

**Date:** 05/08/2022

#### Qty. | Description

TPE2 50-60 N-A-F-A-BQQE-DDB



Note! Product picture may differ from actual product

Product No.: 98437891

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.

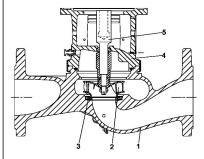
An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "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: 2500 rpm

Rated flow: 16.3 m³/h
Rated head: 3.9 m
Actual impeller diameter: 74 mm
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Impeller:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35 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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### Qty. | Description

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: 71A IE Efficiency class: IE5 Rated power - P2: 0.37 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 1.05-1.00 A Cos phi - power factor: 0.68-0.54 Rated speed: 360-4000 rpm Efficiency: 84.5%

Efficiency: 84.5%

Motor efficiency at full load: 84.5 %

Enclosure class (IEC 34-5): IP55

Insulation class (IEC 85): F

Motor No: 99138015

Others:

Minimum efficiency index, MEI ≥: 0.70

Net weight: 26.4 kg

Gross weight: 33.6 kg

Shipping volume: 0.104 m³

Finnish LVI No.: 4616292

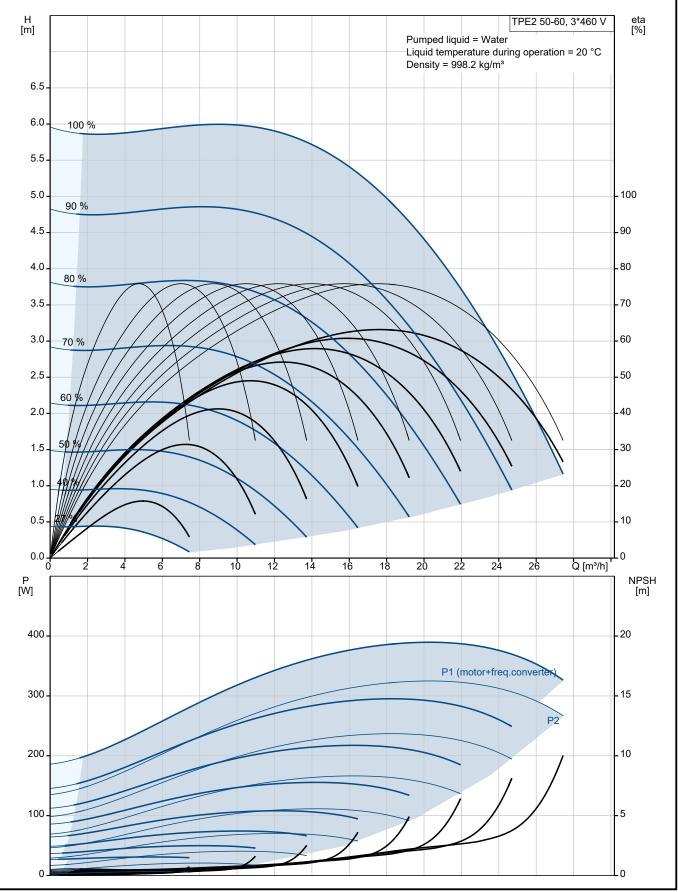
Country of origin: HU

Custom tariff no.: 84137051



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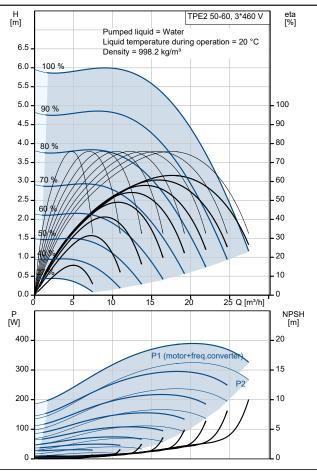
## 98437891 TPE2 50-60 N-A-F-A-BQQE-DDB

