

## Inventflow: Grundfos A-partner

### Grundfos CRE 32-4-2 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-32-4-2-a-f-a-e-hqqe>

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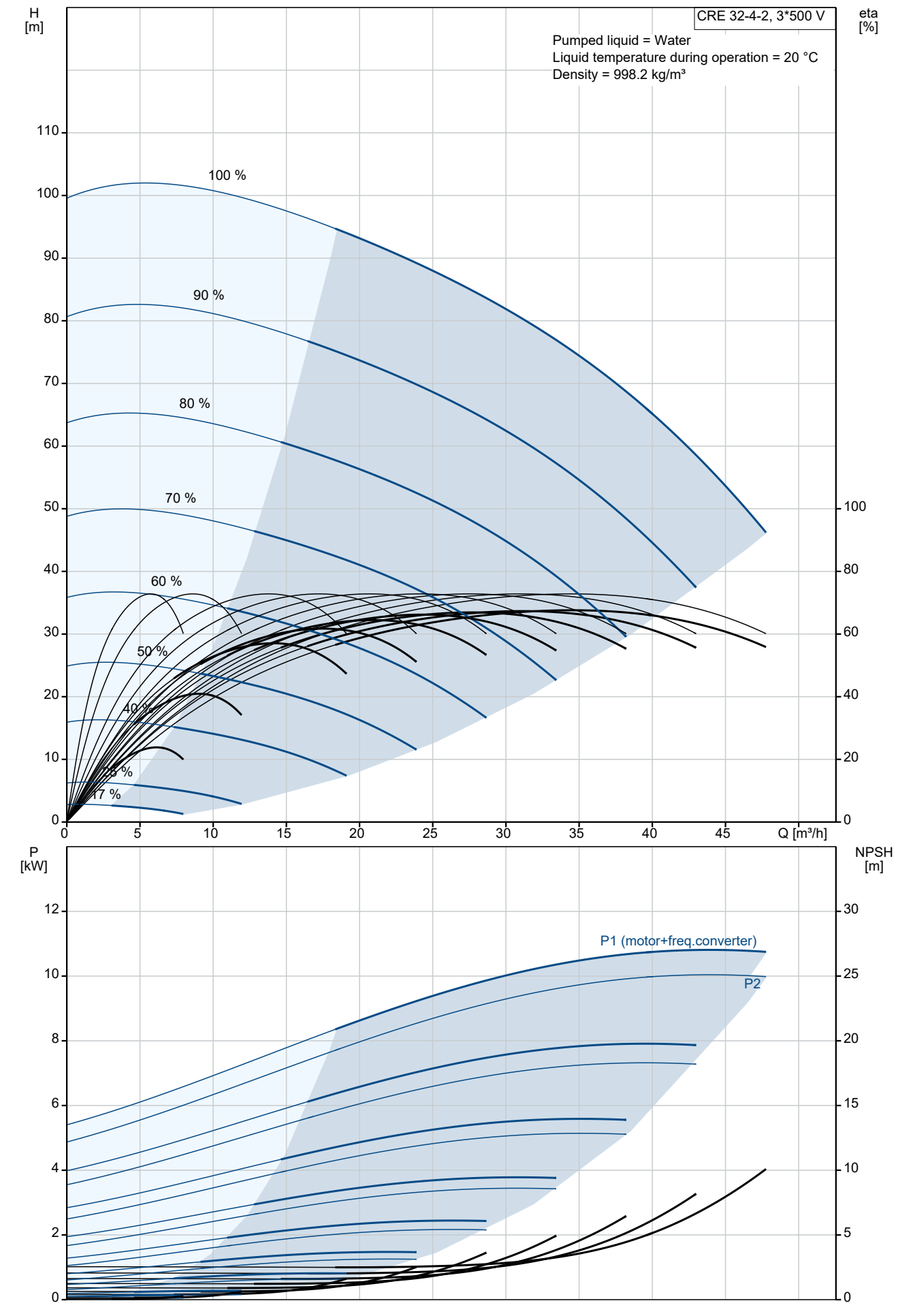
#### Datasheet



| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 1    | <p><b>CRE 32-4-2 A-F-A-E-HQQE</b></p>  <p>Product No.: <a href="#">99071955</a></p> <p>Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts 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 DIN flanges.</p> <p>The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor.<br/>The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.<br/>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.<br/>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>Liquid:<br/>Pumped liquid: Water<br/>Liquid temperature range: -30 .. 120 °C<br/>Selected liquid temperature: 20 °C<br/>Density: 998.2 kg/m<sup>3</sup></p> <p>Technical:<br/>Pump speed on which pump data are based: 3529 rpm<br/>Rated flow: 36 m<sup>3</sup>/h<br/>Rated head: 78.2 m<br/>Pump orientation: Vertical<br/>Shaft seal arrangement: Single<br/>Code for shaft seal: HQQE<br/>Approvals on nameplate: CE,EAC,UKCA,WRAS,ACS<br/>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:<br/>Base: Cast iron<br/>EN 1563 EN-GJS-500-7<br/>ASTM A536 80-55-06<br/>Impeller: Stainless steel<br/>EN 1.4301<br/>AISI 304<br/>Bearing: SIC<br/>Support bearing: Graflon</p> <p>Installation:<br/>Maximum ambient temperature: 50 °C<br/>Maximum operating pressure: 16 bar<br/>Max pressure at stated temp: 16 bar / 120 °C<br/>16 bar / -30 °C<br/>Type of connection: DIN<br/>Size of inlet connection: DN 65</p> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Size of outlet connection: DN 65<br>Pressure rating for connection: PN 40<br>Flange size for motor: FF300<br><br>Electrical data:<br>Motor standard: IEC<br>Motor type: 160MH<br>IE Efficiency class: IE5<br>Rated power - P2: 11 kW<br>Power (P2) required by pump: 11 kW<br>Mains frequency: 50 / 60 Hz<br>Rated voltage: 3 x 380-500 V<br>Rated current: 20.3-16.0 A<br>Cos phi - power factor: 0.93-0.90<br>Rated speed: 360-4000 rpm<br>Efficiency: 93.1%<br>Motor efficiency at full load: 93.1 %<br>Enclosure class (IEC 34-5): IP55<br>Insulation class (IEC 85): F<br>Motor No: 98971053<br><br>Controls:<br>Frequency converter: Built-in<br>Pressure sensor: N<br><br>Others:<br>Minimum efficiency index, MEI $\geq$ : 0.70<br>DOE Pump Energy Index CL: 0.00<br>DOE Pump Energy Index VL: 0.00<br>Net weight: 132 kg<br>Gross weight: 165 kg<br>Shipping volume: 0.495 m <sup>3</sup><br>Danish VVS No.: 386006081<br>Finnish LVI No.: 4925709<br>Country of origin: DK<br>Custom tariff no.: 84137075 |

