

## Inventflow: Grundfos A-partner

### Grundfos CRN 32-2 A-F-A-E-HQQE

Find the pump here:

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

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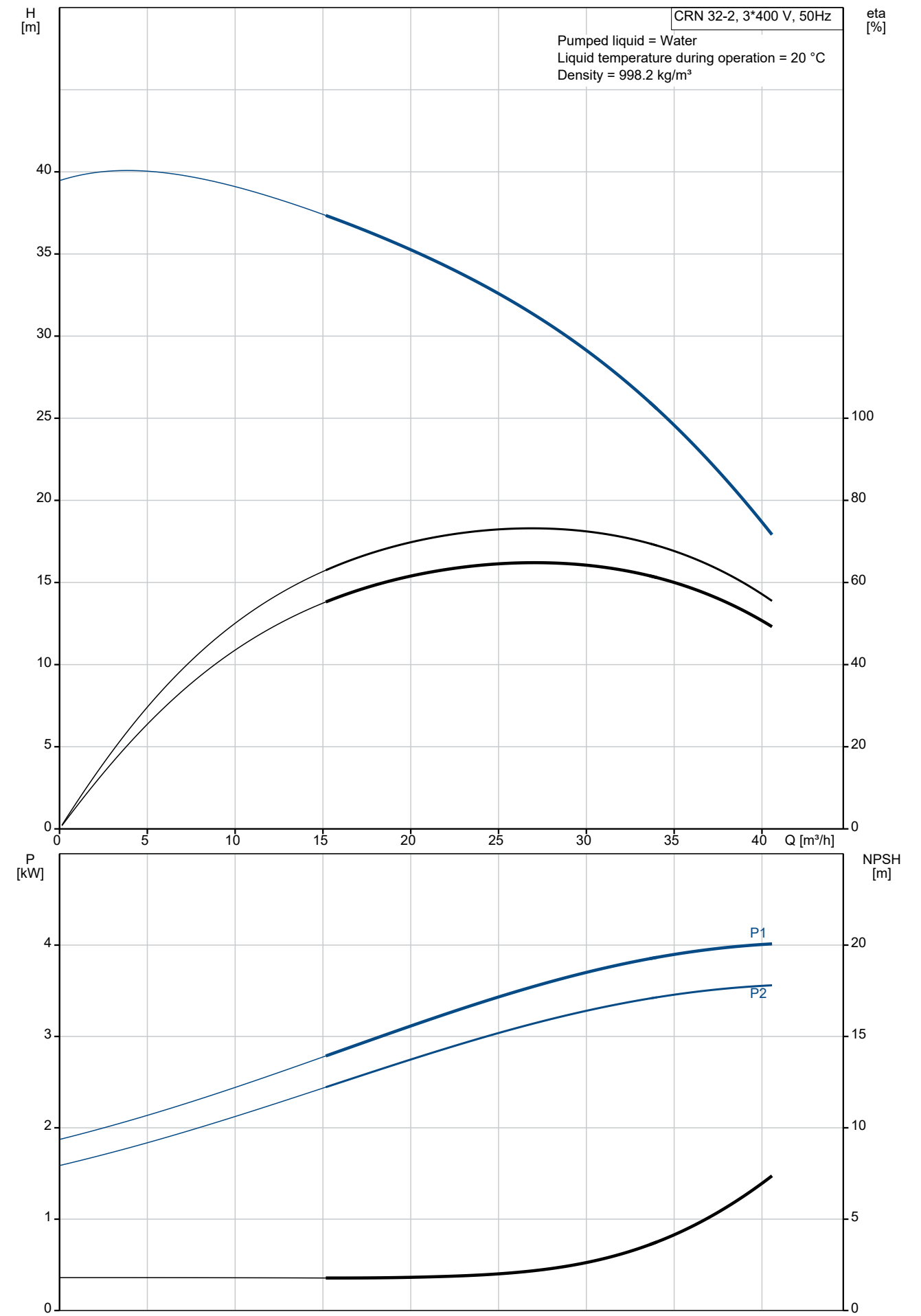
#### Datasheet



| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| 1    | <p><b>CRN 32-2 A-F-A-E-HQQE</b></p>  <p>Product No.: <a href="#">96122353</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, intermediate chambers and outer sleeve are made of</li> </ul> <p>Impeller: Stainless steel, EN 1.4401.</p> <ul style="list-style-type: none"> <li>- Pump head cover and base are made of</li> </ul> <p>Pump housing: Stainless steel, EN 1.4408.</p> <ul style="list-style-type: none"> <li>- The shaft seal has assembly length according to EN 12756.</li> <li>- Power transmission is via cast iron split coupling.</li> </ul> <p>Flange standard: - Pipework connection is via DIN flanges/couplings.</p> <p>Phase: The motor is a 3-phase AC motor.</p> <p>Controls:</p> <p>Frequency converter: NONE</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -40 .. 120 °C</p> <p>Selected liquid temperature: 20 °C</p> <p>Density: 998.2 kg/m<sup>3</sup></p> <p>Technical:</p> <p>Pump speed on which pump data are based: 2917 rpm</p> <p>Rated flow: 30 m<sup>3</sup>/h</p> <p>Rated head: 29.5 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: Stainless steel<br/>EN 1.4408<br/>AISI 316</p> <p>Impeller: Stainless steel<br/>EN 1.4401<br/>AISI 316</p> <p>Bearing: SIC</p> <p>Support bearing: Graflon</p> <p>Installation:</p> <p>Maximum ambient temperature: 60 °C</p> <p>Maximum operating pressure: 16 bar</p> <p>Max pressure at stated temp: 16 bar / 120 °C<br/>16 bar / -40 °C</p> |

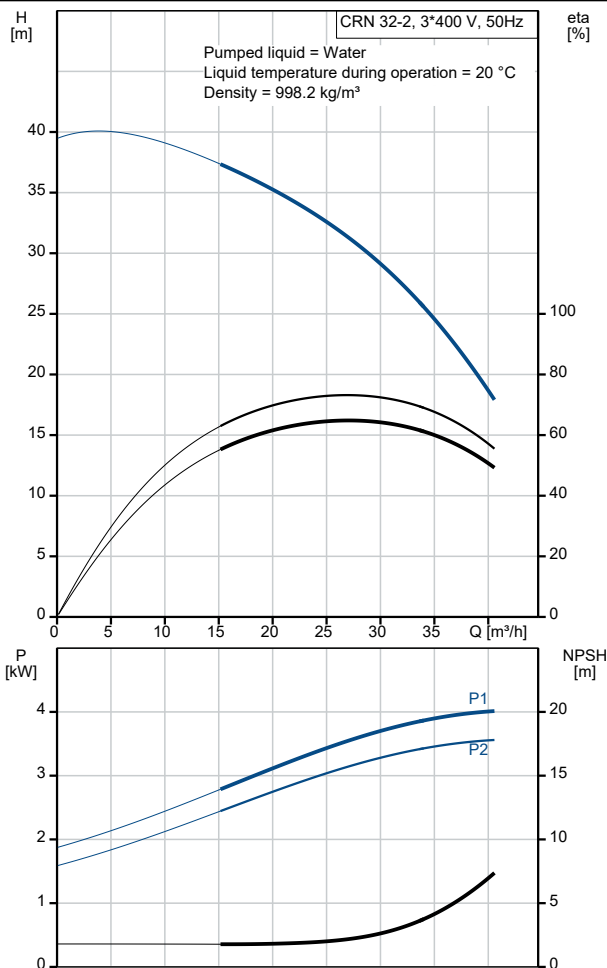
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>Type of connection: DIN</p> <p>Size of inlet connection: DN 65</p> <p>Size of outlet connection: DN 65</p> <p>Pressure rating for connection: PN 40</p> <p>Flange size for motor: FT130</p> <p>Electrical data:</p> <p>Motor standard: IEC</p> <p>Motor type: 112MC</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 4 kW</p> <p>Power (P2) required by pump: 4 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-415D V</p> <p>Rated current: 7.9 A</p> <p>Starting current: 1000-1110 %</p> <p>Cos phi - power factor: 0.87-0.87</p> <p>Rated speed: 2920-2940 rpm</p> <p>Efficiency: IE3 88,1%</p> <p>Motor efficiency at full load: 88.1 %</p> <p>Motor efficiency at 3/4 load: 88.6 %</p> <p>Motor efficiency at 1/2 load: 85.2 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 85U15413</p> <p>Others:</p> <p>Minimum efficiency index, MEI ≥: 0.70</p> <p>Net weight: 88.7 kg</p> <p>Gross weight: 112 kg</p> <p>Shipping volume: 0.309 m<sup>3</sup></p> <p>Danish VVS No.: 385916020</p> <p>Country of origin: DK</p> <p>Custom tariff no.: 84137075</p> |