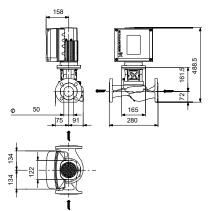


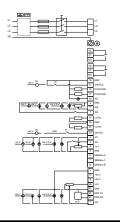


**Date:** 05/08/2022

Description				
Product name:	Description	Value		
Product No: 98437891 EAN number: 5711495010874  Technical:  Pump speed on which pump data are based:  Rated flow: 16.3 m³/h Rated head: 3.9 m Maximum head: 60 dm Actual impeller diameter: 74 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 Maximum operating pressure: 10 bar Max pressure at stated temp: 10 bar / 120 °C Type of connection: DN Size of connection: PN 6/10 Port-to-port length: 280 mm Islange size for motor: 56C Connect code: F Liquid: Pumpel 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: 0.37 kW Mains frequency: 50 / 60 Hz Rated speed: 360-4000 rpm Efficiency: 84.5% Motor efficiency at full load: 84.5% Enclosure class (IEC 34-5): IP55 Insulation class (IEC 34-5): IP55 Insulation dass (IEC 88): F Built-in motor protection: ELEC Motor No: Cothers: Minimum efficiency index, MEI ≥: 0.70				
EAN number: 5711495010874  Technical:  Pump speed on which pump data are based:  Rated flow: 16.3 m³/h  Rated head: 3.9 m  Maximum head: 60 dm  Actual impeller diameter: 74 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: 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 50  Pressure rating for connection: PN 6/10  Port-to-port length: 280 mm  Flange size for motor: 56C  Connect code: F  Liquid:  Pumped liquid: Water  Liquid temperature range: -25 120 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: 71A  Ite Efficiency class: IE5  Rated power -P2: 0.37 kW  Mains frequency: 50 / 60 Hz  Rated speed: 30-04000 rpm  Efficiency class: IE5  Rated power -P2: 0.37 kW  Mains frequency: 50 / 60 Hz  Rated speed: 360-4000 rpm  Efficiency class: IP5  Insulation class (IEC 34-5): IP55  Insulation class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70	Product name:			
Technical:         Pump speed on which pump data are based:         2500 rpm           Rated flow:         16.3 m³/h           Rated head:         3.9 m           Maximum head:         60 dm           Actual impeller diameter:         74 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:         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:         DIN           Size of connection:         DN 50           Pressure rating for connection:         PN 6/10           Port-to-port length:         280 mm           Flange size for motor:         56C           Connect code:	Product No:	98437891		
Pump speed on which pump data are based:  Rated flow: 16.3 m³/h Rated head: 3.9 m  Maximum head: 60 dm  Actual impeller diameter: 74 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 / 120 °C  Type of connection: DIN  Size of connection: PN 6/10  Port-to-port length: 280 mm  Islanges if or montor: 56C  Connect code: F  Liquid: Pumped liquid: Uater Island island: Vater Island island: Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data: Motor type: 71A  Ile Efficiency class: IE5  Rated power - P2: 0.37 kW  Mains frequency: 50 / 60 Hz  Rated speed: 3 x 380-500 V  Rated current: 1.05-1.00 A  Cos phi - power factor: BLEC  Motor No: 99138015  Controls: Control oned: F  Liquid: PIPS5  Insulation class (IEC 34-5): IP55  Insulation class (IEC 34-5): IP55  Insulation class (IEC 35): F  Built-in motor protection: ELEC  Motor No: 99138015  Controls: Control panel: HMI200 - Standard  Firequency converter: Built-in  Others: Minimum efficiency index, MEI ≥: 0.70	EAN number:			
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Rated head: 3.9 m  Maximum head: 60 dm  Actual impeller diameter: 74 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: DIN  Size of connection: PN 6/10  Port-to-port length: 280 mm  Flange size for motor: 56C  Connet 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  Ile Efficiency class: IE5  Rated power - P2: 0.37 kW  Mains frequency: 50 / 60 Hz  Rated voltage: 3 x 380-500 V  Rated current: 1.05-1.00 A  Cos phi - power factor: 0.68-0.54  Rated speed: 360-4000 rpm  Efficiency: 84.5%  Motor efficiency at full load: 84.5 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor No: 99138015  Controls:  Controls:  Minimum efficiency index, MEI ≥: 0.70		2500 rpm		
Maximum head:         60 dm           Actual impeller diameter:         74 mm           Code for shaft seal:         BQCE           Curve tolerance:         ISO9906:2012 3B2           Pump version:         A           Amaterials:         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:           Range of ambient temperature:         -20 50 °C           Maximum operating pressure:         10 bar           Max pressure at stated temp:         10 bar / 120 °C           Maximum operating pressure:         10 bar           Max pressure at stated temp:         10 bar / 120 °C           Type of connection:         DN 50           Pressure rating for connection:         PN 6/10           Port-to-port length:         280 mm           Flange size for motor:         56C           Connect code:         F           Liquid:         Water           Liquid:         Water <td< td=""><td></td><td colspan="3"></td></td<>				
