

## CM10-5 A-R-G-E-AQQE F-A-A-N

Grundfos pump 96943269



Thank you for your interest in our products. Please contact us for more information, or visit our website

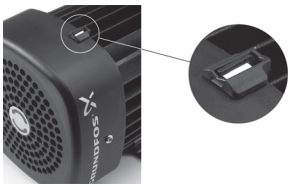
<https://www.lenntech.com/grundfos/CMBASIS/96943269/CM10-5-A-R-G-E-AQQE.html>

[info@lenntech.com](mailto:info@lenntech.com)

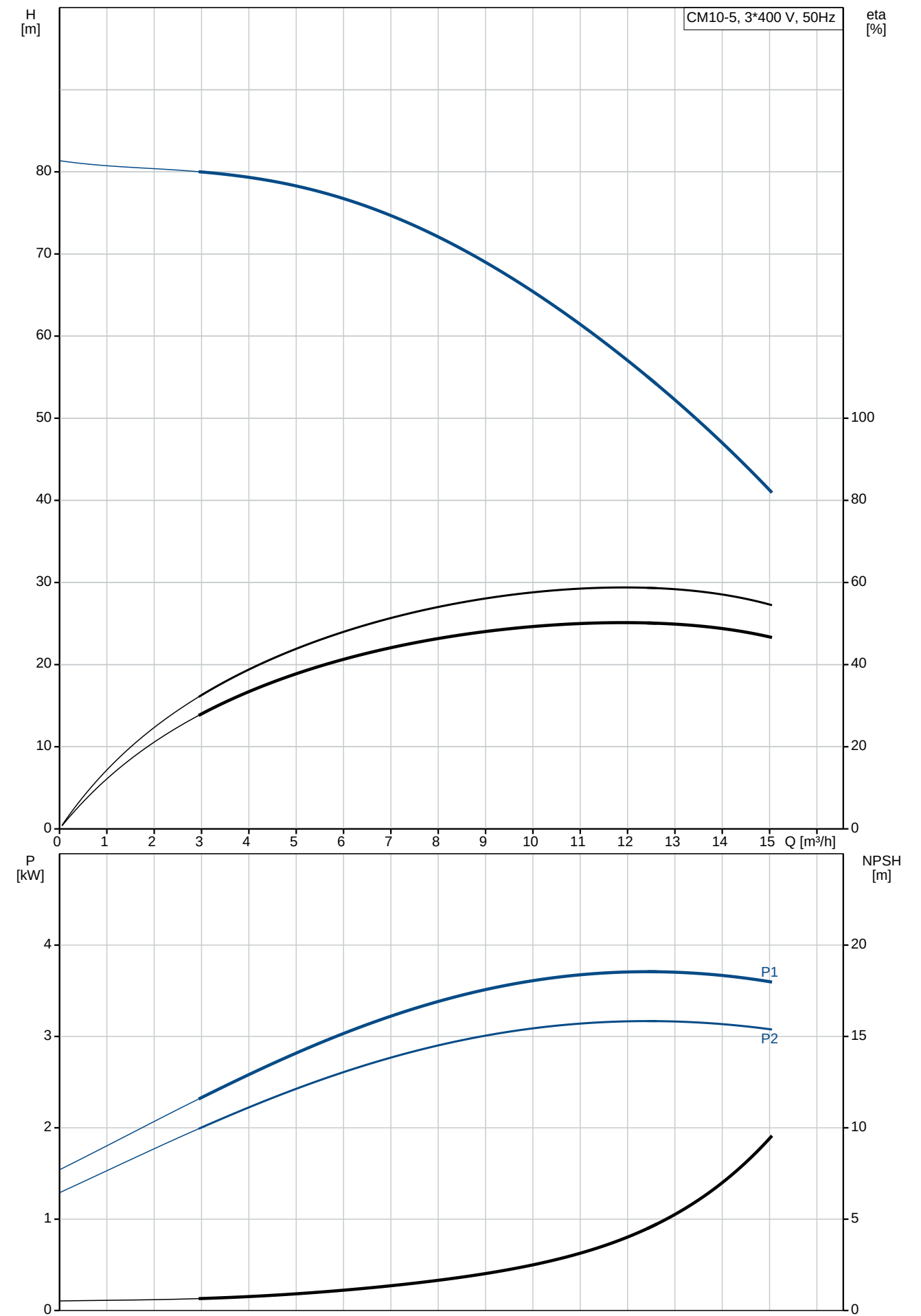
tel. +31 152 610 900

fax. +31 152 616 289

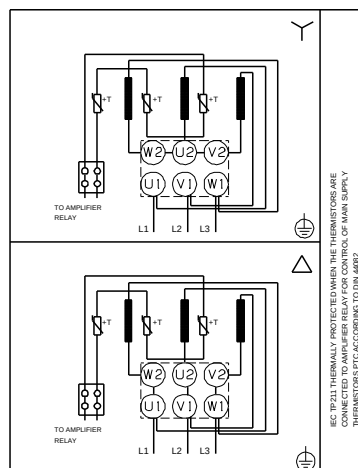
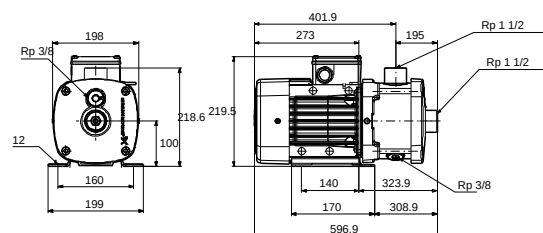
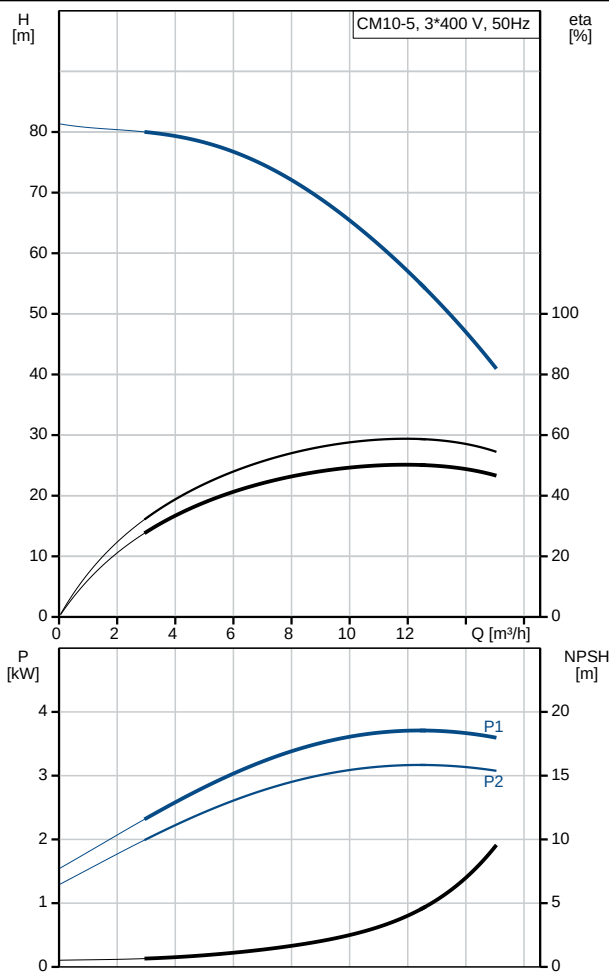
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1    | <p><b>CM10-5 A-R-G-E-AQQE</b></p>  <p>Product No.: On request</p> <p>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).</p> <p>The pump is fitted with a 3-phase, foot-mounted, fan-cooled asynchronous motor.</p> <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><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 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.</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: EPDM (ethylene-propylene rubber)</p> <p>EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</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 IE2 in accordance with IEC 60034-30.</p> <p>The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p> <p>Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.