

Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:
REPRESENTATIVE: _____	TYPE OF SERVICE:	DATE: _____
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:
	ORDER NO.:	DATE:

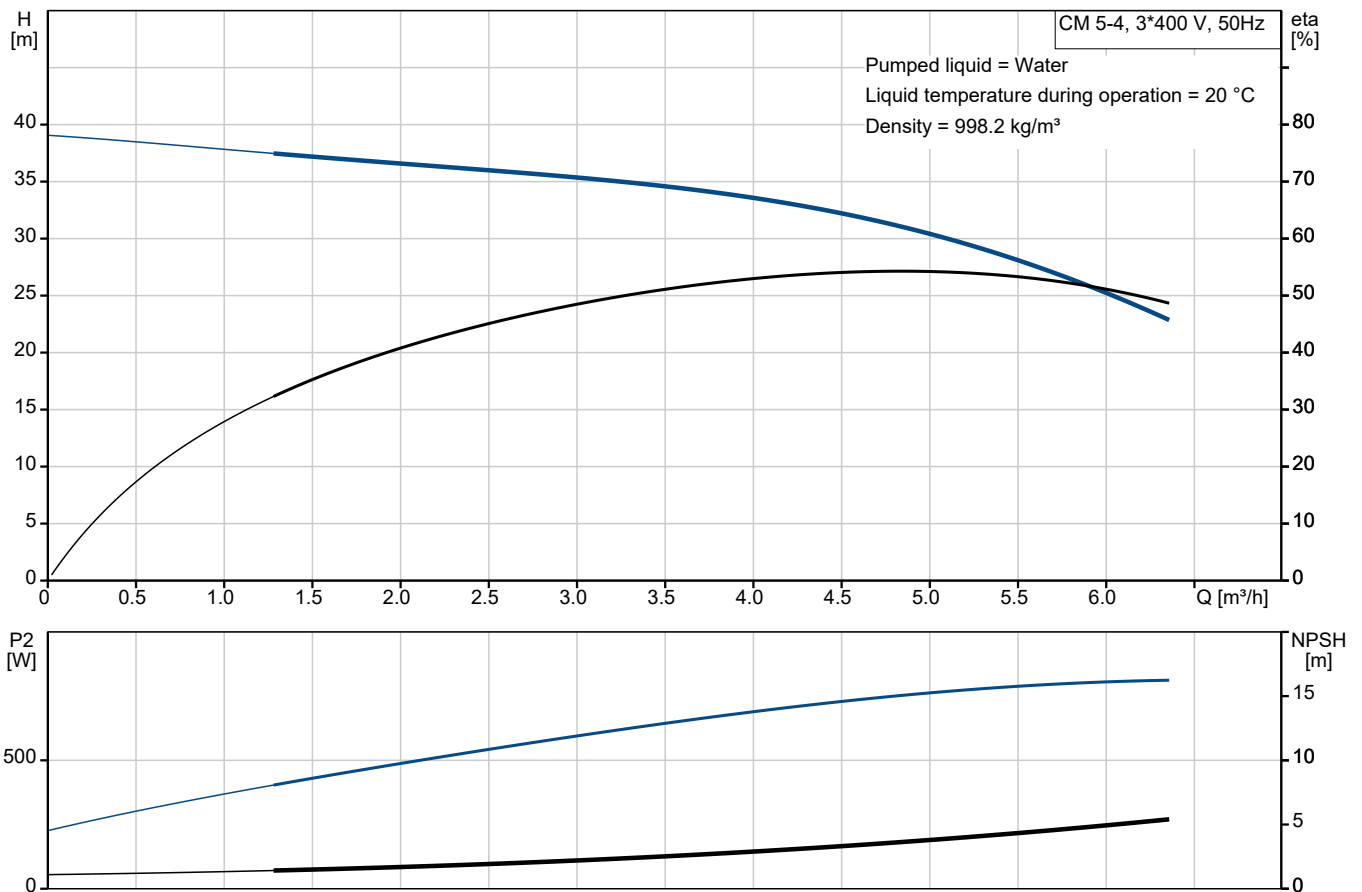


CM 5-4 A-R-A-E-AQQE F-A-A-N

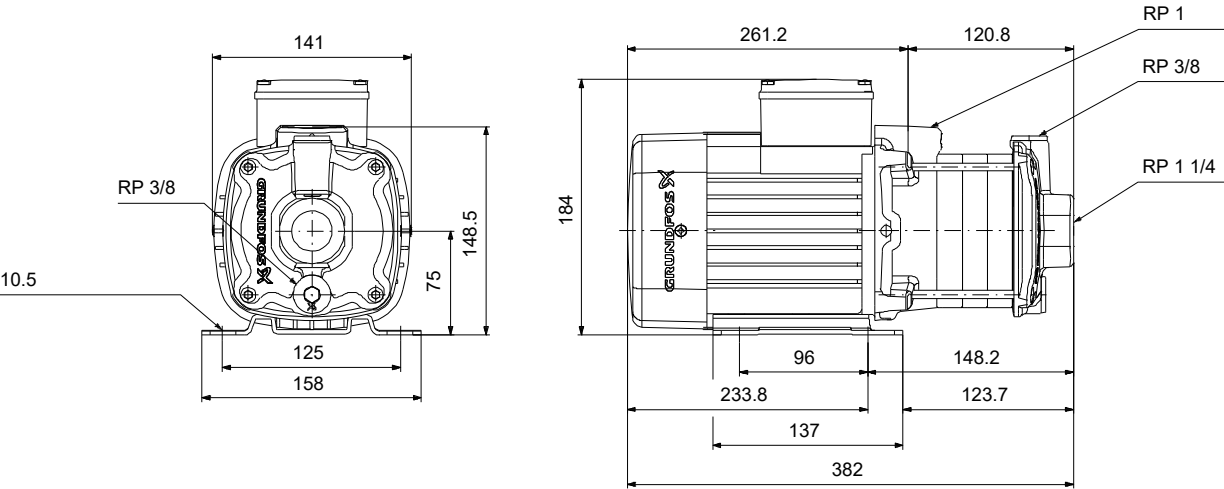
CM is a reliable, quiet and compact horizontal end-suction pump. The modular pump design makes it easy to make customised solutions. CM is available in cast iron and stainless steel.

Note! Product picture may differ from actual product

Conditions of Service	Pump Data	Motor Data
Liquid: Water	Max pressure at stated temp: 10 bar / 90 °C	Mains frequency: 50 Hz
Temperature: 20 °C	Liquid temperature range: -20 .. 90 °C	Enclosure class: IP55
Specific Gravity: 1.000	Maximum ambient temperature: 55 °C	
	Shaft seal: AQQE	
	Product number: On request	



Submittal Data



Materials:
Pump housing: Cast iron
ASTM A48-25A
Impeller: Stainless steel
AISI 304
EN 1.4301
Material code: A
Code for rubber: E

Qty. Description

1 CM 5-4 A-R-A-E-AQQE F-A-A-N



Note! Product picture may differ from actual product

Product No.: On request

Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. The shaft, impellers and chambers are made of stainless steel. The inlet and discharge parts are made of cast iron. The mechanical shaft seal is a special designed, unbalanced O-ring seal. Pipework connection is via internal Whitworth pipe threads, Rp (ISO 7/1).

The pump is fitted with a 3-phase, foot-mounted, fan-cooled asynchronous motor.

Further product details

Pump and motor are integrated in a compact and user-friendly design. The pump is fitted to a low base plate, making it ideal for installation in systems where compactness is important.

The state-of-the-art design and materials of the shaft seal ensure high wear resistance, improved sticking and dry-running capabilities and long operating life.

Servicing the pump requires no special service tools. Service parts are in stock for quick delivery and are available as kits, single parts or bulk. Service videos are available on www.youtube.com.

Pump

A combination of a stop ring and a Nord-lock® washer secures a tight and reliable fixation of the impeller spacing pipes to the splined pump shaft. It is possible to remove and fit the hydraulic parts from the pump side. The inlet part, chambers and discharge part are hold together by four staybolts.

The pump is fitted with an unbalanced O-ring seal with a rigid torque-transmission system. It has a fixed seal driver ensuring a reliable rotation of all parts. The dynamic secondary seal is an O-ring.

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)

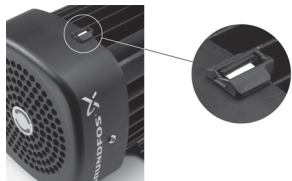
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be dismantled.

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.

