

## CME10-1 A-R-A-V-AQQV U-A-D-N

Grundfos Pump 98394925



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Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/CMEBASIS/98394925/CME10-1-A-R-A-V-AQQV.html>

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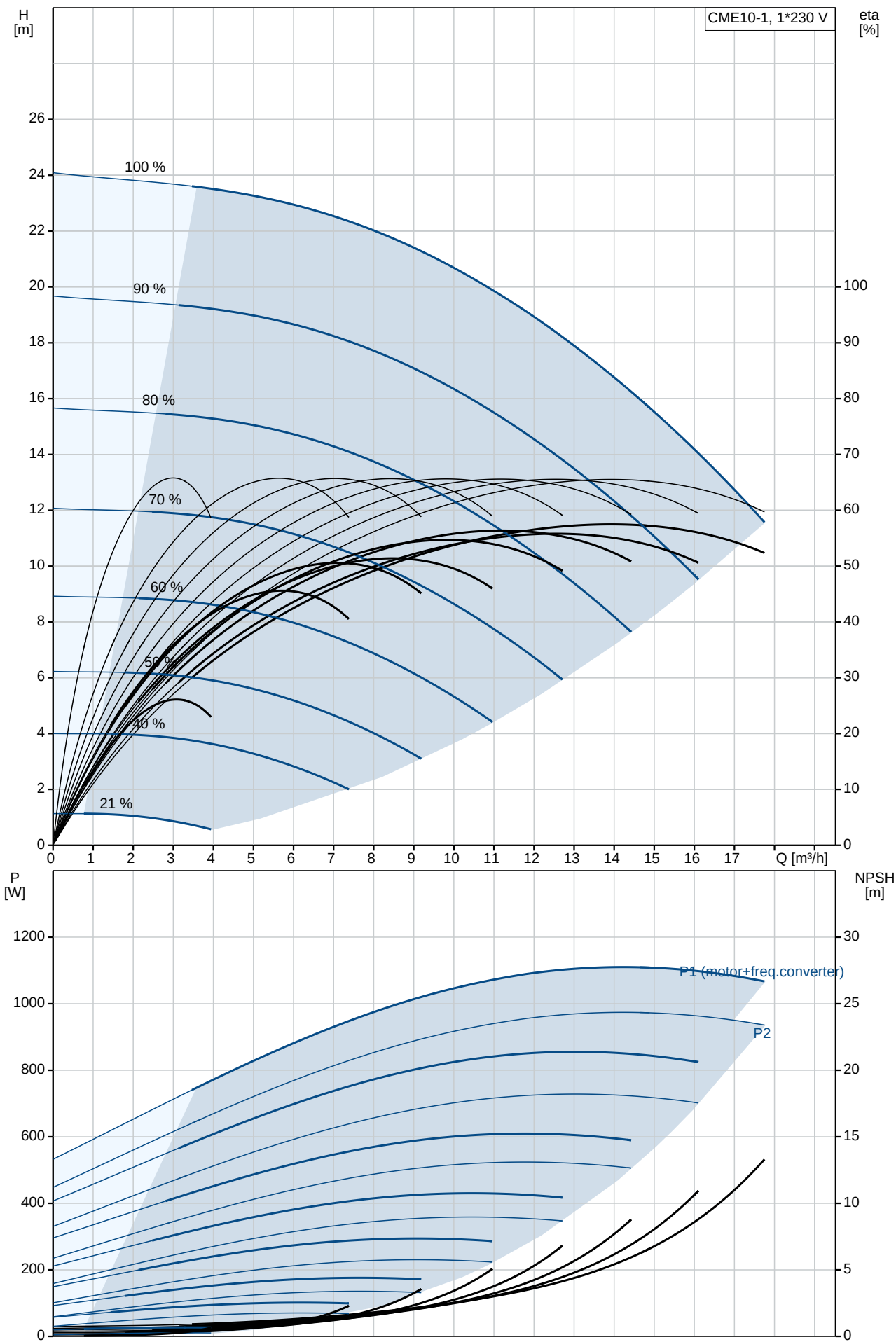
fax. +31-15-261.62.89

