

## Inventflow: Grundfos A-partner

### Grundfos CRE 3-2 A-A-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-3-2-a-a-a-e-hqqe>

#### Contact

[info@inventflow.nl](mailto:info@inventflow.nl)

+31 (0) 546 45 80 72

#### Datasheet

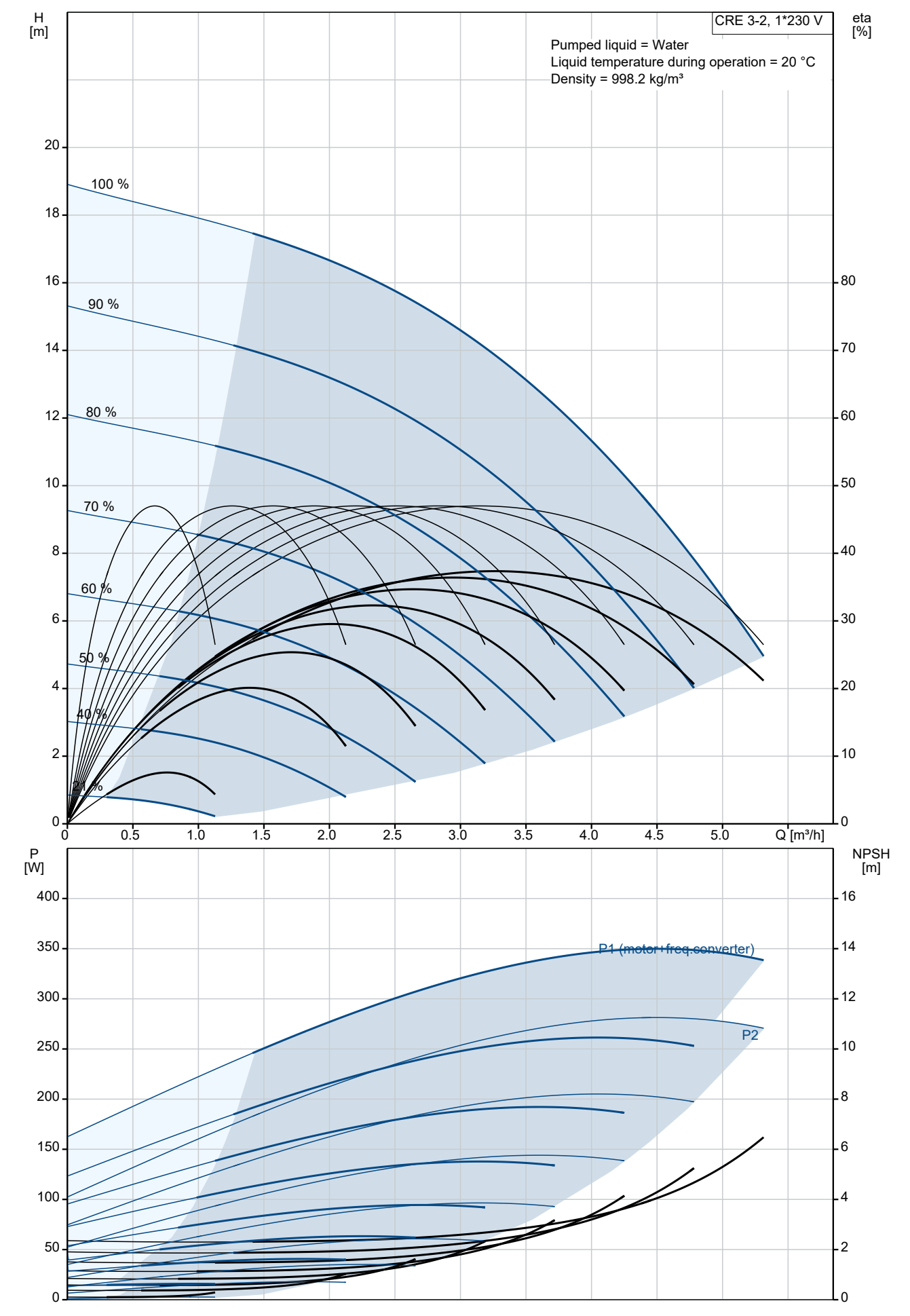


| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| 1    | <p><b>CRE 3-2 A-A-A-E-HQQE</b></p> <div>  </div> <p>Note! Product picture may differ from actual product</p> <p>Product No.: <a href="#">98389684</a></p> <p>Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.</p> <p>The pump has the following characteristics:</p> <ul style="list-style-type: none"> <li>- Impellers and intermediate chambers are made of</li> </ul> <p>Impeller: Stainless steel DIN W.-Nr. EN 1.4301.</p> <p>Pump housing: - Pump head and base are made of Cast iron.</p> <ul style="list-style-type: none"> <li>- The shaft seal has assembly length according to EN 12756.</li> </ul> <ul style="list-style-type: none"> <li>- Power transmission is via cast iron split coupling.</li> </ul> <p>Flange standard: - Pipework connection is via Oval / Rp flanges.</p> <p>The pump is fitted with an IEC-flanged single-phase MGE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required as both motor and electronics are protected by integrated overload and temperature protection.</p> <p>External sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required.</p> <p>A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault".</p> <p>Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".</p> <p>The terminal box holds terminals for the connection of:</p> <ul style="list-style-type: none"> <li>- Pump start/stop (potential-free contact),</li> <li>- external remote setpoint setting via analog signal, 0 - 10 V, 0(4) - 20 mA,</li> <li>- 10 V voltage supply for setpoint potentiometer, I<sub>max</sub> = 5 mA,</li> <li>- sensor, 0 - 10 V, 0(4) - 20 mA,</li> <li>- 24 V voltage supply for sensor, I<sub>max</sub> = 40 mA,</li> <li>- input for forced control to MIN, MAX, External fault or Flowswitch (potential-free contact),</li> <li>- potential-free fault signal relay with changeover contact,</li> </ul> |