Qty.	Description
1	<p>The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1. An installation indicator is fitted to the motor fan cover. Based on the motor cooling air, it indicates the direction of rotation of the motor. The motor is fitted with a directional sticker.</p>  <p>Technical data</p> <p>Controls:</p> <p>Terminal box position: 12</p> <p>Frequency converter: None</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -20 .. 90 °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: 2900 rpm</p> <p>Rated flow: 4.7 m³/h</p> <p>Rated head: 30.69 m</p> <p>Primary shaft seal: AQQE</p> <p>Code for shaft seal: AQQE</p> <p>Approvals: CE,EAC,UKCA</p> <p>Approvals for drinking water: WRAS,ACS,NSF61</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Type key, code for materials: A</p> <p>Type key, code for rubber components. E = EPDM, V=FKM: E</p> <p>Pump housing: Cast iron</p> <p>EN-GJL-200</p> <p>ASTM A48-25A</p> <p>Impeller: Stainless steel</p> <p>EN 1.4301</p> <p>AISI 304</p> <p>Installation:</p> <p>Range of ambient temperature: -20 .. 55 °C</p> <p>Maximum operating pressure: 10 bar</p> <p>Max pressure at stated temp: 10 bar / 90 °C</p> <p>Type of connection: Rp</p> <p>Size of inlet connection: 1 1/4 inch</p> <p>Size of outlet connection: 1 inch</p>



Company name:

Created by:

