

Created by: Phone:

Date: 15/06/2022

Qty. | Description

1 TP 65-110/4 A-F-A-BQQE-GX3



Note! Product picture may differ from actual product

Product No.: 96384289

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 pump is fitted with an unbalanced rubber bellows seal.

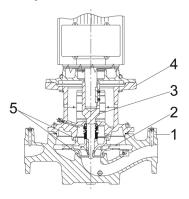
The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).

The pump is fitted with a fan-cooled asynchronous motor.

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.

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: Stub shaft
- 4: Pump head/motor stool
- 5: Wear rings

The pump housing is provided with a replaceable brass neck ring to reduce the amount of liquid running from the outlet side of the impeller to the inlet 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.



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Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.

The flanges have tappings for mounting of pressure gauges.

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 is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (Code II).

The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

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: NONE

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: 1430 rpm

Rated flow: 26.8 m³/h
Rated head: 9.5 m
Actual impeller diameter: 180 mm
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Impeller: Cast iron EN-GJL-200

ASTM class 30

Installation:

Range of ambient temperature: -30 .. 40 °C
Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C



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Type of connection: DIN
Size of connection: DN 65
Pressure rating for connection: PN 16
Port-to-port length: 475 mm
Flange size for motor: FF165

Electrical data:

Motor type: 90LB
Rated power - P2: 1.1 kW
Mains frequency: 50 Hz
Rated voltage: 1 x 220-230 V
Rated current: 7 A

Rated current: 7 A
Starting current: 390 %
Cos phi - power factor: 0.96

Rated speed: 1420-1430 rpm

Motor efficiency at full load: 75-76 % Number of poles: 4

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Motor No: 87200343

Others:

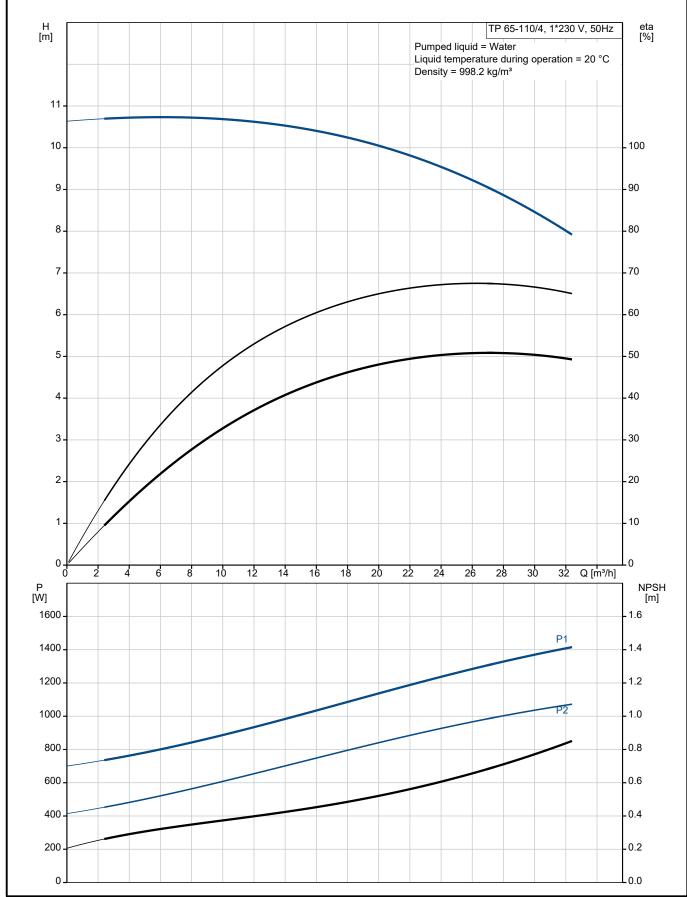
Minimum efficiency index, MEI ≥: 0.70
Net weight: 67.3 kg
Gross weight: 86 kg
Shipping volume: 0.39 m³