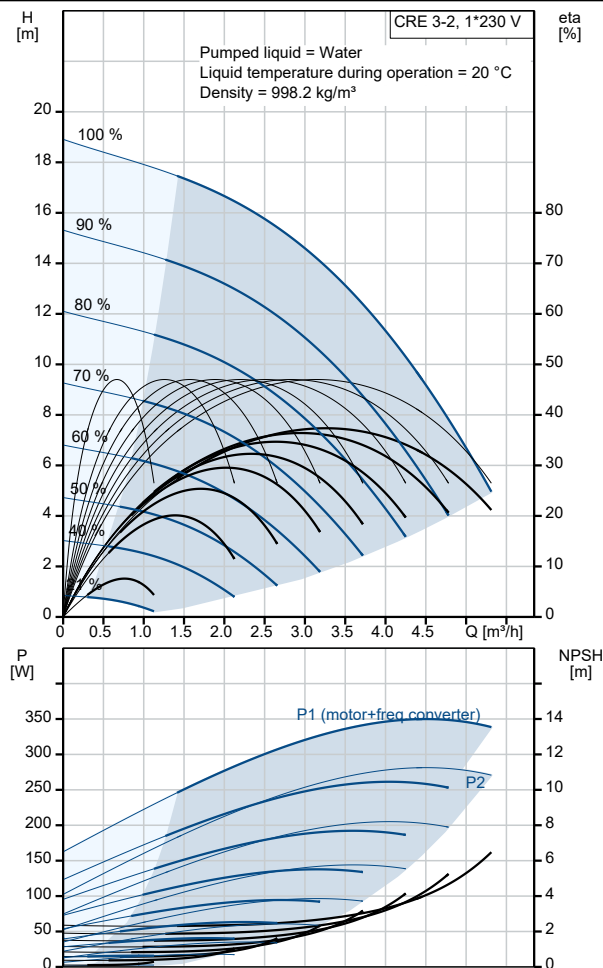
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>- RS485 GENIbus.</p> <p>Controls:</p> <p>Frequency converter: Built-in</p> <p>Pressure sensor: N</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -20 .. 120 °C</p> <p>Selected liquid temperature: 20 °C</p> <p>Density: 998.2 kg/m³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 3410 rpm</p> <p>Rated flow: 3.5 m³/h</p> <p>Rated head: 13.5 m</p> <p>Pump orientation: Vertical</p> <p>Shaft seal arrangement: Single</p> <p>Code for shaft seal: HQQE</p> <p>Approvals on nameplate: CE,EAC,UKCA,WRAS,ACS</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Base: Cast iron<br/>EN 1561 EN-GJL-200<br/>ASTM A48-25B</p> <p>Impeller: Stainless steel<br/>EN 1.4301<br/>AISI 304</p> <p>Bearing: SIC</p> <p>Installation:</p> <p>Maximum ambient temperature: 50 °C</p> <p>Maximum operating pressure: 16 bar</p> <p>Max pressure at stated temp: 16 bar / 120 °C<br/>16 bar / -20 °C</p> <p>Type of connection: Oval / Rp</p> <p>Size of inlet connection: 1 inch</p> <p>Size of outlet connection: 1 inch</p> <p>Pressure rating for connection: PN 16</p> <p>Flange size for motor: FT85</p> <p>Electrical data:</p> <p>Motor standard: IEC</p> <p>Motor type: 71A</p> <p>IE Efficiency class: IE5</p> <p>Rated power - P2: 0.37 kW</p> <p>Power (P2) required by pump: 0.37 kW</p> <p>Mains frequency: 50 / 60 Hz</p> <p>Rated voltage: 1 x 200-240 V</p> <p>Rated current: 2.40-2.10 A</p> <p>Cos phi - power factor: 0.96</p> <p>Rated speed: 360-4000 rpm</p> <p>Efficiency: 84.0%</p> <p>Motor efficiency at full load: 84.0 %</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 98190190</p> <p>Others:</p> <p>Minimum efficiency index, MEI ≥: 0.70</p> <p>Net weight: 21 kg</p> <p>Gross weight: 23.9 kg</p> <p>Shipping volume: 0.143 m³</p> <p>Finnish LVI No.: 4925673</p> |

| Qty. | Description                                                                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <div> <div>Country of origin:</div> <div>HU</div> </div> <div> <div>Custom tariff no.:</div> <div>84137075</div> </div> |