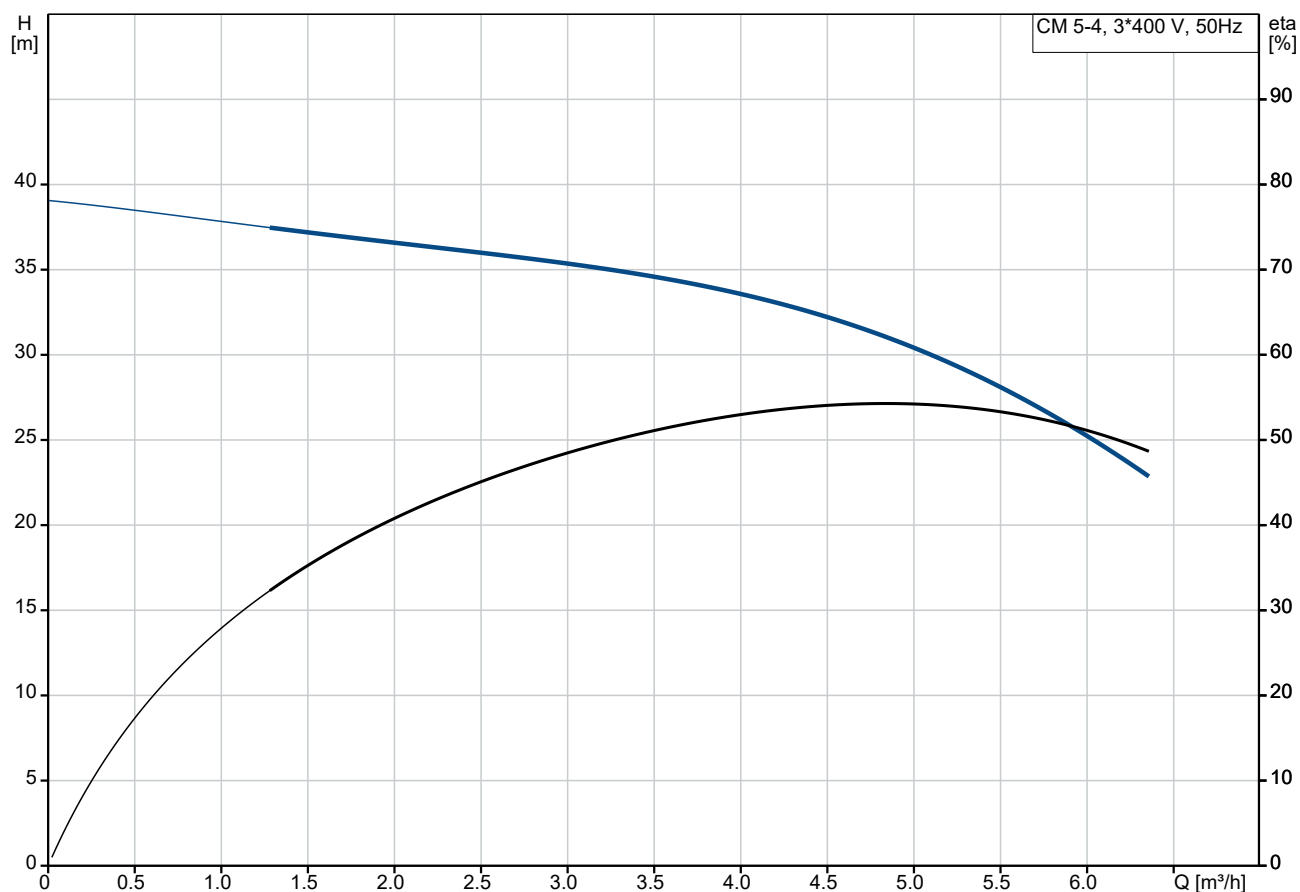
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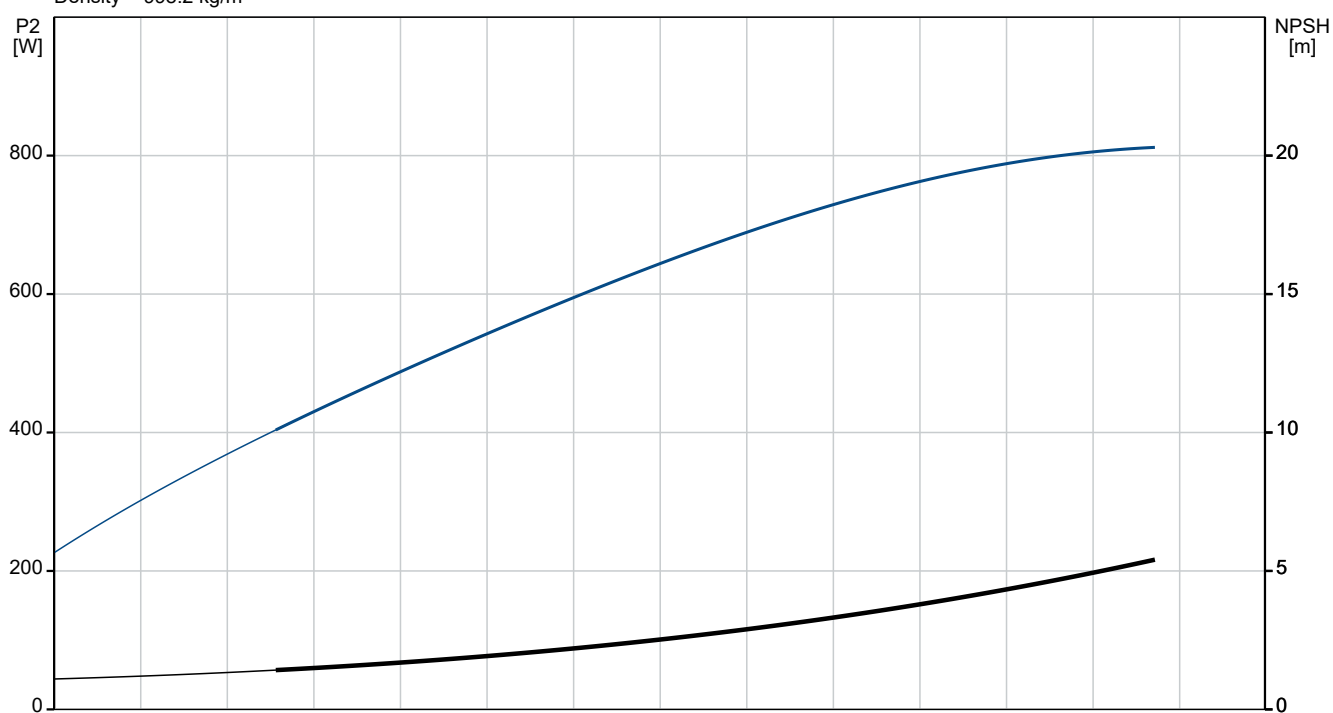
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Qty.	Description
1	<div>Terminal box position: 12</div> <div>Outlet position: 12</div> <div>Electrical data:</div> <div>Motor standard: IEC</div> <div>Frame size: 80C</div> <div>IE efficiency class: IE3</div> <div>Rated power - P2: 1.1 kW</div> <div>Mains frequency: 50 Hz</div> <div>Suitable for 50/60 Hz (Yes/No): N</div> <div>Rated voltage: 3 x 220-240D/380-415Y V</div> <div>Service factor: 1.00</div> <div>Rated current: 4,4-4,5/2,55-2,6 A</div> <div>Starting current: 720-780 %</div> <div>Rated speed: 2830-2860 rpm</div> <div>Enclosure class (IEC 34-5): IP55</div> <div>Insulation class (IEC 85): F</div> <div>Ex-protection standard: NONE</div> <div>Cable included (Yes/No): N</div> <div>Others:</div> <div>Minimum efficiency index, MEI ≥: 0.7</div> <div>Net weight: 15.3 kg</div> <div>Gross weight: 17.8 kg</div> <div>Danish VVS No.: 385212054</div> <div>Finnish LVI No.: 4925748</div> <div>Country of origin: HU</div> <div>Custom tariff no.: 84137075</div>