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|          | 1    | <p><b>CME10-1 A-R-A-V-AQV</b></p>  <p>Product No.: <a href="#">98394925</a></p> <p>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).</p> <p>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.</p> <p>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.</p> <p>A control 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 control panel provides visual indication of pump status:</p> <ul style="list-style-type: none"> <li>- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)</li> <li>- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)</li> <li>- "Alarm": Motor has stopped (flashing red indicator lights).</li> </ul> <p>Communication with the pump is possible by means of the 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".</p> <p>The terminal box holds terminals for these connections:</p> <ul style="list-style-type: none"> <li>- one dedicated digital input</li> <li>- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V</li> <li>- 5 V voltage supply to potentiometer and sensor</li> <li>- one configurable digital input or open-collector output</li> <li>- Grundfos Digital Sensor input and output</li> <li>- 24 V voltage supply for sensors</li> <li>- two signal relay outputs (potential-free contacts)</li> <li>- GENIbus connection</li> <li>- interface for Grundfos CIM fieldbus module.</li> </ul> <p><b>Further product details</b></p> <p>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.</p> <p>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.</p> <p>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 <a href="http://www.youtube.com">www.youtube.com</a>.</p> <p>Frequency converter operation offers these functions:</p> <ul style="list-style-type: none"> <li>- controlled operation, i.e. consumption fluctuates</li> <li>- constant pressure</li> <li>- communication with the pump.</li> </ul> <p>Adaption of performance through frequency-controlled speed offers obvious benefits such as:</p> <ul style="list-style-type: none"> <li>- energy savings</li> <li>- increased comfort</li> </ul> |

