
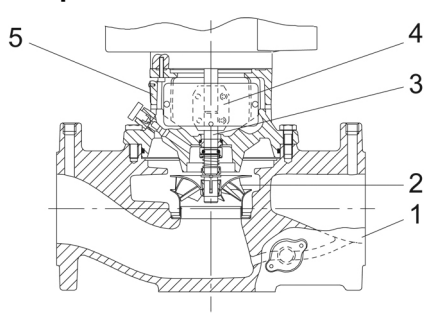
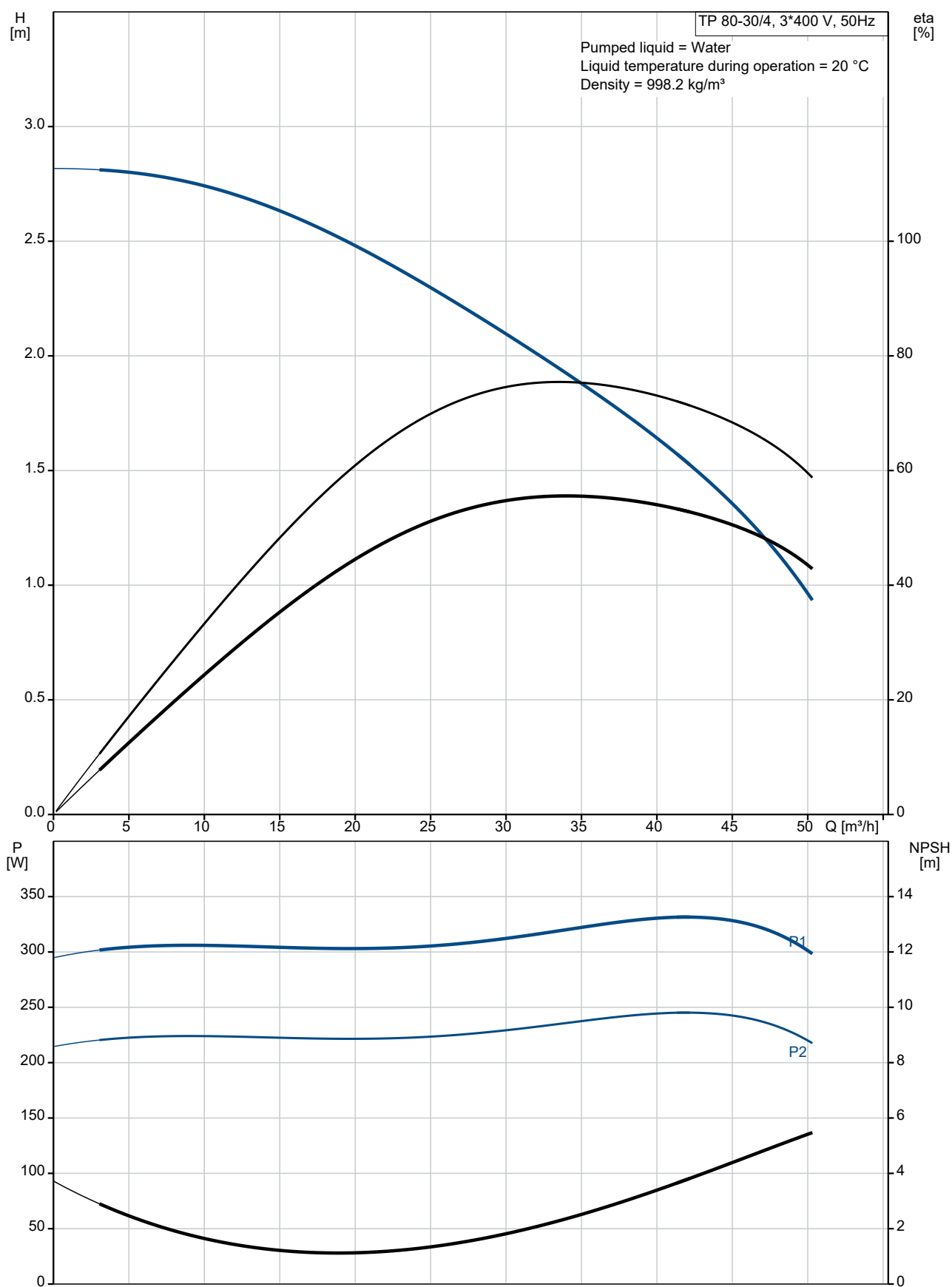


