Qty. | Description

CME 3-2 A-R-G-E-AQQE U-A-D-N



Product No.: 98394777

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, fan-cooled, permanent-magnet, synchronous motor.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

The terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one configurable digital input or open-collector output
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

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.

Frequency converter operation offers these functions:

- controlled operation, i.e. consumption flucturates
- constant pressure
- communication with the pump.

Adaption of performance through frequency-controlled speed offers obvious benefits such as:

- energy savings
- increased comfort
- control and monitoring of the application and pump performance.

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

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Qty. | Description

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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: 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.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

The terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one configurable digital input or open-collector output
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

Technical data

Controls:

Frequency converter: Built-in

Liquid:

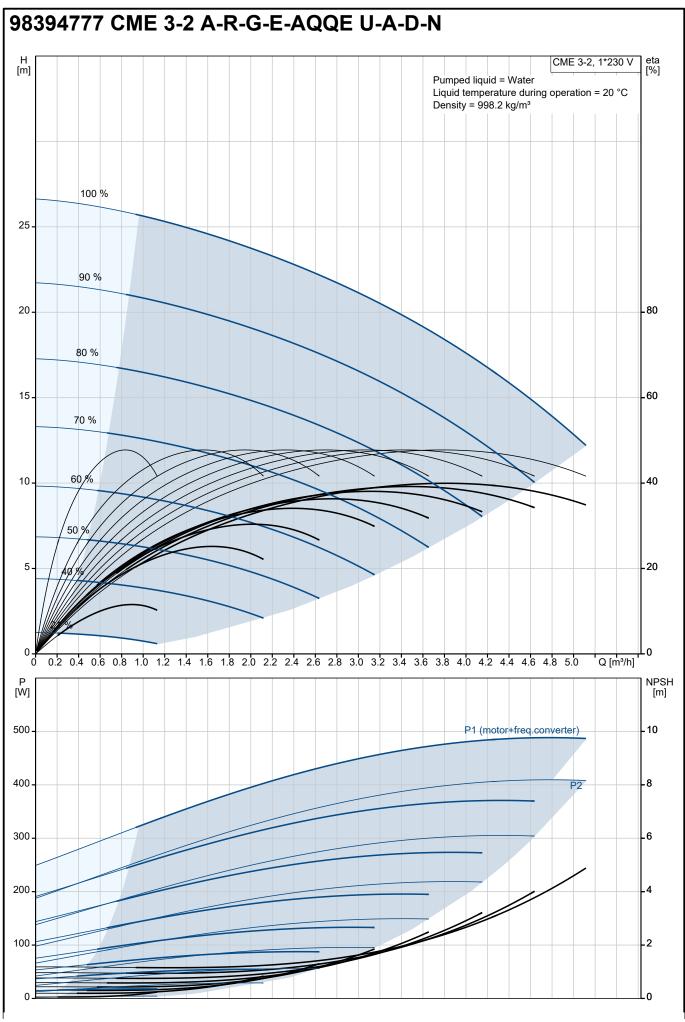
Pumped liquid: Water
Liquid temperature range: -20 .. 120 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

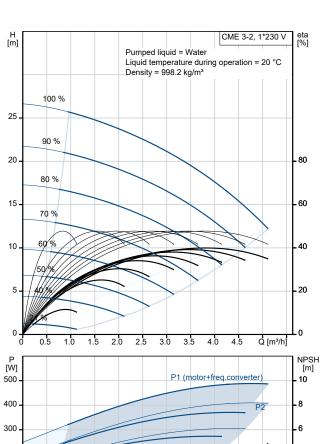
Pump speed on which pump data are based: 3480 rpm

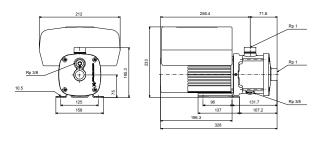
Rated flow: 3.72 m³/h
Rated head: 19.1 m
Code for shaft seal: AQQE

Description Qty. Approvals and markings: CE,EAC,CURUS,UKCA Approvals for drinking water: WRAS, ACS, UBA Curve tolerance: ISO9906:2012 3B Materials: Stainless steel Pump housing: EN 1.4401 **AISI 316** Impeller: Stainless steel EN 1.4401 **AISI 316** Installation: Range of ambient temperature: -20 .. 55 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 90 °C 10 bar / 120 °C Type of connection: Rp Size of inlet connection: 1 inch Size of outlet connection: 1 inch Outlet position: 12 Electrical data: Motor standard: IEC Frame size: 71A Rated power - P2: 0.55 kW Mains frequency: 50 / 60 Hz Suitable for 50/60 Hz: Rated voltage: 1 x 200-240 V Rated current: 3.45-2.90 A Rated speed: 360-3444 rpm Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Others: Terminal box position: 12 Minimum efficiency index, MEI ≥: 0.7 Net weight: 14.3 kg Gross weight: 17.8 kg Finnish LVI No.: 4925840 Country of origin: HU Custom tariff no.: 84137075