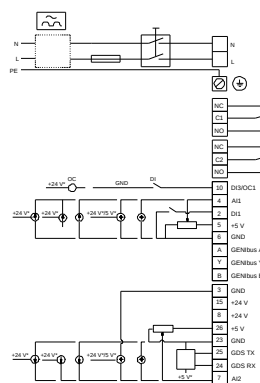
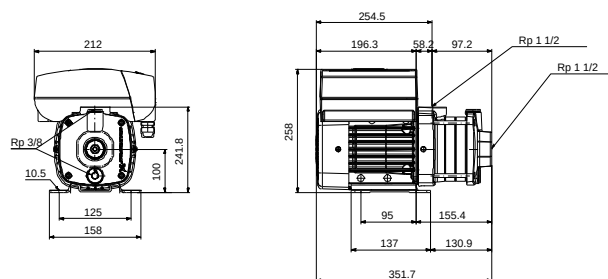
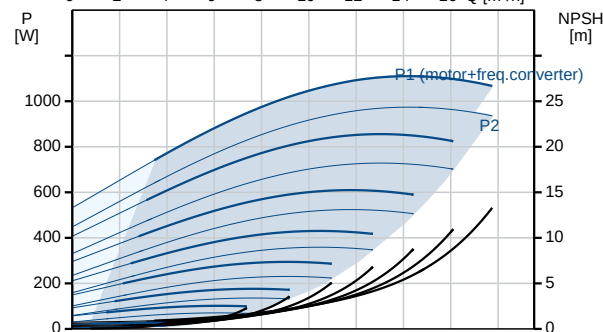
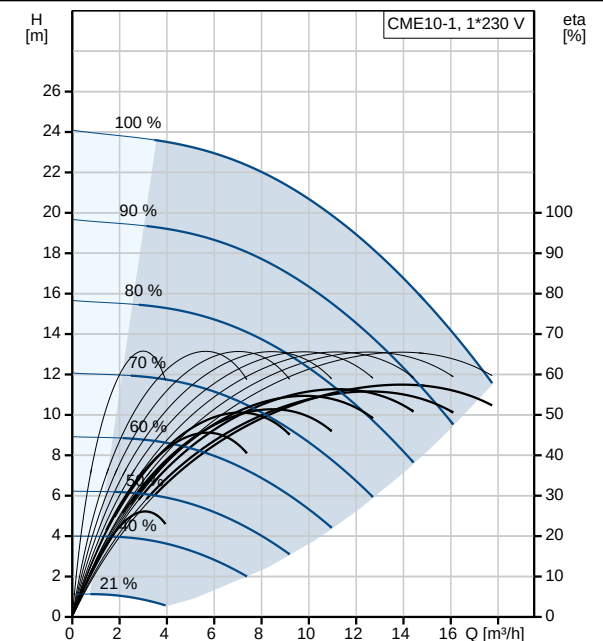
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|          |      | <ul style="list-style-type: none"> <li>- control and monitoring of the application and pump performance.</li> </ul> <p>A control 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 control panel provides visual indication of pump status:</p> <ul style="list-style-type: none"> <li>- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)</li> <li>- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)</li> <li>- "Alarm": Motor has stopped (flashing red indicator lights).</li> </ul> <p>Communication with the pump is possible by means of the 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".</p> <p><b>Pump</b></p> <p>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.</p> <p>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.</p> <p>Primary seal:</p> <ul style="list-style-type: none"> <li>- Rotating seal ring material: Silicon carbide (SiC)</li> <li>- Stationary seat material: Silicon carbide (SiC)</li> </ul> <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: FKM (fluorocarbon rubber)</p> <p>FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.</p>  <p>The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be dismantled.</p> <p><b>Motor</b></p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.</p> <p>The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.</p> <p>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.</p> <p>The terminal box holds terminals for these connections:</p> <ul style="list-style-type: none"> <li>- one dedicated digital input</li> <li>- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V</li> <li>- 5 V voltage supply to potentiometer and sensor</li> <li>- one configurable digital input or open-collector output</li> <li>- Grundfos Digital Sensor input and output</li> <li>- 24 V voltage supply for sensors</li> <li>- two signal relay outputs (potential-free contacts)</li> <li>- GENIbus connection</li> <li>- interface for Grundfos CIM fieldbus module.</li> </ul> <p><b>Technical data</b></p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -20 .. 90 °C</p> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|          |      | <p>Liquid temperature during operation: 20 °C<br/> Density: 998.2 kg/m³</p> <p><b>Technical:</b><br/> Speed for pump data: 3480 rpm<br/> Rated flow: 12 m³/h<br/> Rated head: 19.7 m<br/> Primary shaft seal: AQQV<br/> Approvals on nameplate: CE,TR,CURUS,EAC<br/> Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b><br/> Pump housing: Cast iron<br/> EN-JL1030<br/> ASTM 30 B<br/> Impeller: Stainless steel<br/> DIN W.-Nr. 1.4301<br/> AISI 304<br/> Rubber: FKM</p> <p><b>Installation:</b><br/> Maximum ambient temperature: 40 °C<br/> Maximum operating pressure: 10 bar<br/> Max pressure at stated temp: 10 bar / 90 °C<br/> Flange standard: WHITWORTH THREAD RP<br/> Pump inlet: Rp 1 1/2<br/> Pump outlet: Rp 1 1/2</p> <p><b>Electrical data:</b><br/> Motor type: 80B<br/> IE Efficiency class: IE5<br/> Rated power - P2: 1.1 kW<br/> Mains frequency: 50 Hz<br/> Rated voltage: 1 x 200-240 V<br/> Rated current: 6,70-5,60 A<br/> Rated speed: 360-4000 rpm<br/> Enclosure class (IEC 34-5): IP55<br/> Insulation class (IEC 85): F</p> <p><b>Others:</b><br/> Minimum efficiency index, MEI ≥: 0,7<br/> Net weight: 22.7 kg<br/> Gross weight: 26.2 kg</p> |