98389684 CRE 3-2 A-A-A-E-HQQE

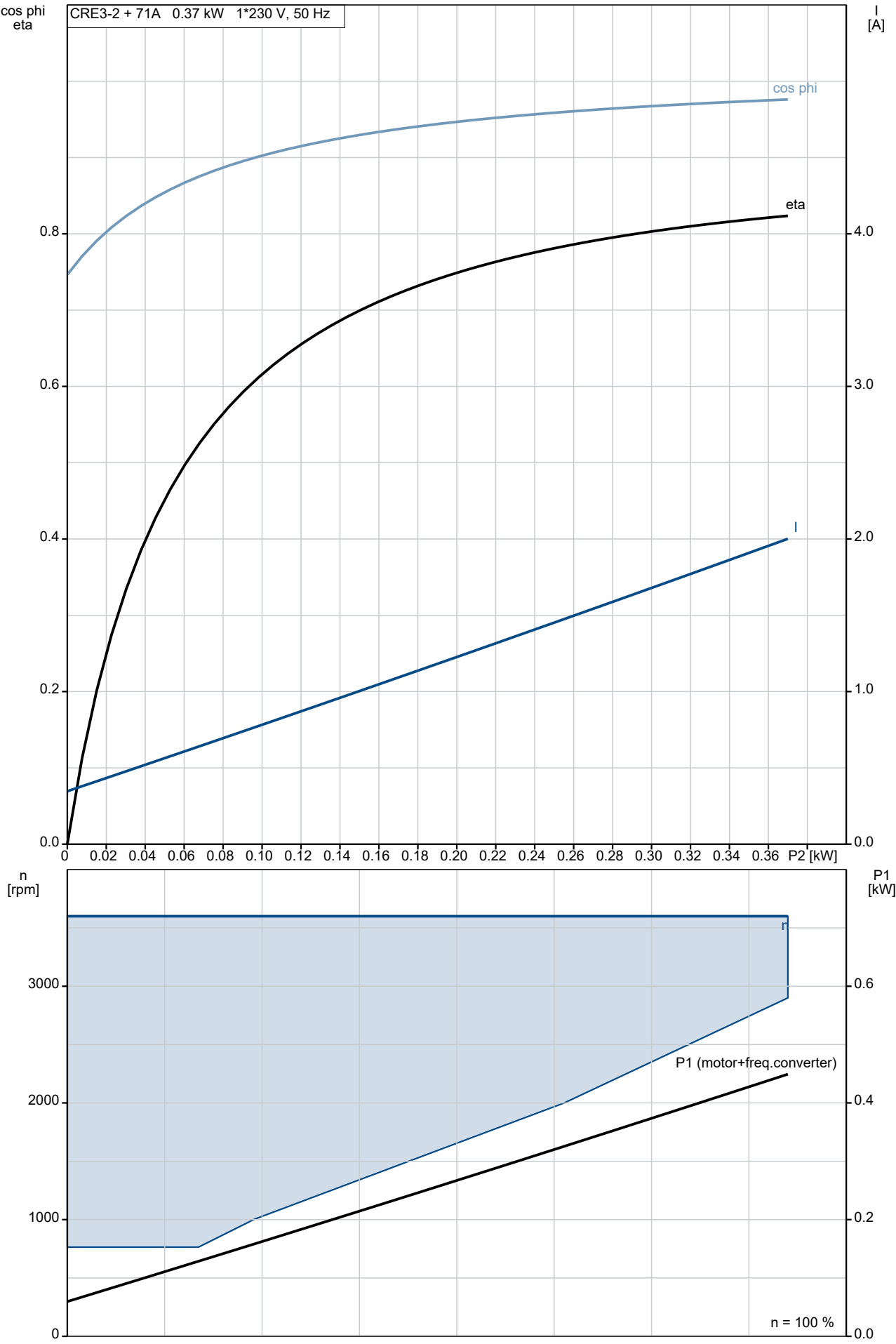


| Description                              | Value                 |
|------------------------------------------|-----------------------|
| <b>General information:</b>              |                       |
| Product name:                            | CRE 3-2 A-A-A-E-HQQE  |
| Product No:                              | 98389684              |
| EAN number:                              | 5711494182220         |
| <b>Technical:</b>                        |                       |
| Pump speed on which pump data are based: | 3410 rpm              |
| Rated flow:                              | 3.5 m³/h              |
| Rated head:                              | 13.5 m                |
| Maximum head:                            | 18.9 m                |
| Stages:                                  | 3                     |
| Impellers:                               | 2                     |
| Number of reduced-diameter impellers:    | 0                     |
| Low NPSH:                                | N                     |
| Pump orientation:                        | Vertical              |
| Shaft seal arrangement:                  | Single                |
| Code for shaft seal:                     | HQQE                  |
| Approvals on nameplate:                  | CE,EAC,UKCA,WRAS,A CS |
| Curve tolerance:                         | ISO9906:2012 3B       |
| Pump version:                            | A                     |
| Model:                                   | A                     |
| <b>Materials:</b>                        |                       |
| Base:                                    | Cast iron             |
| Base:                                    | EN 1561 EN-GJL-200    |
| Base:                                    | ASTM A48-25B          |
| Impeller:                                | Stainless steel       |
| Impeller:                                | EN 1.4301             |
| Impeller:                                | 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       |
| Max pressure at stated temp:             | 16 bar / -20 °C       |
| Type of connection:                      | Oval / Rp             |
| Size of inlet connection:                | 1 inch                |
| Size of outlet connection:               | 1 inch                |
| Pressure rating for connection:          | PN 16                 |
| Flange size for motor:                   | FT85                  |
| Connect code:                            | A                     |
| <b>Liquid:</b>                           |                       |
| Pumped liquid:                           | Water                 |
| Liquid temperature range:                | -20 .. 120 °C         |
| Selected liquid temperature:             | 20 °C                 |
| Density:                                 | 998.2 kg/m³           |
| <b>Electrical data:</b>                  |                       |
| Motor standard:                          | IEC                   |
| Motor type:                              | 71A                   |
| IE Efficiency class:                     | IE5                   |
| Rated power - P2:                        | 0.37 kW               |
| Power (P2) required by pump:             | 0.37 kW               |
| Mains frequency:                         | 50 / 60 Hz            |
| Rated voltage:                           | 1 x 200-240 V         |
| Rated current:                           | 2.40-2.10 A           |
| Cos phi - power factor:                  | 0.96                  |
| Rated speed:                             | 360-4000 rpm          |
| Efficiency:                              | 84.0%                 |
| Motor efficiency at full load:           | 84.0 %                |
| Enclosure class (IEC 34-5):              | IP55                  |
| Insulation class (IEC 85):               | F                     |
| Motor protec:                            | ELEC                  |