</p> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>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>The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.</p> <p><b>Technical data</b></p> <p><b>Liquid:</b><br/> Pumped liquid: Water<br/> Liquid temperature range: -20 .. 120 °C<br/> Liquid temperature during operation: 20 °C<br/> Density: 998.2 kg/m³</p> <p><b>Technical:</b><br/> Rated flow: 10 m³/h<br/> Rated head: 64.9 m<br/> Primary shaft seal: AQQE<br/> Approvals on nameplate: CE,WRAS,ACS,TR,EAC<br/> Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b><br/> Pump housing: Stainless steel<br/> DIN W.-Nr. 1.4401<br/> AISI 316<br/> Impeller: Stainless steel<br/> DIN W.-Nr. 1.4401<br/> AISI 316<br/> Rubber: EPDM</p> <p><b>Installation:</b><br/> Maximum ambient temperature: 55 °C<br/> Maximum operating pressure: 16 bar<br/> Max pressure at stated temp: 10 bar / 120 °C<br/> 16 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: 100LA<br/> IE Efficiency class: IE2<br/> Rated power - P2: 3.2 kW<br/> Mains frequency: 50 Hz<br/> Rated voltage: 3 x 220-240D/380-415Y V<br/> Service factor: 1<br/> Rated current: 11,8-11,0/6,75-6,40 A<br/> Starting current: 800-880 %<br/> Rated speed: 2900-2920 rpm<br/> Motor efficiency at full load: 84.6 %<br/> Enclosure class (IEC 34-5): IP55<br/> Insulation class (IEC 85): F</p> <p><b>Others:</b><br/> Minimum efficiency index, MEI ≥: 0.52<br/> Net weight: 34.6 kg<br/> Gross weight: 37.1 kg</p> |

