

## CRIE5-2 AN-FGJ-I-E-HQQE 1x200-240 60HZ

Grundfos pump 98390086



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<https://www.lenntech.com/grundfos/CRIE05/98390086/CRIE-5-2-AN-FGJ-I-E-HQQE.html>

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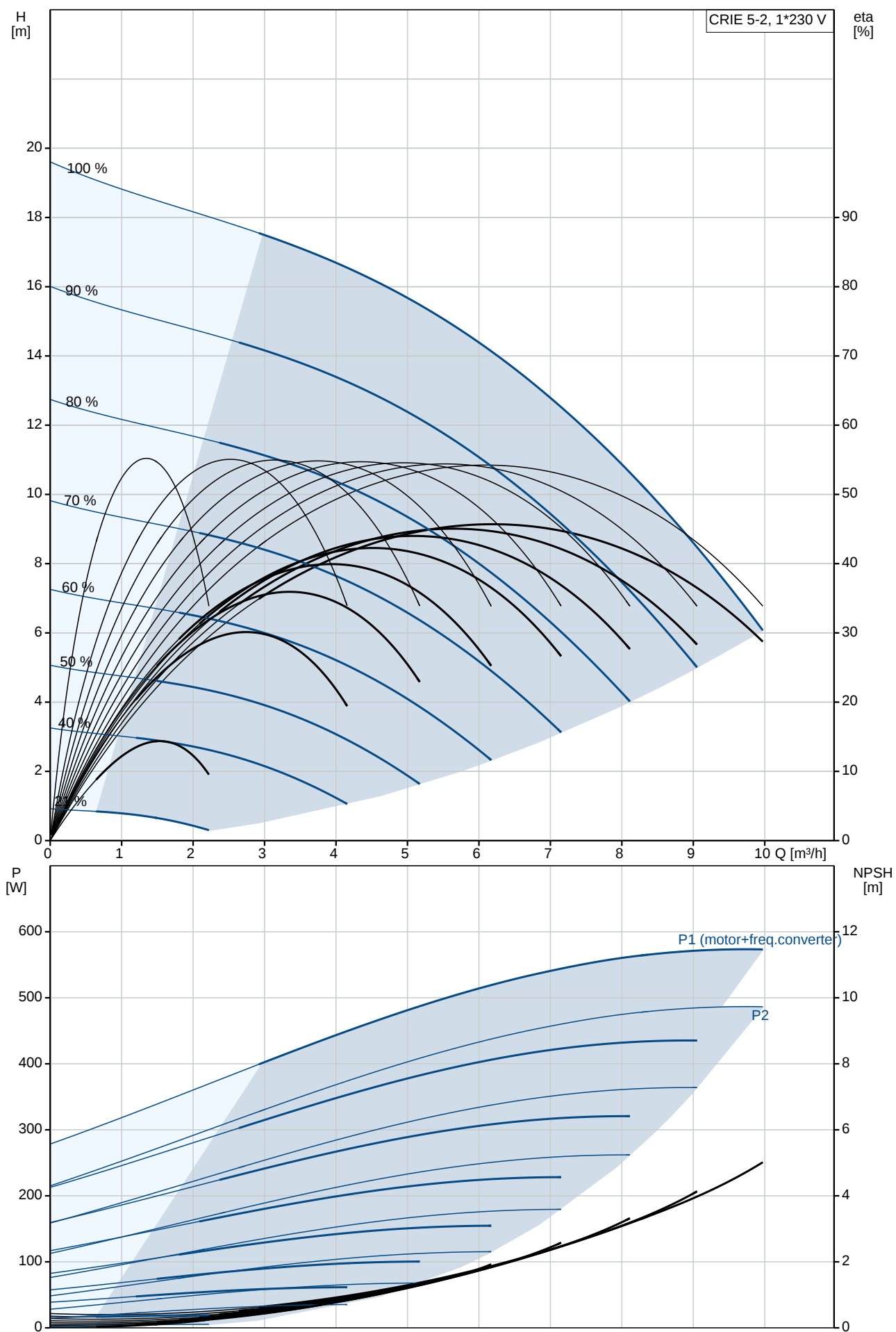
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|          | 1    | <p><b>CRIE 5-2 N-FGJ-A-E-HQQE</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: On request</p> <p>Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.</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. 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:</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 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 has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:</p> <ul style="list-style-type: none"> <li>• two dedicated digital inputs</li> <li>• three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs</li> <li>• 5 V voltage supply to potentiometer and sensor</li> <li>• one analog output, 0-10 V, 0(4)-20 mA</li> <li>• two configurable digital inputs or open-collector outputs</li> <li>• two Pt100/Pt1000 inputs</li> <li>• LiqTec, dry-running protection sensor input</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>The pump is equipped with a pressure sensor registering pump outlet pressure and enabling controlled pump operation based on constant pressure.</p> <p>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:</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> </ul> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|          |      | <ul style="list-style-type: none"> <li>"Alarm": Motor has stopped (flashing red indicator lights).</li> </ul> <p>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".</p> <p>Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:</p> <ol style="list-style-type: none"> <li>1) Alkaline-based cleaning.</li> <li>2) Zinc phosphating.</li> <li>3) Cathodic electro-deposition.</li> <li>4) Curing to a dry film thickness 18-22 my m.</li> </ol> <p>The colour code for the finished product is NCS 9000/RAL 9005.</p> <p><b>Pump</b></p> <p>A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.</p>  <p>The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). The pump head has a combined 1/2" priming plug and vent screw.</p>  <p>The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.</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 shaft seal is screwed into the pump head.</p> <p>The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.</p> |