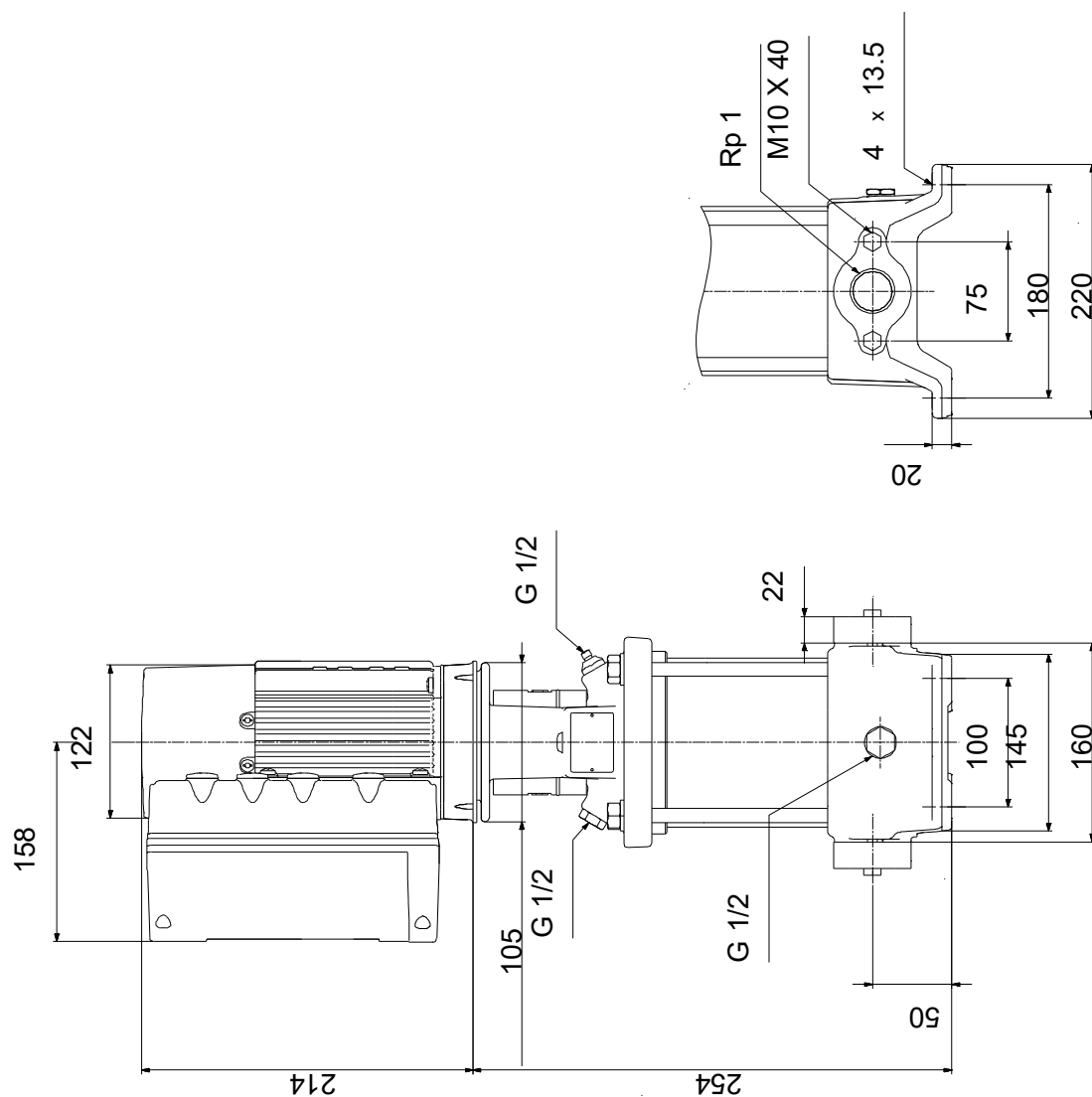


| Description                      | Value                |
|----------------------------------|----------------------|
| Motor No:                        | 98190190             |
| <b>Controls:</b>                 |                      |
| Control panel:                   | Standard             |
| Function Module:                 | FM300 - Advanced     |
| Frequency converter:             | Built-in             |
| Pressure sensor:                 | N                    |
| <b>Others:</b>                   |                      |
| Minimum efficiency index, MEI ≥: | 0.70                 |
| Net weight:                      | 21 kg                |
| Gross weight:                    | 23.9 kg              |
| Shipping volume:                 | 0.143 m <sup>3</sup> |
| Config. file no:                 | 98498681             |
| Finnish LVI No.:                 | 4925673              |
| Country of origin:               | HU                   |
| Custom tariff no.:               | 84137075             |

