

Qty. Description

1 CM 3-5 A-R-G-E-AVBE C-A-A-N



Note! Product picture may differ from actual product

Product No.: [96935434](#)

Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. Pump materials in contact with the liquid are in high-grade stainless steel. 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 1-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 and outlet port are integrated in the pump sleeve. The inlet part, chambers and discharge part are hold together by four staybolts and a retaining flange.

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: aluminium oxide (alumina)
- Stationary seat material: carbon graphite, resin-impregnated

Carbon graphite against alumina is a good all-round seal for not too demanding applications. The corrosion resistance is often limited in water to a range between pH 5 and pH 10. Usage in liquids above 90 °C is not recommended. The seal can handle dry-running conditions for short periods.

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>Technical data</p> <p>Controls:</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>Actual calculated flow: 3.643 m³/h</p> <p>Rated flow: 3.1 m³/h</p> <p>Resulting head of the pump: 25.03 m</p> <p>Rated head: 34.46 m</p> <p>Code for shaft seal: AVBE</p> <p>Approvals: CE,EAC,UKCA</p> <p>Approvals for drinking water: ACS,NSF61,UBA</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Pump housing: Stainless steel EN 1.4401 AISI 316</p> <p>Impeller: Stainless steel EN 1.4401 AISI 316</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 / 40 °C 6 bar / 90 °C</p> <p>Type of connection: Rp</p> <p>Size of inlet connection: 1 inch</p> <p>Size of outlet connection: 1 inch</p> <p>Outlet position: 12</p> <p>Electrical data:</p> <p>Motor standard: IEC</p> <p>Frame size: 71B</p> <p>Rated power - P2: 0.5 kW</p> <p>Mains frequency: 50 Hz</p> <p>Suitable for 50/60 Hz: N</p> <p>Rated voltage: 1 x 220-240 V V</p> <p>Service factor: 1.00</p> <p>Rated current: 3.1-2.8 A</p> <p>Starting current: 530-530 %</p> <p>Rated speed: 2730-2740 rpm</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Built-in motor protection: PTO</p> <p>Cable included (Yes/No): N</p> <p>Others:</p> <p>Terminal box position: 12 o'clock</p>