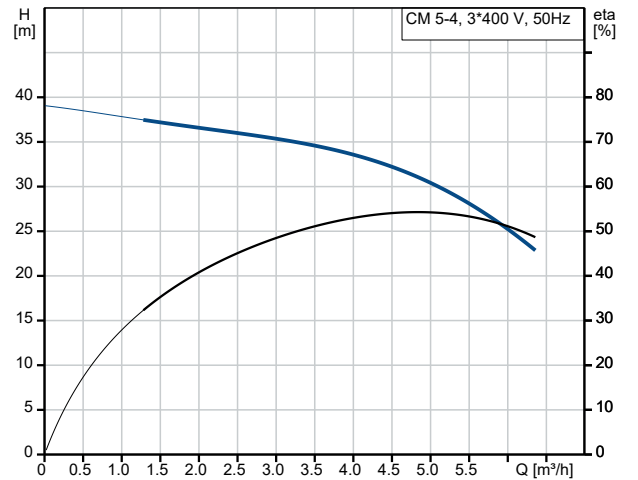
On request CM 5-4 A-R-A-E-AQQE F-A-A-N 50 Hz



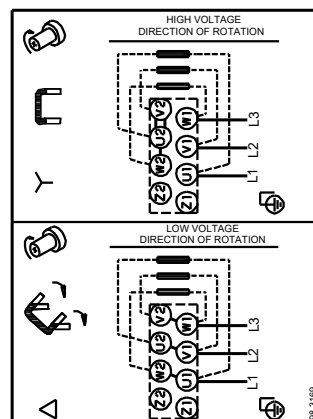
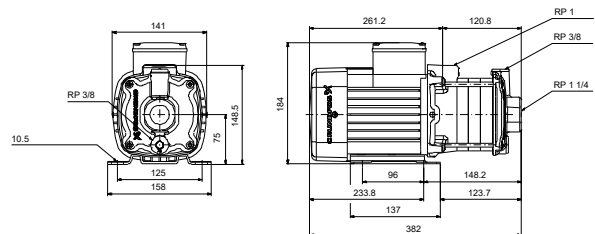
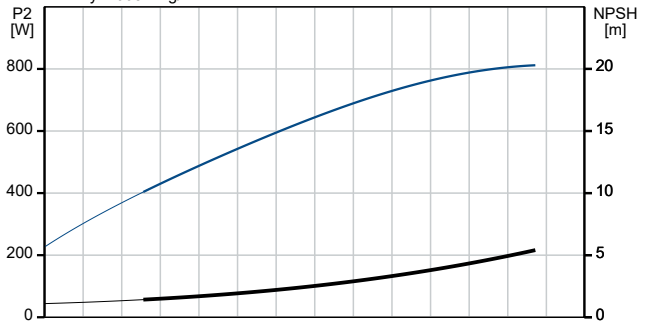
Pumped liquid = Water
 Liquid temperature during operation = 20 °C
 Density = 998.2 kg/m³