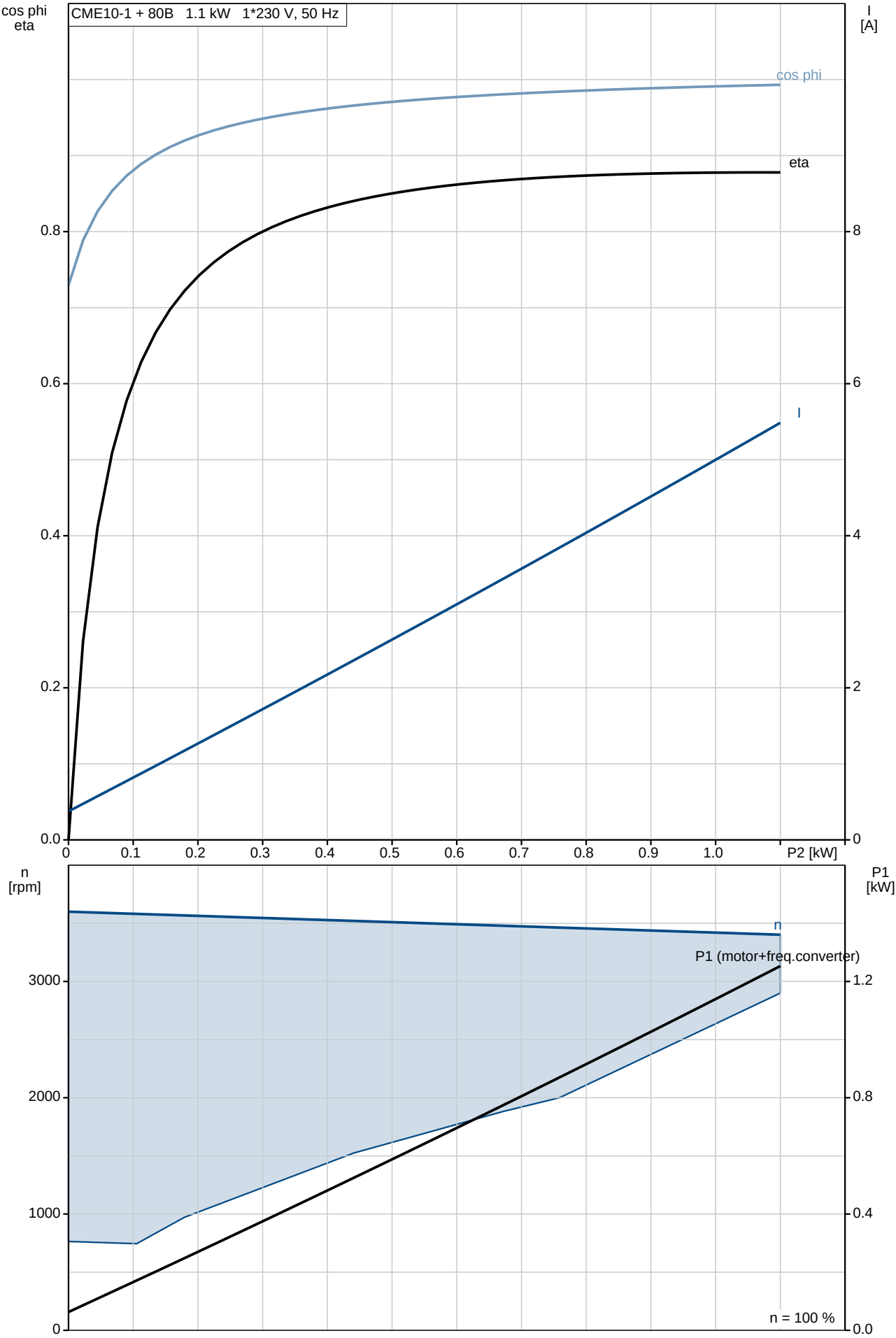
98394925 CME10-1 50 Hz



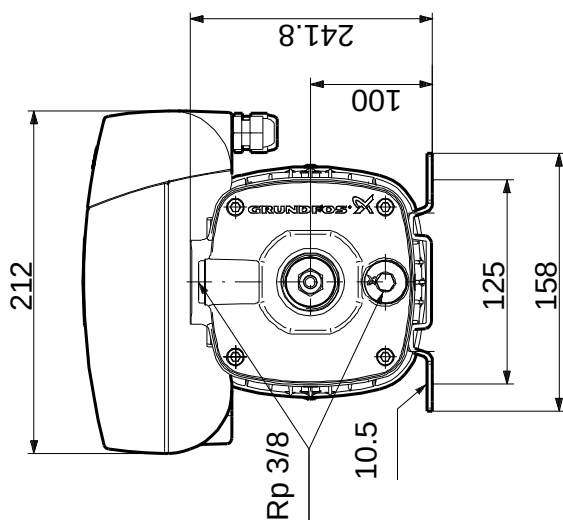
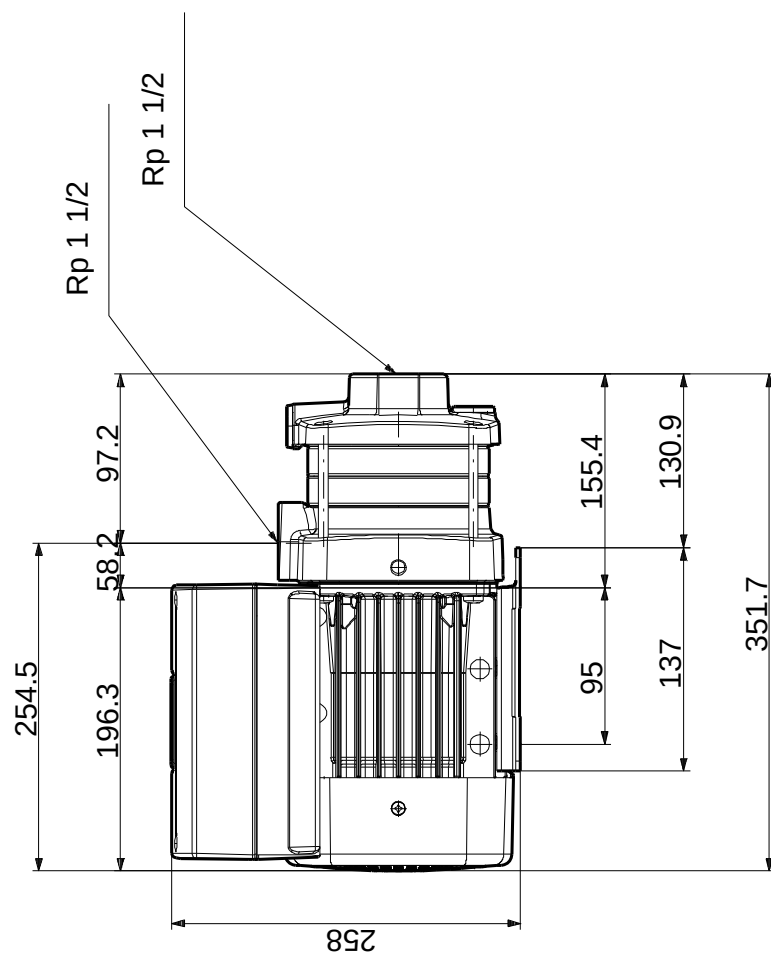
| Description                          | Value                |
|--------------------------------------|----------------------|
| <b>General information:</b>          |                      |
| Product name:                        | CME10-1 A-R-A-V-AQQV |
| Product No:                          | 98394925             |
| EAN number:                          | 5711494280537        |
| <b>Technical:</b>                    |                      |
| Speed for pump data:                 | 3480 rpm             |
| Rated flow:                          | 12 m³/h              |
| Rated head:                          | 19.7 m               |
| Impellers:                           | 1                    |
| Primary shaft seal:                  | AQQV                 |
| Approvals on nameplate:              | CE,TR,CURUS,EAC      |
| Curve tolerance:                     | ISO9906:2012 3B      |
| Pump version:                        | A                    |
| Model:                               | A                    |
| <b>Materials:</b>                    |                      |
| Pump housing:                        | Cast iron            |
|                                      | EN-JL1030            |
|                                      | ASTM 30 B            |
| Impeller:                            | Stainless steel      |
|                                      | DIN W.-Nr. 1.4301    |
|                                      | AISI 304             |
| Material code:                       | A                    |
| Rubber:                              | FKM                  |
| Code for rubber:                     | V                    |