96122353 CRN 32-2 A-F-A-E-HQQE 50 Hz



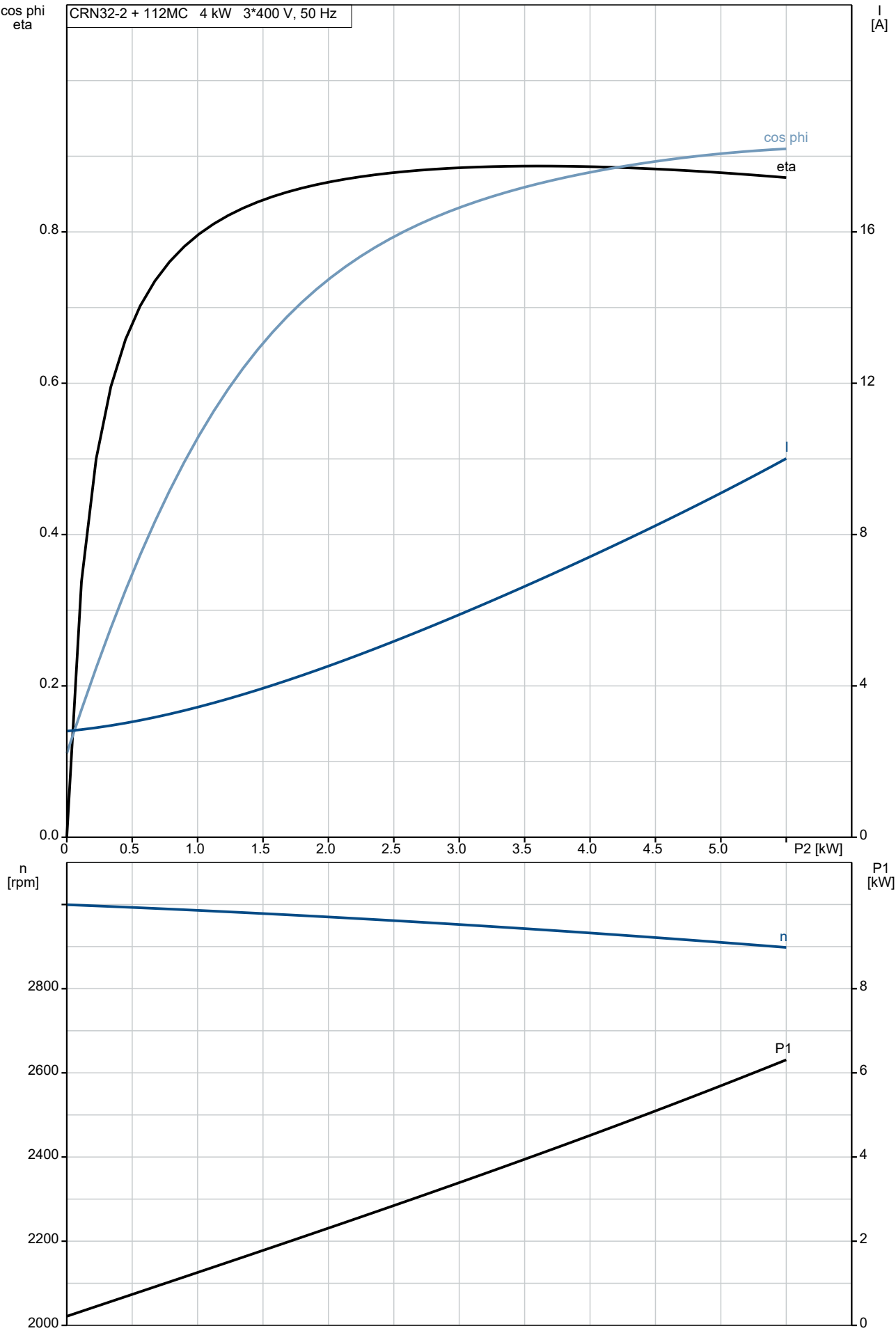
| Description                              | Value                    |
|------------------------------------------|--------------------------|
| <b>General information:</b>              |                          |
| Product name:                            | CRN 32-2<br>A-F-A-E-HQQE |
| Product No:                              | 96122353                 |
| EAN number:                              | 5700396683973            |
| <b>Technical:</b>                        |                          |
| Pump speed on which pump data are based: | 2917 rpm                 |
| Rated flow:                              | 30 m³/h                  |
| Rated head:                              | 29.5 m                   |
| Maximum head:                            | 39.5 m                   |
| Stages:                                  | 2                        |
| Impellers:                               | 2                        |
| Number of reduced-diameter impellers:    | 0                        |
| Low NPSH:                                | N                        |
| Pump orientation:                        | Vertical                 |
| Shaft seal arrangement:                  | Single                   |
| Code for shaft seal:                     | HQQE                     |
| Approvals on nameplate:                  | CE,EAC,UKCA,WRAS,A<br>CS |
| Curve tolerance:                         | ISO9906:2012 3B          |
| Pump version:                            | A                        |
| Model:                                   | B                        |
| <b>Materials:</b>                        |                          |
| Base:                                    | Stainless steel          |
| Base:                                    | EN 1.4408                |
| Base:                                    | AISI 316                 |
| Impeller:                                | Stainless steel          |
| Impeller:                                | EN 1.4401                |
| Impeller:                                | AISI 316                 |
| Material code:                           | A                        |
| Code for rubber:                         | E                        |