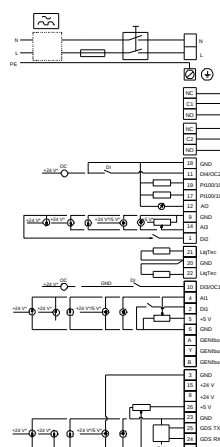
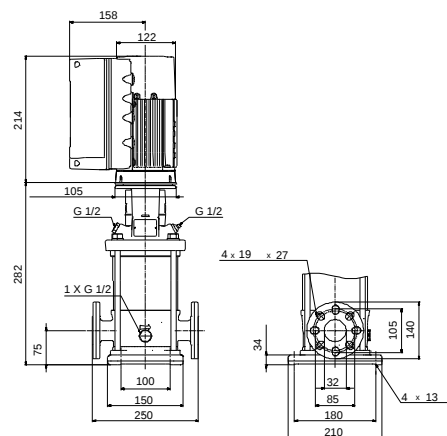
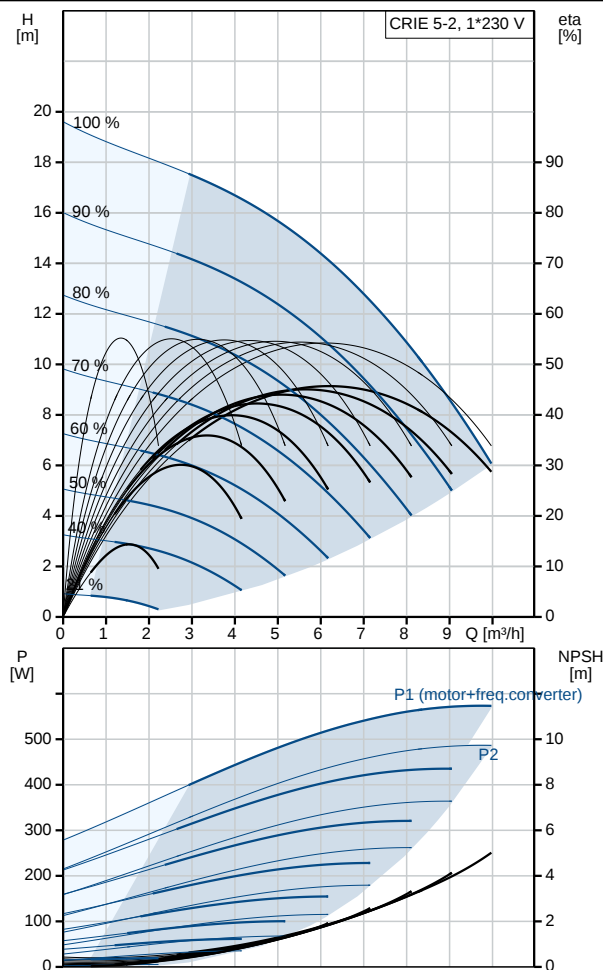
| Position                             | Qty.                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
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|                                      |                                          | <p>The pump has a stainless-steel base mounted on a seperate base plate. This base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS.</p> <p><b>Motor</b></p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with tapped-hole flange (FT).</p> <p>Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (Code II).</p> <p>Electrical tolerances comply with IEC 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><b>Technical data</b></p> <p><b>Controls:</b></p> <table><tr><td>Frequency converter:</td><td>Built-in</td></tr><tr><td>Pressure sensor:</td><td>Y</td></tr></table> <p><b>Liquid:</b></p> <table><tr><td>Pumped liquid:</td><td>Water</td></tr><tr><td>Liquid temperature range:</td><td>-20 .. 120 °C</td></tr><tr><td>Liquid temperature during operation:</td><td>20 °C</td></tr><tr><td>Density:</td><td>998.2 kg/m³</td></tr></table> <p><b>Technical:</b></p> <table><tr><td>Rated flow:</td><td>6.9 m³/h</td></tr><tr><td>Rated head:</td><td>12.2 m</td></tr><tr><td>Pump orientation:</td><td>Vertical</td></tr><tr><td>Shaft seal arrangement:</td><td>Single</td></tr><tr><td>Code for shaft seal:</td><td>HQQE</td></tr><tr><td>Approvals on nameplate:</td><td>CE, EAC,ACS</td></tr><tr><td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr></table> <p><b>Materials:</b></p> <table><tr><td>Base:</td><td>Stainless steel<br/>EN 1.4408<br/>AISI 316</td></tr><tr><td>Impeller:</td><td>Stainless steel<br/>EN 1.4301<br/>AISI 304</td></tr><tr><td>Bearing:</td><td>SIC</td></tr></table> <p><b>Installation:</b></p> <table><tr><td>Maximum ambient temperature:</td><td>50 °C</td></tr><tr><td>Maximum operating pressure:</td><td>25 bar</td></tr><tr><td>Max pressure at stated temp:</td><td>25 bar / 120 °C<br/>25 bar / -20 °C</td></tr><tr><td>Type of connection:</td><td>DIN / ANSI / JIS</td></tr><tr><td>Size of inlet connection:</td><td>DN 25/32<br/>1 1/4 inch</td></tr><tr><td>Size of outlet connection:</td><td>DN 25/32<br/>1 1/4 inch</td></tr><tr><td>Pressure rating for pipe connection:</td><td>PN 25</td></tr><tr><td>Flange rating inlet:</td><td>300 lb</td></tr><tr><td>Flange size for motor:</td><td>FT85</td></tr></table> <p><b>Electrical data:</b></p> <table><tr><td>Motor standard:</td><td>IEC</td></tr><tr><td>Motor type:</td><td>71A</td></tr><tr><td>IE Efficiency class:</td><td>IE5</td></tr><tr><td>Rated power - P2:</td><td>0.55 kW</td></tr><tr><td>Power (P2) required by pump:</td><td>0.55 kW</td></tr><tr><td>Mains frequency:</td><td>50 Hz</td></tr></table> | Frequency converter: | Built-in | Pressure sensor: | Y | Pumped liquid: | Water | Liquid temperature range: | -20 .. 120 °C | Liquid temperature during operation: | 20 °C | Density: | 998.2 kg/m³ | Rated flow: | 6.9 m³/h | Rated head: | 12.2 m | Pump orientation: | Vertical | Shaft seal arrangement: | Single | Code for shaft seal: | HQQE | Approvals on nameplate: | CE, EAC,ACS | Curve tolerance: | ISO9906:2012 3B | Base: | Stainless steel<br>EN 1.4408<br>AISI 316 | Impeller: | Stainless steel<br>EN 1.4301<br>AISI 304 | Bearing: | SIC | Maximum ambient temperature: | 50 °C | Maximum operating pressure: | 25 bar | Max pressure at stated temp: | 25 bar / 120 °C<br>25 bar / -20 °C | Type of connection: | DIN / ANSI / JIS | Size of inlet connection: | DN 25/32<br>1 1/4 inch | Size of outlet connection: | DN 25/32<br>1 1/4 inch | Pressure rating for pipe connection: | PN 25 | Flange rating inlet: | 300 lb | Flange size for motor: | FT85 | Motor standard: | IEC | Motor type: | 71A | IE Efficiency class: | IE5 | Rated power - P2: | 0.55 kW | Power (P2) required by pump: | 0.55 kW | Mains frequency: | 50 Hz |
