
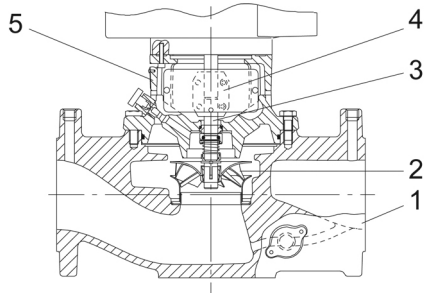


Qty.	Description
1	<p data-bbox="199 324 558 369">TPD 40-190/2 A-F-A-BQQE-FX1</p> <div data-bbox="231 392 566 884">  </div> <p data-bbox="590 862 1061 896">Note! Product picture may differ from actual product</p> <p data-bbox="199 896 470 929">Product No.: 98173086</p> <p data-bbox="199 952 1460 1019">Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads.</p> <p data-bbox="199 1019 1460 1075">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.</p> <p data-bbox="199 1075 917 1108">Each power head is fitted with an unbalanced rubber bellows seal.</p> <p data-bbox="199 1108 1460 1142">The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).</p> <p data-bbox="199 1164 1085 1198">Each power head is fitted with a fan-cooled asynchronous motor of identical size.</p> <p data-bbox="199 1198 1460 1276">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.</p> <p data-bbox="199 1310 287 1344">Pump</p> <div data-bbox="207 1355 638 1646">  </div> <p data-bbox="199 1668 391 1825"> 1: Pump housing 2: Impeller 3: Shaft 4: Coupling 5: Pump head </p> <p data-bbox="199 1825 1460 1881">The twin-head pump is designed with two parallel power-heads. A flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head.</p> <p data-bbox="199 1881 1460 1937">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.</p> <p data-bbox="199 1937 734 1971">The impeller is secured with a split cone with nut.</p> <p data-bbox="199 1971 1460 2049">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.</p> <p data-bbox="199 2049 351 2083">Primary seal:</p>

Qty. Description

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

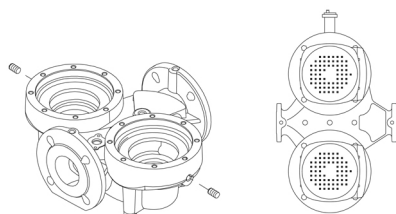
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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 pump housing has two Rp 1/8 tappings for mounting of automatic air vents. Fit an air vent to the upper pump housing if the twin-head pump is to be installed in a horizontal pipeline with horizontal pump shaft.



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 efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I₁/1).