98389684 CRE 3-2 A-A-A-E-HQQE



# 98389684 CRE 3-2 A-A-A-E-HQQE



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

**Spare parts CRE 3-2, Product No. 98389684**  
**Produced After 1252 (production year and week number)**

| Pos   | Omschrijving              | Opmerking tekst | Classificatie Gegevens        | Onderdeelnr. | Aanta | Eenheid |
|-------|---------------------------|-----------------|-------------------------------|--------------|-------|---------|
| -     | Kit, chamber stack        |                 | Bearing type: SILICON CARBIDE | 96453529     | 1     | pcs     |
| - 4a  | Chamber w. bearing cpl.   |                 |                               |              | 1     |         |
|       | Vane                      |                 |                               |              | 1     |         |
|       | Intermediate chamber      |                 |                               |              | 1     |         |
|       | Retainer for bearing      |                 |                               |              | 1     |         |
|       | Guide vane                |                 |                               |              | 6     |         |
| 45    | Neck ring                 |                 |                               |              | 1     |         |
| 47    | Bearing bush              |                 |                               |              | 1     |         |
| 65    | Retainer                  |                 |                               |              | 1     |         |
| 65    | Retainer                  |                 |                               |              | 1     |         |
| - 4   | Chamber cpl.              |                 |                               |              | 1     |         |
|       | Vane                      |                 |                               |              | 1     |         |
|       | Intermediate chamber      |                 |                               |              | 1     |         |
|       | Plate                     |                 |                               |              | 1     |         |
|       | Guide vane                |                 |                               |              | 6     |         |
| 45    | Neck ring                 |                 |                               |              | 1     |         |
| 65    | Retainer                  |                 |                               |              | 1     |         |
| 65    | Retainer                  |                 |                               |              | 1     |         |
| - 5a  | Chamber cpl.              |                 |                               |              | 1     |         |
|       | Vane                      |                 |                               |              | 1     |         |
|       | Intermediate chamber      |                 |                               |              | 1     |         |
| 45    | Neck ring                 |                 |                               |              | 1     |         |
| 65    | Retainer                  |                 |                               |              | 1     |         |
| 65    | Retainer                  |                 |                               |              | 1     |         |
| - 44a | Discharge part            |                 |                               |              | 1     |         |
| 50    | Top plate                 |                 |                               |              | 1     |         |
| 47a   | Bearing ring              |                 |                               |              | 1     |         |
| 49    | Impeller cpl.             |                 |                               |              | 2     |         |
| 51    | Shaft, spline, cpl.       |                 |                               |              | 1     |         |
| 64d   | Spacing pipe              |                 | Internal diameter: 12,85      |              | 1     |         |
|       |                           |                 | Outer diameter: 15,85         |              |       |         |
|       |                           |                 | Length (mm): 4,50             |              |       |         |
| 64c   | Clamp, splined            |                 | Internal diameter: 8,5        |              | 1     |         |
|       |                           |                 | Outer diameter: 15            |              |       |         |
| 66    | Wedge lock washer         |                 |                               |              | 1     |         |
| 67    | Lock nut                  |                 | Thread: M8                    |              | 1     |         |
| 69    | Spacing bush              |                 |                               |              | 1     |         |
| -     | Kit, coupling             |                 |                               | 00415060     | 1     | pcs     |
| 9     | Hex socket head cap screw |                 | Designation: DIN 912          |              | 4     |         |
|       |                           |                 | Length (mm): 20               |              |       |         |
|       |                           |                 | Thread: M6                    |              |       |         |
| 10a   | Coupling half             |                 |                               |              | 2     |         |
| 10    | Shaft pin                 |                 | Diameter: 5                   |              | 1     |         |
|       |                           |                 | Length (mm): 26               |              |       |         |
| -     | Kit, coupling guard       |                 |                               | 96505130     | 1     | pcs     |
| 7.a   | Combi Slot Torx screw     |                 |                               |              | 4     |         |
| 7     | Coupling guard            |                 |                               |              | 2     |         |
| -     | Kit, gaskets              |                 |                               | 96455090     | 1     | pcs     |
| 37    | O-ring                    |                 |                               |              | 2     |         |
| 38    | O-ring                    |                 |                               |              | 1     |         |
| 38    | O-ring                    |                 |                               |              | 2     |         |
| 109   | O-ring                    |                 | Diameter: 22,00               |              | 1     |         |
|       |                           |                 | Material type: EPDM           |              |       |         |
|       |                           |                 | Thickness: 2,75               |              |       |         |
| -     | Kit, plug                 |                 |                               | 96505133     | 1     | pcs     |
| - 18  | Air vent screw            |                 |                               |              | 1     |         |
|       | Spindle                   |                 |                               |              | 1     |         |
|       | Plug                      |                 |                               |              | 1     |         |