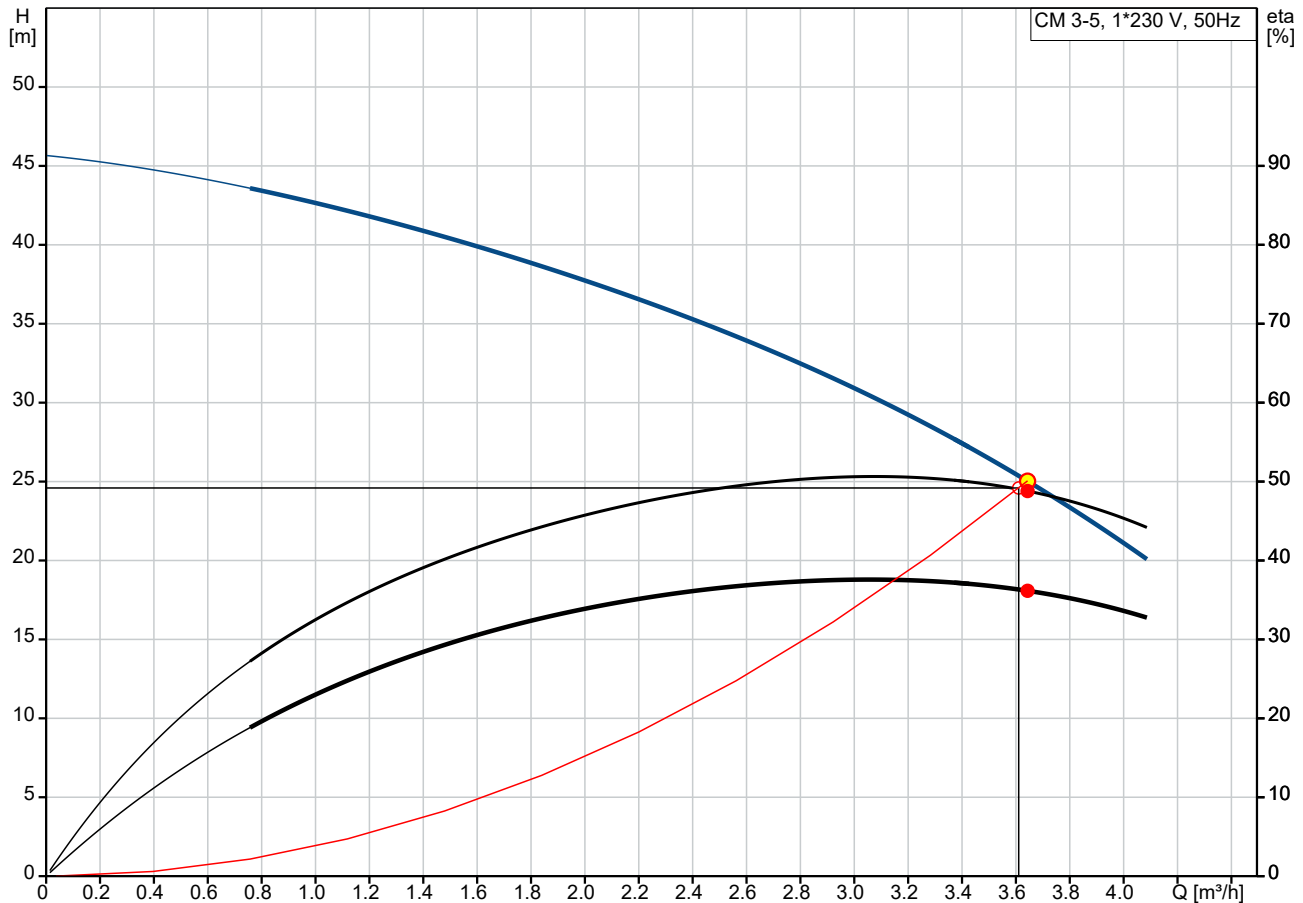


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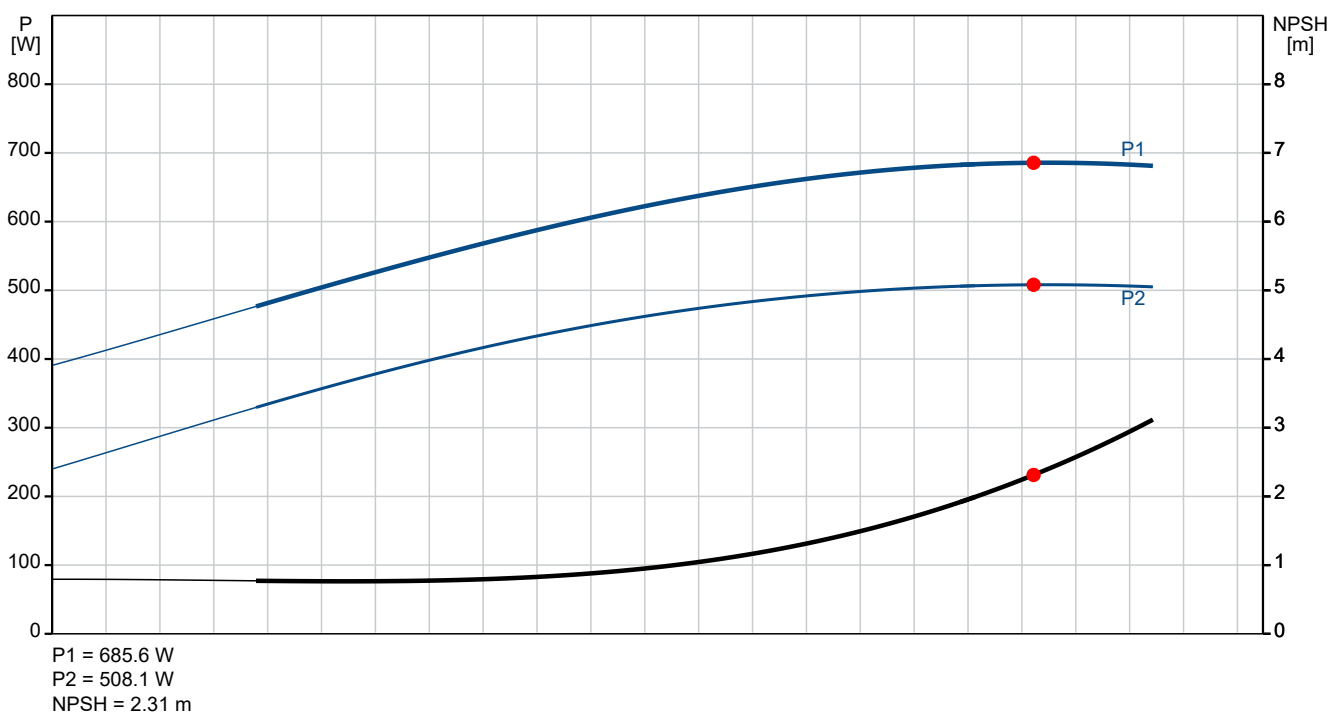
Qty.	Description
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1	Minimum efficiency index, MEI \geq : 0.7 Net weight: 13.1 kg Gross weight: 15.6 kg
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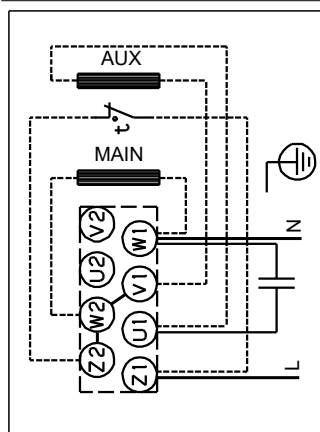