Qty.	Description
1	<p data-bbox="199 324 534 369">TP 80-30/4 AI-F-A-BQQE-DX3</p> <div data-bbox="223 392 566 907">  </div> <p data-bbox="590 884 1061 918">Note! Product picture may differ from actual product</p> <p data-bbox="199 918 462 952">Product No.: 98958011</p> <p data-bbox="199 974 1444 1131"> 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 6 DIN flanges (EN 1092-2 and ISO 7005-2). </p> <p data-bbox="199 1153 1452 1355"> 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. </p> <p data-bbox="199 1377 279 1422">Pump</p> <div data-bbox="207 1422 638 1736">  </div> <p data-bbox="199 1747 383 1904"> 1: Pump housing 2: Impeller 3: Shaft 4: Coupling 5: Pump head </p> <p data-bbox="199 1904 1452 2105"> 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: </p>

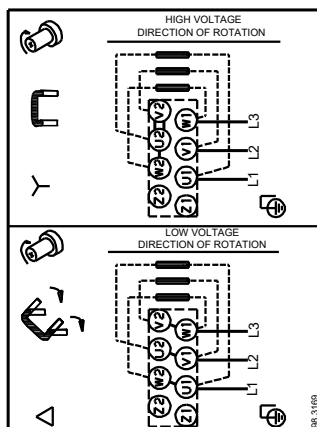
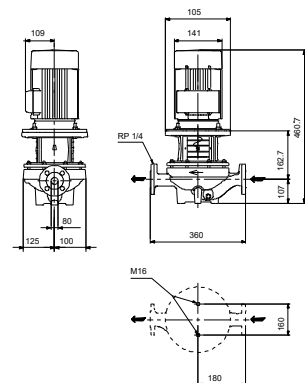
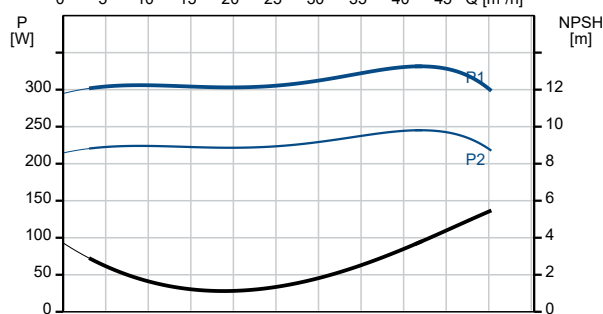
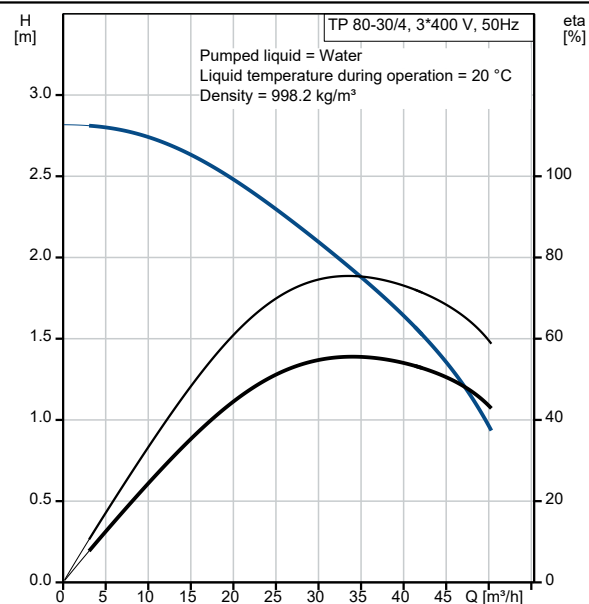
Qty.	Description
	<ul style="list-style-type: none"> Rotating seal ring material: silicon carbide (SiC) Stationary seat material: silicon carbide (SiC) <p>This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.</p> <p>Secondary seal material: EPDM (ethylene-propylene rubber)</p> <p>EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p> <p>A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.</p> <p>The flanges have tappings for mounting of pressure gauges.</p> <p>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.</p> <p>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.</p> <p>Motor</p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.</p> <p>The motor is flange-mounted with tapped-hole flange (FT).</p> <p>Motor-mounting designation in accordance with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (Code II).</p> <p>The motor efficiency is classified as IE2 in accordance with IEC 60034-30.</p> <p>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).</p> <p>Further product details</p> <p>Technical data</p> <p>Controls:</p> <p>Frequency converter: NONE</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -25 .. 120 °C</p> <p>Selected liquid temperature: 20 °C</p> <p>Density: 998.2 kg/m³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 1400 rpm</p> <p>Rated flow: 34.9 m³/h</p> <p>Rated head: 1.85 m</p> <p>Actual impeller diameter: 104 mm</p> <p>Code for shaft seal: BQQE</p> <p>Curve tolerance: ISO9906:2012 3B2</p> <p>Materials:</p> <p>Pump housing: Cast iron EN-GJL-250 ASTM class 35</p> <p>Impeller: Stainless steel EN 1.4301 AISI 304</p> <p>Installation:</p> <p>Range of ambient temperature: -30 .. 40 °C</p> <p>Maximum operating pressure: 6 bar</p> <p>Max pressure at stated temp: 6 bar / 120 °C</p> <p>Type of connection: DIN</p>