| Pos     | Omschrijving            | Opmerking tekst | Classificatie | Gegevens                       | Onderdeelnr. | Aanta | Eenheid |
|---------|-------------------------|-----------------|---------------|--------------------------------|--------------|-------|---------|
| 23b     | Spindle                 |                 |               |                                |              | 1     |         |
| 25      | Plug                    |                 |               |                                |              | 1     |         |
| 25      | Plug                    |                 |               |                                |              | 1     |         |
| 38      | O-ring                  |                 |               |                                |              | 1     |         |
| 38      | O-ring                  |                 |               |                                |              | 2     |         |
| 38      | O-ring                  |                 |               | Diameter: 16,3                 |              | 1     |         |
|         |                         |                 |               | Material type: FKM             |              |       |         |
|         |                         |                 |               | Thickness: 2,4                 |              |       |         |
| 38      | O-ring                  |                 |               | Diameter: 16,3                 |              | 2     |         |
|         |                         |                 |               | Material type: FKM             |              |       |         |
|         |                         |                 |               | Thickness: 2,4                 |              |       |         |
| -       | Kit, shaft seal HQQE    |                 |               |                                | 96455086     | 1     | pcs     |
| 105     | Shaft seal              |                 |               | Material type: HQQE            |              | 1     |         |
| -       | Kit, wear parts         |                 |               | Material type: SILICON CARBIDE | 96455095     | 1     | pcs     |
| - 4a    | Chamber w. bearing cpl. |                 |               |                                |              | 1     |         |
|         | Vane                    |                 |               |                                |              | 1     |         |
|         | Retainer                |                 |               |                                |              | 1     |         |
|         | Guide vane              |                 |               |                                |              | 6     |         |
| 4a      | Intermediate chamber    |                 |               |                                |              | 1     |         |
| 45      | Neck ring               |                 |               |                                |              | 1     |         |
| 47      | Bearing bush            |                 |               |                                |              | 1     |         |
| 65      | Retainer for seal ring  |                 |               |                                |              | 1     |         |
| 65      | Neck ring retainer      |                 |               |                                |              | 1     |         |
| 45      | Neck ring               |                 |               |                                |              | 8     |         |
| 47a     | Bearing ring            |                 |               |                                |              | 1     |         |
| 64d     | Spacing pipe            |                 |               | Internal diameter: 12,85       |              | 1     |         |
|         |                         |                 |               | Outer diameter: 15,85          |              |       |         |
|         |                         |                 |               | Length (mm): 4,50              |              |       |         |
| 64c     | Clamp, splined          |                 |               | Internal diameter: 8,5         |              | 1     |         |
|         |                         |                 |               | Outer diameter: 15             |              |       |         |
| 65      | Neck ring retainer      |                 |               |                                |              | 8     |         |
| 66      | Wedge lock washer       |                 |               |                                |              | 1     |         |
| 67      | Lock nut                |                 |               | Thread: M8                     |              | 1     |         |
| 441 b   | Gasket                  |                 |               |                                |              | 2     |         |
| -       | Motor                   |                 |               |                                |              | 1     | pcs     |
| -       | Kit, adapter            |                 |               |                                | 98345796     | 1     |         |
| - 252 a | Adapter set             |                 |               |                                |              | 1     |         |
|         | Adapter                 |                 |               |                                |              |       |         |
|         | Adapter                 |                 |               |                                |              |       |         |
| 167     | Cable gland             |                 |               |                                |              |       |         |
| -       | Kit, bearing cpl.       |                 |               |                                | 98330603     | 1     |         |
| 111     | Ball bearing            |                 |               | Designation: 6204.2Z.C3.SYN    |              | 1     |         |
| 153     | Ball bearing            |                 |               | Designation: 6204.2Z.C3.SYN    |              | 1     |         |
| 156 d   | Gasket                  |                 |               | Internal diameter: 114,80      |              | 1     |         |
|         |                         |                 |               | Outer diameter: 121,20         |              |       |         |
|         |                         |                 |               | Thickness: 0,25                |              |       |         |
| 156c    | Seal ring               |                 |               |                                |              | 2     |         |
| 158 a   | O-ring                  |                 |               | Diameter: 47                   |              | 1     |         |
|         |                         |                 |               | Material type: NBR             |              |       |         |
|         |                         |                 |               | Thickness: 3                   |              |       |         |
| 158     | Waved washer            |                 |               |                                |              | 1     |         |
| -       | Kit, Blanking plug      |                 |               |                                | 98334761     | 1     |         |
| 252 b   | Plug cpl.               |                 |               |                                |              | 4     |         |
| -       | Kit, cable gland        |                 |               |                                | 98337336     | 1     |         |
| - 293   | Cable glands set        |                 |               |                                | 98271484     | 1     |         |
| 167     | Cable gland             |                 |               |                                |              |       |         |
| 167     | Cable gland             |                 |               |                                |              |       |         |
| -       | Kit, connector plugs    |                 |               |                                | 98403113     | 1     |         |

| Pos      | Omschrijving                  | Opmerking tekst | Classificatie Gegevens    | Onderdeelnr. | Aanta | Eenheid |
|----------|-------------------------------|-----------------|---------------------------|--------------|-------|---------|
| 266      | Connector plug 10-pole        |                 |                           |              |       | 1       |
| 266      | Connector plug 2-pole         |                 |                           |              |       | 1       |
| 266      | Connector plug 8-pole         |                 |                           |              |       | 1       |
| 266      | Connector plug 8-pole         |                 |                           |              |       | 1       |
| 266      | Connector plug 8-pole         |                 |                           |              |       | 1       |
| 266      | Connector plug 3-pole         |                 |                           |              |       | 1       |
| 266      | Connector plug 3-pole         |                 |                           |              |       | 1       |
| 266      | Connector plug 3-pole         |                 |                           |              |       | 1       |
| -        | Kit, control box              |                 |                           | 98406653     | 1     |         |
| 152      | Pan head thread forming screw |                 |                           |              |       | 1       |
| 178      | Pan head thread forming screw |                 |                           |              |       | 4       |
| 251<br>d | Pan head thread forming screw |                 |                           |              |       | 4       |
| 251<br>b | Control box                   |                 |                           |              |       | 1       |
| 251<br>a | Control box                   |                 |                           |              |       | 1       |
| 252<br>b | Plug cpl.                     |                 |                           |              |       | 4       |
| 266      | Connector plug 10-pole        |                 |                           |              |       | 1       |
| 266      | Connector plug 2-pole         |                 |                           |              |       | 1       |
| 268<br>a | Base                          |                 |                           |              |       | 1       |
| 268      | Pan head screw                |                 |                           |              |       | 1       |
| 273<br>b | Battery                       |                 |                           |              |       | 1       |
| 273      | Funct. Module cpl.            |                 |                           |              |       | 1       |
| 275<br>a | Pin                           |                 |                           |              |       | 1       |
| 277<br>a | Cross recess Pan head screw   |                 |                           |              |       | 5       |
| 277<br>a | Cross recess Pan head screw   |                 |                           |              |       | 1       |
| 277<br>a | Cross recess Pan head screw   |                 |                           |              |       | 1       |
| 277      | Isolation cover               |                 |                           |              |       | 1       |
| 286      | Spacer                        |                 |                           |              |       | 1       |
| 287      | Cover                         |                 |                           |              |       | 1       |
| 288<br>b | Retaining ring                |                 |                           |              |       | 6       |
| 288<br>a | Pan head thread forming screw |                 |                           |              |       | 6       |
| 288      | Wire clamp                    |                 |                           |              |       | 3       |
| 289      | Wire clamp                    |                 |                           |              |       | 1       |
| 290      | Control panel, cpl.           |                 |                           |              |       | 1       |
| -        | Kit, Control box upper        |                 |                           | 98334764     | 1     |         |
| 251<br>d | Pan head thread forming screw |                 |                           |              |       | 4       |
| 251<br>b | Control box                   |                 |                           |              |       | 1       |
|          | Kit, Control panel            |                 |                           | 98939973     | 1     |         |
| -        | Kit, cover                    |                 |                           | 98330622     | 1     |         |
| 287      | Cover                         |                 |                           |              |       | 1       |
| -        | Kit, fan                      |                 |                           | 98290123     | 1     |         |
| 152      | Pan head thread forming screw |                 |                           |              |       | 4       |
| 156c     | Seal ring                     |                 |                           |              |       | 1       |
| 156      | Fan                           |                 |                           |              |       | 1       |
| -        | Kit, flange (DE)              |                 |                           | 98290125     | 1     |         |
| 156<br>d | Gasket                        |                 | Internal diameter: 114,80 |              |       | 1       |
|          |                               |                 | Outer diameter: 121,20    |              |       |         |
|          |                               |                 | Thickness: 0,25           |              |       |         |
| 156<br>b | Flange                        |                 |                           |              |       | 1       |
| 185      | Cross recess Pan head screw   |                 |                           |              |       | 4       |
| 186      | Drain plug                    |                 |                           |              |       | 1       |