| Frequency converter:                 | Built-in                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Pressure sensor:                     | Y                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Pumped liquid:                       | Water                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Liquid temperature range:            | -20 .. 120 °C                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Liquid temperature during operation: | 20 °C                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Density:                             | 998.2 kg/m³                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Rated flow:                          | 6.9 m³/h                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Rated head:                          | 12.2 m                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Pump orientation:                    | Vertical                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Shaft seal arrangement:              | Single                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Code for shaft seal:                 | HQQE                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Approvals on nameplate:              | CE, EAC,ACS                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Curve tolerance:                     | ISO9906:2012 3B                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Base:                                | Stainless steel<br>EN 1.4408<br>AISI 316 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Impeller:                            | Stainless steel<br>EN 1.4301<br>AISI 304 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Bearing:                             | SIC                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Maximum ambient temperature:         | 50 °C                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Maximum operating pressure:          | 25 bar                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Max pressure at stated temp:         | 25 bar / 120 °C<br>25 bar / -20 °C       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Type of connection:                  | DIN / ANSI / JIS                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Size of inlet connection:            | DN 25/32<br>1 1/4 inch                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Size of outlet connection:           | DN 25/32<br>1 1/4 inch                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Pressure rating for pipe connection: | PN 25                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Flange rating inlet:                 | 300 lb                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Flange size for motor:               | FT85                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Motor standard:                      | IEC                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Motor type:                          | 71A                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| IE Efficiency class:                 | IE5                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Rated power - P2:                    | 0.55 kW                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Power (P2) required by pump:         | 0.55 kW                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |
| Mains frequency:                     | 50 Hz                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |          |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                        |                            |                        |                                      |       |                      |        |                        |      |                 |     |             |     |                      |     |                   |         |                              |         |                  |       |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Rated voltage: 1 x 200-240 V</p> <p>Rated current: 3.45-2.90 A</p> <p>Cos phi - power factor: 0.98</p> <p>Rated speed: 360-4000 rpm</p> <p>Efficiency: 85.3%</p> <p>Motor efficiency at full load: 85.3 %</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p><b>Others:</b></p> <p>Minimum efficiency index, MEI ≥: 0.57</p> <p>Net weight: 23.4 kg</p> <p>Gross weight: 26.3 kg</p> <p>Shipping volume: 0.143 m³</p> |