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96384289 TP 65-110/4 A-F-A-BQQE-GX3 50 Hz

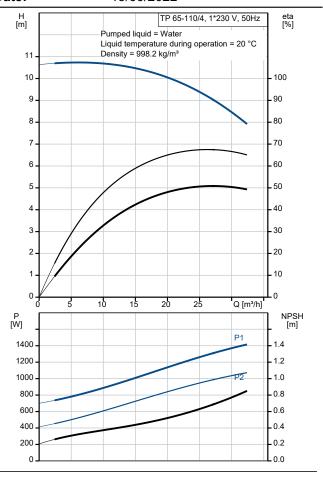


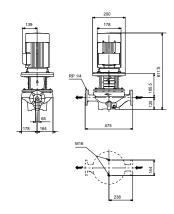


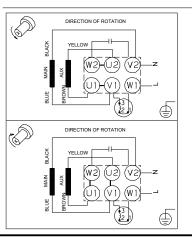
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Description		
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Connect code:FLiquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:Motor type:90LBRated power - P2:1.1 kWMains frequency:50 HzRated voltage:1 x 220-230 VRated current:7 AStarting current:390 %Cos phi - power factor:0.96Rated speed:1420-1430 rpmMotor efficiency at full load:75-76 %Number of poles:4Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FBuilt-in motor protection:PTOMotor No:87200343Controls:Frequency converter:NONEOthers:Minimum efficiency index, MEI ≥:0.70Net weight:67.3 kg		
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Pumped liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:90LBMotor type:90LBRated power - P2:1.1 kWMains frequency:50 HzRated voltage:1 x 220-230 VRated current:7 AStarting current:390 %Cos phi - power factor:0.96Rated speed:1420-1430 rpmMotor efficiency at full load:75-76 %Number of poles:4Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FBuilt-in motor protection:PTOMotor No:87200343Controls:Frequency converter:NONEOthers:Minimum efficiency index, MEI ≥:0.70Net weight:67.3 kg	·	<u>'</u>
Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: Motor type: Rated power - P2: Mains frequency: Rated voltage: Rated current: 7 A Starting current: Cos phi - power factor: Rated speed: Motor efficiency at full load: To poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Motor Others: Minimum efficiency index, MEI ≥: Net weight: P10 P38.2 kg/m³ P08.3 kg/m³ P10 SP.3 kg/m	-	Water
Selected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:90LBMotor type:90LBRated power - P2:1.1 kWMains frequency:50 HzRated voltage:1 x 220-230 VRated current:7 AStarting current:390 %Cos phi - power factor:0.96Rated speed:1420-1430 rpmMotor efficiency at full load:75-76 %Number of poles:4Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FBuilt-in motor protection:PTOMotor No:87200343Controls:Frequency converter:NONEOthers:Minimum efficiency index, MEI ≥:0.70Net weight:67.3 kg		
Density: 998.2 kg/m³ Electrical data: 90LB Motor type: 90LB Rated power - P2: 1.1 kW Mains frequency: 50 Hz Rated voltage: 1 x 220-230 V Rated current: 7 A Starting current: 390 % Cos phi - power factor: 0.96 Rated speed: 1420-1430 rpm Motor efficiency at full load: 75-76 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg		
Electrical data: Motor type: 90LB Rated power - P2: 1.1 kW Mains frequency: 50 Hz Rated voltage: 1 x 220-230 V Rated current: 7 A Starting current: 390 % Cos phi - power factor: 0.96 Rated speed: 1420-1430 rpm Motor efficiency at full load: 75-76 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg	· · · · · ·	
Rated power - P2: 1.1 kW Mains frequency: 50 Hz Rated voltage: 1 x 220-230 V Rated current: 7 A Starting current: 390 % Cos phi - power factor: 0.96 Rated speed: 1420-1430 rpm Motor efficiency at full load: 75-76 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg		
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Mains frequency: 50 Hz Rated voltage: 1 x 220-230 V Rated current: 7 A Starting current: 390 % Cos phi - power factor: 0.96 Rated speed: 1420-1430 rpm Motor efficiency at full load: 75-76 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg	· · · · · · · · · · · · · · · · · · ·	
Rated voltage: 1 x 220-230 V Rated current: 7 A Starting current: 390 % Cos phi - power factor: 0.96 Rated speed: 1420-1430 rpm Motor efficiency at full load: 75-76 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg	•	50 Hz
Starting current: 390 % Cos phi - power factor: 0.96 Rated speed: 1420-1430 rpm Motor efficiency at full load: 75-76 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg		1 x 220-230 V
Cos phi - power factor: Rated speed: Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Motor No: Controls: Frequency converter: Minimum efficiency index, MEI ≥: NoNE 0.70 Net weight:	Rated current:	7 A
Rated speed: 1420-1430 rpm Motor efficiency at full load: 75-76 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg	Starting current:	390 %
Motor efficiency at full load:75-76 %Number of poles:4Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FBuilt-in motor protection:PTOMotor No:87200343Controls:Frequency converter:NONEOthers:Minimum efficiency index, MEI ≥:0.70Net weight:67.3 kg	Cos phi - power factor:	
Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Motor No: Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: Net weight: 4 4 4 55 Dust/Jetting FTO 87200343 CONTO 87200343 CONTROLS NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight:		1420-1430 rpm
Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg		75-76 %
Insulation class (IEC 85): F Built-in motor protection: PTO Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg	Number of poles:	4
Built-in motor protection: Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: Net weight: 0.70 Net weight: 67.3 kg	, , ,	55 Dust/Jetting
Motor No: 87200343 Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg		F
Controls: Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg	Built-in motor protection:	PTO
Frequency converter: NONE Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg	***************************************	87200343
Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg		
Minimum efficiency index, MEI ≥: 0.70 Net weight: 67.3 kg	Frequency converter:	NONE
Net weight: 67.3 kg		
	-	
Gross weight: 86 kg	9	•
	Gross weight:	86 kg