| Pos      | Omschrijving                  | Opmerking tekst             | Classificatie Gegevens | Onderdeelnr. | Aanta | Eenheid |
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| -        | Kit, Funct. module            |                             |                        | 98334777     | 1     |         |
| 273<br>a | Cross recess Pan head screw   |                             |                        |              | 5     |         |
| 273      | Funct. Module cpl.            |                             |                        |              | 1     |         |
| 275<br>a | Pin                           |                             |                        |              | 1     |         |
| 286      | Spacer                        |                             |                        |              | 1     |         |
| -        | Kit, Isolation cover          |                             |                        | 98330624     | 1     |         |
| 277<br>a | Cross recess Pan head screw   |                             |                        |              | 1     |         |
| 277      | Isolation cover               |                             |                        |              | 1     |         |
| -        | Kit, Lower part cpl.          |                             |                        | 98330614     | 1     |         |
| 178      | Pan head thread forming screw |                             |                        |              | 4     |         |
| 251<br>a | Control box                   |                             |                        |              | 1     |         |
| 275<br>a | Pin                           |                             |                        |              | 1     |         |
| 277<br>a | Cross recess Pan head screw   |                             |                        |              | 1     |         |
| 277      | Isolation cover               |                             |                        |              | 1     |         |
| -        | Kit, motor                    |                             |                        | 98293684     | 1     |         |
|          | Terminal                      |                             |                        |              | 3     |         |
| 111      | Ball bearing                  | Designation: 6204.2Z.C3.SYN |                        |              | 1     |         |
| 150      | Stator                        |                             |                        |              | 1     |         |
| 150      | Stator housing                |                             |                        |              | 1     |         |
| 151      | Fan cover                     |                             |                        |              | 1     |         |
| 152      | Pan head thread forming screw |                             |                        |              | 4     |         |
| 153      | Ball bearing                  | Designation: 6204.2Z.C3.SYN |                        |              | 1     |         |
| 156<br>d | Gasket                        | Internal diameter: 114,80   |                        |              | 1     |         |
|          |                               | Outer diameter: 121,20      |                        |              |       |         |
|          |                               | Thickness: 0,25             |                        |              |       |         |
| 156c     | Seal ring                     |                             |                        |              | 1     |         |
| 156c     | Seal ring                     |                             |                        |              | 1     |         |
| 156<br>b | Flange                        |                             |                        |              | 1     |         |
| 156      | Fan                           |                             |                        |              | 1     |         |
| 157      | O-ring                        | Diameter: 47                |                        |              | 1     |         |
|          |                               | Material type: NBR          |                        |              |       |         |
|          |                               | Thickness: 3                |                        |              |       |         |
| 158      | Waved washer                  |                             |                        |              | 1     |         |
| 172      | Shaft w/rotor                 |                             |                        |              | 1     |         |
| 178      | Pan head thread forming screw |                             |                        |              | 4     |         |
| 185      | Cross recess Pan head screw   |                             |                        |              | 4     |         |
| 186      | Drain plug                    |                             |                        |              | 1     |         |
| 203      | Terminal plug                 |                             |                        |              | 1     |         |
| 289<br>a | Pan head thread forming screw |                             |                        |              | 1     |         |
| -        | Kit, plug                     |                             |                        | 99369622     | 1     |         |
|          | Terminal                      |                             |                        |              | 3     |         |
| 203      | Terminal plug                 |                             |                        |              | 1     |         |
| 205      | Pan head thread forming screw |                             |                        |              | 1     |         |
| -        | Kit, screws                   |                             |                        | 98330627     | 1     |         |
| 268<br>a | Base                          |                             |                        |              | 1     |         |
| 268      | Pan head screw                |                             |                        |              | 1     |         |
| 288<br>b | Retaining ring                |                             |                        |              | 6     |         |
| 288<br>a | Pan head thread forming screw |                             |                        |              | 6     |         |
| 288      | Wire clamp                    |                             |                        |              | 3     |         |
| 289<br>a | Pan head thread forming screw |                             |                        |              | 1     |         |
| 289      | Wire clamp                    |                             |                        |              | 1     |         |
|          | Pan head thread forming screw |                             |                        | 99598708     | 4     |         |