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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 50           Pressure rating for connection:         PN 6/10           Port-to-port length:         280 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:         71A           IE Efficiency class:         IE5           Rated power - P2:         0.37 kW           Mains frequency:         50 / 60 Hz           Rated voltage:         3 x 380-500 V           Rated speed:         360-4000 rpm           Efficiency:         84.5%           Motor efficiency at full load:         84.5 % <tr< td=""><td></td><td></td></tr<>				
Material code: A   Installation: -20 50 °C   Range of ambient temperature: -20 50 °C   Max pressure at stated temp: 10 bar / 120 °C   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   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: 71A   IE Efficiency class: IE5   Rated power - P2: 0.37 kW   Mains frequency: 50 / 60 Hz   Rated voltage: 3 x 380-500 V   Rated current: 1.05-1.00 A   Cos phi - power factor: 0.68-0.54   Rated speed: 360-4000 rpm   Efficiency: 84.5%   Motor efficiency at full load: 84.5 %   Enclosure class (IEC 34-5): IP55   Insulation class (IEC 85): F   Built-in motor protection: ELEC   Motor No: 99138015   Controls: Control panel: HMI200 - Standard   Function Module: FM300 - Advanced   Frequency converter: Built-in   Others: Minimum efficiency index, MEI ≥: 0.70	Impeller:	Composite		
Installation: Range of ambient temperature:	Impeller:	PES+30% GF		
Range of ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Type of connection:  DIN  Size of connection:  Pressure rating for connection:  PN 6/10  Port-to-port length:  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Petictrical data:  Motor type:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated speed:  Rated speed:  Frequency at full load:  Bill controls:  Controls:  Controls:  Control panel:  Frequency converter:  Minimum efficiency index, MEI ≥:  Minimum efficiency index, MEI ≥:  Mothers:  Minimum efficiency index, MEI ≥:  Motor of C  Day 120 C  Day 120 C  Control panel:  HMI200 - Standard  FM300 - Advanced  Frequency converter:  Built-in  Others:  Minimum efficiency index, MEI ≥:  0.70	Material code:	A		
Maximum operating pressure: 10 bar   Max pressure at stated temp: 10 bar / 120 °C   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   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: F   Motor type: 71A   IE Efficiency class: IE5   Rated power - P2: 0.37 kW   Mains frequency: 50 / 60 Hz   Rated voltage: 3 x 380-500 V   Rated current: 1.05-1.00 A   Cos phi - power factor: 0.68-0.54   Rated speed: 360-4000 rpm   Efficiency: 84.5%   Motor efficiency at full load: 84.5%   Enclosure class (IEC 34-5): IP55   Insulation class (IEC 85): F   Built-in motor protection: ELEC   Motor No: 99138015   Controls: Controls:   Control panel: HMI200 - Standard   Frequency converter: Built-in   Others: Minimum efficiency index, MEI ≥: 0.70				
Max pressure at stated temp: 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: 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: IE Efficiency class: Rated power - P2: 0.37 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 1.05-1.00 A Cos phi - power factor: 0.68-0.54 Rated speed: Efficiency: 84.5 % Motor efficiency at full load: Efficiency: Built-in motor protection: ELEC Motor No: Controls: Control panel: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI ≥: 0.70	Range of ambient temperature:	-20 50 °C		
Type of connection:  Size of connection:  DN 50  Pressure rating for connection: PN 6/10  Port-to-port length: 280 mm  Flange size for motor: 56C  Connect code: F  Liquid: Pumped liquid: Uater Liquid temperature range: Selected liquid temperature: Density: Pass 20 °C  Selected liquid temperature: Density: Poss 20 °C  Density: Poss 21 20 °C  Selected liquid temperature: Density: Poss 20 °C  Po	Maximum operating pressure:			
Size of connection:  Pressure rating for connection: PN 6/10  Port-to-port length: Plange size for motor: Connect code: FLiquid: Pumped liquid: Uiquid temperature range: Pelectrical data: Motor type: Fated power - P2: Nains frequency: Rated voltage: Rated voltage: Rated speed: Selection: Accos phi - power factor: Rated speed: Efficiency: Built-in motor protection: Built-in motor protection: Controls: Control panel: Finance was a simulation of the requency converter: Minimum efficiency index, MEI ≥: Money San Minimum  PN 6/10 PN 6/1	Max pressure at stated temp:	10 bar / 120 °C		
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:  Poss. 2 kg/m³  Electrical data:  Motor type:  IE Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated voltage:  Rated speed:  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:  Controls:  Control panel:  HMI200 - Standard  Function Module:  FM300 - Advanced  Frequency converter:  Built-in  Others:  Minimum efficiency index, MEI ≥:  0.70	Type of connection:	DIN		