| Bearing:                                 | SIC                      |
| Support bearing:                         | Graflon                  |
| <b>Installation:</b>                     |                          |
| Maximum ambient temperature:             | 60 °C                    |
| Maximum operating pressure:              | 16 bar                   |
| Max pressure at stated temp:             | 16 bar / 120 °C          |
| Max pressure at stated temp:             | 16 bar / -40 °C          |
| Type of connection:                      | DIN                      |
| Size of inlet connection:                | DN 65                    |
| Size of outlet connection:               | DN 65                    |
| Pressure rating for connection:          | PN 40                    |
| Flange size for motor:                   | FT130                    |
| Connect code:                            | F                        |
| <b>Liquid:</b>                           |                          |
| Pumped liquid:                           | Water                    |
| Liquid temperature range:                | -40 .. 120 °C            |
| Selected liquid temperature:             | 20 °C                    |
| Density:                                 | 998.2 kg/m³              |
| <b>Electrical data:</b>                  |                          |
| Motor standard:                          | IEC                      |
| Motor type:                              | 112MC                    |
| IE Efficiency class:                     | IE3                      |
| Rated power - P2:                        | 4 kW                     |
| Power (P2) required by pump:             | 4 kW                     |
| Mains frequency:                         | 50 Hz                    |
| Rated voltage:                           | 3 x 380-415D V           |
| Rated current:                           | 7.9 A                    |
| Starting current:                        | 1000-1110 %              |
| Cos phi - power factor:                  | 0.87-0.87                |
| Rated speed:                             | 2920-2940 rpm            |
| Efficiency:                              | IE3 88,1%                |
| Motor efficiency at full load:           | 88.1 %                   |
| Motor efficiency at 3/4 load:            | 88.6 %                   |