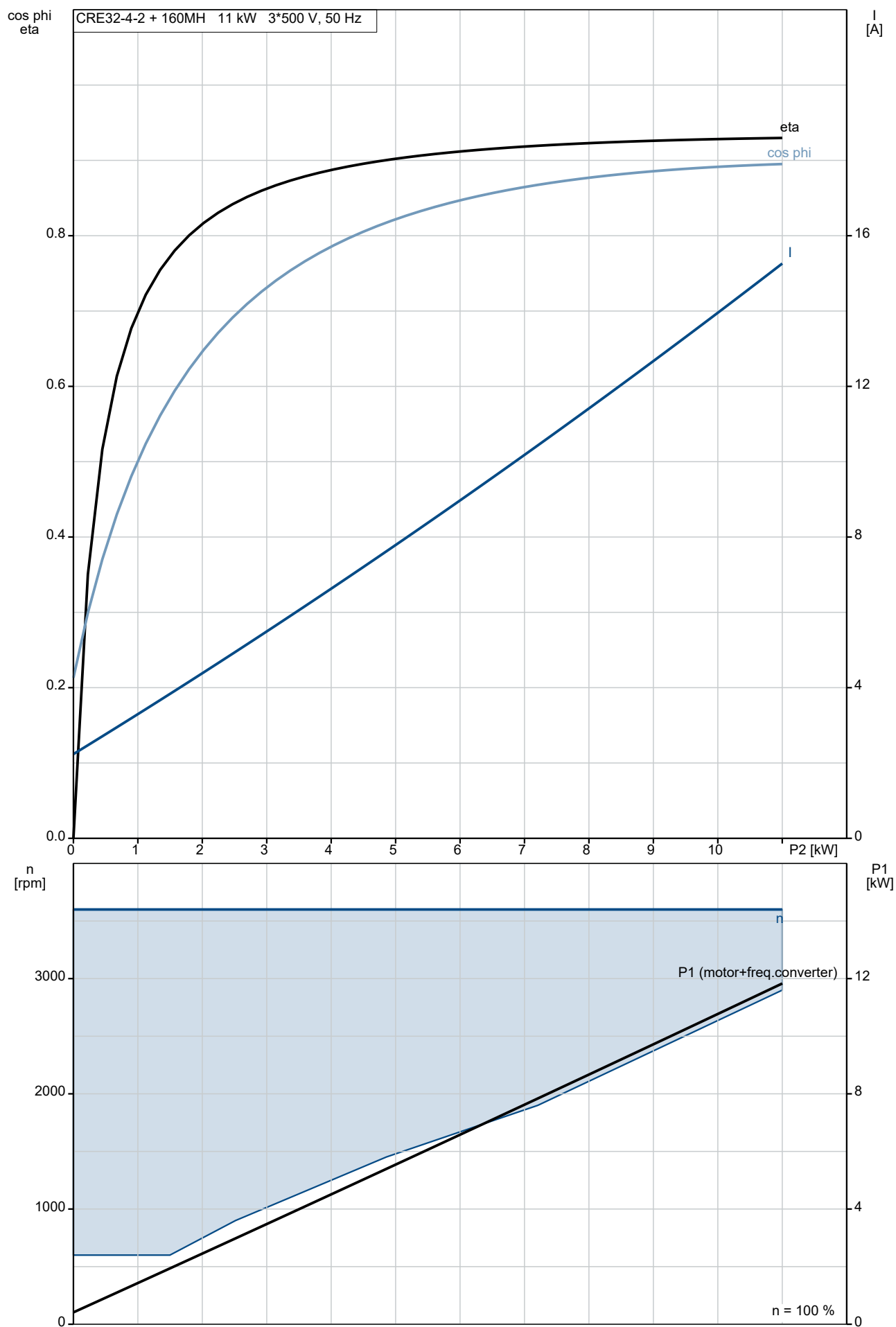
99071955 CRE 32-4-2 A-F-A-E-HQQE



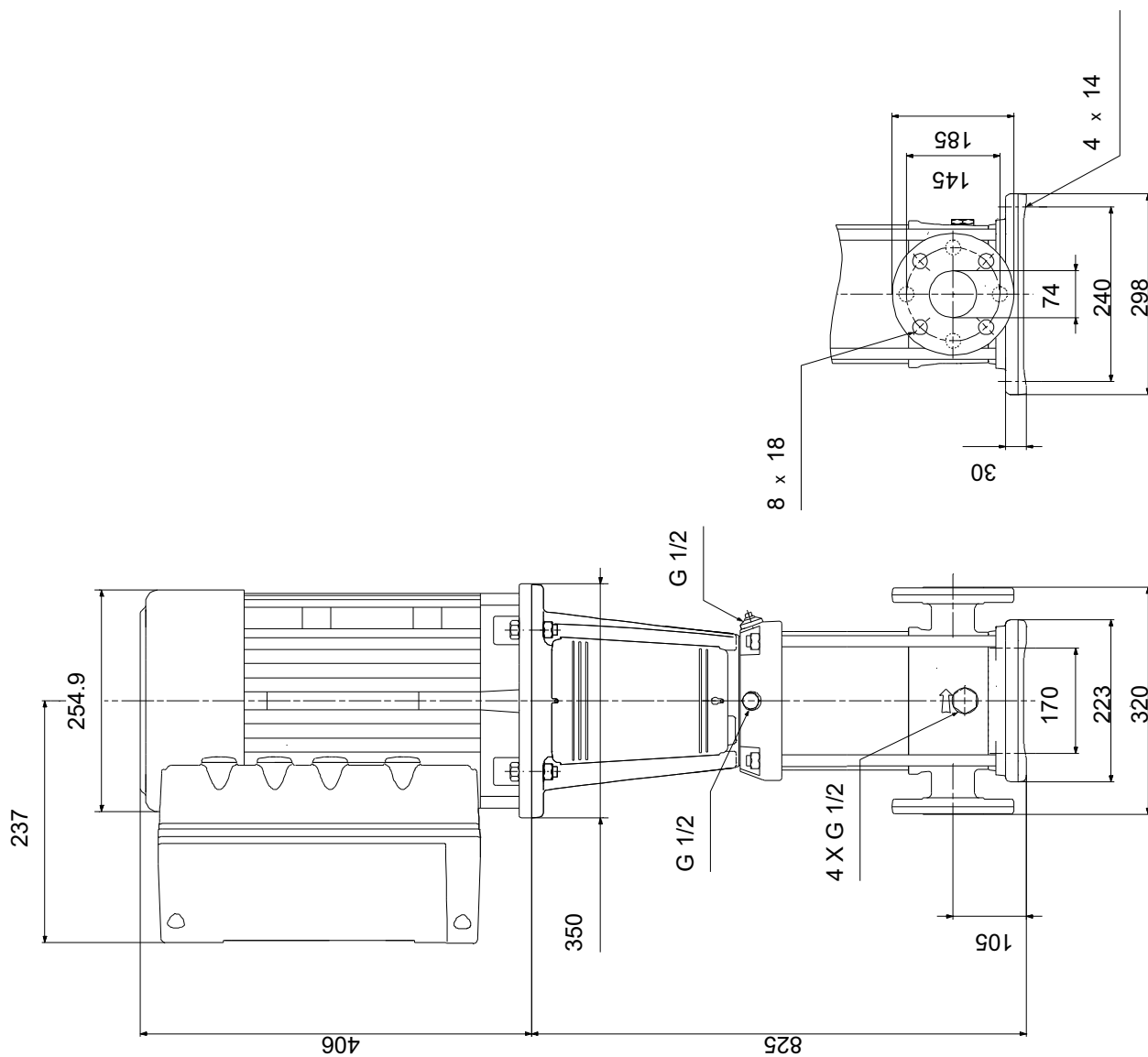


| Description                      | Value                |
|----------------------------------|----------------------|
| Motor protec:                    | ELEC                 |
| Motor No:                        | 98971053             |
| <b>Controls:</b>                 |                      |
| Control panel:                   | Standard             |
| Function Module:                 | 300                  |
| Frequency converter:             | Built-in             |
| Pressure sensor:                 | N                    |
| <b>Others:</b>                   |                      |
| Minimum efficiency index, MEI ≥: | 0.70                 |
| DOE Pump Energy Index CL:        | 0.00                 |
| DOE Pump Energy Index VL:        | 0.00                 |
| Net weight:                      | 132 kg               |
| Gross weight:                    | 165 kg               |
| Shipping volume:                 | 0.495 m <sup>3</sup> |
| Config. file no:                 | 99059296             |
| Danish VVS No.:                  | 386006081            |
| Finnish LVI No.:                 | 4925709              |
| Country of origin:               | DK                   |
| Custom tariff no.:               | 84137075             |

