

## CRIE10-05 AN-FGJ-I-E-HQQE 3x380-500 60 H

Grundfos pump 99071475



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<https://www.lenntech.com/grundfos/CRIE10/99071475/CRIE-10-5-AN-FGJ-I-E-HQQE.html>

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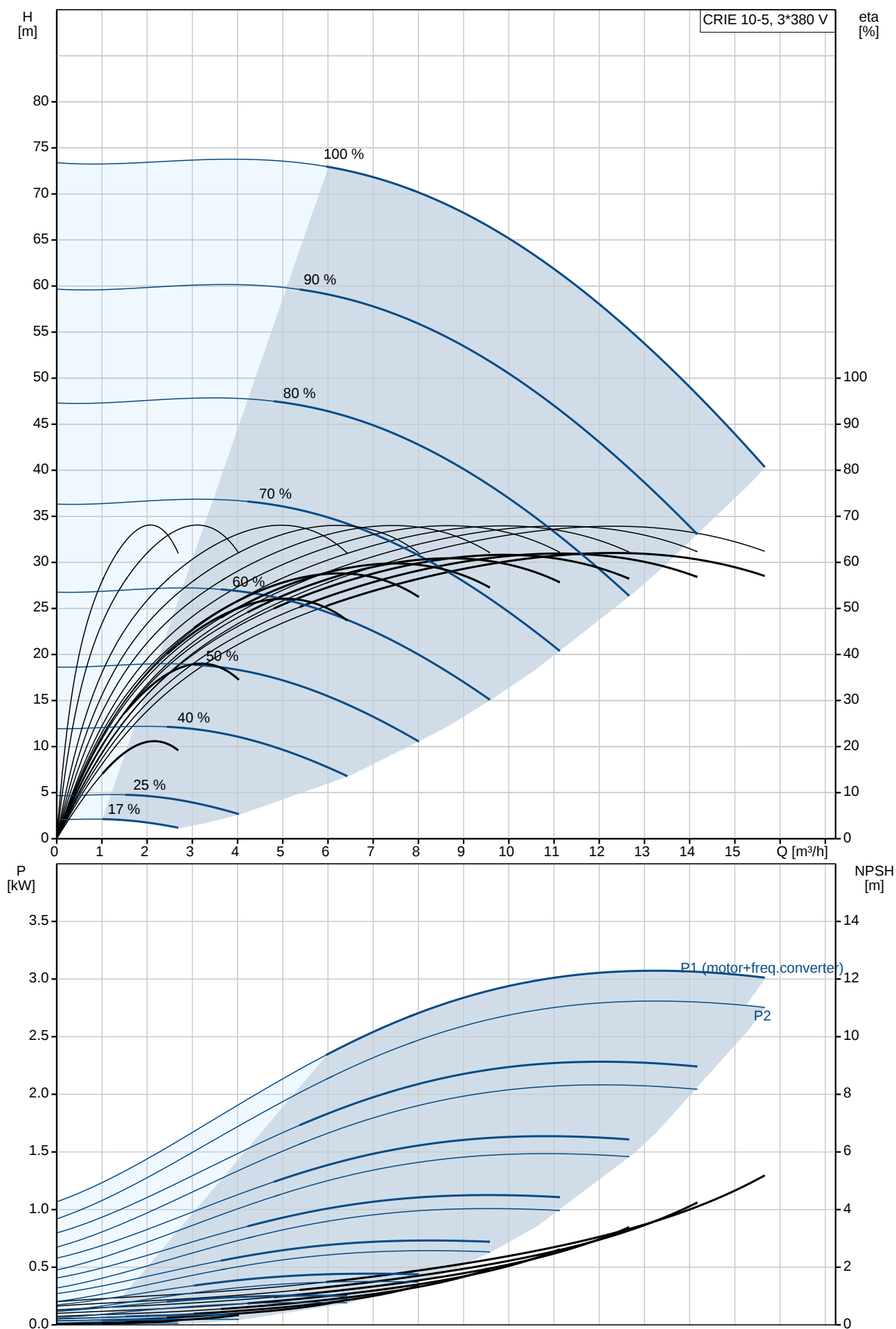
| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|          | 1    | <p><b>CRIE 10-5 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 3-phase, fan-cooled, permanent-magnet, synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.</p> <p>The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. 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> |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|          |      | <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>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> |