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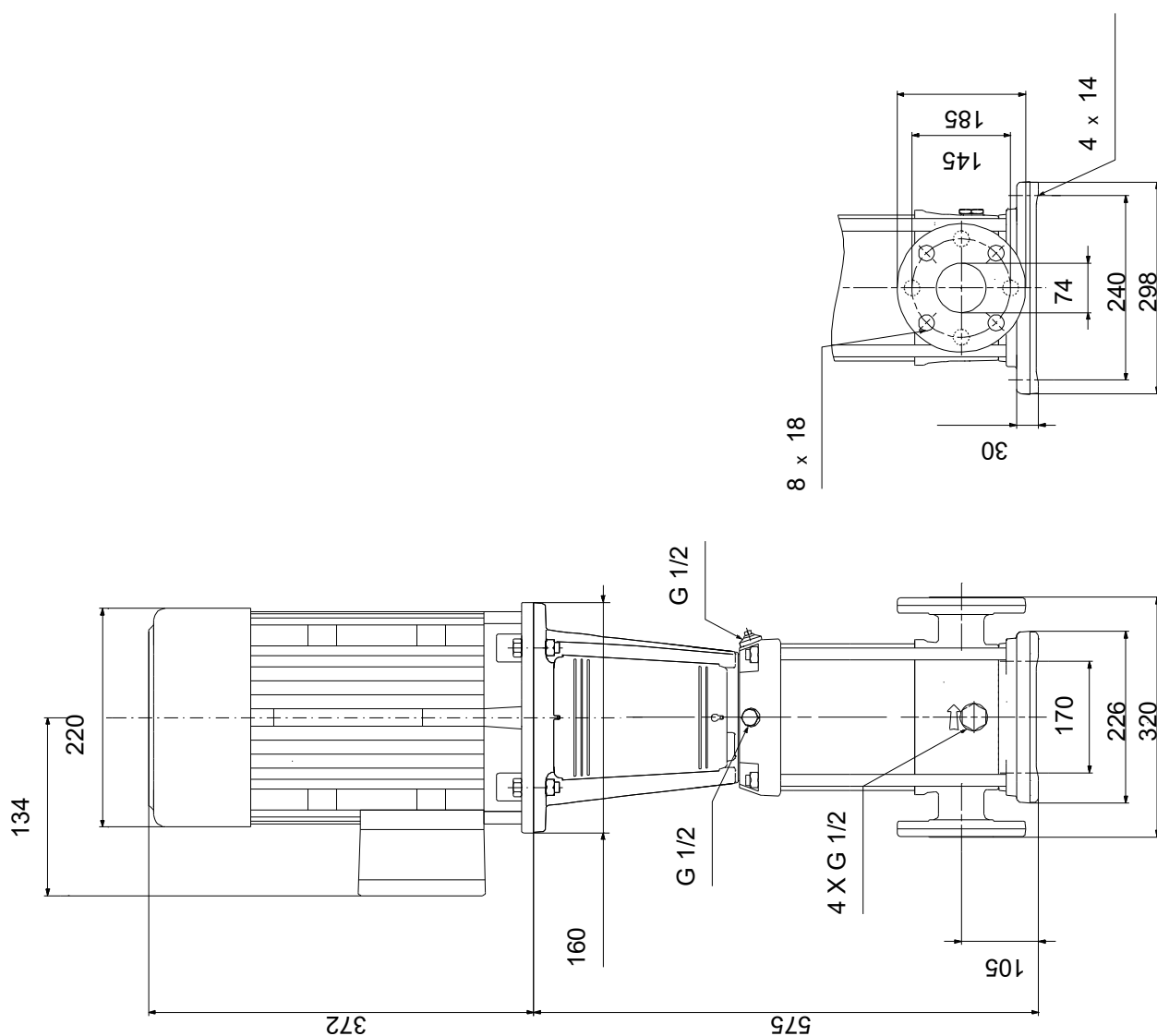