# 99071955 CRE 32-4-2 A-F-A-E-HQQE



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

**Spare parts CRE 32-4-2, Product No. 99071955**  
**Produced After 1633 (production year and week number)**

| Pos   | Omschrijving                   | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|--------------------------------|-----------------|------------------------|--------------|--------|---------|
| -     | Base                           |                 |                        | 96547299     | 1      | pcs     |
| 6     | Base                           |                 |                        |              | 1      |         |
| -     | Kit, chamber stack             |                 |                        | 96416907     | 1      | pcs     |
| - 80  | Chamber stack                  |                 |                        |              | 1      |         |
| - 3   | Upper chamber cpl.             |                 |                        |              | 1      |         |
|       | Cone                           |                 |                        |              |        |         |
|       | Spare, turbulence optimizer KP |                 |                        |              |        |         |
|       | Spare, turbulence optimizer KP |                 |                        |              |        |         |
|       | Spare, turbulence optimizer KP |                 |                        |              |        |         |
|       | Spare, turbulence optimizer KP |                 |                        |              |        |         |
|       | Guide                          |                 |                        |              |        |         |
| 47d   | Lock ring                      |                 |                        |              |        |         |
| 47c   | Bush                           |                 |                        |              |        |         |
| - 4a  | Intermediate chamber cpl.      |                 |                        |              | 1      |         |
|       | Intermediate chamber cpl.      |                 |                        |              |        |         |
| - 45a | Neck ring cpl.                 |                 |                        |              |        |         |
| 45    | Seal ring                      |                 |                        |              |        |         |
| 46    | Neck ring                      |                 |                        |              |        |         |
| 65    | Top f/neck ring                |                 |                        |              |        |         |
| 47    | Bearing                        |                 |                        |              |        |         |
| - 4   | Intermediate chamber cpl.      |                 |                        |              | 2      |         |
|       | Cone                           |                 |                        |              |        |         |
|       | Spare, turbulence optimizer KP |                 |                        |              |        |         |
|       | Spare, turbulence optimizer KP |                 |                        |              |        |         |
|       | Spare, turbulence optimizer KP |                 |                        |              |        |         |
|       | Spare, turbulence optimizer KP |                 |                        |              |        |         |
|       | Guide                          |                 |                        |              |        |         |
| - 45a | Neck ring cpl.                 |                 |                        |              |        |         |
| 45    | Seal ring                      |                 |                        |              |        |         |
| 46    | Neck ring                      |                 |                        |              |        |         |
| 65    | Top f/neck ring                |                 |                        |              |        |         |
| 47d   | Lock ring                      |                 |                        |              |        |         |
| 47c   | Bush                           |                 |                        |              |        |         |
| 26c   | Washer                         |                 | Designation: DIN 125A  |              | 2      |         |
|       |                                |                 | Thickness: 1,6         |              |        |         |
| 26b   | Hex socket head cap screw      |                 |                        |              | 2      |         |
| 26a   | Strap cpl.                     |                 | Length (mm): 289       |              | 2      |         |
|       |                                |                 | Thread: M8             |              |        |         |
| - 44  | Suction interconnector cpl.    |                 |                        |              | 1      |         |
|       | Suction interconnector         |                 |                        |              |        |         |
| 45    | Seal ring                      |                 |                        |              |        |         |
| 46    | Neck ring                      |                 |                        |              |        |         |
| 65    | Top f/neck ring                |                 |                        |              |        |         |
| - 47a | Bearing cpl.                   |                 |                        |              | 1      |         |
|       | Driver                         |                 |                        |              |        |         |
|       | Holder                         |                 |                        |              |        |         |
|       | Disc spring                    |                 |                        |              |        |         |
|       | Bearing ring                   |                 |                        |              |        |         |
| - 49e | Impeller cpl.                  |                 |                        |              | 2      |         |
| 48    | Nut                            |                 |                        |              |        |         |
| 49b   | Split cone                     |                 |                        |              |        |         |
| - 49  | Impeller                       |                 |                        |              |        |         |
|       | Impeller hub                   |                 |                        |              |        |         |
| 49c   | Wear ring                      |                 |                        |              |        |         |
| - 49d | Impeller cpl. reduced diameter |                 |                        |              | 2      |         |
| 48    | Nut                            |                 |                        |              |        |         |
| 49b   | Split cone                     |                 |                        |              |        |         |
| - 49a | Impeller                       |                 |                        |              |        |         |
|       | Impeller hub                   |                 |                        |              |        |         |