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| 111      | Ball bearing                  |                 | Designation: 6204.2Z.C3.SYN | 97914979     | 1     |         |
| 152      | Pan head thread forming screw |                 |                             | 99834207     | 1     |         |
| 152      | Pan head thread forming screw |                 |                             | 99814578     | 1     |         |
| 156<br>d | Gasket                        |                 | Internal diameter: 114,80   | 99406425     | 1     |         |
|          |                               |                 | Outer diameter: 121,20      |              |       |         |
|          |                               |                 | Thickness: 0,25             |              |       |         |
| 186      | Drain plug                    |                 |                             | 99980519     | 1     |         |
| 251<br>d | Pan head thread forming screw |                 |                             | 98995460     | 4     |         |
| 2a       | Pump head                     |                 |                             | 96588151     | 1     | pcs     |
| 4a       | Chamber w. bearing cpl.       |                 |                             | 98371208     | 1     | pcs     |
| 4a       | Chamber w. bearing cpl.       |                 |                             | 97690601     | 1     | pcs     |
| 4a       | Chamber w. bearing cpl.       |                 |                             | 97690590     | 1     | pcs     |
| 4a       | Chamber w. bearing cpl.       |                 |                             | 96547660     | 1     | pcs     |
| 4a       | Chamber w. bearing cpl.       |                 |                             | 98371207     | 1     | pcs     |
| - 4      | Chamber cpl.                  |                 |                             | 97690020     | 1     | pcs     |
| 45       | Neck ring                     |                 |                             | 96536194     | 1     |         |
| 65       | Retainer                      |                 |                             | 92501765     | 1     |         |
| 65       | Retainer                      |                 |                             | 98270018     | 1     |         |
| 65       | Retainer                      |                 |                             | 92501764     | 1     |         |
| 4        | Chamber cpl.                  |                 |                             | 96547662     | 1     | pcs     |
| 4        | Chamber cpl.                  |                 |                             | 98371206     | 1     | pcs     |
| 5a       | Chamber cpl.                  |                 |                             | 98371205     | 1     | pcs     |
| 5a       | Chamber cpl.                  |                 |                             | 96588148     | 1     | pcs     |
| 6        | Base                          |                 |                             | 96588138     | 1     | pcs     |
| 7a       | Combi Slot Torx screw         |                 |                             | 96886324     | 4     | pcs     |
| 10       | Shaft pin                     |                 | Diameter: 5                 | 96536473     | 1     | pcs     |
|          |                               |                 | Length (mm): 26             |              |       |         |
| 10       | Shaft pin                     |                 | Diameter: 5                 | 96587588     | 1     | pcs     |
|          |                               |                 | Length (mm): 26             |              |       |         |
| 18       | Air vent screw                |                 |                             | 96547461     | 1     | pcs     |
| 18       | Air vent screw                |                 |                             | 95061351     | 1     | pcs     |
| - 25a    | Priming valve cpl.            |                 |                             | 96588242     | 1     | pcs     |
| 38       | O-ring                        |                 |                             | 99198815     | 1     |         |
| 38       | O-ring                        |                 |                             | 99412727     | 1     |         |
| 25       | Plug                          |                 |                             | 96536013     | 1     | pcs     |
| 26       | Staybolt                      |                 | Length (mm): 79             | 98986251     | 4     | pcs     |
|          |                               |                 | Thread: M12                 |              |       |         |
| 32       | Washer                        |                 | Designation: DIN 125 A      | 99883474     | 4     | pcs     |
|          |                               |                 | Internal diameter: 13       |              |       |         |
|          |                               |                 | Outer diameter: 24          |              |       |         |
|          |                               |                 | Thickness: 2,5              |              |       |         |
| 36       | Nut                           |                 | Thread: M12                 | 96620479     | 4     | pcs     |
| 37       | O-ring                        |                 |                             | 96547656     | 2     | pcs     |
| 38       | O-ring                        |                 |                             | 99198815     | 2     | pcs     |
| 38       | O-ring                        |                 |                             | 99412727     | 2     | pcs     |
| 47a      | Bearing ring                  |                 |                             | 97905743     | 1     | pcs     |
| 47a      | Bearing ring                  |                 |                             | 96547649     | 1     | pcs     |
| 49       | Impeller cpl.                 |                 |                             | 98426771     | 2     | pcs     |
| 49       | Impeller cpl.                 |                 |                             | 96547599     | 2     | pcs     |
| 49       | Impeller cpl.                 |                 |                             | 98394415     | 2     | pcs     |
| 51       | Shaft, spline, cpl.           |                 |                             | 96588198     | 1     | pcs     |
| 55       | Outer sleeve                  |                 |                             | 98811249     | 1     | pcs     |
| 60       | Formed wire spring            |                 |                             | 99935918     | 1     | pcs     |
| 64c      | Clamp, splined                |                 | Internal diameter: 8,5      | 98496968     | 1     | pcs     |
|          |                               |                 | Outer diameter: 15          |              |       |         |
| 66       | Wedge lock washer             |                 |                             | 96536157     | 1     | pcs     |
| 66       | Wedge lock washer             |                 |                             | 92575609     | 1     | pcs     |
| 67       | Lock nut                      |                 | Thread: M8                  | 98277008     | 1     | pcs     |
| 69       | Spacing bush                  |                 |                             | 96536205     | 1     | pcs     |
| 105      | Shaft seal                    |                 | Material type: HQQE         | 96983415     | 1     | pcs     |
| 441<br>b | Gasket                        |                 |                             | 96536206     | 2     | pcs     |

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| 441<br>a | Flange       |                 | Thread: RP 1           | 96547453     | 2     | pcs     |