# On request CRIE 5-2 N-FGJ-A-E-HQQE 50 Hz

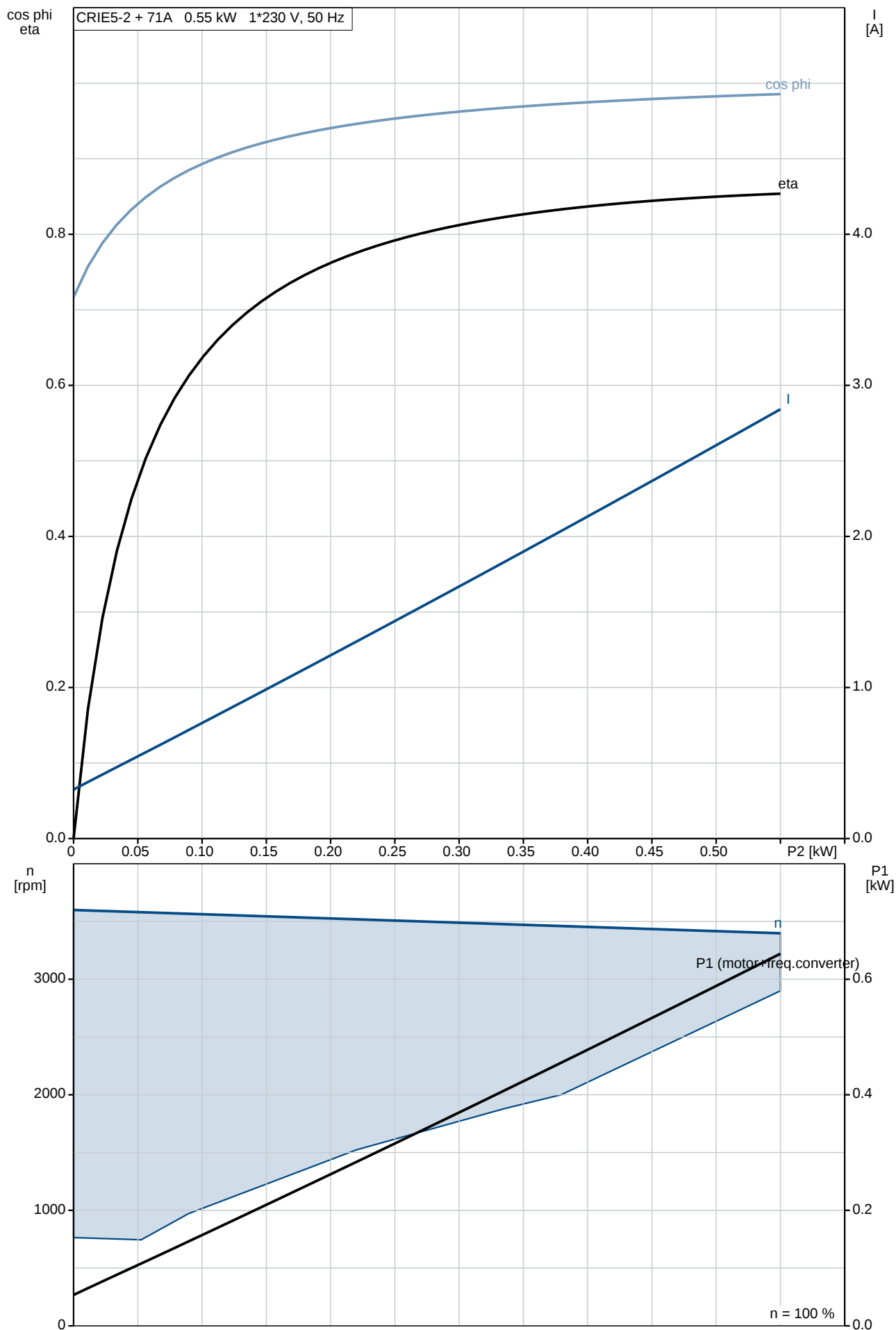


| Description                           | Value                              |
|---------------------------------------|------------------------------------|
| <b>General information:</b>           |                                    |
| Product name:                         | CRIE 5-2 N-FGJ-A-E-HQQE            |
| Product No:                           | On request                         |
| EAN number:                           | On request                         |
| <b>Technical:</b>                     |                                    |
| Rated flow:                           | 6.9 m <sup>3</sup> /h              |
| Rated head:                           | 12.2 m                             |
| Stages:                               | 2                                  |
| Impellers:                            | 2                                  |
| Number of reduced-diameter impellers: | 0                                  |
| Low NPSH:                             | N                                  |
| Pump orientation:                     | Vertical                           |
| Shaft seal arrangement:               | Single                             |
| Code for shaft seal:                  | HQQE                               |
| Approvals on nameplate:               | CE, EAC, ACS                       |
| Curve tolerance:                      | ISO9906:2012 3B                    |
| Pump version:                         | N                                  |
| Model:                                | A                                  |
| <b>Materials:</b>                     |                                    |
| Base:                                 | Stainless steel<br>EN 1.4408       |
|                                       | AISI 316                           |
| Impeller:                             | Stainless steel<br>EN 1.4301       |
|                                       | AISI 304                           |
| Material code:                        | A                                  |
| Code for rubber:                      | E                                  |
| Bearing:                              | SIC                                |
| <b>Installation:</b>                  |                                    |