| Pos   | Omschrijving                   | Opmerking tekst      | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|--------------------------------|----------------------|------------------------|--------------|--------|---------|
| 49c   | Wear ring                      |                      |                        |              |        |         |
| 51    | Shaft                          |                      |                        |              | 1      |         |
| -     | Kit, chambers                  |                      |                        | 98633752     | 1      | pcs     |
| - 3   | Upper chamber cpl.             |                      |                        |              | 1      |         |
|       | Cone                           |                      |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                      |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                      |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                      |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                      |                        |              | 1      |         |
|       | Guide                          |                      |                        |              | 10     |         |
| 47    | Bearing                        |                      |                        |              | 1      |         |
| - 47a | Bearing cpl.                   |                      |                        |              | 1      |         |
|       | Driver                         |                      |                        |              | 1      |         |
|       | Holder                         |                      |                        |              | 1      |         |
|       | Disc spring                    |                      |                        |              | 1      |         |
|       | Bearing ring                   |                      |                        |              | 1      |         |
| 47f   | Hairpin clip                   |                      |                        |              | 1      |         |
| -     | Kit, coupling guard            |                      |                        | 96505135     | 1      | pcs     |
| 7a    | Socket button head screw       |                      |                        |              | 4      |         |
| 7     | Coupling guard                 |                      |                        |              | 2      |         |
| -     | Kit, cover                     |                      |                        | 98832448     | 1      | pcs     |
| 58a   | Hex socket head cap screw      | Designation: DIN 912 |                        |              | 4      |         |
|       |                                | Length (mm): 25      |                        |              |        |         |
|       |                                | Thread: M10          |                        |              |        |         |
| 58    | Cover                          |                      |                        |              | 1      |         |
| -     | Kit, gaskets                   |                      |                        | 96416597     | 1      | pcs     |
|       | Adjusting fork                 |                      |                        |              | 1      |         |
| 37    | O-ring                         |                      |                        |              | 2      |         |
| 38    | O-ring                         |                      |                        |              | 2      |         |
| 38    | O-ring                         |                      |                        |              | 4      |         |
| 60    | Spring                         |                      |                        |              | 4      |         |
| 109   | O-ring                         |                      |                        |              | 1      |         |
| 110   | O-ring                         | Diameter: 21,2       |                        |              | 1      |         |
|       |                                | Material type: EPDM  |                        |              |        |         |
|       |                                | Thickness: 3,55      |                        |              |        |         |
| -     | Kit, Impeller, reduced         |                      |                        | 98633832     | 1      | pcs     |
| 48    | Nut                            |                      |                        |              | 1      |         |
| 48    | Nut                            |                      |                        |              | 1      |         |
| 49b   | Split cone                     |                      |                        |              | 1      |         |
| - 49a | Impeller                       |                      |                        |              | 1      |         |
|       | Impeller hub                   |                      |                        |              | 1      |         |
| 49c   | Wear ring                      |                      |                        |              | 1      |         |
| -     | Kit, plug                      |                      |                        | 96505136     | 1      | pcs     |
| - 18  | Air vent screw                 |                      |                        |              | 1      |         |
|       | Spindle                        |                      |                        |              | 1      |         |
|       | Plug                           |                      |                        |              | 1      |         |
| 25    | Plug                           |                      |                        |              | 4      |         |
| 25    | Plug                           |                      |                        |              | 1      |         |
| 38    | O-ring                         |                      |                        |              | 2      |         |
| 38    | O-ring                         |                      |                        |              | 4      |         |
| 38    | O-ring                         | Diameter: 16,3       |                        |              | 2      |         |
|       |                                | Material type: FKM   |                        |              |        |         |
|       |                                | Thickness: 2,4       |                        |              |        |         |
| 38    | O-ring                         | Diameter: 16,3       |                        |              | 4      |         |
|       |                                | Material type: FKM   |                        |              |        |         |
|       |                                | Thickness: 2,4       |                        |              |        |         |
| 38    | O-ring                         | Diameter: 16,3       |                        |              | 6      |         |
|       |                                | Material type: FKM   |                        |              |        |         |
|       |                                | Thickness: 2,4       |                        |              |        |         |
| -     | Kit, shaft seal HQQE           |                      |                        | 96525458     | 1      | pcs     |
|       | Grinding device                |                      |                        |              | 1      |         |
| - 105 | Shaft seal                     | Material type: HQQE  |                        |              | 1      |         |
|       | Adjusting fork                 |                      |                        |              | 1      |         |
| 109   | O-ring                         |                      |                        |              | 1      |         |

| Pos  | Omschrijving                  | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|-----------------|------------------------|--------------|--------|---------|
| 110  | O-ring                        |                 | Diameter: 21,5         |              | 1      |         |
|      |                               |                 | Material type: EPDM    |              |        |         |
|      |                               |                 | Thickness: 4,25        |              |        |         |
| -    | Kit, wear parts               |                 |                        | 98497451     | 1      | pcs     |
| 45   | Seal ring                     |                 |                        |              | 7      |         |
| 47d  | Lock ring                     |                 |                        |              | 7      |         |
| 47c  | Bush                          |                 |                        |              | 5      |         |
| 49c  | Wear ring                     |                 |                        |              | 7      |         |
| 65   | Top f/neck ring               |                 |                        |              | 7      |         |
| -    | Motor                         |                 |                        |              | 1      | pcs     |
| -    | Kit, Ball bearing             |                 |                        | 98881526     | 1      |         |
| 111  | Ball bearing                  |                 |                        |              | 1      |         |
| 154  | Angular-contact bearing       |                 |                        |              | 1      |         |
| 156d | Seal ring                     |                 |                        |              | 1      |         |
| 156c | Seal ring                     |                 |                        |              | 1      |         |
| 158  | Waved washer                  |                 |                        |              | 2      |         |
| -    | Kit, Ball bearing             |                 |                        | 98881526     | 1      |         |
| 111  | Ball bearing                  |                 |                        |              | 1      |         |
| 154  | Angular-contact bearing       |                 |                        |              | 1      |         |
| 156d | Seal ring                     |                 |                        |              | 1      |         |
| 156c | Seal ring                     |                 |                        |              | 1      |         |
| 158  | Waved washer                  |                 |                        |              | 2      |         |
| -    | Kit, Blanking plug            |                 |                        | 99052476     | 1      |         |
| 252b | Blind plug                    |                 |                        |              | 1      |         |
| 252b | Plug cpl.                     |                 |                        |              | 5      |         |
| -    | Kit, cable gland              |                 |                        | 98736115     | 1      |         |
| 293  | Cable glands set              |                 |                        |              | 1      |         |
| -    | Kit, connector plugs          |                 |                        | 98403113     | 1      |         |
| 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              |                 |                        | 98878613     | 1      |         |
| 251d | Pan head thread forming screw |                 |                        |              | 4      |         |
| 251b | Control box                   |                 |                        |              | 1      |         |
| 251a | Control box cpl.              |                 |                        |              | 1      |         |
| 252b | Blind plug                    |                 |                        |              | 1      |         |
| 252b | Plug cpl.                     |                 |                        |              | 5      |         |
| 266  | Connector plug 10-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      |         |
| 268a | Base                          |                 |                        |              | 2      |         |
| 268  | Pan head screw                |                 |                        |              | 2      |         |
| 273b | Battery                       |                 |                        |              | 1      |         |
| 273a | Cross recess Pan head screw   |                 |                        |              | 4      |         |
| 273  | Funct. Module cpl.            |                 |                        |              | 1      |         |
| 275a | Pin                           |                 |                        |              | 1      |         |
| 277b | Spring                        |                 |                        |              | 4      |         |
| 277a | Cross recess Pan head screw   |                 |                        |              | 1      |         |
| 277  | Cover                         |                 |                        |              | 1      |         |
| 286  | Spacer                        |                 |                        |              | 1      |         |
| 287  | Cover                         |                 |                        |              | 1      |         |
| 288b | Retaining ring                |                 |                        |              | 8      |         |
| 288a | Pan head thread forming screw |                 |                        |              | 8      |         |
| 288  | Wire clamp                    |                 |                        |              | 4      |         |
| 289a | Pan head thread forming screw |                 |                        |              | 1      |         |