Port-to-port length:         280 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:         71A           IE Efficiency class:         IE5           Rated power - P2:         0.37 kW           Mains frequency:         50 / 60 Hz           Rated voltage:         3 x 380-500 V           Rated voltage:         3 x 380-500 V           Rated current:         1.05-1.00 A           Cos phi - power factor:         0.68-0.54           Rated speed:         360-4000 rpm           Efficiency:         84.5%           Motor efficiency at full load:         84.5%           Enclosure class (IEC 34-5):         IP55           Insulation class (IEC 85):         F           Built-in motor protection:         ELEC           Motor No:         99138015           Controls:         HMI200 - Standard           Frequency converter:	Size of connection:	DN 50		
Flange size for motor:  Connect code:  F  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Bettrical data:  Motor type:  Fated power - P2:  Mains frequency:  Rated voltage:  Rated voltage:  Rated current:  Cos phi - power factor:  Rated speed:  Efficiency at full load:  Rated speed:  Efficiency at full load:  Bettrical data:  Motor type:  Fated voltage:  Rated voltage:  Rated voltage:  Rated voltage:  Rated voltage:  Rated speed:  Bettrical data:  Motor efficiency:  Bettrical data:  Motor speed:  Bettrical data:  Motor speed:  Bettrical data:  Motor speed:  Bettrical data:  Bettrical data:  Motor speed:  Bettrical data:  Motor speed:  Bettrical data:  Motor speed:  Bettrical data:  Motor speed:  Bettrical data:  Ferunction speed:  Bettrical data:  Bettrical data:  Bettrical data:  Ferunction speed:  Bettrical data:  Bettrical data:  Bettrical data:  Bettrical data:  Bettrical data:  Bettrical data:  Bettrical dat	Pressure rating for connection:	PN 6/10		
Connect code:  Liquid:  Pumped liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Density:  Blectrical data:  Motor type:  Tha  IE Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated voltage:  Rated current:  Cos phi - power factor:  Befficiency:  Motor efficiency at full load:  Efficiency:  Motor efficiency at full load:  Enclosure class (IEC 34-5):  Insulation class (IEC 85):  Built-in motor protection:  Controls:  Control panel:  Fm300 - Advanced  Frequency converter:  Built-in  Others:  Minimum efficiency index, MEI ≥:  Motor efficiency index, MEI ≥:  Motor O.70	Port-to-port length:	280 mm		
Liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:71AMotor type:71AIE Efficiency class:IE5Rated power - P2:0.37 kWMains frequency:50 / 60 HzRated voltage:3 x 380-500 VRated current:1.05-1.00 ACos phi - power factor:0.68-0.54Rated speed:360-4000 rpmEfficiency:84.5%Motor efficiency at full load:84.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99138015Controls:Controls:Control panel:HMI200 - StandardFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70	Flange size for motor:	56C		
Pumped liquid:  Liquid temperature range: Selected liquid temperature:  20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: 71A  IE Efficiency class: Rated power - P2: 0.37 kW  Mains frequency: 50 / 60 Hz  Rated voltage: 3 x 380-500 V  Rated current: 1.05-1.00 A  Cos phi - power factor: 0.68-0.54  Rated speed: 360-4000 rpm  Efficiency: 84.5%  Motor efficiency at full load: 84.5 %  Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Motor No: 99138015  Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70	Connect code:	F		
Liquid temperature range:  Selected liquid temperature:  Density:  998.2 kg/m³  Electrical data:  Motor type:  71A  IE Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated current:  1.05-1.00 A  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:  Control panel:  Function Module:  Findam August 20°C  Cotton panel:  Findam August 20°C  Control panel:  Findam August 20°C  Cotton panel:	Liquid:			
Selected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:71AMotor type:71AIE Efficiency class:IE5Rated power - P2:0.37 kWMains frequency:50 / 60 HzRated voltage:3 x 380-500 VRated current:1.05-1.00 ACos phi - power factor:0.68-0.54Rated speed:360-4000 rpmEfficiency:84.5%Motor efficiency at full load:84.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99138015Controls:Control panel:HMI200 - StandardFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI ≥:0.70				
Density:         998.2 kg/m³           Electrical data:         Motor type:         71A           IE Efficiency class:         IE5           Rated power - P2:         0.37 kW           Mains frequency:         50 / 60 Hz           Rated voltage:         3 x 380-500 V           Rated current:         1.05-1.00 A           Cos phi - power factor:         0.68-0.54           Rated speed:         360-4000 rpm           Efficiency:         84.5%           Motor efficiency at full load:         84.5 %           Enclosure class (IEC 34-5):         IP55           Insulation class (IEC 85):         F           Built-in motor protection:         ELEC           Motor No:         99138015           Controls:         Controls:           Control panel:         HMI200 - Standard           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:       0.37 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       3 x 380-500 V         Rated current:       1.05-1.00 A         Cos phi - power factor:       0.68-0.54         Rated speed:       360-4000 rpm         Efficiency:       84.5%         Motor efficiency at full load:       84.5 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99138015         Controls:       Controls:         Control panel:       HMI200 - Standard         Frequency converter:       Built-in         Others:       Minimum efficiency index, MEI ≥:       0.70	Selected liquid temperature:			