| Description                      | Value           |
|----------------------------------|-----------------|
| Motor efficiency at 1/2 load:    | 85.2 %          |
| Number of poles:                 | 2               |
| Enclosure class (IEC 34-5):      | 55 Dust/Jetting |
| Insulation class (IEC 85):       | F               |
| Motor protec:                    | PTC             |
| Motor No:                        | 85U15413        |
| <b>Controls:</b>                 |                 |
| Frequency converter:             | NONE            |
| <b>Others:</b>                   |                 |
| Minimum efficiency index, MEI ≥: | 0.70            |
| Net weight:                      | 88.7 kg         |
| Gross weight:                    | 112 kg          |
| Shipping volume:                 | 0.309 m³        |
| Danish VVS No.:                  | 385916020       |
| Country of origin:               | DK              |
| Custom tariff no.:               | 84137075        |

96122353 CRN 32-2 A-F-A-E-HQQE 50 Hz



# 96122353 CRN 32-2 A-F-A-E-HQQE 50 Hz



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

**Spare parts CRN 32-2, Product No. 96122353**  
**Produced After 1410 (production year and week number)**

| Pos   | Omschrijving                | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|-----------------------------|-----------------|------------------------|--------------|--------|---------|
| -     | Base                        |                 |                        | 98925061     | 1      | pcs     |
| 6     | Base                        |                 |                        |              | 1      |         |
| -     | Kit, chamber stack          |                 |                        | 96416293     | 1      | pcs     |
| - 80  | Chamber stack               |                 |                        |              | 1      |         |
| - 3   | Upper chamber cpl.          |                 |                        |              | 1      |         |
|       | Guide cup                   |                 |                        |              |        |         |
|       | Guide cup                   |                 |                        |              |        |         |
|       | Cone                        |                 |                        |              |        |         |
|       | Guide                       |                 |                        |              |        |         |
|       | Chamber                     |                 |                        |              |        |         |
|       | Chamber                     |                 |                        |              |        |         |
| 47d   | Lock ring                   |                 |                        |              |        |         |
| 47c   | Bush                        |                 |                        |              |        |         |
| - 4a  | Intermediate chamber cpl.   |                 |                        |              | 1      |         |
|       | Guide cup                   |                 |                        |              |        |         |
|       | Guide cup                   |                 |                        |              |        |         |
|       | Cone                        |                 |                        |              |        |         |
|       | Guide                       |                 |                        |              |        |         |
|       | Chamber                     |                 |                        |              |        |         |
|       | Chamber                     |                 |                        |              |        |         |
| 45a   | Neck ring cpl.              |                 |                        |              |        |         |
| 47    | Bearing                     |                 |                        |              |        |         |
| 26c   | Washer                      |                 | Designation: DIN 125A  |              | 2      |         |
|       |                             |                 | Thickness: 1,6         |              |        |         |
| 26b   | Hex socket head cap screw   |                 |                        |              | 2      |         |
| 26a   | Strap cpl.                  |                 | Length (mm): 149       |              | 2      |         |
|       |                             |                 | Thread: M8             |              |        |         |
| - 44  | Suction interconnector cpl. |                 |                        |              | 1      |         |
| 44a   | 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                   |                 |                        |              |        |         |
| 51    | Shaft                       |                 |                        |              | 1      |         |
| -     | Kit, chambers               |                 |                        | 98633738     | 1      | pcs     |
| - 4a  | Intermediate chamber cpl.   |                 |                        |              | 1      |         |
|       | Guide cup                   |                 |                        |              | 1      |         |
|       | Guide cup                   |                 |                        |              | 1      |         |
|       | Cone                        |                 |                        |              | 1      |         |
|       | Guide                       |                 |                        |              | 10     |         |
|       | Chamber                     |                 |                        |              | 1      |         |
|       | Chamber                     |                 |                        |              | 1      |         |
| 45a   | Neck ring cpl.              |                 |                        |              | 1      |         |
| 47    | Bearing                     |                 |                        |              | 1      |         |
| - 47a | Bearing cpl.                |                 |                        |              | 1      |         |
|       | Driver                      |                 |                        |              | 1      |         |
|       | Holder                      |                 |                        |              | 1      |         |
|       | Disc spring                 |                 |                        |              | 1      |         |
|       | Bearing ring                |                 |                        |              | 1      |         |

| Pos   | Omschrijving              | Opmerking tekst      | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|---------------------------|----------------------|------------------------|--------------|--------|---------|
| -     | Kit, coupling             |                      |                        | 96416590     | 1      | pcs     |
|       | Adjusting fork            |                      |                        |              | 1      |         |
| 9     | Hex socket head cap screw | Designation: DIN 912 |                        |              | 4      |         |
|       |                           | Length (mm): 25      |                        |              |        |         |
|       |                           | Thread: M10          |                        |              |        |         |
| 10a   | Coupling                  |                      |                        |              | 1      |         |
| -     | Kit, coupling guard       |                      |                        | 96505134     | 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             |                      |                        | 98633780     | 1      | pcs     |
| 48    | Nut                       |                      |                        |              | 1      |         |
| 48    | Nut                       |                      |                        |              | 1      |         |
| 49b   | Split cone                |                      |                        |              | 1      |         |
| - 49  | 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      |         |
| 110   | O-ring                    | Diameter: 21,5       |                        |              | 1      |         |
|       |                           | Material type: EPDM  |                        |              |        |         |
|       |                           | Thickness: 4,25      |                        |              |        |         |
| -     | Kit, wear parts           |                      |                        | 98497130     | 1      | pcs     |
| 45    | Seal ring                 |                      |                        |              | 2      |         |
| 47d   | Lock ring                 |                      |                        |              | 2      |         |
| 47c   | Bush                      |                      |                        |              | 1      |         |
| 49c   | Wear ring                 |                      |                        |              | 2      |         |
| 65    | Top f/neck ring           |                      |                        |              | 2      |         |
| -     | Motor                     |                      |                        | 85903740     | 1      | pcs     |
| -     | Kit, bearing cpl.         |                      |                        | 96279802     | 1      |         |