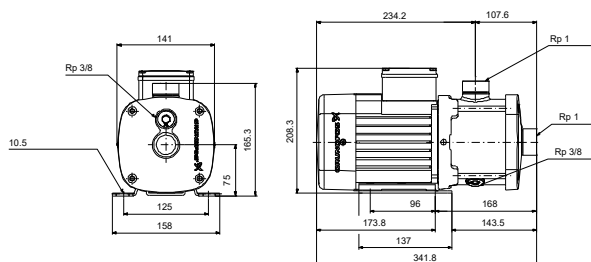
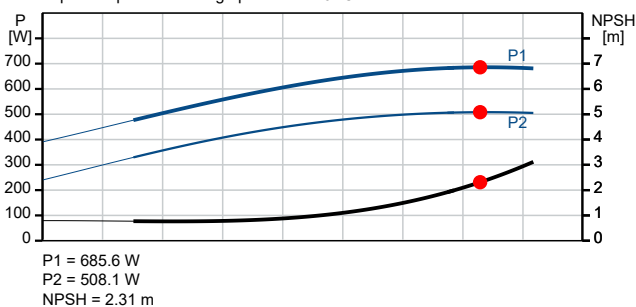
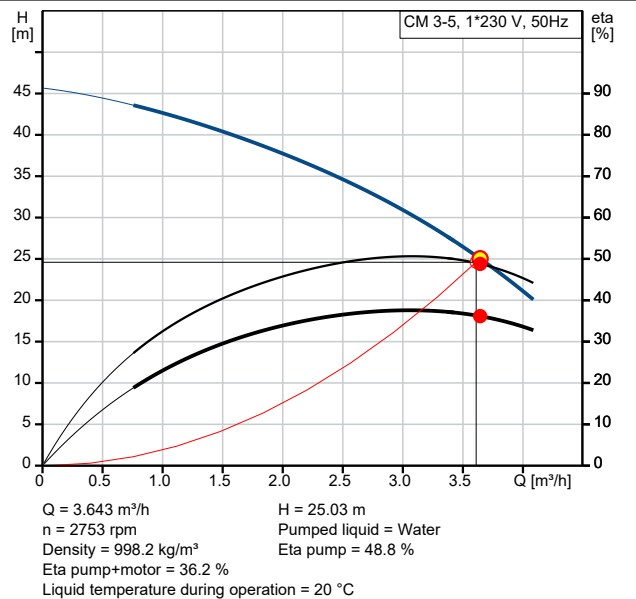
96935434 CM 3-5 A-R-G-E-AVBE C-A-A-N 50 Hz



Q = 3.643 m³/h
 n = 2753 rpm
 Liquid temperature during operation = 20 °C
 Eta pump = 48.8 %
 H = 25.03 m
 Pumped liquid = Water
 Density = 998.2 kg/m³
 Eta pump+motor = 36.2 %