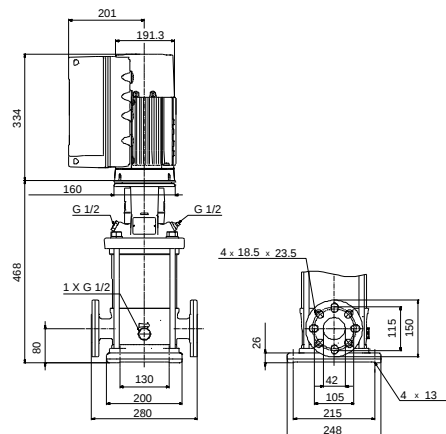
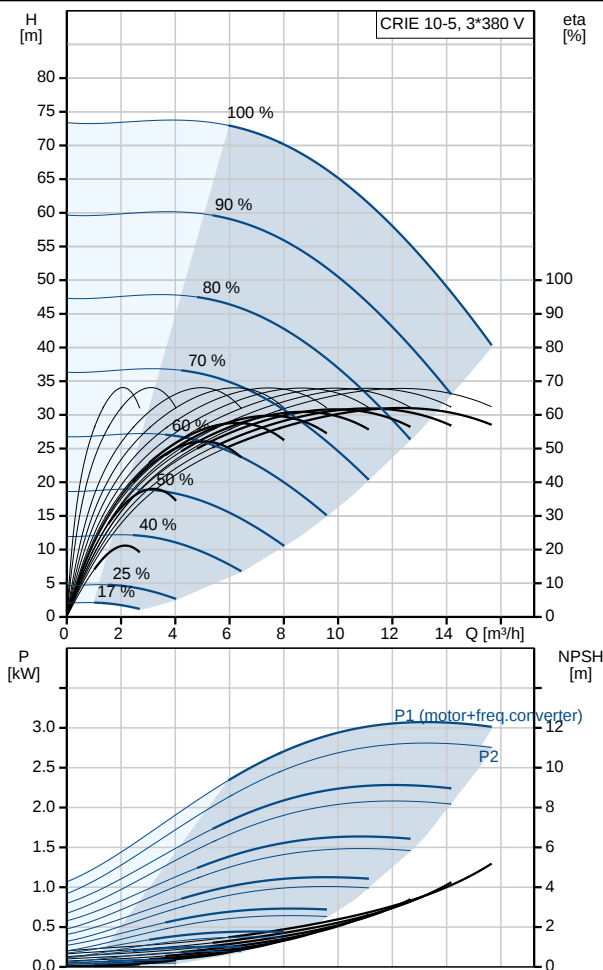
| Position                             | Qty.                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
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|                                      |                                          | <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> <p>The pump has a stainless steel base mounted on a separate 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).<br/>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>12.1 m³/h</td></tr><tr><td>Rated head:</td><td>58.5 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>16 bar</td></tr><tr><td>Max pressure at stated temp:</td><td>16 bar / 120 °C<br/>16 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 40<br/>1 1/2 inch</td></tr><tr><td>Size of outlet connection:</td><td>DN 40<br/>1 1/2 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>FT130</td></tr></table> <p><b>Electrical data:</b></p> <table><tr><td>Motor standard:</td><td>IEC</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: | 12.1 m³/h | Rated head: | 58.5 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: | 16 bar | Max pressure at stated temp: | 16 bar / 120 °C<br>16 bar / -20 °C | Type of connection: | DIN / ANSI / JIS | Size of inlet connection: | DN 40<br>1 1/2 inch | Size of outlet connection: | DN 40<br>1 1/2 inch | Pressure rating for pipe connection: | PN 25 | Flange rating inlet: | 300 lb | Flange size for motor: | FT130 | Motor standard: | IEC |
| 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:                          | 12.1 m³/h                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Rated head:                          | 58.5 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:          | 16 bar                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Max pressure at stated temp:         | 16 bar / 120 °C<br>16 bar / -20 °C       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Type of connection:                  | DIN / ANSI / JIS                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Size of inlet connection:            | DN 40<br>1 1/2 inch                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Size of outlet connection:           | DN 40<br>1 1/2 inch                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Pressure rating for pipe connection: | PN 25                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Flange rating inlet:                 | 300 lb                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Flange size for motor:               | FT130                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |
| Motor standard:                      | IEC                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |          |                  |   |                |       |                           |               |                                      |       |          |             |             |           |             |        |                   |          |                         |        |                      |      |                         |             |                  |                 |       |                                          |           |                                          |          |     |                              |       |                             |        |                              |                                    |                     |                  |                           |                     |                            |                     |                                      |       |                      |        |                        |       |                 |     |