On request CM10-5 A-R-G-E-AQQE 50 Hz

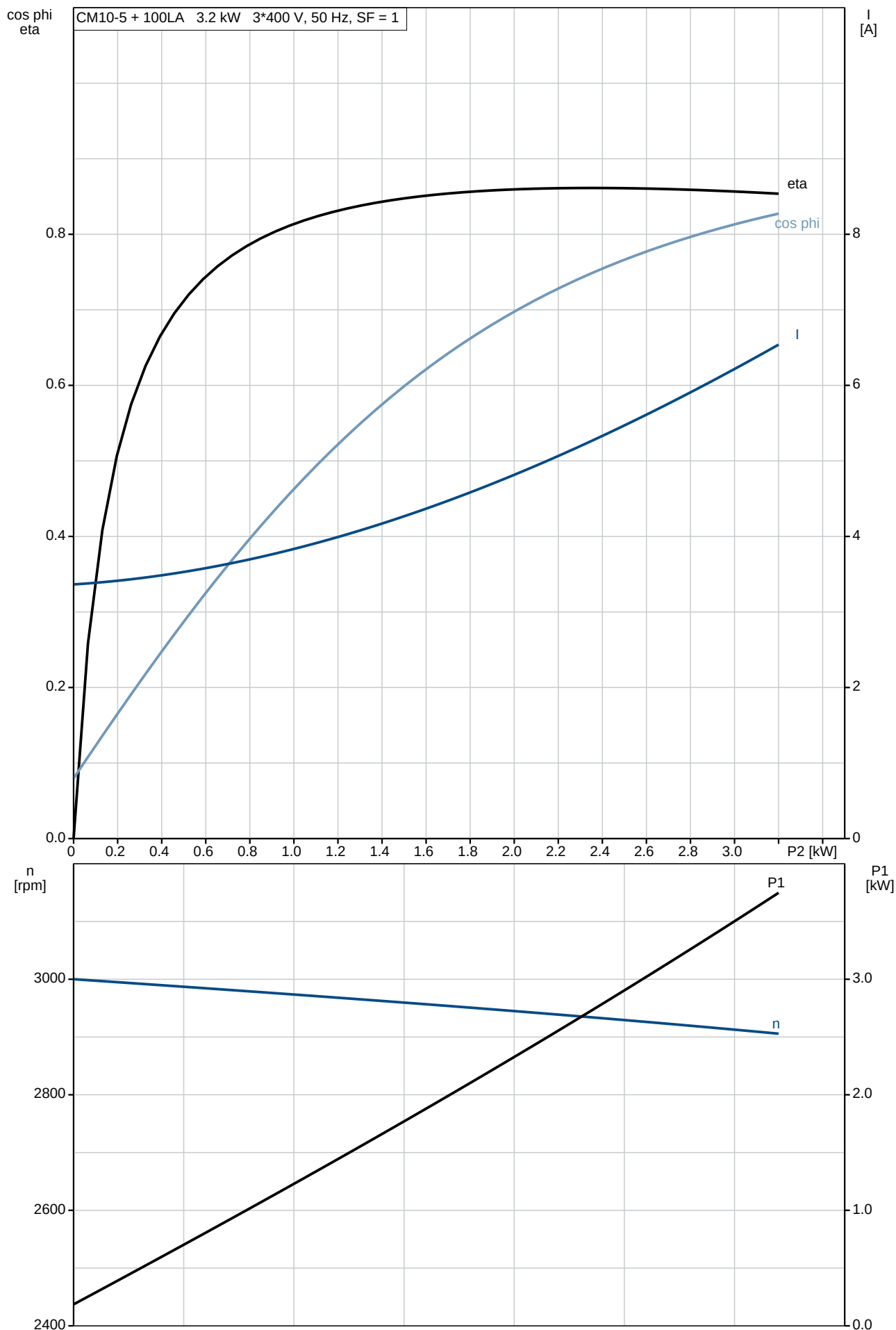


| Description                          | Value                   |
|--------------------------------------|-------------------------|
| <b>General information:</b>          |                         |
| Product name:                        | CM10-5 A-R-G-E-AQQE     |
| Product No:                          | On request              |
| EAN number:                          | On request              |
| <b>Technical:</b>                    |                         |
| Rated flow:                          | 10 m³/h                 |
| Rated head:                          | 64.9 m                  |
| Impellers:                           | 5                       |
| Primary shaft seal:                  | AQQE                    |
| Approvals on nameplate:              | CE,WRAS,ACS,TR,EAC      |
| Curve tolerance:                     | ISO9906:2012 3B         |
| Pump version:                        | A                       |
| Model:                               | A                       |
| <b>Materials:</b>                    |                         |
| Pump housing:                        | Stainless steel         |
|                                      | DIN W.-Nr. 1.4401       |
|                                      | AISI 316                |
| Impeller:                            | Stainless steel         |
|                                      | DIN W.-Nr. 1.4401       |
|                                      | AISI 316                |
| Material code:                       | G                       |
| Rubber:                              | EPDM                    |
| Code for rubber:                     | E                       |
| <b>Installation:</b>                 |                         |
| Maximum ambient temperature:         | 55 °C                   |
| Maximum operating pressure:          | 16 bar                  |
