

Qty. Description

1 TP 40-270/2 A-F-A-BQQE-HX1



Note! Product picture may differ from actual product

Product No.: [98958128](#)

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.

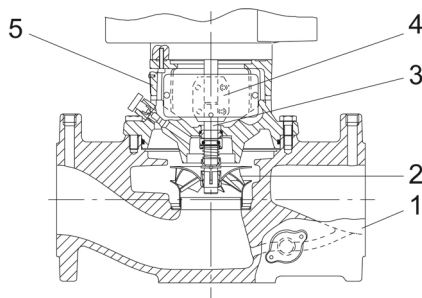
The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).

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: Shaft

4: Coupling

5: Pump head

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 with a split cone with 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.

Primary seal:

Qty. Description

- 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.

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. Motor and pump shaft are connected via a shell coupling.

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 tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (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
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: 2880 rpm

Rated flow: 12.5 m³/h

Rated head: 19.9 m

Actual impeller diameter: 145 mm

Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Cast iron

EN-GJL-250

ASTM class 35

Impeller: Stainless steel

EN 1.4301

AISI 304

Installation:

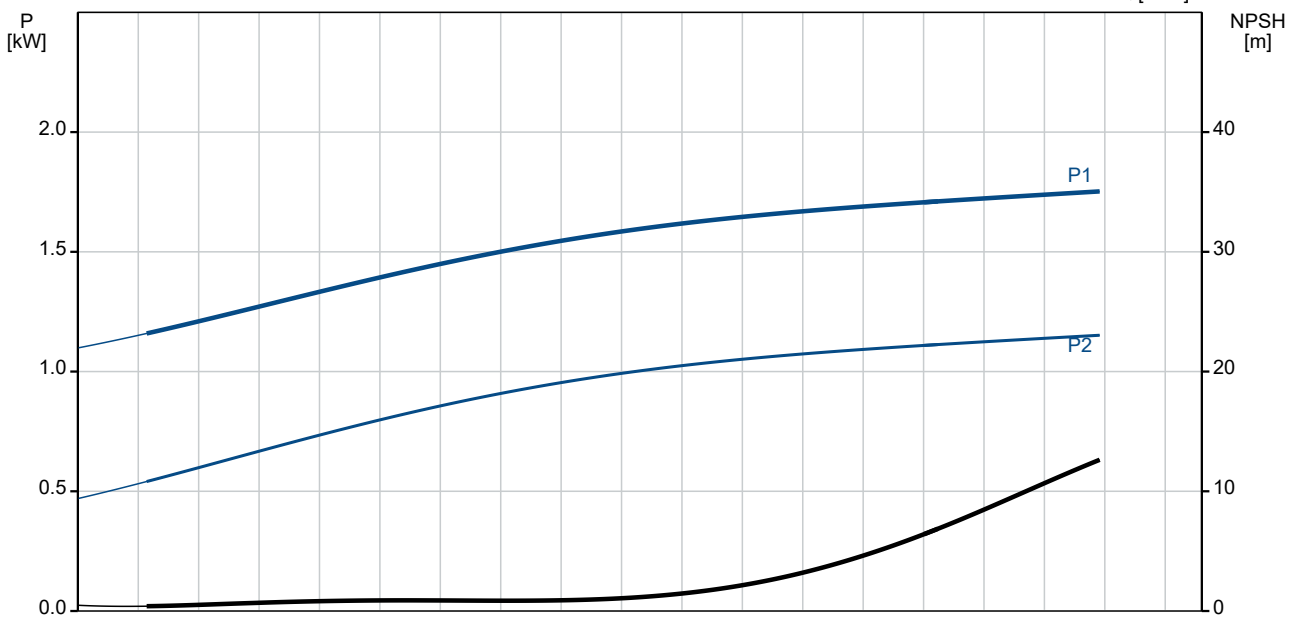
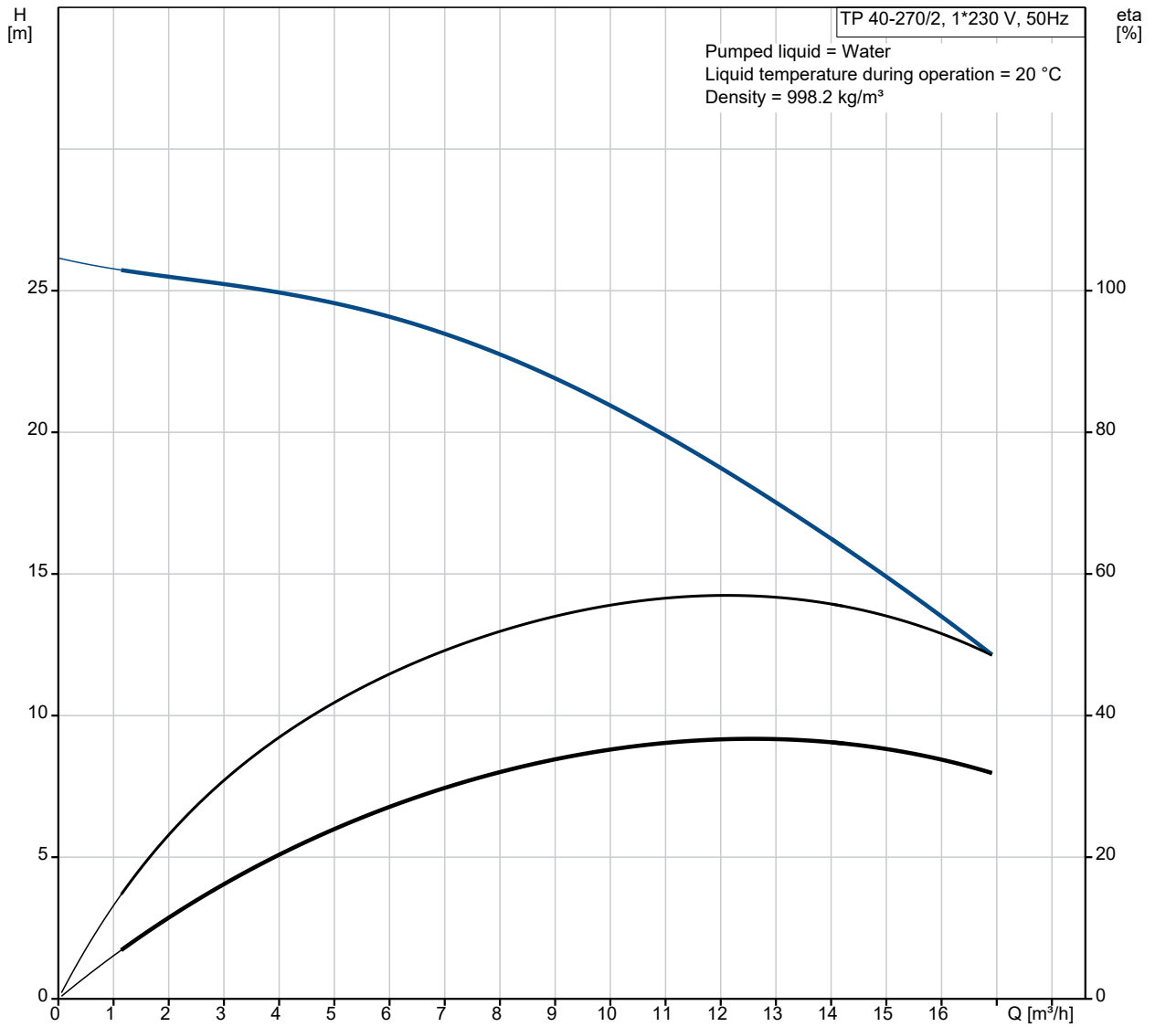
Range of ambient temperature: -30 .. 40 °C

