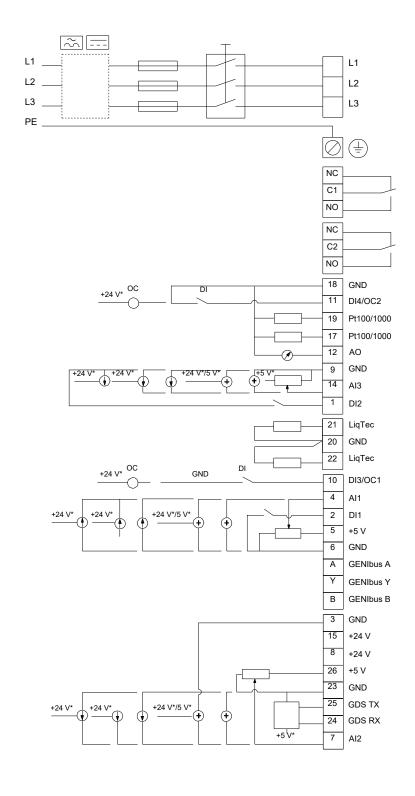


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 05/08/2022

98437897 TPE2 50-240 N-A-F-A-BQQE-IDC



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
		TPE2 50-240	1	98437897	Price on request
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