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: 2855 rpm

Rated flow: 10.5 m³/h

Rated head: 13.2 m

Actual impeller diameter: 124 mm

Code for shaft seal: BQQE

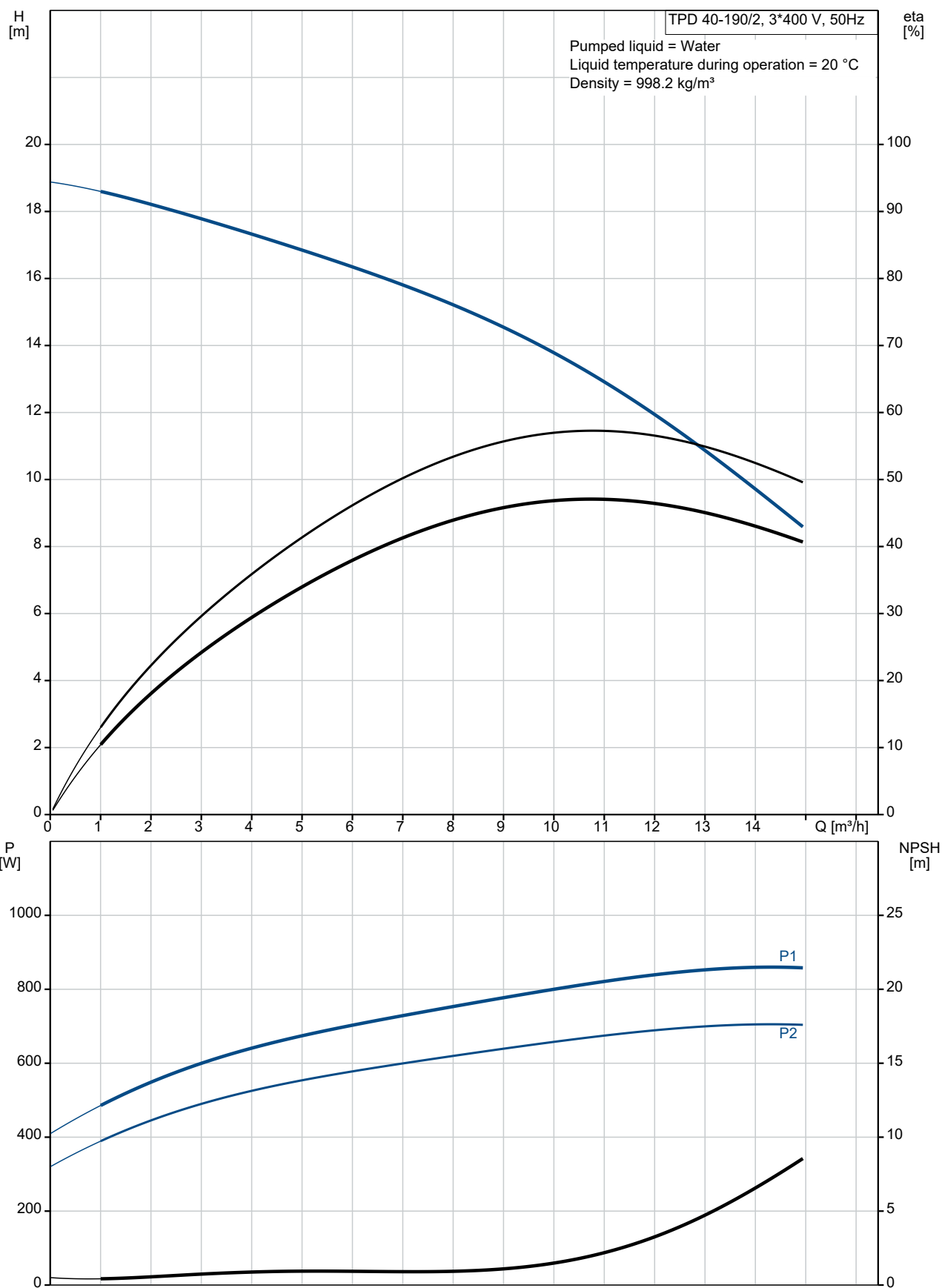
Curve tolerance: ISO9906:2012 3B2

Materials:

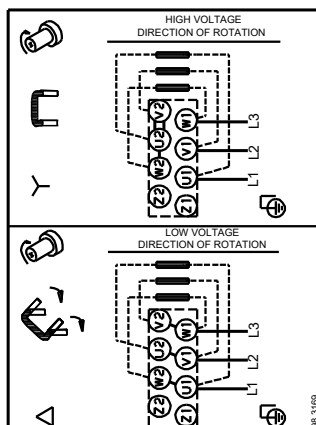
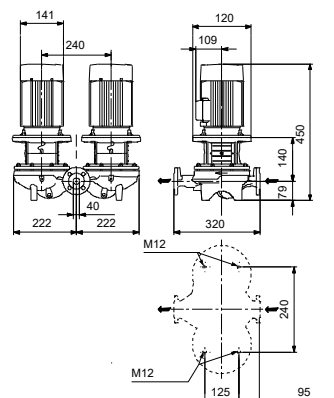
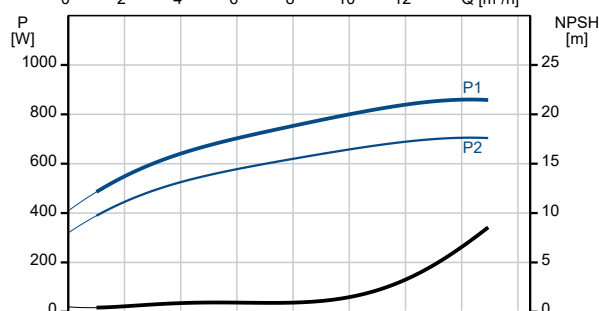
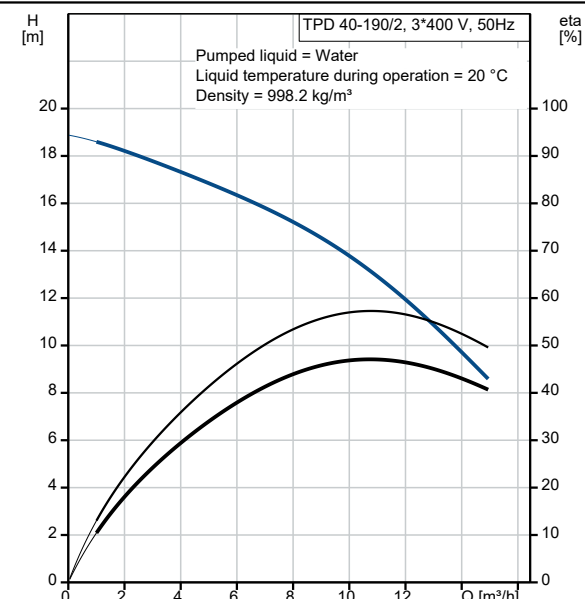
Pump housing: Cast iron

Qty.	Description
	<p>EN-GJL-250 ASTM class 35 Stainless steel EN 1.4301 AISI 304</p> <p>Impeller:</p> <p>Installation:</p> <p>Range of ambient temperature: -30 .. 60 °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: FT100</p> <p>Electrical data:</p> <p>Motor type: 80A IE Efficiency class: IE3 Rated power - P2: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 3.30/1.90 A Starting current: 580-620 % Cos phi - power factor: 0.81-0.71 Rated speed: 2840-2870 rpm Efficiency: IE3 80,7% Motor efficiency at full load: 80.7 % Motor efficiency at 3/4 load: 82.7 % Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U05104</p> <p>Others:</p> <p>Minimum efficiency index, MEI ≥: 0.44 Net weight: 51.8 kg Gross weight: 63.5 kg Shipping volume: 0.16 m³</p>

98173086 TPD 40-190/2 A-F-A-BQQE-FX1 50 Hz



Description	Value
General information:	
Product name:	TPD 40-190/2 A-F-A-BQQE-FX1
Product No:	98173086
EAN number:	5711490868593
Technical:	
Pump speed on which pump data are based:	2855 rpm
Rated flow:	10.5 m³/h
Rated head:	13.2 m
Maximum head:	190 dm
Actual impeller diameter:	124 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 .. 60 °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:	FT100
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:	80A
IE Efficiency class:	IE3
Rated power - P2:	0.75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	3.30/1.90 A
Starting current:	580-620 %
Cos phi - power factor:	0.81-0.71
Rated speed:	2840-2870 rpm
Efficiency:	IE3 80,7%
Motor efficiency at full load:	80.7 %
Motor efficiency at 3/4 load:	82.7 %
Motor efficiency at 1/2 load:	81.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Motor No:	85U05104
Controls:	
Frequency converter:	NONE





Company name:

Created by:

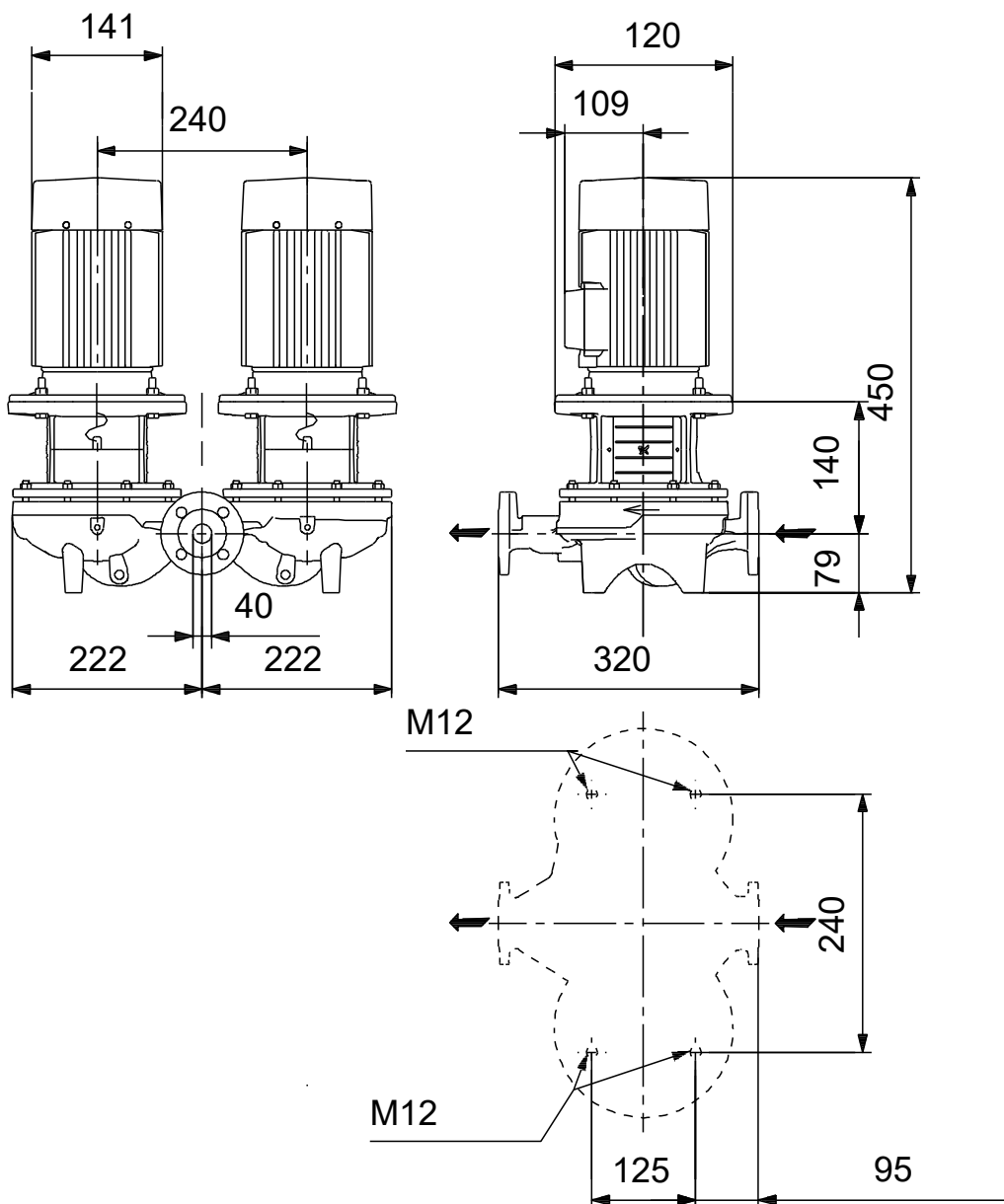
Phone:

Date:

10/09/2021

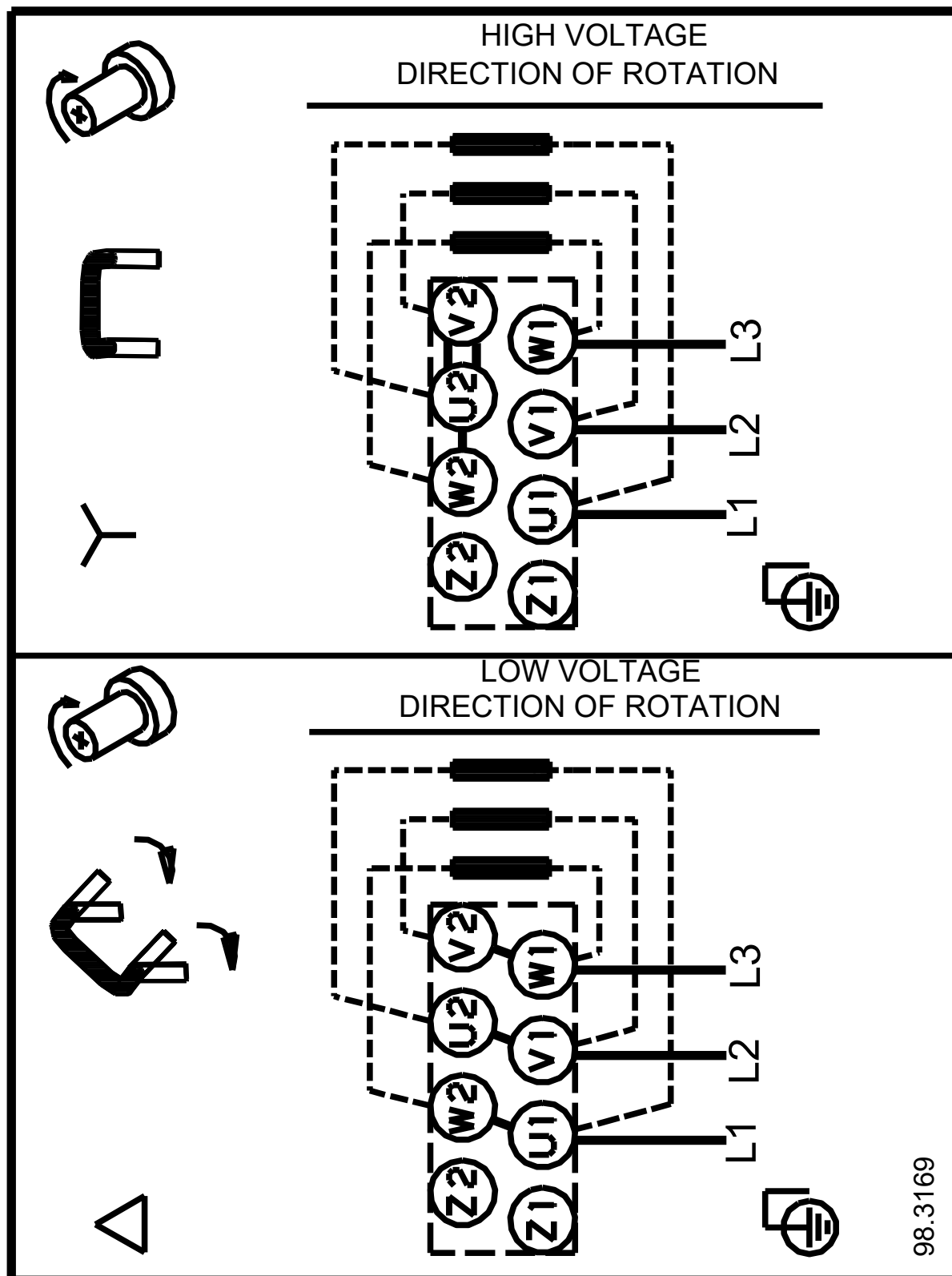
Description	Value
Others:	
Minimum efficiency index, MEI ≥:	0.44
Net weight:	51.8 kg
Gross weight:	63.5 kg
Shipping volume:	0.16 m ³

98173086 TPD 40-190/2 A-F-A-BQQE-FX1 50 Hz



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

98173086 TPD 40-190/2 A-F-A-BQQE-FX1 50 Hz



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