| Maximum ambient temperature:          | 50 °C                              |
| Maximum operating pressure:           | 25 bar                             |
| Max pressure at stated temp:          | 25 bar / 120 °C<br>25 bar / -20 °C |
| Type of connection:                   | DIN / ANSI / JIS                   |
| Size of inlet connection:             | DN 25/32<br>1 1/4 inch             |
| Size of outlet connection:            | DN 25/32<br>1 1/4 inch             |
| Pressure rating for pipe connection:  | PN 25                              |
| Flange rating inlet:                  | 300 lb                             |
| Flange size for motor:                | FT85                               |
| Connect code:                         | FGJ                                |
| <b>Liquid:</b>                        |                                    |
| Pumped liquid:                        | Water                              |
| Liquid temperature range:             | -20 .. 120 °C                      |
| Liquid temperature during operation:  | 20 °C                              |
| Density:                              | 998.2 kg/m <sup>3</sup>            |
| <b>Electrical data:</b>               |                                    |
| Motor standard:                       | IEC                                |
| Motor type:                           | 71A                                |
| IE Efficiency class:                  | IE5                                |
| Rated power - P2:                     | 0.55 kW                            |
| Power (P2) required by pump:          | 0.55 kW                            |
| Mains frequency:                      | 50 Hz                              |
| Rated voltage:                        | 1 x 200-240 V                      |
| Rated current:                        | 3.45-2.90 A                        |
| Cos phi - power factor:               | 0.98                               |
| Rated speed:                          | 360-4000 rpm                       |
| Efficiency:                           | 85.3%                              |
| Motor efficiency at full load:        | 85.3 %                             |
| Enclosure class (IEC 34-5):           | IP55                               |
| Insulation class (IEC 85):            | F                                  |
| Motor protec:                         | YES                                |