Created by: Phone:

Date: 15/06/2022

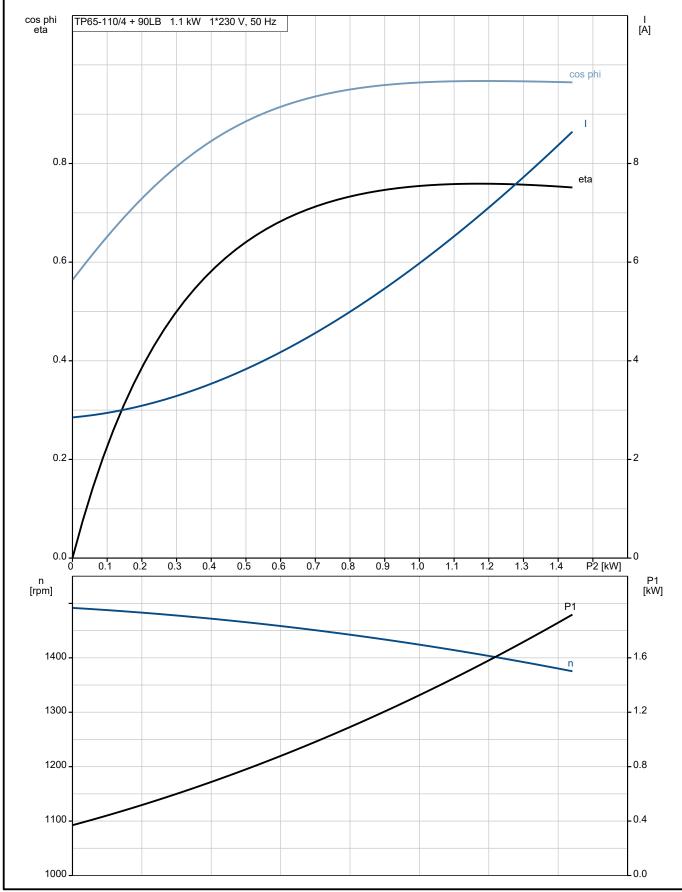
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Description	Value			
Description Shipping volume:	Value 0.39 m³			
Snipping volume:	0.39 m ²			