| Pos  | Omschrijving                  | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|-----------------|------------------------|--------------|--------|---------|
| 289  | Wire clamp                    |                 |                        |              | 1      |         |
| 290  | Control panel, cpl.           |                 |                        |              | 1      |         |
| 301  | Jumper                        |                 |                        |              | 1      |         |
| -    | Kit, Control box upper        |                 |                        | 98869869     | 1      |         |
| 251d | Pan head thread forming screw |                 |                        |              | 4      |         |
| 251b | Control box                   |                 |                        |              | 1      |         |
| -    | Kit, Control panel            |                 |                        | 98939973     | 1      |         |
| 290  | Control panel, cpl.           |                 |                        |              | 1      |         |
| -    | Kit, cover                    |                 |                        | 98330622     | 1      |         |
| 287  | Cover                         |                 |                        |              | 1      |         |
| -    | Kit, end shield (NDE)         |                 |                        | 98869886     | 1      |         |
| 150b | O-ring                        |                 |                        |              | 1      |         |
| 156c | Gamma ring                    |                 |                        |              | 1      |         |
| 156c | Seal ring                     |                 |                        |              | 1      |         |
| 156a | End shield NDE                |                 |                        |              | 1      |         |
| 158  | Waved washer                  |                 |                        |              | 1      |         |
| 200a | Grease nipple                 |                 |                        |              | 1      |         |
| 206  | Pan head thread forming screw |                 |                        |              | 4      |         |
| 206  | Hex socket head cap screw     |                 |                        |              | 4      |         |
| 207b | Nut                           |                 |                        |              | 4      |         |
| -    | Kit, fan                      |                 |                        | 98869879     | 1      |         |
| 152  | Pan head thread forming screw |                 |                        |              | 4      |         |
| 156c | Seal ring                     |                 |                        |              | 1      |         |
| 156  | Fan                           |                 |                        |              | 1      |         |
| -    | Kit, fan cover                |                 |                        | 98869873     | 1      |         |
| 151  | Fan cover                     |                 |                        |              | 1      |         |
| 152  | Pan head thread forming screw |                 |                        |              | 4      |         |
| -    | Kit, flange (DE)              |                 |                        | 98869906     | 1      |         |
|      | Glue                          |                 |                        |              | 0      |         |
| 150b | O-ring                        |                 |                        |              | 1      |         |
| 155a | Bearing cover                 |                 |                        |              | 1      |         |
| 156c | Seal ring                     |                 |                        |              | 1      |         |
| 156b | Flange                        |                 |                        |              | 1      |         |
| 185  | Hex socket head cap screw     |                 |                        |              | 4      |         |
| 201c | Drain plug                    |                 |                        |              | 4      |         |
| 201b | Blind plug                    |                 |                        |              | 1      |         |
| 201a | Grease nipple                 |                 |                        |              | 1      |         |
| 208b | Nut                           |                 |                        |              | 4      |         |
| 208a | Gasket                        |                 |                        |              | 3      |         |
| 208  | Hex socket head cap screw     |                 | Designation: DIN912    |              | 3      |         |
|      |                               |                 | Length (mm): 40        |              |        |         |
|      |                               |                 | Thread: M5             |              |        |         |
| -    | Kit, Funct. module            |                 |                        | 98334777     | 1      |         |
| 273a | Cross recess Pan head screw   |                 |                        |              | 5      |         |
| 273  | Funct. Module cpl.            |                 |                        |              | 1      |         |
| 275a | Pin                           |                 |                        |              | 1      |         |
| 286  | Spacer                        |                 |                        |              | 1      |         |
| -    | Kit, Isolation cover          |                 |                        | 98859523     | 1      |         |
| 277b | Spring                        |                 |                        |              | 4      |         |
| 277a | Cross recess Pan head screw   |                 |                        |              | 1      |         |
| 277  | Cover                         |                 |                        |              | 1      |         |
| -    | Kit, Lower part cpl.          |                 |                        | 98859573     | 1      |         |
| 178  | Pan head thread forming screw |                 |                        |              | 4      |         |
| 251a | Control box cpl.              |                 |                        |              | 1      |         |
| 275a | Pin                           |                 |                        |              | 1      |         |
| 277a | Cross recess Pan head screw   |                 |                        |              | 1      |         |
| 277  | Cover                         |                 |                        |              | 1      |         |
| -    | Kit, motor                    |                 |                        | 99010810     | 1      |         |
|      | Hex socket head cap screw     |                 |                        |              | 2      |         |
|      | Glue                          |                 |                        |              | 0      |         |
|      | Terminal                      |                 |                        |              | 6      |         |
| 66a  | Washer                        |                 |                        |              | 2      |         |
| 118a | Hex socket head cap screw     |                 |                        |              | 4      |         |
| 150b | O-ring                        |                 |                        |              | 2      |         |