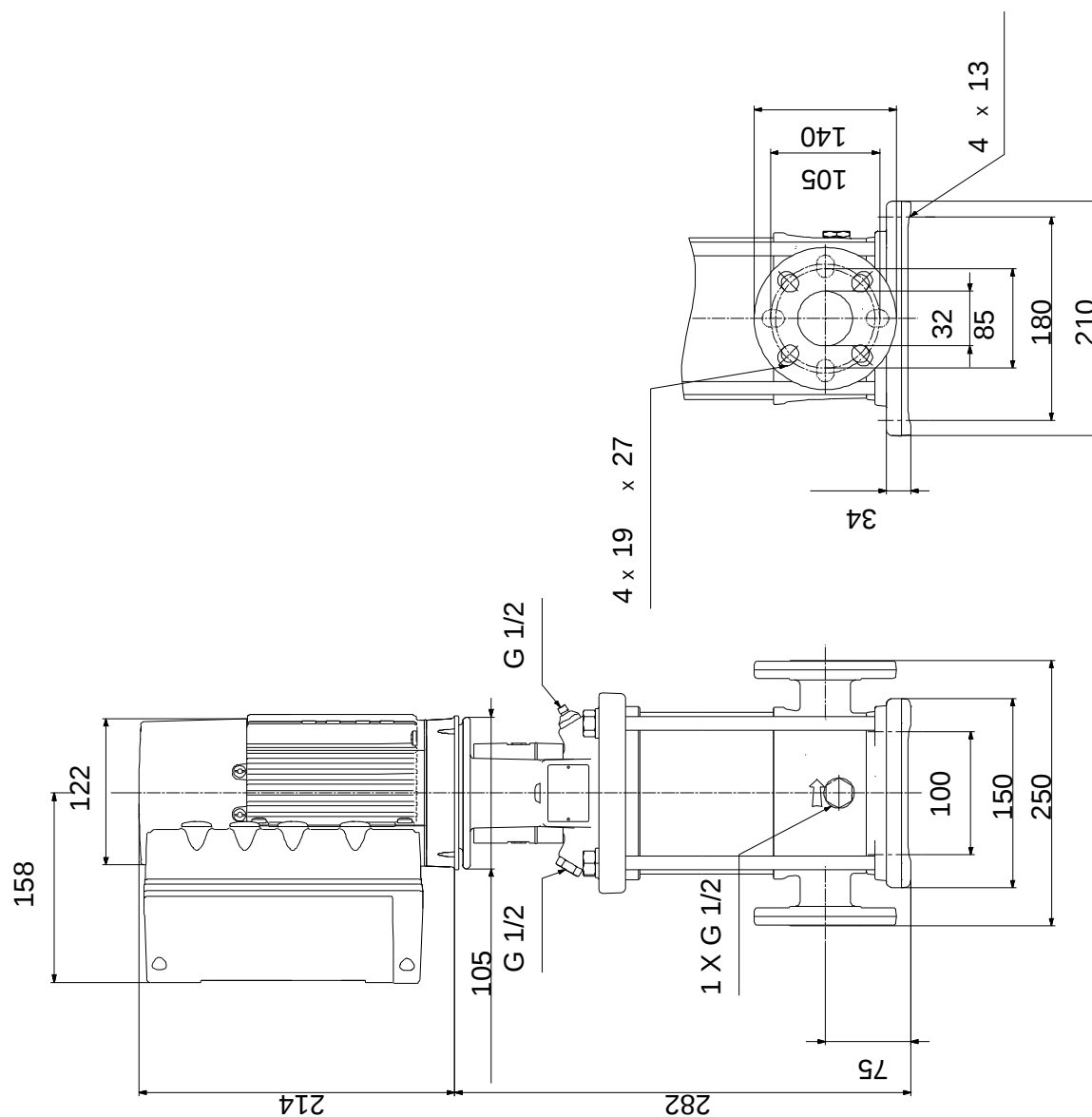


| Description                      | Value            |
|----------------------------------|------------------|
| Motor No:                        | 98248246         |
| <b>Controls:</b>                 |                  |
| Control panel:                   | Standard         |
| Function Module:                 | FM300 - Advanced |
| Frequency converter:             | Built-in         |
| Pressure sensor:                 | Y                |
| <b>Others:</b>                   |                  |
| Minimum efficiency index, MEI ≥: | 0.57             |
| Net weight:                      | 23.4 kg          |
| Gross weight:                    | 26.3 kg          |
| Shipping volume:                 | 0.143 m³         |

# On request CRIE 5-2 N-FGJ-A-E-HQQE 50 Hz



# On request CRIE 5-2 N-FGJ-A-E-HQQE 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 CRIE 5-2, Product No. On request**  
**Valid from 25.12.2012 (1252)**