| Max pressure at stated temp:         | 10 bar / 120 °C         |
|                                      | 16 bar / 90 °C          |
| Flange standard:                     | WHITWORTH THREAD RP     |
| Pump inlet:                          | Rp 1 1/2                |
| Pump outlet:                         | Rp 1 1/2                |
| Connect code:                        | R                       |
| <b>Liquid:</b>                       |                         |
| Pumped liquid:                       | Water                   |
| Liquid temperature range:            | -20 .. 120 °C           |
| Liquid temperature during operation: | 20 °C                   |
| Density:                             | 998.2 kg/m³             |
| <b>Electrical data:</b>              |                         |
| Motor type:                          | 100LA                   |
| IE Efficiency class:                 | IE2                     |
| Rated power - P2:                    | 3.2 kW                  |
| Mains frequency:                     | 50 Hz                   |
| Rated voltage:                       | 3 x 220-240D/380-415Y V |
| Service factor:                      | 1                       |
| Rated current:                       | 11,8-11,0/6,75-6,40 A   |
| Starting current:                    | 800-880 %               |
| Rated speed:                         | 2900-2920 rpm           |
| Motor efficiency at full load:       | 84.6 %                  |
| Enclosure class (IEC 34-5):          | IP55                    |
| Insulation class (IEC 85):           | F                       |
| Motor protec:                        | TP211                   |
| <b>Others:</b>                       |                         |
| Minimum efficiency index, MEI ≥:     | 0.52                    |
| Net weight:                          | 34.6 kg                 |
| Gross weight:                        | 37.1 kg                 |