Qty.	Description
	<p>Size of connection: DN 80</p> <p>Pressure rating for connection: PN 6</p> <p>Port-to-port length: 360 mm</p> <p>Flange size for motor: FT85</p> <p>Electrical data:</p> <p>Motor type: 71B</p> <p>IE Efficiency class: IE2</p> <p>Rated power - P2: 0.37 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 220-240D/380-415Y V</p> <p>Rated current: 1,80-1,83/1,04-1,06 A</p> <p>Starting current: 390-430 %</p> <p>Cos phi - power factor: 0.78-0.69</p> <p>Rated speed: 1390-1410 rpm</p> <p>Efficiency: IE2 72,8% - IE2 73,1%</p> <p>Motor efficiency at full load: 72.8-73.1 %</p> <p>Motor efficiency at 3/4 load: 75.6 %</p> <p>Motor efficiency at 1/2 load: 73.8 %</p> <p>Number of poles: 4</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 99957643</p> <p>Others:</p> <p>Minimum efficiency index, MEI \geq: 0.70</p> <p>Net weight: 41.7 kg</p> <p>Gross weight: 50.3 kg</p> <p>Shipping volume: 0.2 m³</p> <p>Finnish LVI No.: 4616087</p>

98958011 TP 80-30/4 AI-F-A-BQQE-DX3 50 Hz



Description	Value
General information:	
Product name:	TP 80-30/4 AI-F-A-BQQE-DX3
Product No:	98958011
EAN number:	5712604244784
Technical:	
Pump speed on which pump data are based:	1400 rpm
Rated flow:	34.9 m³/h
Rated head:	1.85 m
Maximum head:	30 dm
Actual impeller diameter:	104 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
Pump version:	AI
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:	6 bar
Max pressure at stated temp:	6 bar / 120 °C
Type of connection:	DIN
Size of connection:	DN 80
Pressure rating for connection:	PN 6
Port-to-port length:	360 mm
Flange size for motor:	FT85
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:	71B
IE Efficiency class:	IE2
Rated power - P2:	0.37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	1,80-1,83/1,04-1,06 A
Starting current:	390-430 %
Cos phi - power factor:	0.78-0.69
Rated speed:	1390-1410 rpm
Efficiency:	IE2 72,8% - IE2 73,1%
Motor efficiency at full load:	72.8-73.1 %
Motor efficiency at 3/4 load:	75.6 %
Motor efficiency at 1/2 load:	73.8 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Motor No:	99957643
Controls:	





Company name:

Created by:

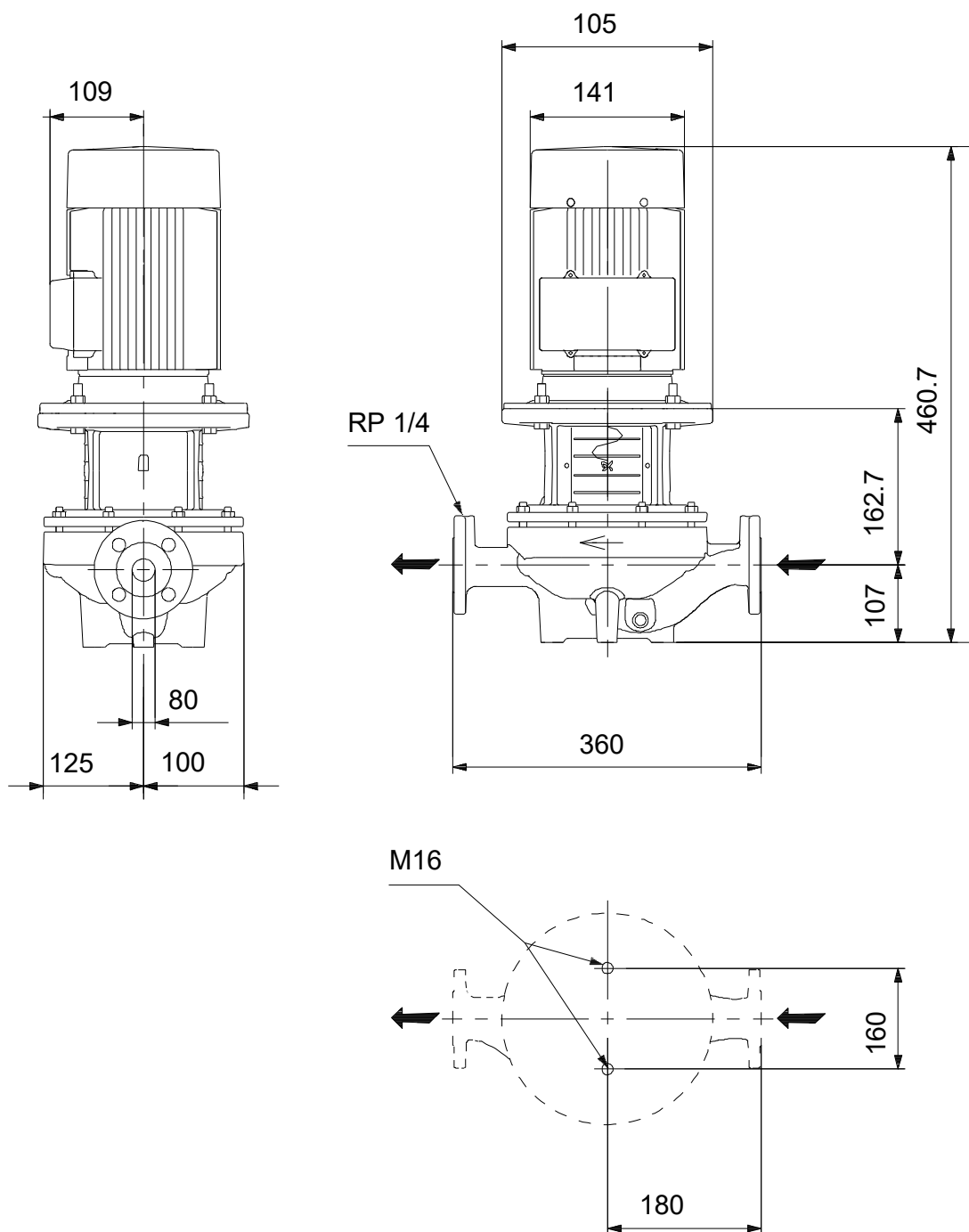
Phone:

Date:

10/09/2021

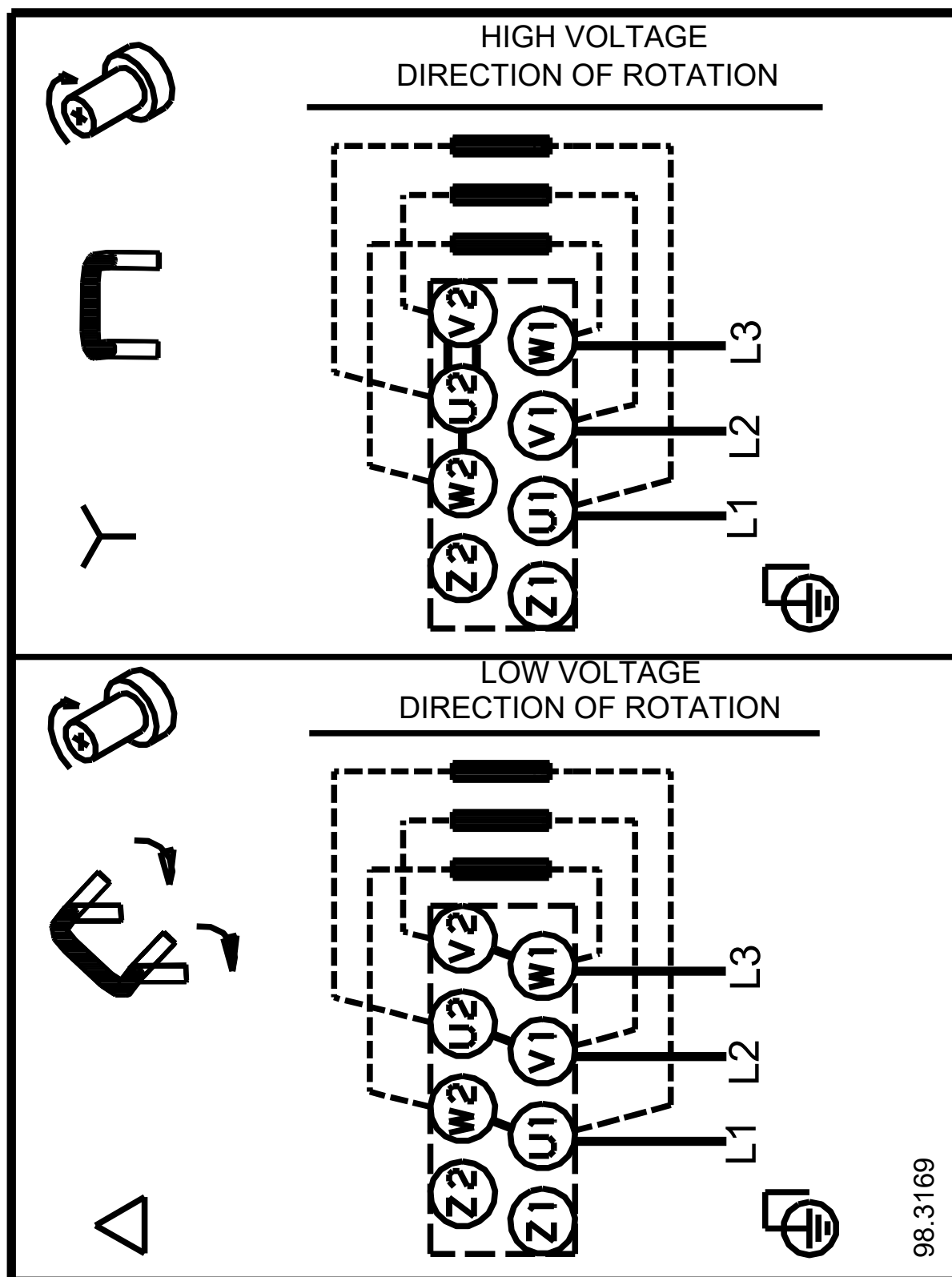
Description	Value
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	41.7 kg
Gross weight:	50.3 kg
Shipping volume:	0.2 m³
Finnish LVI No.:	4616087

98958011 TP 80-30/4 AI-F-A-BQQE-DX3 50 Hz



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

98958011 TP 80-30/4 AI-F-A-BQQE-DX3 50 Hz



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