Maximum operating pressure: 16 bar

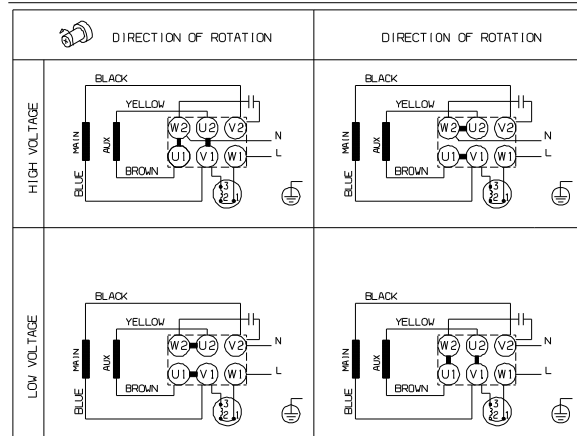
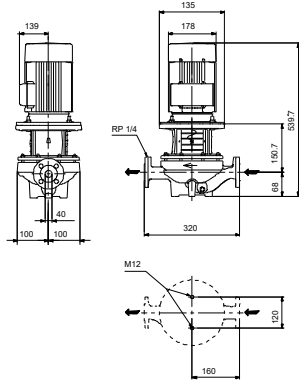
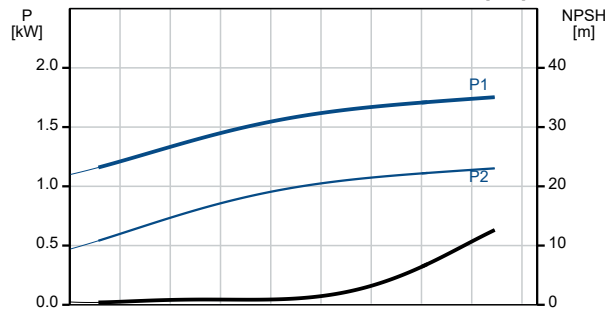
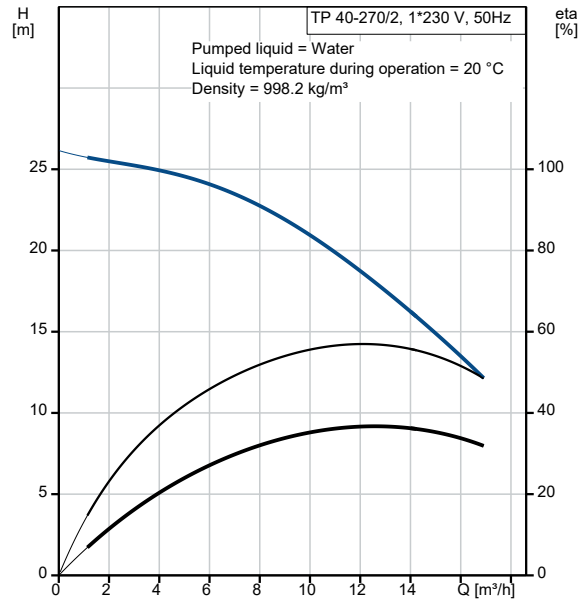
Max pressure at stated temp: 16 bar / 120 °C

| Qty. | Description |
|------|---|
| | Type of connection: DIN Size of connection: DN 40 Pressure rating for connection: PN 16 Port-to-port length: 320 mm Flange size for motor: FT115 |
| | Electrical data: Motor type: 90LB Rated power - P2: 1.5 kW Mains frequency: 50 Hz Rated voltage: 1 x 220-230/240 V Rated current: 9.90/8.90 A Starting current: 390 % Cos phi - power factor: 0.98/0.99 Rated speed: 2750/2740 rpm Motor efficiency at full load: 72-70 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85215706 |
| | Others: Minimum efficiency index, MEI \geq : 0.70 Net weight: 38.6 kg Gross weight: 43.6 kg Shipping volume: 0.09 m ³ |

98958128 TP 40-270/2 A-F-A-BQQE-HX1 50 Hz



| Description | Value |
|--|-------------------------------|
| General information: | |
| Product name: | TP 40-270/2 A-F-A-BQQE-HX1 |
| Product No: | 98958128 |
| EAN number: | 5712604245958 |
| Technical: | |
| Pump speed on which pump data are based: | 2880 rpm |
| Rated flow: | 12.5 m ³ /h |
| Rated head: | 19.9 m |
| Maximum head: | 270 dm |
| Actual impeller diameter: | 145 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: | Stainless steel |
| Impeller: | EN 1.4301 |
| Impeller: | AISI 304 |
| Material code: | A |
| Installation: | |
| Range of ambient temperature: | -30 .. 40 °C |
| Maximum operating pressure: | 16 bar |
| Max pressure at stated temp: | 16 bar / 120 °C |
| Type of connection: | DIN |
| Size of connection: | DN 40 |
| Pressure rating for connection: | PN 16 |
| Port-to-port length: | 320 mm |
| Flange size for motor: | FT115 |
| Connect code: | F |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: | -25 .. 120 °C |
| Selected liquid temperature: | 20 °C |
| Density: | 998.2 kg/m ³ |
| Electrical data: | |
| Motor type: | 90LB |
| Rated power - P2: | 1.5 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 1 x 220-230/240 V |
| Rated current: | 9.90/8.90 A |
| Starting current: | 390 % |
| Cos phi - power factor: | 0.98/0.99 |
| Rated speed: | 2750/2740 rpm |
| Motor efficiency at full load: | 72-70 % |
| Number of poles: | 2 |
| Enclosure class (IEC 34-5): | 55 Dust/Jetting |
| Insulation class (IEC 85): | F |
| Built-in motor protection: | PTO |
| Motor No: | 85215706 |
| Controls: | |
| Frequency converter: | NONE |
| Others: | |
| Minimum efficiency index, MEI ≥: | 0.70 |
| Net weight: | 38.6 kg |
| Gross weight: | 43.6 kg |