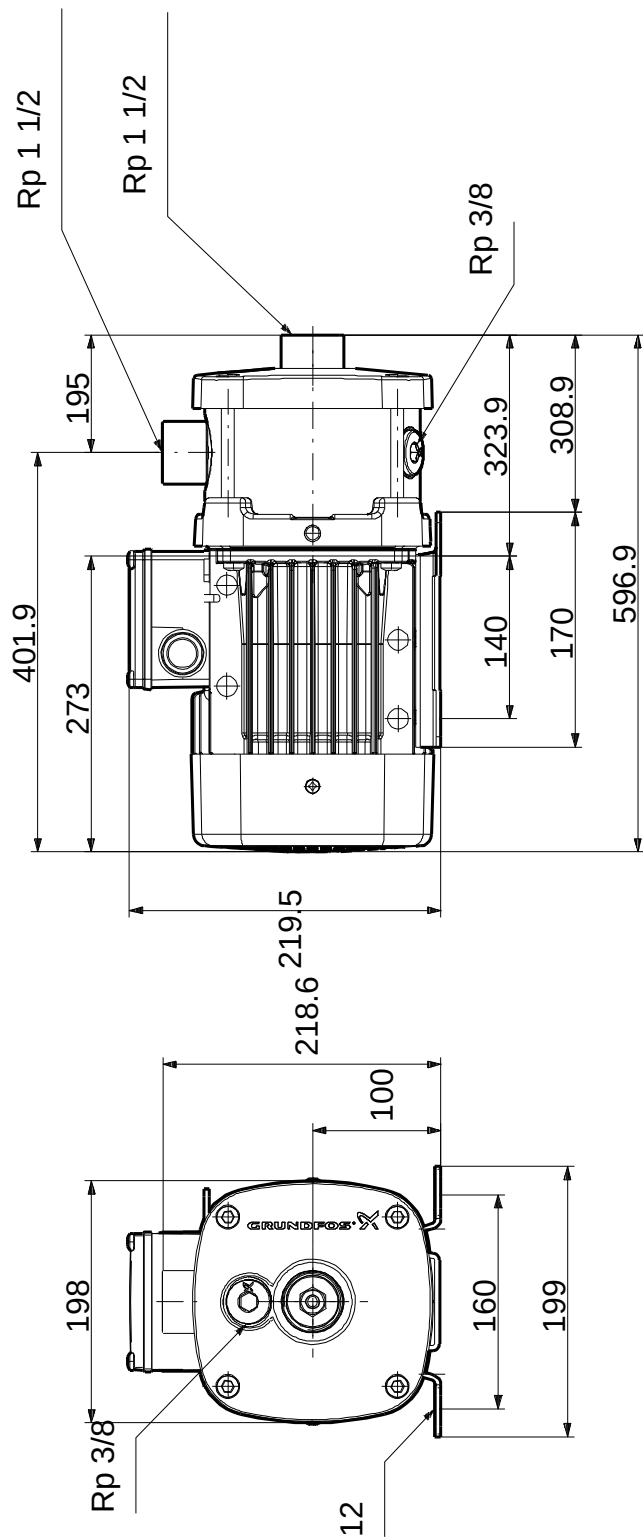


# On request CM10-5 A-R-G-E-AQQE 50 Hz

CM10-5 + 100LA 3.2 kW 3\*400 V, 50 Hz, SF = 1

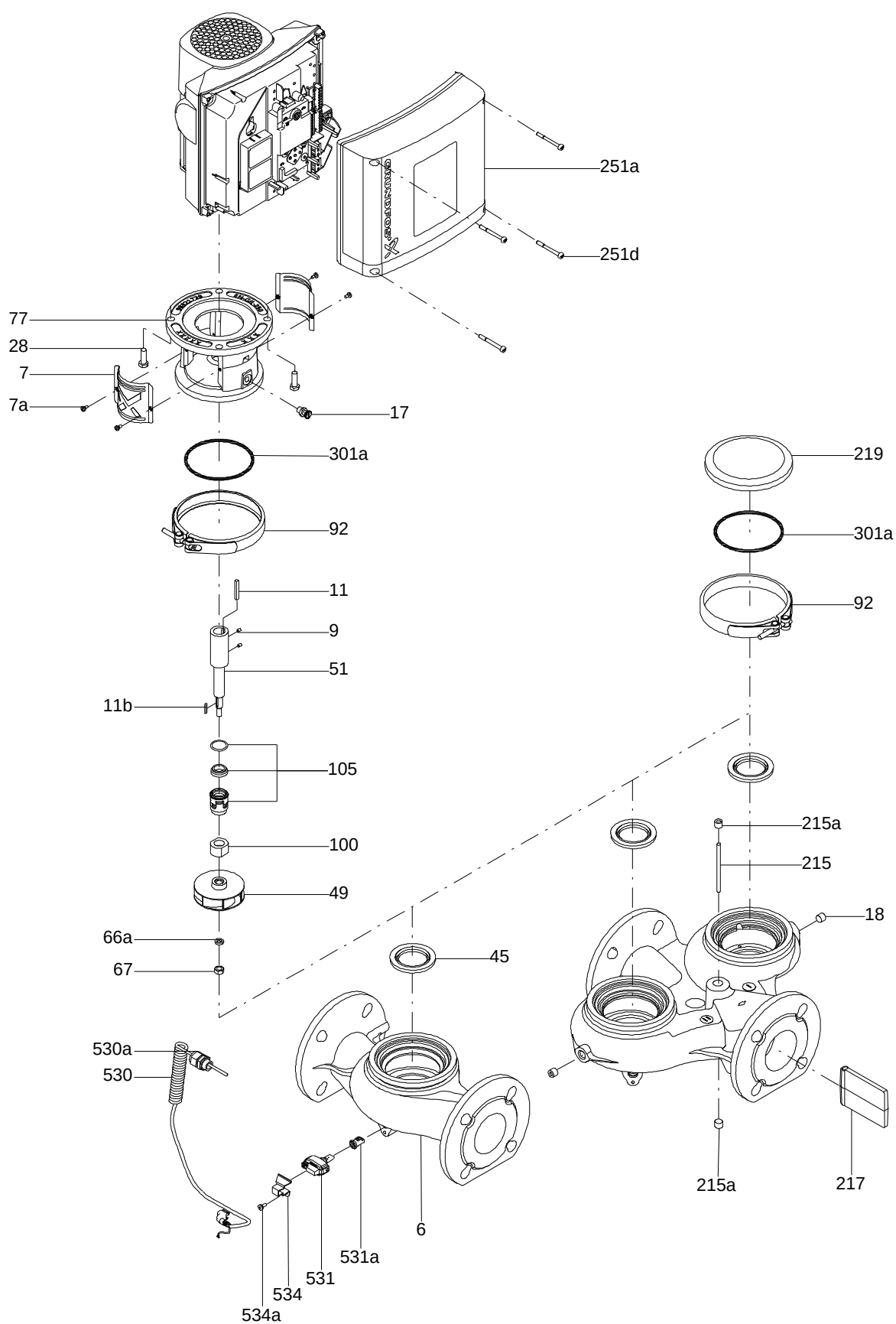