| Pos   | Omschrijving                  | Opmerking tekst | Classificatie Gegevens      | Onderdeelnr. | Aantal | Eenheid |
|-------|-------------------------------|-----------------|-----------------------------|--------------|--------|---------|
| 111   | Ball bearing                  |                 | Designation: 6206.2Z.C3.SYN |              | 1      |         |
| 153   | Angular-contact bearing       |                 |                             |              | 1      |         |
| 157   | O-ring                        |                 | Diameter: 62                |              | 1      |         |
|       |                               |                 | Material type: NBR          |              |        |         |
|       |                               |                 | Thickness: 3                |              |        |         |
| 158   | Waved washer                  |                 |                             |              | 2      |         |
| -     | Kit, end shield               |                 |                             | 96279790     | 1      |         |
| 156a  | End shield                    |                 |                             |              | 1      |         |
| 157   | O-ring                        |                 | Diameter: 62                |              | 1      |         |
|       |                               |                 | Material type: NBR          |              |        |         |
|       |                               |                 | Thickness: 3                |              |        |         |
| 158   | Waved washer                  |                 |                             |              | 1      |         |
| 159a  | Seal ring                     |                 |                             |              | 1      |         |
| -     | Kit, eyebolt                  |                 |                             | 96279825     | 1      |         |
| 189   | Eyebolt                       |                 |                             |              | 1      |         |
| -     | Kit, fan                      |                 |                             | 96279758     | 1      |         |
| 156   | Fan                           |                 |                             |              | 1      |         |
| 159c  | Seal ring                     |                 |                             |              | 1      |         |
| 159a  | Seal ring                     |                 |                             |              | 1      |         |
| -     | Kit, fan cover                |                 |                             | 96279756     | 1      |         |
| 151b  | Label                         |                 |                             |              | 1      |         |
| 151   | Fan cover                     |                 |                             |              | 1      |         |
| 152   | Pan head thread forming screw |                 |                             |              | 4      |         |
| -     | Kit, flange                   |                 |                             | 96279779     | 1      |         |
| 156b  | Flange                        |                 |                             |              | 1      |         |
| 159.c | Seal ring                     |                 |                             |              | 1      |         |
| 186   | Drain plug                    |                 |                             |              | 3      |         |
| -     | Kit, shaft seal               |                 |                             | 96279763     | 1      |         |
| 159c  | Seal ring                     |                 |                             |              | 1      |         |
| 159a  | Seal ring                     |                 |                             |              | 1      |         |
| -     | Kit, staybolts                |                 |                             | 96279793     | 1      |         |
| 181   | Pan head staybolt             |                 |                             |              | 4      |         |
| -     | Kit, terminal board           |                 |                             | 96279769     | 1      |         |
|       | Bracket cpl.                  |                 |                             |              | 1      |         |
| 163   | Hex socket head screw         |                 |                             |              | 1      |         |
| 173a  | Base                          |                 |                             |              | 1      |         |
| 173   | Pan head thread forming screw |                 | Designation: COMBI TORX T25 |              | 1      |         |
| 176   | Slot cheese head screw        |                 | Designation: COMBI TORX T25 |              | 6      |         |
|       |                               |                 | Length (mm): 10             |              |        |         |
|       |                               |                 | Thread: M5                  |              |        |         |
| 176   | Terminal                      |                 |                             |              | 1      |         |
| 176   | Connecting piece              |                 |                             |              | 3      |         |
| 176   | Wire clamp                    |                 |                             |              | 3      |         |
| 176   | Terminal board                |                 |                             |              | 1      |         |
| 177   | Pan head screw                |                 |                             |              | 1      |         |
| -     | Kit, terminal box             |                 |                             | 96279772     | 1      |         |
| 164   | Terminal box cover w/gasket   |                 |                             |              | 1      |         |
| 166   | Pan head thread forming screw |                 |                             |              | 4      |         |
| 1a    | Motor stool                   |                 |                             | 96587723     | 1      | pcs     |
| 2     | Pump head                     |                 |                             | 98593646     | 1      | pcs     |
| - 3   | Upper chamber cpl.            |                 |                             | 98633870     | 1      | pcs     |
| 47c   | Bush                          |                 |                             | 99321194     | 1      |         |
| - 4a  | Intermediate chamber cpl.     |                 |                             | 99262783     | 1      | pcs     |
| 45a   | Neck ring cpl.                |                 |                             | 96547322     | 1      |         |