| Pos             | Omschrijving                  | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-----------------|-------------------------------|-----------------|------------------------|--------------|--------|---------|
| 150             | Stator w/housing              |                 |                        |              | 1      |         |
| 151             | Fan cover                     |                 |                        |              | 1      |         |
| 152             | Pan head thread forming screw |                 |                        |              | 4      |         |
| 153             | Angular-contact bearing       |                 |                        |              | 1      |         |
| 154             | Ball bearing                  |                 |                        |              | 1      |         |
| 155a            | Bearing cover                 |                 |                        |              | 1      |         |
| 156d            | Gasket                        |                 |                        |              | 1      |         |
| 156c            | Seal ring                     |                 |                        |              | 1      |         |
| 156c            | Seal ring                     |                 |                        |              | 1      |         |
| 156b            | Flange                        |                 |                        |              | 1      |         |
| 156a            | End shield NDE                |                 |                        |              | 1      |         |
| 156             | Fan                           |                 |                        |              | 1      |         |
| 158             | Waved washer                  |                 |                        |              | 2      |         |
| 172             | Shaft w/rotor                 |                 |                        |              | 1      |         |
| 185             | Hex socket head cap screw     |                 |                        |              | 4      |         |
| 186             | Drain plug                    |                 |                        |              | 4      |         |
| 187             | Retaining ring                |                 |                        |              | 1      |         |
| 195.a           | Grease nipple                 |                 |                        |              | 1      |         |
| 195.a           | Grease nipple                 |                 |                        |              | 1      |         |
| 196             | Diaphragm                     |                 |                        |              | 1      |         |
| 203             | Terminal plug                 |                 |                        |              | 1      |         |
| 208b            | Nut                           |                 |                        |              | 4      |         |
| 208b            | Nut                           |                 |                        |              | 4      |         |
| 208a            | Gasket                        |                 |                        |              | 3      |         |
| 208             | Hex socket head cap screw     |                 | Designation: DIN912    |              | 3      |         |
| Length (mm): 40 |                               |                 |                        |              |        |         |
| Thread: M5      |                               |                 |                        |              |        |         |
| 289a            | Pan head thread forming screw |                 |                        |              | 2      |         |
| -               | Kit, plug                     |                 |                        | 99028677     | 1      |         |
| 152             | Pan head thread forming screw |                 |                        |              | 2      |         |
| 203             | Terminal plug                 |                 |                        |              | 1      |         |
| 205             | Gasket                        |                 |                        |              | 1      |         |
| -               | Kit, screws                   |                 |                        | 99028725     | 1      |         |
| 268a            | Base                          |                 |                        |              | 2      |         |
| 268             | Pan head screw                |                 |                        |              | 2      |         |
| 288b            | Retaining ring                |                 |                        |              | 8      |         |
| 288a            | Pan head thread forming screw |                 |                        |              | 8      |         |
| 288             | Wire clamp                    |                 |                        |              | 4      |         |
| 289a            | Pan head thread forming screw |                 |                        |              | 1      |         |
| 289             | Wire clamp                    |                 |                        |              | 1      |         |
|                 | Lifting device                |                 |                        | 99140040     | 2      |         |
| 152             | Pan head thread forming screw |                 |                        | 99834207     | 2      |         |
| 152             | Pan head thread forming screw |                 |                        | 99814578     | 2      |         |
| 153             | Angular-contact bearing       |                 |                        | 98466086     | 1      |         |
| 186             | Drain plug                    |                 |                        | 99980519     | 4      |         |
| 251d            | Pan head thread forming screw |                 |                        | 98995460     | 4      |         |
| 266             | Connector plug 3-pole         |                 |                        | 99421265     | 1      |         |
| 1a              | Motor stool                   |                 |                        | 98993921     | 1      | pcs     |
| 2               | Pump head                     |                 |                        | 96587722     | 1      | pcs     |
| - 3             | Upper chamber cpl.            |                 |                        | 98633863     | 1      | pcs     |
| 47c             | Bush                          |                 |                        | 99321194     | 1      |         |
| - 4a            | Intermediate chamber cpl.     |                 |                        | 99262755     | 1      | pcs     |
| 47              | Bearing                       |                 |                        | 99964632     | 1      |         |
| 47              | Bearing                       |                 |                        | 99928986     | 1      |         |
| + 4a            | Intermediate chamber cpl.     |                 |                        | 99363114     | 1      | pcs     |
| - 4             | Intermediate chamber cpl.     |                 |                        | 96534939     | 2      | pcs     |
| - 45a           | Neck ring cpl.                |                 |                        | 98686545     | 1      |         |
| 45              | Seal ring                     |                 |                        | 97915217     | 1      |         |
| 65              | Top f/neck ring               |                 |                        | 96534931     | 1      |         |
| + 4             | Intermediate chamber cpl.     |                 |                        | 98497466     | 2      | pcs     |
| - 6             | Base cpl.                     |                 | Rubber type: EPDM      | 96587692     | 1      | pcs     |
| 25              | Plug                          |                 |                        | 96536013     | 4      |         |
| 37              | O-ring                        |                 |                        | 96536149     | 1      |         |