| Position | Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p> Motor type: 100LA<br/> IE Efficiency class: IE5<br/> Rated power - P2: 3 kW<br/> Power (P2) required by pump: 3 kW<br/> Mains frequency: 50 Hz<br/> Rated voltage: 3 x 380-500 V<br/> Rated current: 5.80-4.80 A<br/> Cos phi - power factor: 0.91-0.86<br/> Rated speed: 360-4000 rpm<br/> Efficiency: 90.7%<br/> Motor efficiency at full load: 90.7 %<br/> Enclosure class (IEC 34-5): IP55<br/> Insulation class (IEC 85): F </p> <p><b>Others:</b></p> <p> Minimum efficiency index, MEI ≥: 0.70<br/> Net weight: 55 kg<br/> Gross weight: 83 kg<br/> Shipping volume: 0.37 m³ </p> |

# On request CRIE 10-5 N-FGJ-A-E-HQQE 50 Hz

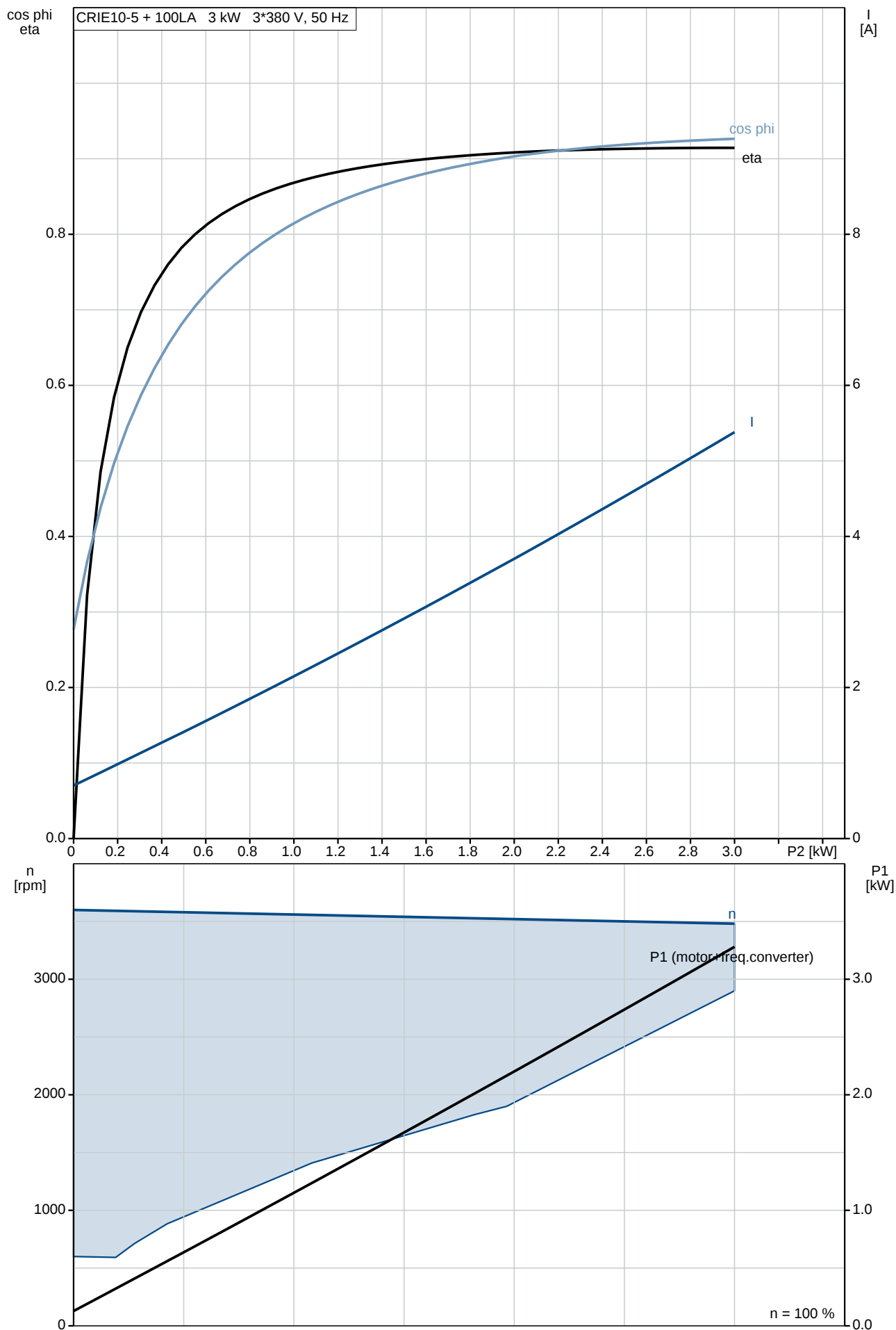


| Description                           | Value                    |
|---------------------------------------|--------------------------|
| <b>General information:</b>           |                          |
| Product name:                         | CRIE 10-5 N-FGJ-A-E-HQQE |
| Product No:                           | On request               |
| EAN number:                           | On request               |
| <b>Technical:</b>                     |                          |
| Rated flow:                           | 12.1 m³/h                |
| Rated head:                           | 58.5 m                   |
| Stages:                               | 5                        |
| Impellers:                            | 5                        |
| 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          |
|                                       | EN 1.4408                |
|                                       | AISI 316                 |
| Impeller:                             | Stainless steel          |
|                                       | 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:           | 16 bar                   |