On request CM10-5 A-R-G-E-AQQE 50 Hz



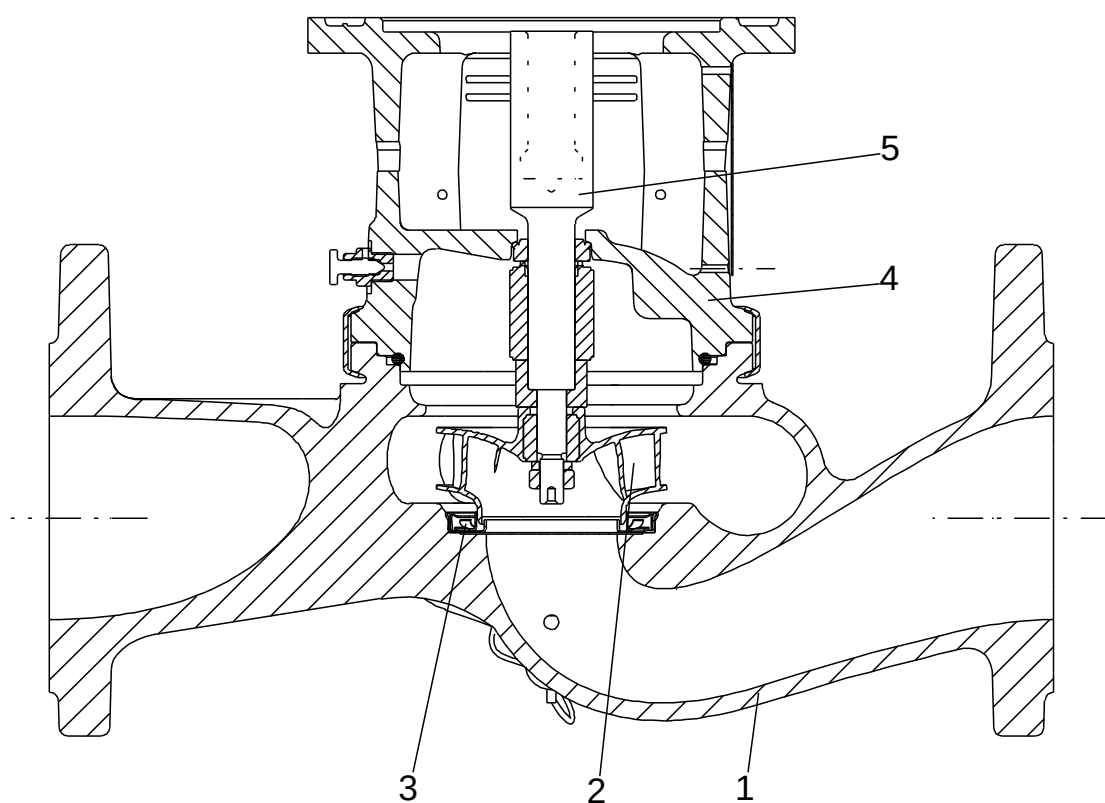
Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