| Pos   | Description                   | Annotation | Données de classification   | Référence | Quantité | Unité |
|-------|-------------------------------|------------|-----------------------------|-----------|----------|-------|
| -     | Motor                         |            |                             |           | 1        | pcs   |
|       | Terminal                      |            |                             |           | 3        |       |
|       | Pan head thread forming screw |            |                             |           | 4        |       |
| 150   | Stator housing                |            |                             |           | 1        |       |
| 150   | Stator                        |            |                             |           | 1        |       |
| 151   | Fan cover                     |            |                             |           | 1        |       |
| 152   | Pan head thread forming screw |            |                             |           | 6        |       |
| 152   | Pan head thread forming screw |            |                             |           | 1        |       |
| 152   | Pan head thread forming screw |            |                             |           | 4        |       |
| 152   | Pan head thread forming screw |            |                             |           | 1        |       |
| 153   | Ball bearing                  |            | Designation: 6204.2Z.C3.SYN |           | 1        |       |
| 154   | Ball bearing                  |            | Designation: 6204.2Z.C3.SYN |           | 1        |       |
| 156   | Fan                           |            |                             |           | 1        |       |
| 156b  | Flange                        |            |                             |           | 1        |       |
| 156d  | Gasket                        |            | Internal diameter: 114,80   |           | 1        |       |
|       |                               |            | Outer diameter: 121,20      |           |          |       |
|       |                               |            | Thickness: 0,25             |           |          |       |
| 157   | O-ring                        |            | Diameter: 47                |           | 1        |       |
|       |                               |            | Material type: NBR          |           |          |       |
|       |                               |            | Thickness: 3                |           |          |       |
| 158   | Waved washer                  |            |                             |           | 1        |       |
| 159c  | Seal ring                     |            |                             |           | 1        |       |
| 159c  | Seal ring                     |            |                             |           | 1        |       |
| 172   | Shaft w/rotor                 |            |                             |           | 1        |       |
| 173a  | Base                          |            |                             |           | 1        |       |
| 185   | Cross recess Pan head screw   |            |                             |           | 4        |       |
| 186   | Drain plug                    |            |                             |           | 1        |       |
| 203   | Terminal plug                 |            |                             |           | 1        |       |
| 251a  | Control box                   |            |                             |           | 1        |       |
| 251b  | Control box                   |            |                             |           | 1        |       |
| 251d  | Pan head thread forming screw |            |                             |           | 4        |       |
| 266   | Connector plug 3-pole         |            |                             |           | 1        |       |
| 266   | Connector plug 3-pole         |            |                             |           | 1        |       |
| 266   | Connector plug 8-pole         |            |                             |           | 1        |       |
| 266   | Connector plug 8-pole         |            |                             |           | 1        |       |
| 266   | Connector plug 8-pole         |            |                             |           | 1        |       |
| 266   | Connector plug 2-pole         |            |                             |           | 1        |       |
| 266   | Connector plug 10-pole        |            |                             |           | 1        |       |
| 268   | Pan head screw                |            |                             |           | 1        |       |
| 273   | Funct. Module cpl.            |            |                             |           | 1        |       |
| 273b  | Battery                       |            |                             |           | 1        |       |
| 275a  | Pin                           |            |                             |           | 1        |       |
| 277   | Isolation cover               |            |                             |           | 1        |       |
| 277a  | Cross recess Pan head screw   |            |                             |           | 1        |       |
| 277a  | Cross recess Pan head screw   |            |                             |           | 4        |       |
| 277a  | Cross recess Pan head screw   |            |                             |           | 1        |       |
| 286   | Spacer                        |            |                             |           | 1        |       |
| 287   | Cover                         |            |                             |           | 1        |       |
| 288   | Wire clamp                    |            |                             |           | 3        |       |
| 288b  | Washer                        |            |                             |           | 6        |       |
| 289   | Wire clamp                    |            |                             |           | 1        |       |
| 290   | Control panel, cpl.           |            |                             |           | 1        |       |
| 300   | Plug cpl.                     |            |                             |           | 4        |       |
| 301   | Jumper                        |            |                             |           | 1        |       |
| -     | Base cpl.                     |            |                             |           | 1        | pcs   |
| 6     | Base                          |            |                             |           | 1        |       |
| 56    | Base plate                    |            |                             |           | 1        |       |
| 201.a | Flange                        |            |                             |           | 2        |       |
| 203   | Lock ring                     |            |                             |           | 2        |       |