| <b>Installation:</b>                 |                      |
| Maximum ambient temperature:         | 40 °C                |
| Maximum operating pressure:          | 10 bar               |
| Max pressure at stated temp:         | 10 bar / 90 °C       |
| Flange standard:                     | WHITWORTH THREAD RP  |
| Connect code:                        | R                    |
| Pump inlet:                          | Rp 1 1/2             |
| Pump outlet:                         | Rp 1 1/2             |
| <b>Liquid:</b>                       |                      |
| Pumped liquid:                       | Water                |
| Liquid temperature range:            | -20 .. 90 °C         |
| Liquid temperature during operation: | 20 °C                |
| Density:                             | 998.2 kg/m³          |
| <b>Electrical data:</b>              |                      |
| Motor type:                          | 80B                  |
| IE Efficiency class:                 | IE5                  |
| Rated power - P2:                    | 1.1 kW               |
| Mains frequency:                     | 50 Hz                |
| Rated voltage:                       | 1 x 200-240 V        |
| Rated current:                       | 6,70-5,60 A          |
| Rated speed:                         | 360-4000 rpm         |
| Enclosure class (IEC 34-5):          | IP55                 |
| Insulation class (IEC 85):           | F                    |
| <b>Others:</b>                       |                      |
| Minimum efficiency index, MEI ≥:     | 0,7                  |
| Net weight:                          | 22.7 kg              |
| Gross weight:                        | 26.2 kg              |
| Config. file no:                     | 98500344             |