# Exploded view



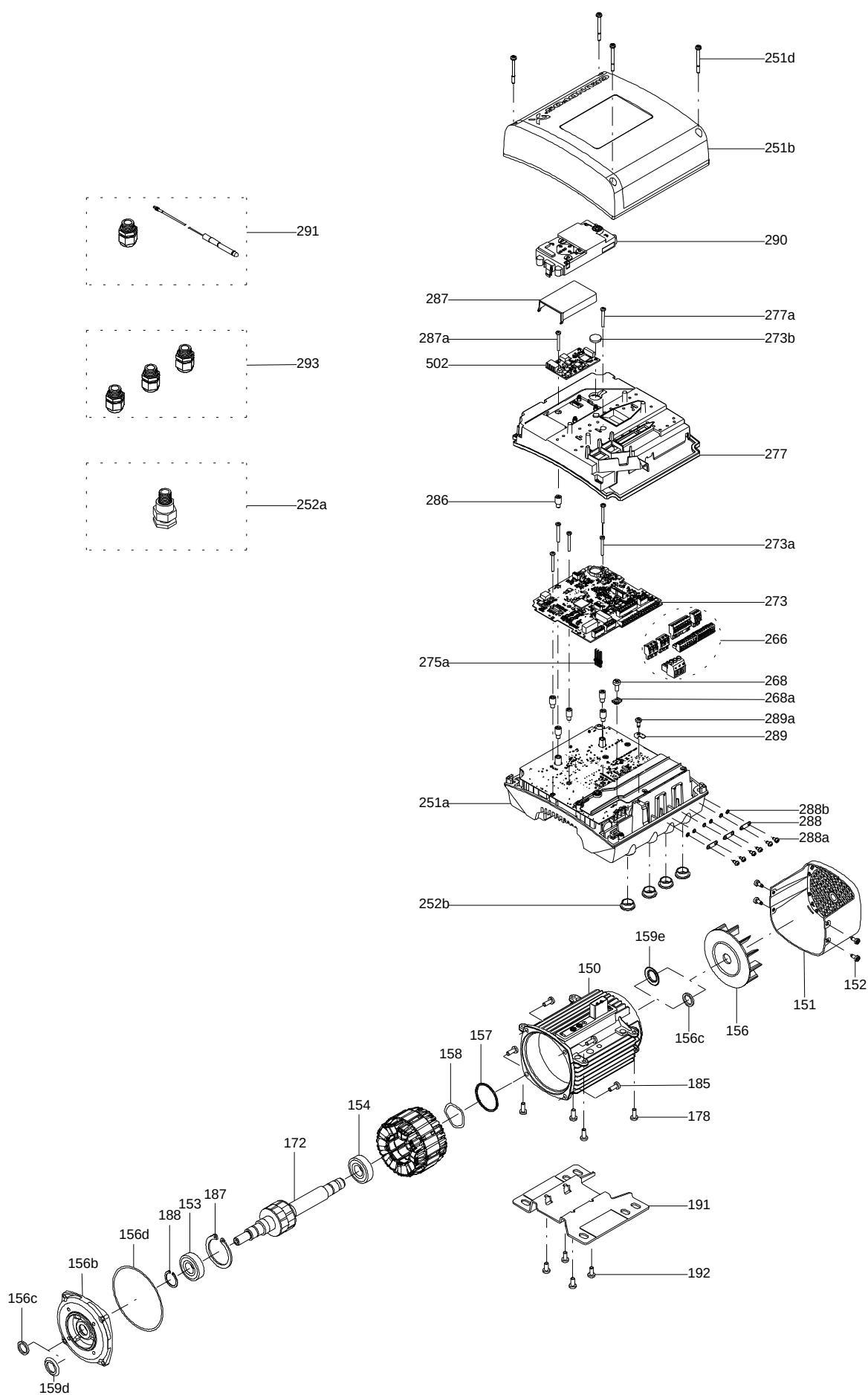


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

# Exploded view ( TM057026 for MGE model H/I )



**Parts list CM10-5, Product No. On request**  
**Valid from 9.2.2009 (0907)**

| Pos   | Description                    | Annotation | Données de classification                                 | Référence | Quantité | Unité |
|-------|--------------------------------|------------|-----------------------------------------------------------|-----------|----------|-------|
|       | MG100LA                        |            |                                                           |           | 1        | pcs   |
|       | Cross recess countersunk screw |            |                                                           |           | 4        | pcs   |
| - 4   | Chamber cpl.                   |            |                                                           |           | 4        | pcs   |
|       | Seal ring                      |            |                                                           |           | 1        |       |
|       | Cover plate                    |            |                                                           |           | 1        |       |
|       | Guide vane                     |            |                                                           |           | 10       |       |
|       | Sand Lifter                    |            |                                                           |           | 1        |       |
| 3a    | Chamber w/o guide vanes        |            |                                                           |           | 1        |       |
| 45    | Seal ring                      |            |                                                           |           | 1        |       |
| 65    | Neck ring retainer             |            |                                                           |           | 1        |       |
| - 4   | Chamber                        |            |                                                           |           | 1        | pcs   |
|       | Seal ring                      |            |                                                           |           | 1        |       |
|       | Intermediate chamber           |            |                                                           |           | 1        |       |
|       | Sand Lifter                    |            |                                                           |           | 1        |       |
| 45    | Seal ring                      |            |                                                           |           | 1        |       |
| 65    | Neck ring retainer             |            |                                                           |           | 1        |       |
| 4.d   | Chamber                        |            |                                                           |           | 1        | pcs   |
| - 4f  | Chamber cpl.                   |            |                                                           |           | 1        | pcs   |
|       | Inlet part                     |            |                                                           |           | 1        |       |
|       | Sand Lifter                    |            |                                                           |           | 1        |       |
| 6.a   | Flange                         |            |                                                           |           | 1        | pcs   |
| 16    | Collar sleeve cpl.             |            |                                                           |           | 1        | pcs   |
| - 25  | Drain plug cpl.                |            |                                                           |           | 2        | pcs   |
| 11    | O-ring                         |            | Diameter: 18,5<br>Material type: EPDM<br>Thickness: 2     |           | 1        |       |
| 25    | Plug                           |            |                                                           |           | 1        |       |