Motor type:       71A         IE Efficiency class:       IE5         Rated power - P2:       0.37 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       3 x 380-500 V         Rated current:       1.05-1.00 A         Cos phi - power factor:       0.68-0.54         Rated speed:       360-4000 rpm         Efficiency:       84.5%         Motor efficiency at full load:       84.5 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99138015         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:       0.37 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       3 x 380-500 V         Rated current:       1.05-1.00 A         Cos phi - power factor:       0.68-0.54         Rated speed:       360-4000 rpm         Efficiency:       84.5%         Motor efficiency at full load:       84.5 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99138015         Controls:       Controls:         Control panel:       HMI200 - Standard         Function Module:       FM300 - Advanced         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70				
Rated power - P2:       0.37 kW         Mains frequency:       50 / 60 Hz         Rated voltage:       3 x 380-500 V         Rated current:       1.05-1.00 A         Cos phi - power factor:       0.68-0.54         Rated speed:       360-4000 rpm         Efficiency:       84.5%         Motor efficiency at full load:       84.5 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99138015         Controls:       Control panel:         Function Module:       FM300 - Advanced         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:       1.05-1.00 A         Cos phi - power factor:       0.68-0.54         Rated speed:       360-4000 rpm         Efficiency:       84.5%         Motor efficiency at full load:       84.5 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99138015         Controls:       Control panel:         Function Module:       FM300 - Advanced         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70	•			
Rated voltage:       3 x 380-500 V         Rated current:       1.05-1.00 A         Cos phi - power factor:       0.68-0.54         Rated speed:       360-4000 rpm         Efficiency:       84.5%         Motor efficiency at full load:       84.5 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99138015         Controls:       Control panel:         Function Module:       FM300 - Advanced         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70	•			
Rated current:       1.05-1.00 A         Cos phi - power factor:       0.68-0.54         Rated speed:       360-4000 rpm         Efficiency:       84.5%         Motor efficiency at full load:       84.5 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99138015         Controls:       Control panel:         Function Module:       FM300 - Advanced         Frequency converter:       Built-in         Others:         Minimum efficiency index, MEI ≥:       0.70				
Cos phi - power factor:  Rated speed:  Signature    Rated speed:  Signature    Rated speed:  Signature    Rated speed:  Signature    S	•			
Rated speed: 360-4000 rpm  Efficiency: 84.5%  Motor efficiency at full load: 84.5 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor No: 99138015  Controls:  Control panel: HMI200 - Standard  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70				
Efficiency: 84.5%  Motor efficiency at full load: 84.5 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor No: 99138015  Controls:  Control panel: HMI200 - Standard  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70	' '	0.68-0.54		
Motor efficiency at full load: 84.5 %   Enclosure class (IEC 34-5): IP55   Insulation class (IEC 85): F   Built-in motor protection: ELEC   Motor No: 99138015   Controls: Control panel:   Control panel: HMI200 - Standard   Function Module: FM300 - Advanced   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: 99138015  Controls:  Control panel:  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70	,	*		
Insulation class (IEC 85):  Built-in motor protection:  Motor No:  99138015  Controls:  Control panel:  Function Module:  Frequency converter:  Built-in  Others:  Minimum efficiency index, MEI ≥:  0.70		* ***		
Built-in motor protection:  Motor No:  99138015  Controls:  Control panel:  Function Module:  Frequency converter:  Others:  Minimum efficiency index, MEI ≥:  0.70	, ,			
Motor No: 99138015  Controls:  Control panel: HMI200 - Standard  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70		·		
Controls:         Control panel:       HMI200 - Standard         Function Module:       FM300 - Advanced         Frequency converter:       Built-in         Others:       Minimum efficiency index, MEI ≥:       0.70	·			
Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  Minimum efficiency index, MEI ≥: 0.70		99138015		
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				
Others: Minimum efficiency index, MEI ≥: 0.70		FM300 - Advanced		
Minimum efficiency index, MEI ≥: 0.70		Built-in		
Net weight: 26.4 kg	·			
	Net weight:	26.4 kg		