| Max pressure at stated temp:          | 16 bar / 120 °C          |
|                                       | 16 bar / -20 °C          |
| Type of connection:                   | DIN / ANSI / JIS         |
| Size of inlet connection:             | DN 40                    |
|                                       | 1 1/2 inch               |
| Size of outlet connection:            | DN 40                    |
|                                       | 1 1/2 inch               |
| Pressure rating for pipe connection:  | PN 25                    |
| Flange rating inlet:                  | 300 lb                   |
| Flange size for motor:                | FT130                    |
| 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/m³              |
| <b>Electrical data:</b>               |                          |
| Motor standard:                       | IEC                      |
| Motor type:                           | 100LA                    |
| IE Efficiency class:                  | IE5                      |
| Rated power - P2:                     | 3 kW                     |
| Power (P2) required by pump:          | 3 kW                     |
| Mains frequency:                      | 50 Hz                    |
| Rated voltage:                        | 3 x 380-500 V            |
| Rated current:                        | 5.80-4.80 A              |
| Cos phi - power factor:               | 0.91-0.86                |
| Rated speed:                          | 360-4000 rpm             |
| Efficiency:                           | 90.7%                    |
| Motor efficiency at full load:        | 90.7 %                   |
| Enclosure class (IEC 34-5):           | IP55                     |
| Insulation class (IEC 85):            | F                        |