Company name:

Created by:

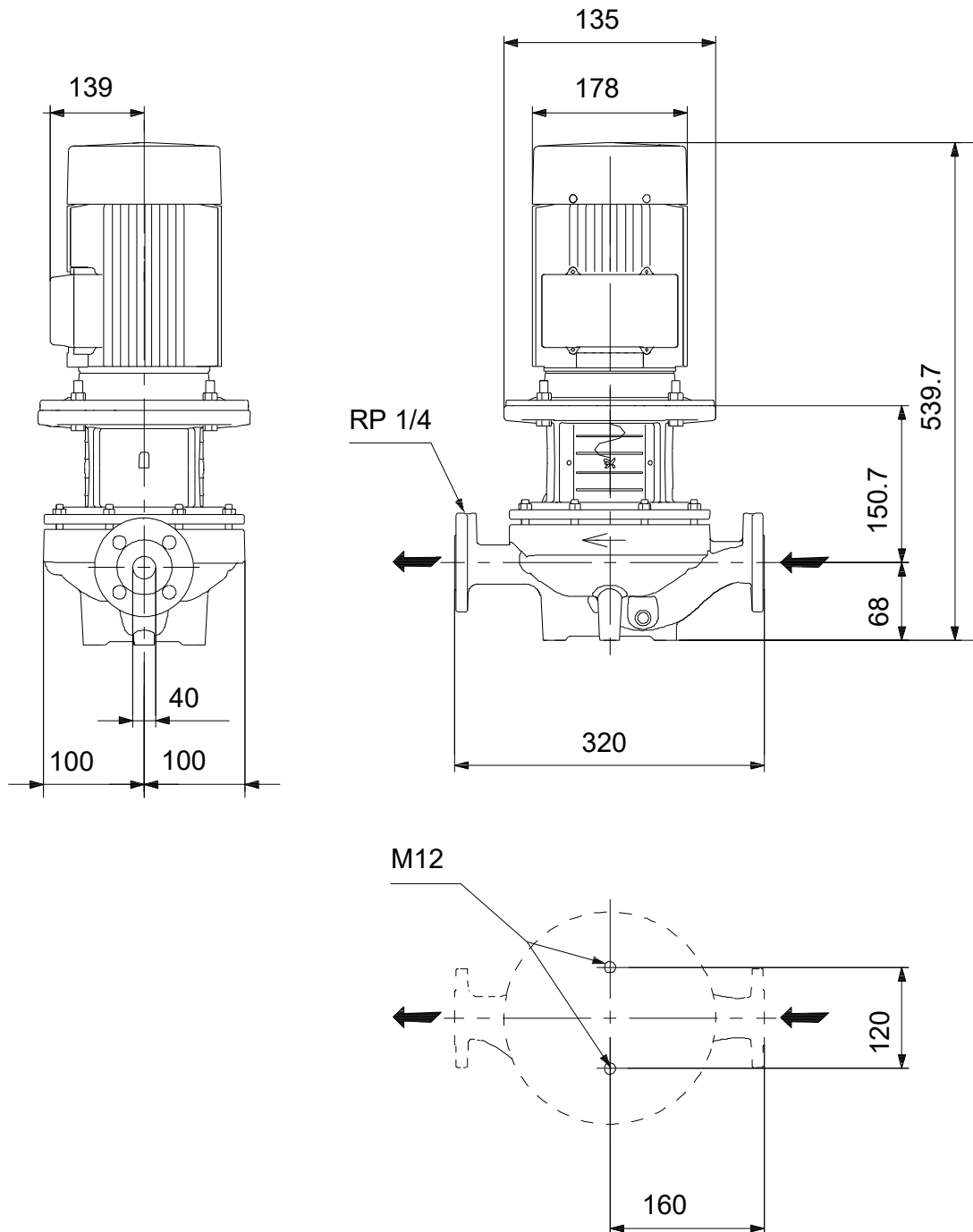
Phone:

Date:

10/09/2021

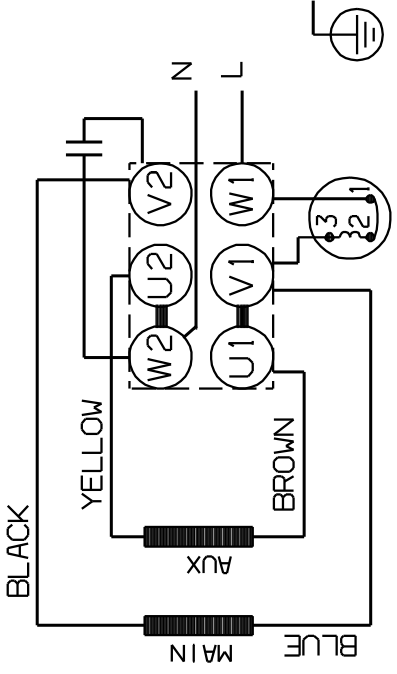
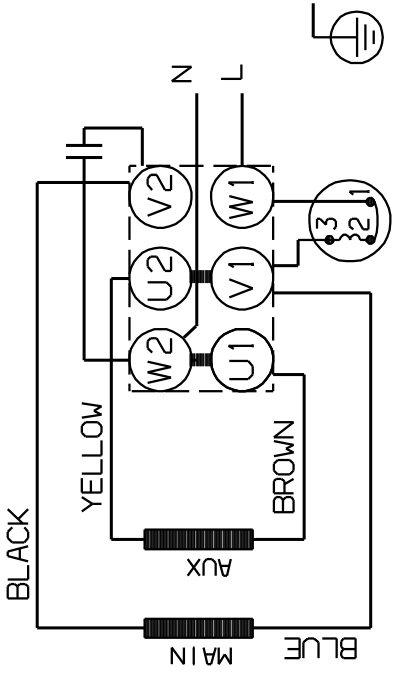
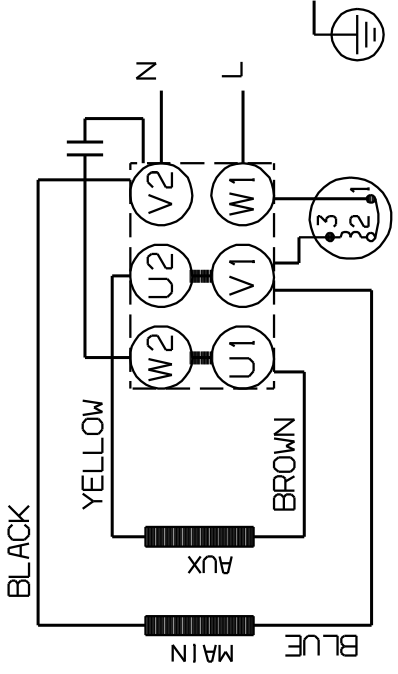
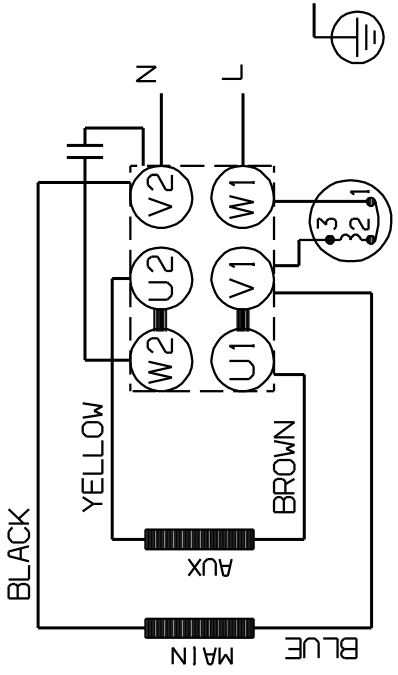
| Description | Value |
|------------------|---------------------|
| Shipping volume: | 0.09 m ³ |

98958128 TP 40-270/2 A-F-A-BQQE-HX1 50 Hz



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

98958128 TP 40-270/2 A-F-A-BQQE-HX1 50 Hz

| | |
|-----------------------|--|
| DIRECTION OF ROTATION |  |
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| |  |
| |  |

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