Created by: Phone:

Date: 15/06/2022

96384289 TP 65-110/4 A-F-A-BQQE-GX3 50 Hz





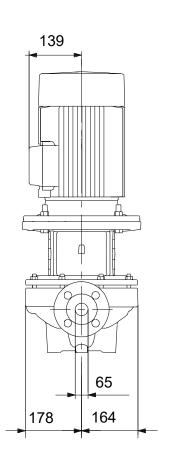
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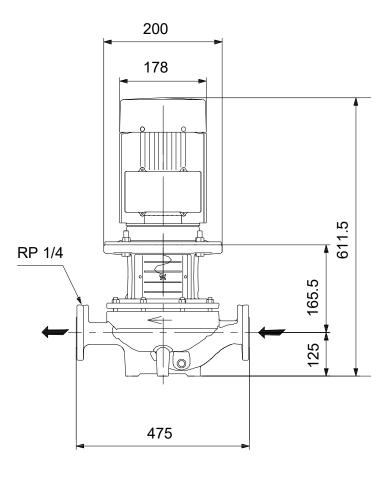
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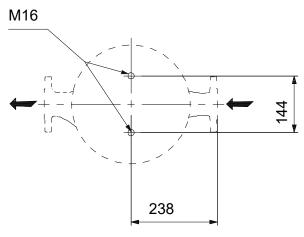
Date:

15/06/2022

96384289 TP 65-110/4 A-F-A-BQQE-GX3 50 Hz







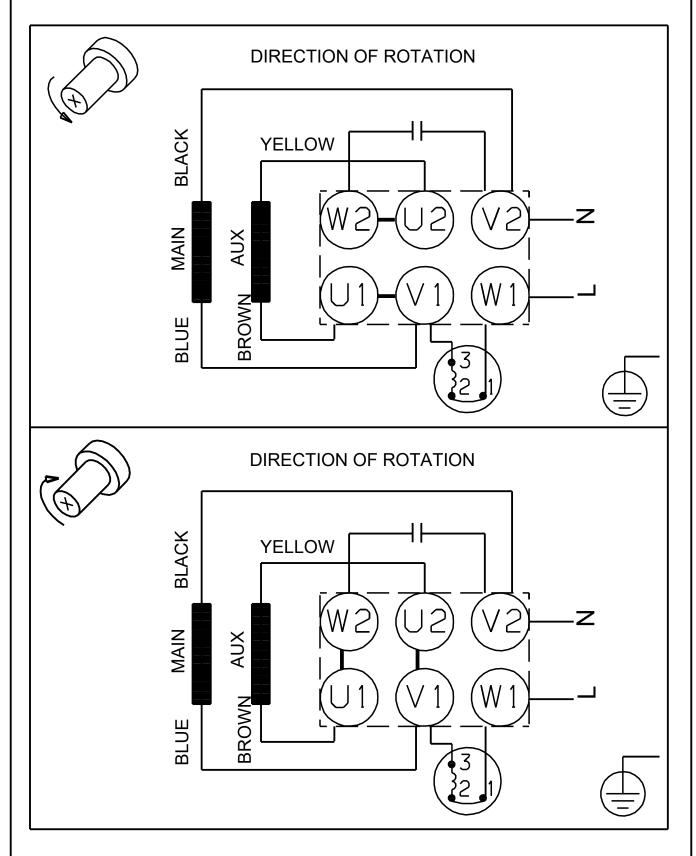
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Created by: Phone:

Date: 15/06/2022

96384289 TP 65-110/4 A-F-A-BQQE-GX3 50 Hz



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



Created by: Phone:

Date: 15/06/2022

Order Data:

Product name: TP 65-110/4

Amount: 1

Product No: 96384289

Total: Price on request