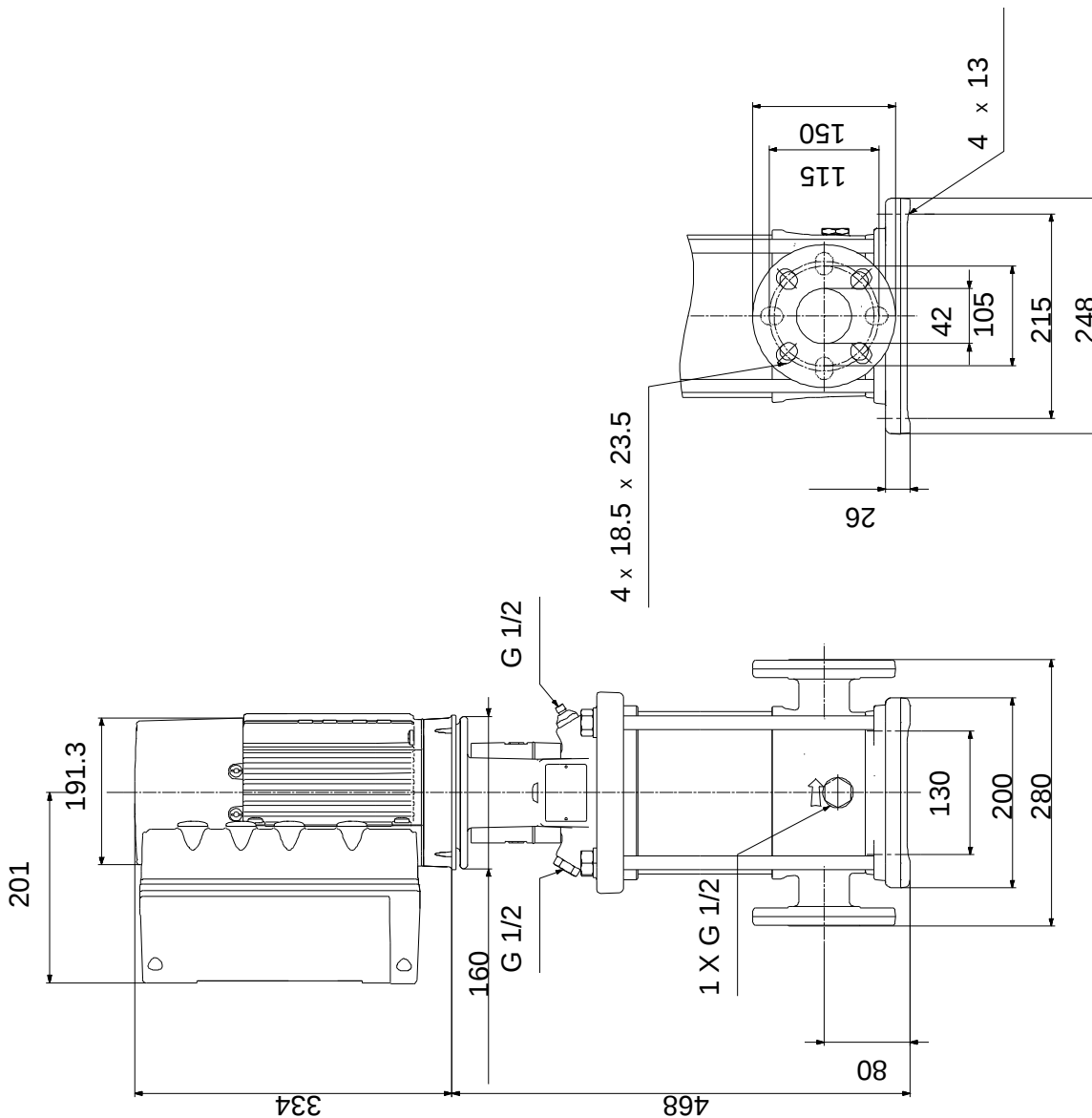


| Description                      | Value            |
|----------------------------------|------------------|
| Motor protec:                    | YES              |
| Motor No:                        | 98971049         |
| <b>Controls:</b>                 |                  |
| Control panel:                   | Standard         |
| Function Module:                 | FM300 - Advanced |
| Frequency converter:             | Built-in         |
| Pressure sensor:                 | Y                |
| <b>Others:</b>                   |                  |
| Minimum efficiency index, MEI ≥: | 0.70             |
| Net weight:                      | 55 kg            |
| Gross weight:                    | 83 kg            |
| Shipping volume:                 | 0.37 m³          |

# On request CRIE 10-5 N-FGJ-A-E-HQQE 50 Hz



**On request CRIE 10-5 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 10-5, Product No. On request**  
**Valid from 1.1.2004 (0401)**

| Pos  | Description                | Annotation | Données de classification | Référence | Quantité | Unité |
|------|----------------------------|------------|---------------------------|-----------|----------|-------|
| +    | Motor                      |            |                           |           | 1        | pcs   |
| -    | Base cpl.                  |            |                           |           | 1        | pcs   |
| 6    | Base                       |            |                           |           | 1        |       |
| 25   | Drain plug                 |            |                           |           | 1        |       |
| 56   | Base plate                 |            |                           |           | 1        |       |
| 201  | Flange                     |            |                           |           | 2        |       |
| 203  | Helical compression spring |            |                           |           | 2        |       |
|      | Pressure transmitter       |            |                           |           | 1        | pcs   |
| -    | Rubber module              |            |                           |           | 1        | pcs   |
| 20   | Spring                     |            |                           |           | 4        |       |
| 37   | O-ring                     |            |                           |           | 2        |       |
| 38   | O-ring                     |            | Diameter: 16,3            |           | 1        |       |
|      |                            |            | Material type: EPDM       |           |          |       |
|      |                            |            | Thickness: 2,4            |           |          |       |
| 38a  | O-ring                     |            | Diameter: 5,3             |           | 1        |       |
|      |                            |            | Material type: EPDM       |           |          |       |
|      |                            |            | Thickness: 2,4            |           |          |       |
| 100  | O-ring                     |            | Diameter: 16,3            |           | 2        |       |
|      |                            |            | Material type: EPDM       |           |          |       |
|      |                            |            | Thickness: 2,4            |           |          |       |
| - 2  | Pump head                  |            |                           |           | 1        | pcs   |
| 2    | Pump head                  |            |                           |           | 1        |       |
| 7    | Coupling guard             |            |                           |           | 2        |       |
| 7.a  | Combi Slot Torx screw      |            |                           |           | 4        |       |