98394925 CME10-1 50 Hz



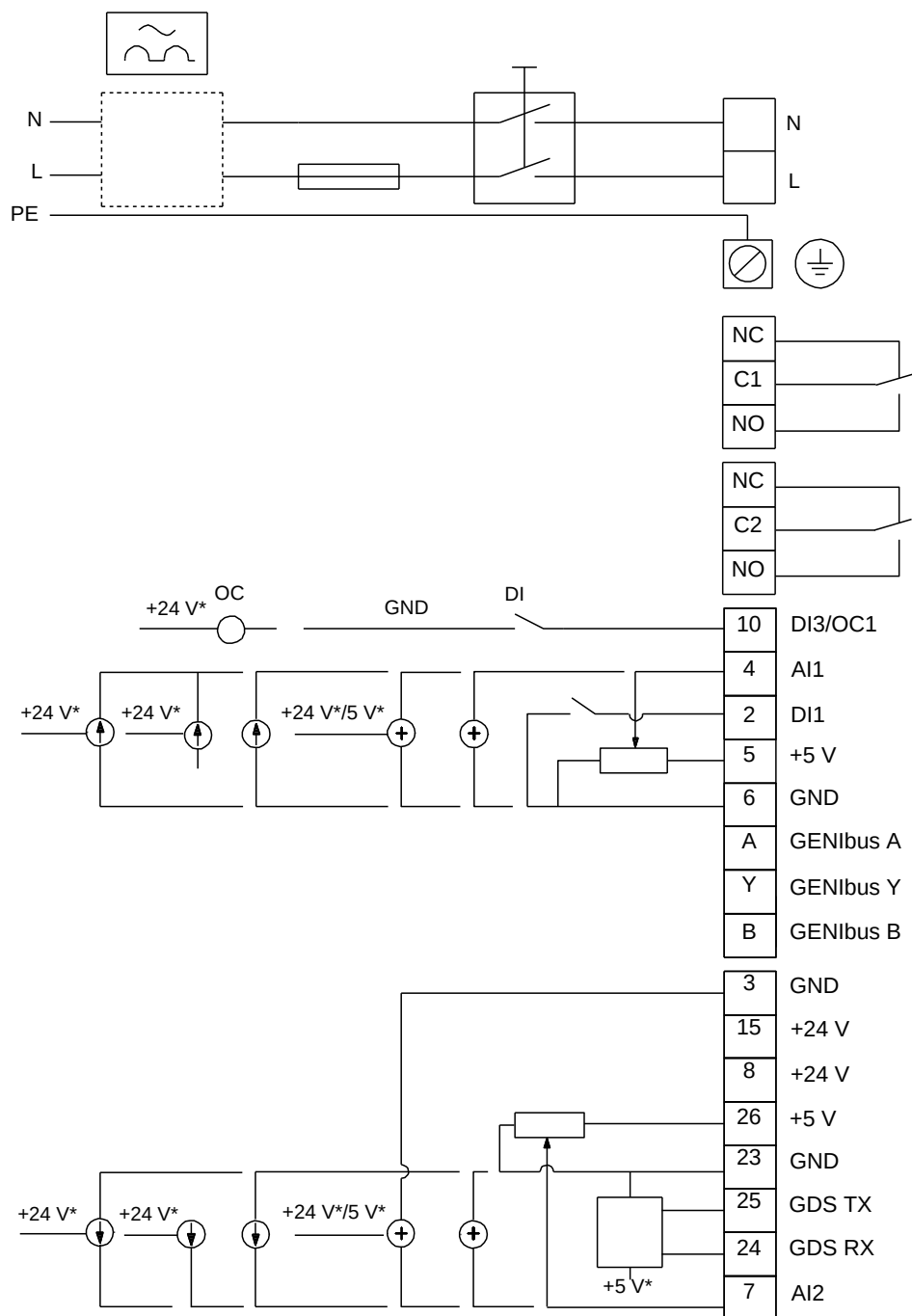
# 98394925 CME10-1 50 Hz



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



# 98394925 CME10-1 50 Hz



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

*Disclaimer: The information about the Grundfos pump in this document may be outdated.  
Data may be subject to alterations without further notice.  
Please contact us to verify the data above is still accurate/up-to-date.*

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