| Pos   | Omschrijving                   | Opmerking tekst        | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|--------------------------------|------------------------|------------------------|--------------|--------|---------|
| 38    | O-ring                         |                        |                        | 99198815     | 4      |         |
| 38    | O-ring                         |                        |                        | 99412727     | 4      |         |
| 7a    | Socket button head screw       |                        |                        | 96549696     | 4      | pcs     |
| 7     | Coupling guard                 |                        |                        | 96603279     | 2      | pcs     |
| 9     | Hex socket head cap screw      | Designation: DIN 912   |                        | 99789390     | 4      | pcs     |
|       |                                | Length (mm): 25        |                        |              |        |         |
|       |                                | Thread: M10            |                        |              |        |         |
| + 18  | Air vent screw                 |                        |                        | 96547461     | 1      | pcs     |
| + 18  | Air vent screw                 |                        |                        | 95061351     | 1      | pcs     |
| 25    | Plug                           |                        |                        | 96536013     | 1      | pcs     |
| 26c   | Washer                         | Designation: DIN 125A  |                        | 99262704     | 2      | pcs     |
|       |                                | Thickness: 1,6         |                        |              |        |         |
| 26c   | Washer                         | Designation: DIN 125A  |                        | 99886930     | 2      | pcs     |
|       |                                | Thickness: 1,6         |                        |              |        |         |
| 26b   | Hex socket head cap screw      |                        |                        | 98931380     | 2      | pcs     |
| 26a   | Strap cpl.                     | Length (mm): 289       |                        | 98983837     | 2      | pcs     |
|       |                                | Thread: M8             |                        |              |        |         |
| 26    | Staybolt                       | Length (mm): 426       |                        | 98923038     | 4      | pcs     |
|       |                                | Thread: M16            |                        |              |        |         |
| 28.a  | Hex head screw                 |                        |                        | 96620478     | 4      | pcs     |
| 28    | Hex socket head cap screw      | Designation: DIN 912   |                        | 96536147     | 4      | pcs     |
|       |                                | Length (mm): 50        |                        |              |        |         |
|       |                                | Thread: M10            |                        |              |        |         |
| 32    | Washer                         | Designation: DIN 125 A |                        | 98923051     | 8      | pcs     |
|       |                                | Internal diameter: 17  |                        |              |        |         |
|       |                                | Outer diameter: 30     |                        |              |        |         |
|       |                                | Thickness: 3           |                        |              |        |         |
| 36    | Hex nut                        | Thread: M16            |                        | 96620480     | 4      | pcs     |
| 37    | O-ring                         |                        |                        | 96536149     | 1      | pcs     |
| 38    | O-ring                         |                        |                        | 99198815     | 2      | pcs     |
| 38    | O-ring                         |                        |                        | 99412727     | 2      | pcs     |
| - 44  | Suction interconnector cpl.    |                        |                        | 96547328     | 1      | pcs     |
| 45    | Seal ring                      |                        |                        | 97915217     | 1      |         |
| 65    | Top f/neck ring                |                        |                        | 96534931     | 1      |         |
| + 47a | Bearing cpl.                   |                        |                        | 99366796     | 1      | pcs     |
| + 47a | Bearing cpl.                   |                        |                        | 99620191     | 1      | pcs     |
| + 47a | Bearing cpl.                   |                        |                        | 96534932     | 1      | pcs     |
| - 49e | Impeller cpl.                  |                        |                        | 98287180     | 2      | pcs     |
| 49c   | Wear ring                      |                        |                        | 96534930     | 1      |         |
| + 49e | Impeller cpl.                  |                        |                        | 96534935     | 2      | pcs     |
| + 49e | Impeller cpl.                  |                        |                        | 98394455     | 2      | pcs     |
| - 49d | Impeller cpl. reduced diameter |                        |                        | 98394463     | 2      | pcs     |
| 48    | Nut                            |                        |                        | 99262680     | 1      |         |
| 48    | Nut                            |                        |                        | 99262683     | 1      |         |
| 48    | Nut                            |                        |                        | 96536016     | 1      |         |
| 49b   | Split cone                     |                        |                        | 96536010     | 1      |         |
| - 49a | Impeller                       |                        |                        | 96534937     | 1      |         |
| 49c   | Wear ring                      |                        |                        | 96534930     | 1      |         |
| 51    | Shaft                          |                        |                        | 98506278     | 1      | pcs     |
| 55    | Outer sleeve                   | Outer diameter: 197,0  |                        | 98895077     | 1      | pcs     |
|       |                                | Length (mm): 305,5     |                        |              |        |         |
| 58    | Cover                          |                        |                        | 98893158     | 1      | pcs     |
| 60    | Spring                         |                        |                        | 96536032     | 4      | pcs     |
| - 105 | Shaft seal                     | Material type: HQQE    |                        | 96984086     | 1      | pcs     |
|       | Adjusting fork                 |                        |                        | 96587896     | 1      |         |
| 109   | O-ring                         |                        |                        | 99651108     | 1      |         |
| 109   | O-ring                         |                        |                        | 96547586     | 1      |         |
| + 105 | Shaft seal                     | Material type: HQQE    |                        | 96984070     | 1      | pcs     |
| 440b  | Lock ring                      |                        |                        | 96534918     | 1      | pcs     |