| - 18 | Air vent screw             |            |                           |           | 1        |       |
|      | Plug                       |            |                           |           | 1        |       |
|      | Spindle                    |            |                           |           | 1        |       |
| 28   | Hex head screw             |            | Length (mm): 25           |           | 4        |       |
|      |                            |            | Thread: M8                |           |          |       |
| 37.a | O-ring                     |            |                           |           | 1        |       |
| 76   | Nameplate                  |            |                           |           | 1        |       |
| 76a  | Rivet                      |            |                           |           | 2        |       |
| 77   | Pump cover                 |            |                           |           | 1        |       |
| - 8  | Coupling cpl.              |            |                           |           | 1        | pcs   |
| 9    | Hex socket head cap screw  |            | Designation: DIN 912      |           | 4        |       |
|      |                            |            | Length (mm): 25           |           |          |       |
|      |                            |            | Thread: M8                |           |          |       |
| 10   | Shaft pin                  |            | Diameter: 5               |           | 1        |       |
|      |                            |            | Length (mm): 26           |           |          |       |
| 10a  | Coupling half              |            |                           |           | 2        |       |
| 26   | Staybolt                   |            |                           |           | 4        | pcs   |
| 36   | Hex nut                    |            | Thread: M16               |           | 4        | pcs   |
| 55   | Outer sleeve               |            |                           |           | 1        | pcs   |
| 66a  | Washer                     |            | Designation: DIN 125 A    |           | 4        | pcs   |
|      |                            |            | Internal diameter: 17     |           |          |       |
|      |                            |            | Outer diameter: 30        |           |          |       |
|      |                            |            | Thickness: 3              |           |          |       |
| - 80 | Chamber stack              |            | Bearing type: SIC         |           | 1        | pcs   |
| - 4  | Intermediate chamber cpl.  |            |                           |           | 1        |       |
|      | Guide vane                 |            |                           |           | 10       |       |
| 3    | Top intermediate chamber   |            |                           |           | 1        |       |
| - 4  | Intermediate chamber cpl.  |            |                           |           | 3        |       |
|      | Guide vane                 |            |                           |           | 10       |       |
|      | Guide cup                  |            |                           |           | 1        |       |
| 3a   | Intermediate chamber       |            |                           |           | 1        |       |
| 45   | Neck ring cpl.             |            |                           |           | 1        |       |
| 65   | Retainer                   |            |                           |           | 1        |       |
| - 4a | Intermediate chamber cpl.  |            |                           |           | 1        |       |
|      | Guide vane                 |            |                           |           | 10       |       |