| Pos   | Omschrijving                | Opmerking tekst         | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|-----------------------------|-------------------------|------------------------|--------------|--------|---------|
| 47    | Bearing                     |                         |                        | 99964632     | 1      |         |
| 47    | Bearing                     |                         |                        | 99928986     | 1      |         |
| - 6   | Base cpl.                   | Rubber type: EPDM       |                        | 96587693     | 1      | pcs     |
| 25    | Plug                        |                         |                        | 96536013     | 4      |         |
| 37    | O-ring                      |                         |                        | 96536149     | 1      |         |
| 38    | O-ring                      |                         |                        | 99198815     | 4      |         |
| 38    | O-ring                      |                         |                        | 99412727     | 4      |         |
| 56    | Base plate                  |                         |                        | 96587691     | 1      |         |
| 7a    | Socket button head screw    |                         |                        | 96549696     | 4      | pcs     |
| 7     | Coupling guard              |                         |                        | 96603300     | 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): 149        |                        | 98983857     | 2      | pcs     |
|       |                             | Thread: M8              |                        |              |        |         |
| 26    | Staybolt                    | Length (mm): 352        |                        | 98976682     | 4      | pcs     |
|       |                             | Thread: M16             |                        |              |        |         |
| 28a   | Hex head screw              | Length (mm): 20         |                        | 99932722     | 4      | pcs     |
|       |                             | Thread: M8              |                        |              |        |         |
| 28    | Hex socket head cap screw   | Designation: DIN 912    |                        | 96536147     | 4      | pcs     |
|       |                             | Length (mm): 50         |                        |              |        |         |
|       |                             | Thread: M10             |                        |              |        |         |
| 32    | Washer                      | Designation: DIN 125 A2 |                        | 99944260     | 4      | pcs     |
|       |                             | Internal diameter: 17   |                        |              |        |         |
|       |                             | Outer diameter: 30      |                        |              |        |         |
|       |                             | Thickness: 3            |                        |              |        |         |
| 36    | Nut                         | Thread: M16             |                        | 99944257     | 4      | pcs     |
| 37    | O-ring                      |                         |                        | 96536149     | 1      | pcs     |
| 38    | O-ring                      |                         |                        | 99198815     | 2      | pcs     |
| 38    | O-ring                      |                         |                        | 99412727     | 2      | pcs     |
| - 44  | Suction interconnector cpl. |                         |                        | 98633886     | 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.               |                         |                        | 98394326     | 2      | pcs     |
| 48    | Nut                         |                         |                        | 99262680     | 1      |         |
| 48    | Nut                         |                         |                        | 99262683     | 1      |         |
| 48    | Nut                         |                         |                        | 96536016     | 1      |         |
| 49b   | Split cone                  |                         |                        | 96536010     | 1      |         |
| - 49  | Impeller                    |                         |                        | 96534933     | 1      |         |
| 49c   | Wear ring                   |                         |                        | 96534930     | 1      |         |
| 51    | Shaft                       |                         |                        | 98506275     | 1      | pcs     |
| 55    | Outer sleeve                | Outer diameter: 197     |                        | 99001103     | 1      | pcs     |
|       |                             | Length (mm): 165,5      |                        |              |        |         |
| 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     |