Description	Value
General information:	
Product name:	CM 5-4 A-R-A-E-AQQE F-A-A-N
Product No:	On request
EAN number:	On request
Technical:	
Pump speed on which pump data are based:	2900 rpm
Rated flow:	4.7 m³/h
Rated head:	30.69 m
Impellers:	4
Primary shaft seal:	AQQE
Code for shaft seal:	AQQE
Approvals:	CE,EAC,UKCA
Approvals for drinking water:	WRAS,ACS,NSF61
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Type key, code for materials:	A
Type key, code for rubber components. E = EPDM, V=FKM:	E
Pump housing:	Cast iron EN-GJL-200 ASTM A48-25A
Impeller:	Stainless steel EN 1.4301 AISI 304
Material code:	A
Code for rubber:	E
Installation:	
Range of ambient temperature:	-20 .. 55 °C
Maximum operating pressure:	10 bar
Max pressure at stated temp:	10 bar / 90 °C
Type key, code for pipework connection:	R
Type of connection:	Rp
Size of inlet connection:	1 1/4 inch
Size of outlet connection:	1 inch
Terminal box position:	12
Outlet position:	12
Connect code:	R
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 90 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
Frame size:	80C
IE efficiency class:	IE3
Rated power - P2:	1.1 kW
Mains frequency:	50 Hz
Suitable for 50/60 Hz (Yes/No):	N
Rated voltage:	3 x 220-240D/380-415Y V
Service factor:	1.00
Rated current:	4,4-4,5/2,55-2,6 A
Starting current:	720-780 %



Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³





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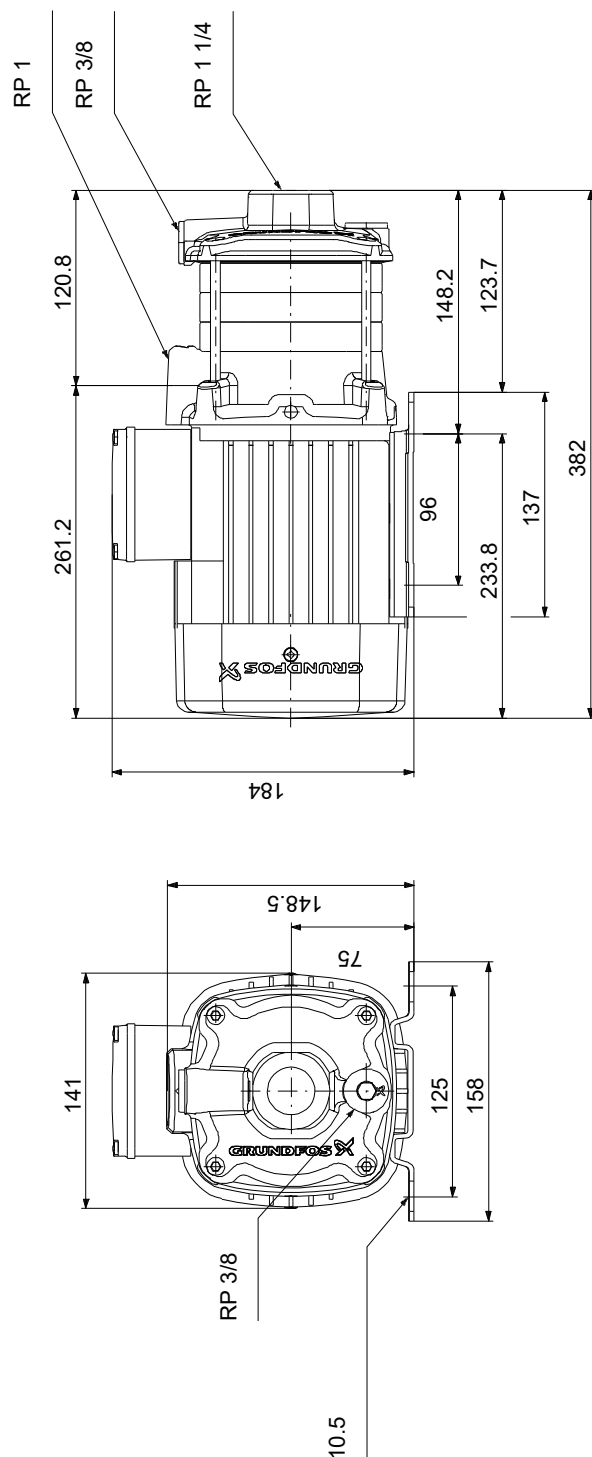
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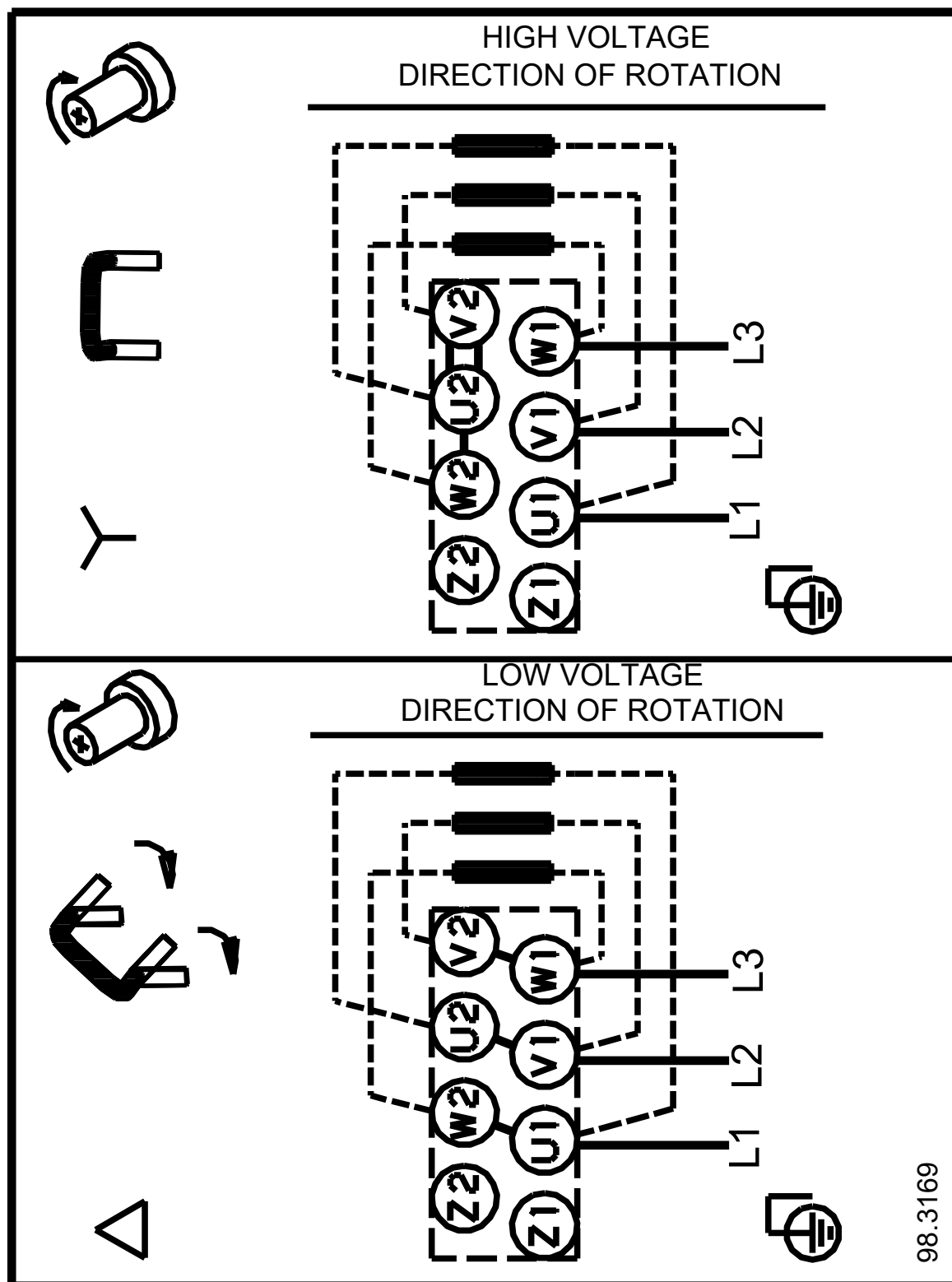
Description	Value
Rated speed:	2830-2860 rpm
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Ex-protection standard:	NONE
Cable included (Yes/No):	N
Controls:	
Terminal box position:	12
Frequency converter:	None
Others:	
Minimum efficiency index, MEI ≥:	0.7
Net weight:	15.3 kg
Gross weight:	17.8 kg
Danish VVS No.:	385212054
Finnish LVI No.:	4925748
Country of origin:	HU
Custom tariff no.:	84137075

On request CM 5-4 A-R-A-E-AQQE F-A-A-N 50 Hz



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

On request CM 5-4 A-R-A-E-AQQE F-A-A-N 50 Hz



98.3169

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