| Pos   | Description          | Annotation | Données de classification | Référence | Quantité | Unité |
|-------|----------------------|------------|---------------------------|-----------|----------|-------|
|       | Bearing plate        |            |                           |           | 1        |       |
|       | Bearing bush         |            |                           |           | 1        |       |
|       | Guide cup            |            |                           |           | 1        |       |
| 3a    | Intermediate chamber |            |                           |           | 1        |       |
| 45    | Neck ring cpl.       |            |                           |           | 1        |       |
| 65    | Retainer             |            |                           |           | 1        |       |
| 26.b  | Hex head screw       |            |                           |           | 2        |       |
| 26.c  | Washer               |            | Designation: DIN 125A     |           | 2        |       |
|       |                      |            | Thickness: 1,6            |           |          |       |
| 26a   | Strap cpl.           |            |                           |           | 2        |       |
| 36    | Lock nut             |            | Thread: M8                |           | 1        |       |
| - 44a | Inlet part cpl.      |            |                           |           | 1        |       |
|       | Inlet part           |            |                           |           | 1        |       |
|       | Guide cup            |            |                           |           | 1        |       |
| 45    | Neck ring cpl.       |            |                           |           | 1        |       |
| 65    | Retainer             |            |                           |           | 1        |       |
| 44b   | Inlet part           |            |                           |           | 1        |       |
| 47a   | Bearing ring         |            |                           |           | 1        |       |
| 49    | Impeller cpl.        |            |                           |           | 5        |       |
| - 51  | Shaft, spline, cpl.  |            |                           |           | 1        |       |
|       | Bar                  |            |                           |           | 0        |       |
| 62    | Stop ring            |            |                           |           | 1        |       |
| 64    | Spacing bush         |            | Length (mm): 9.00         |           | 1        |       |
| 64.d  | Spacer               |            |                           |           | 1        |       |
| 64c   | Spacing pipe         |            | Length (mm): 12.7         |           | 1        |       |
| 66    | Wedge lock washer    |            |                           |           | 1        |       |
| 69    | Spacing pipe         |            | Length (mm): 29.05        |           | 3        |       |
| 69    | Spacing bush         |            | Length (mm): 18.00        |           | 1        |       |
| 105   | Shaft seal           |            | Material type: HQQE       |           | 1        | pcs   |

*Disclaimer: The information about the Grundfos pump in this document may be outdated.*

*Data may be subject to alterations without further notice.*

*Please contact us to verify the data above is still accurate/up-to-date.*

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