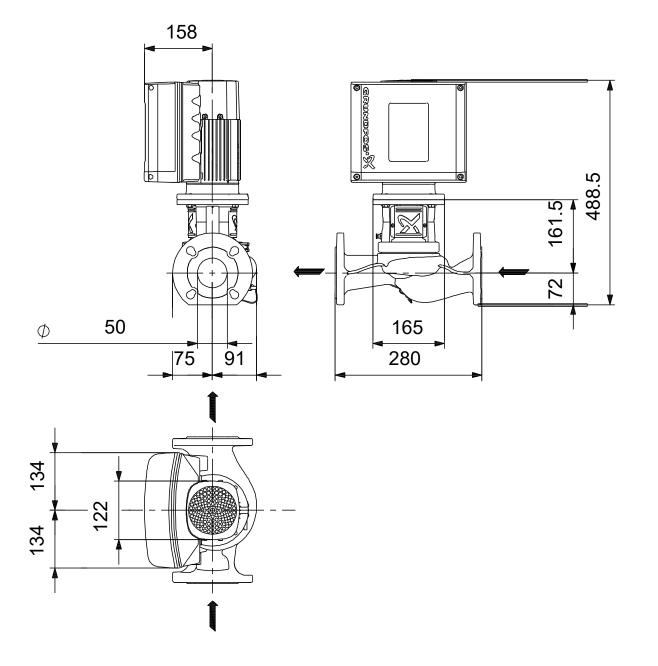
**Date:** 05/08/2022

Description	Value
Gross weight:	33.6 kg
Shipping volume:	0.104 m³
Config. file no:	98819257
Finnish LVI No.:	4616292
Country of origin:	HU
Custom tariff no.:	84137051



05/08/2022 Date:

# 98437891 TPE2 50-60 N-A-F-A-BQQE-DDB

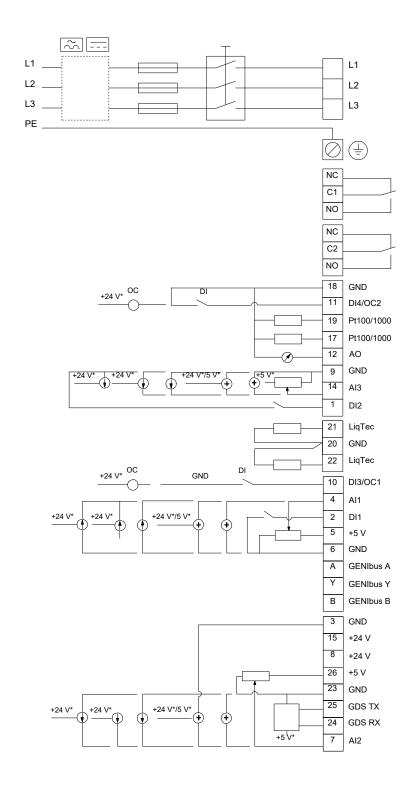


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 05/08/2022

# 98437891 TPE2 50-60 N-A-F-A-BQQE-DDB



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 50-60	1	98437891	Price on request
					·