| Pos   | Description               | Annotation | Données de classification | Référence | Quantité | Unité |
|-------|---------------------------|------------|---------------------------|-----------|----------|-------|
|       | Pressure transmitter      |            |                           |           | 1        | pcs   |
| -     | Sealing parts             |            |                           |           | 1        | pcs   |
| - 25  | Drain plug w/bypass valve |            |                           |           | 1        |       |
| 38    | O-ring                    |            | Diameter: 16,3            |           | 1        |       |
|       |                           |            | Material type: EPDM       |           |          |       |
|       |                           |            | Thickness: 2,4            |           |          |       |
| 37    | O-ring                    |            |                           |           | 2        |       |
| 100   | O-ring                    |            | Diameter: 16,3            |           | 2        |       |
|       |                           |            | Material type: EPDM       |           |          |       |
|       |                           |            | Thickness: 2,4            |           |          |       |
| - 2   | Pump head cpl.            |            |                           |           | 1        | pcs   |
| 2     | Pump head                 |            |                           |           | 1        |       |
| 7     | Coupling guard            |            |                           |           | 2        |       |
| 7a    | Combi Slot Torx screw     |            |                           |           | 4        |       |
| - 18  | Air vent screw            |            |                           |           | 1        |       |
|       | Plug                      |            |                           |           | 1        |       |
|       | Spindle                   |            |                           |           | 1        |       |
| 28    | Hex head screw            |            | Length (mm): 20           |           | 4        |       |
|       |                           |            | Thread: M6                |           |          |       |
| 60    | Formed wire spring        |            |                           |           | 1        |       |
| 77    | Pump cover                |            |                           |           | 1        |       |
| - 8   | Coupling                  |            |                           |           | 1        | pcs   |
| 9     | Hex socket head cap screw |            | Designation: DIN 912      |           | 4        |       |
|       |                           |            | Length (mm): 20           |           |          |       |
|       |                           |            | Thread: M6                |           |          |       |
| 10    | Shaft pin                 |            | Diameter: 5               |           | 1        |       |
|       |                           |            | Length (mm): 26           |           |          |       |
| 10a   | Coupling half             |            |                           |           | 2        |       |
| 26    | Staybolt                  |            | Length (mm): 151          |           | 4        | pcs   |
|       |                           |            | Thread: M12               |           |          |       |
| 36a   | Washer                    |            | Designation: DIN 125 A    |           | 4        | pcs   |
|       |                           |            | Internal diameter: 13     |           |          |       |
|       |                           |            | Outer diameter: 24        |           |          |       |
|       |                           |            | Thickness: 2,5            |           |          |       |
| 55    | Outer sleeve              |            |                           |           | 1        | pcs   |
| 66a   | Nut                       |            | Thread: M12               |           | 4        | pcs   |
| - 80  | Chamber stack             |            |                           |           | 1        | pcs   |
| - 4a  | Chamber w. bearing cpl.   |            |                           |           | 1        |       |
|       | Chamber                   |            |                           |           | 1        |       |
|       | Retainer for seal ring    |            |                           |           | 1        |       |
|       | Guide vane                |            |                           |           | 6        |       |
|       | Retainer for bearing      |            |                           |           | 1        |       |
|       | Bearing bush              |            |                           |           | 1        |       |
|       | Vane                      |            |                           |           | 1        |       |
| 45    | Neck ring                 |            |                           |           | 1        |       |
| 65    | Retainer                  |            |                           |           | 1        |       |
| - 5a  | Chamber cpl.              |            |                           |           | 1        |       |
|       | Chamber                   |            |                           |           | 1        |       |
| 45    | Neck ring                 |            |                           |           | 1        |       |
| 65    | Retainer                  |            |                           |           | 1        |       |
| 36    | Lock nut                  |            | Thread: M8                |           | 1        |       |
| 47a   | Bearing ring, rotating    |            |                           |           | 1        |       |
| 49    | Impeller cpl.             |            |                           |           | 2        |       |
| - 50a | Guide vane cpl.           |            |                           |           | 1        |       |
|       | Guide vane                |            |                           |           | 6        |       |
|       | Plate                     |            |                           |           | 1        |       |
| 50b   | Top plate                 |            |                           |           | 1        |       |
| 51    | Shaft, spline, cpl.       |            |                           |           | 1        |       |
| 64a   | Spacing pipe              |            | Internal diameter: 12,85  |           | 1        |       |
|       |                           |            | Outer diameter: 15,85     |           |          |       |
|       |                           |            | Length (mm): 4,50         |           |          |       |
| 64a   | Spacing pipe              |            | Length (mm): 13,00        |           | 1        |       |
| 64c   | Clamp, splined            |            | Internal diameter: 8,5    |           | 1        |       |
|       |                           |            | Outer diameter: 15        |           |          |       |

| Pos   | Description           | Annotation | Données de classification | Référence | Quantité | Unité |
|-------|-----------------------|------------|---------------------------|-----------|----------|-------|
| 66    | Wedge lock washer     |            |                           |           | 1        |       |
| 69    | Spacing pipe          |            | Length (mm): 2.00         |           | 1        |       |
| - 105 | Shaft seal            |            | Material type: HQQE       |           | 1        | pcs   |
|       | O-ring                |            |                           |           | 1        |       |
|       | O-ring                |            |                           |           | 1        |       |
|       | Seal driver, upper    |            |                           |           | 1        |       |
|       | Seal driver, lower    |            |                           |           | 1        |       |
|       | Spacer ring           |            |                           |           | 1        |       |
|       | Pipe                  |            |                           |           | 1        |       |
|       | Plug                  |            |                           |           | 1        |       |
|       | Plug                  |            |                           |           | 1        |       |
|       | Compression spring    |            |                           |           | 1        |       |
|       | Socket set screw      |            |                           |           | 1        |       |
| 102   | O-ring                |            | Diameter: 22,00           |           | 1        |       |
|       |                       |            | Material type: EPDM       |           |          |       |
|       |                       |            | Thickness: 2,75           |           |          |       |
| 103   | Seal ring, stationary |            |                           |           | 1        |       |
| 105   | Seal ring, rotating   |            |                           |           | 1        |       |
| 107   | O-ring                |            |                           |           | 1        |       |
| 113   | Driver                |            |                           |           | 1        |       |

*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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