| 26    | Hex socket head cap screw      |            | Length (mm): 225<br>Thread: M8                            |           | 4        | pcs   |
| 31    | O-ring                         |            | Diameter: 153<br>Material type: EPDM<br>Thickness: 4,7    |           | 1        | pcs   |
| - 32  | Cover plate                    |            |                                                           |           | 1        | pcs   |
|       | Cover plate                    |            |                                                           |           | 1        |       |
|       | Plate                          |            |                                                           |           | 1        |       |
| 36    | Lock nut                       |            | Thread: M8                                                |           | 1        | pcs   |
| 49    | Impeller cpl.                  |            |                                                           |           | 5        | pcs   |
| 51    | Pump shaft                     |            | Diameter: D16                                             |           | 1        | pcs   |
| 64    | Spacing pipe                   |            |                                                           |           | 4        | pcs   |
| 64.a  | Spacing pipe                   |            |                                                           |           | 1        | pcs   |
| 64.c  | Clamp                          |            |                                                           |           | 1        | pcs   |
| 66    | Wedge lock washer              |            |                                                           |           | 1        | pcs   |
| 76    | Nameplate                      |            |                                                           |           | 2        | pcs   |
| - 105 | Shaft seal                     |            |                                                           |           | 1        | pcs   |
| 102   | O-ring                         |            | Diameter: 22,00<br>Material type: EPDM<br>Thickness: 2,75 |           | 1        |       |
| 103   | Seal ring, stationary          |            |                                                           |           | 1        |       |
| 104   | Seal ring, rotating            |            |                                                           |           | 1        |       |
| 107   | O-ring                         |            | Diameter: 15.5<br>Material type: EPDM<br>Thickness: 3.18  |           | 1        |       |
| 108   | Compression spring             |            |                                                           |           | 1        |       |
| 111   | Retainer                       |            |                                                           |           | 1        |       |
| 112   | Driver for shaft seal          |            |                                                           |           | 1        |       |
| 111.a | Stop ring                      |            |                                                           |           | 1        | pcs   |
| 151   | Fan cover                      |            |                                                           |           | 1        | pcs   |
| 151.a | Installation indicator         |            |                                                           |           | 1        | pcs   |
| 152   | Pan head thread forming screw  |            |                                                           |           | 4        | pcs   |

| Pos | Description | Annotation | Données de classification | Référence | Quantité | Unité |
|-----|-------------|------------|---------------------------|-----------|----------|-------|
| 156 | Fan         |            |                           |           | 1        | pcs   |
| 191 | Base plate  |            |                           |           | 1        | pcs   |

*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.*

*All information is copyright Grundfos.*



[info@lenntech.com](mailto:info@lenntech.com)

<https://www.lenntech.com>

tel. +31 152 610 900

fax. +31 152 616 289