Description	Value
General information:	
Product name:	CM 3-5 A-R-G-E-AVBE C-A-A-N
Product No:	96935434
EAN number:	5700314053420
Technical:	
Pump speed on which pump data are based:	2900 rpm
Actual calculated flow:	3.643 m³/h
Rated flow:	3.1 m³/h
Resulting head of the pump:	25.03 m
Rated head:	34.46 m
Impellers:	5
Code for shaft seal:	AVBE
Approvals:	CE,EAC,UKCA
Approvals for drinking water:	ACS,NSF61,UBA
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Stainless steel
Pump housing:	EN 1.4401
Pump housing:	AISI 316
Impeller:	Stainless steel
Impeller:	EN 1.4401
Impeller:	AISI 316
Material code:	G
Code for rubber:	E
Installation:	
Range of ambient temperature:	-20 .. 55 °C
Maximum operating pressure:	10 bar
Max pressure at stated temp:	10 bar / 40 °C
Max pressure at stated temp:	6 bar / 90 °C
Type of connection:	Rp
Size of inlet connection:	1 inch
Size of outlet connection:	1 inch
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:	71B
Rated power - P2:	0.5 kW
Mains frequency:	50 Hz
Suitable for 50/60 Hz:	N
Rated voltage:	1 x 220-240 V V
Service factor:	1.00
Rated current:	3.1-2.8 A
Starting current:	530-530 %
Rated speed:	2730-2740 rpm
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTO
Cable included (Yes/No):	N
Controls:	

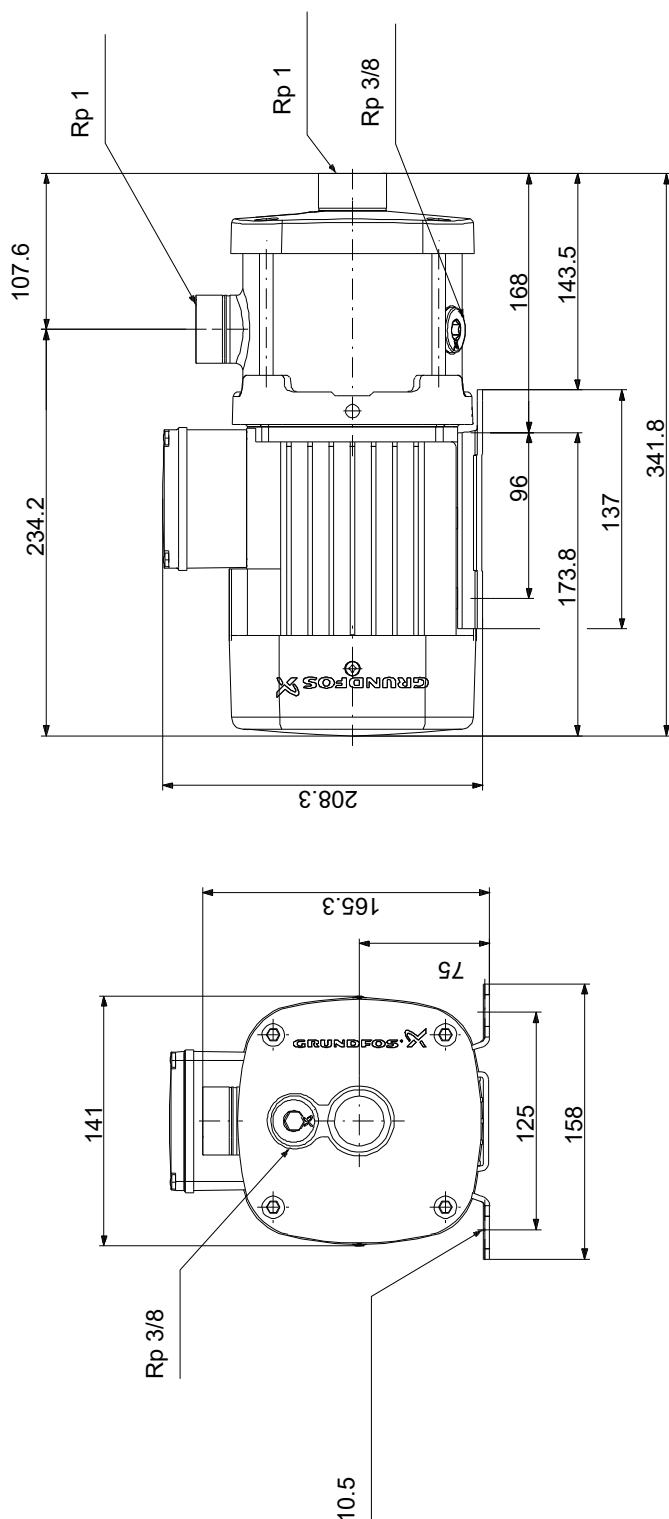




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Description	Value
Frequency converter:	NONE
Others:	
Terminal box position:	12 o'clock
Minimum efficiency index, MEI ≥:	0.7
Net weight:	13.1 kg
Gross weight:	15.6 kg

96935434 CM 3-5 A-R-G-E-AVBE C-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.