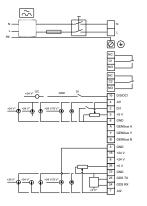
Description	Value	
General information:		
Product name:	CME 3-2 A-R-G-E-AQQE U-A-D-N	
Product No:	98394777	
EAN number:	5711494278046	
Technical:		
Pump speed on which pump data are based:	3480 rpm	
Rated flow:	3.72 m³/h	
Rated head:	19.1 m	
Impellers:	2	
Code for shaft seal:	AQQE	
Approvals and markings:	CE,EAC,CURUS,UKCA	
Approvals for drinking water:	WRAS,ACS,UBA	
Curve tolerance:	ISO9906:2012 3B	
Pump version:	A	
The first model is called A which is followed by model B, C etc.:	Α	
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:	16 bar	
Max pressure at stated temp:	16 bar / 90 °C	
Max pressure at stated temp:	10 bar / 120 °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:	-20 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:	J· · · ·	
Motor standard:	IEC	
Frame size:	71A	
Rated power - P2:	0.55 kW	
Mains frequency:	50 / 60 Hz	
Suitable for 50/60 Hz:	Υ	
Rated voltage:	1 x 200-240 V	
Rated current:	3.45-2.90 A	
Rated speed:	360-3444 rpm	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Controls:	•	
Frequency converter:	Built-in	
i roqueries conventer.	- Dulit-III	
Others:		
	12	
Terminal box position:	12 0.7	
Terminal box position: Minimum efficiency index, MEI ≥:	0.7	
Terminal box position: Minimum efficiency index, MEI ≥: Net weight:	0.7 14.3 kg	
Terminal box position: Minimum efficiency index, MEI ≥: Net weight: Gross weight:	0.7 14.3 kg 17.8 kg	
Others: Terminal box position: Minimum efficiency index, MEI ≥: Net weight: Gross weight: Finnish LVI No.: Country of origin:	0.7 14.3 kg	



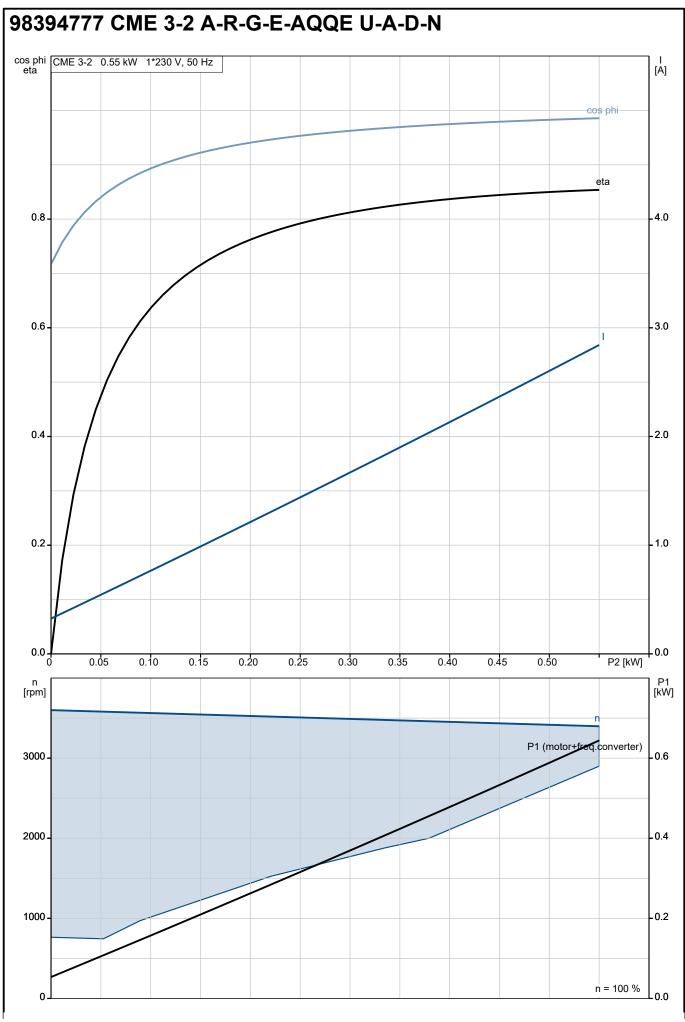


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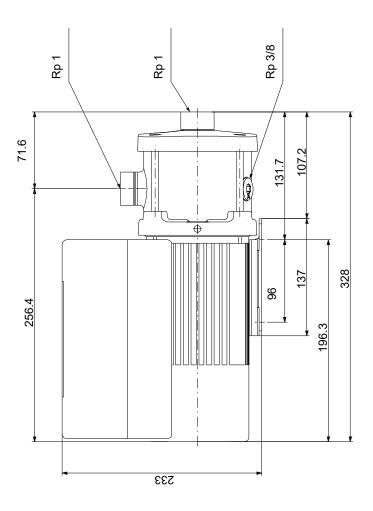
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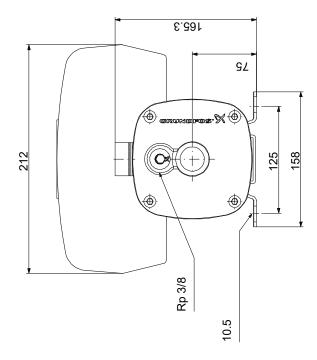


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98394777 CME 3-2 A-R-G-E-AQQE U-A-D-N





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

98394777 CME 3-2 A-R-G-E-AQQE U-A-D-N NC C1 NO NC C2 NO +24 V* OC DI GND 10 DI3/OC1 4 Al1 +24 V* +24 V*/5 V* 2 DI1 5 +5 V 6 GND Α GENIbus A Υ GENIbus Y В **GENIbus B** 3 GND 15 +24 V 8 +24 V 26 +5 V 23 GND 25 **GDS TX** 24 GDS RX +5 V* Al2 Note! All units are in [mm] unless others are stated.

Order Data:						
Position	Your pos.	Product name	Amount	Product No	Total	
		CME 3-2	1	98394777	Price on request	
					requesi	