

## Inventflow: Grundfos A-partner

### Grundfos NB 100-250/274 EUP AF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-100-250-274-eup-af2abqqe>

#### Contact

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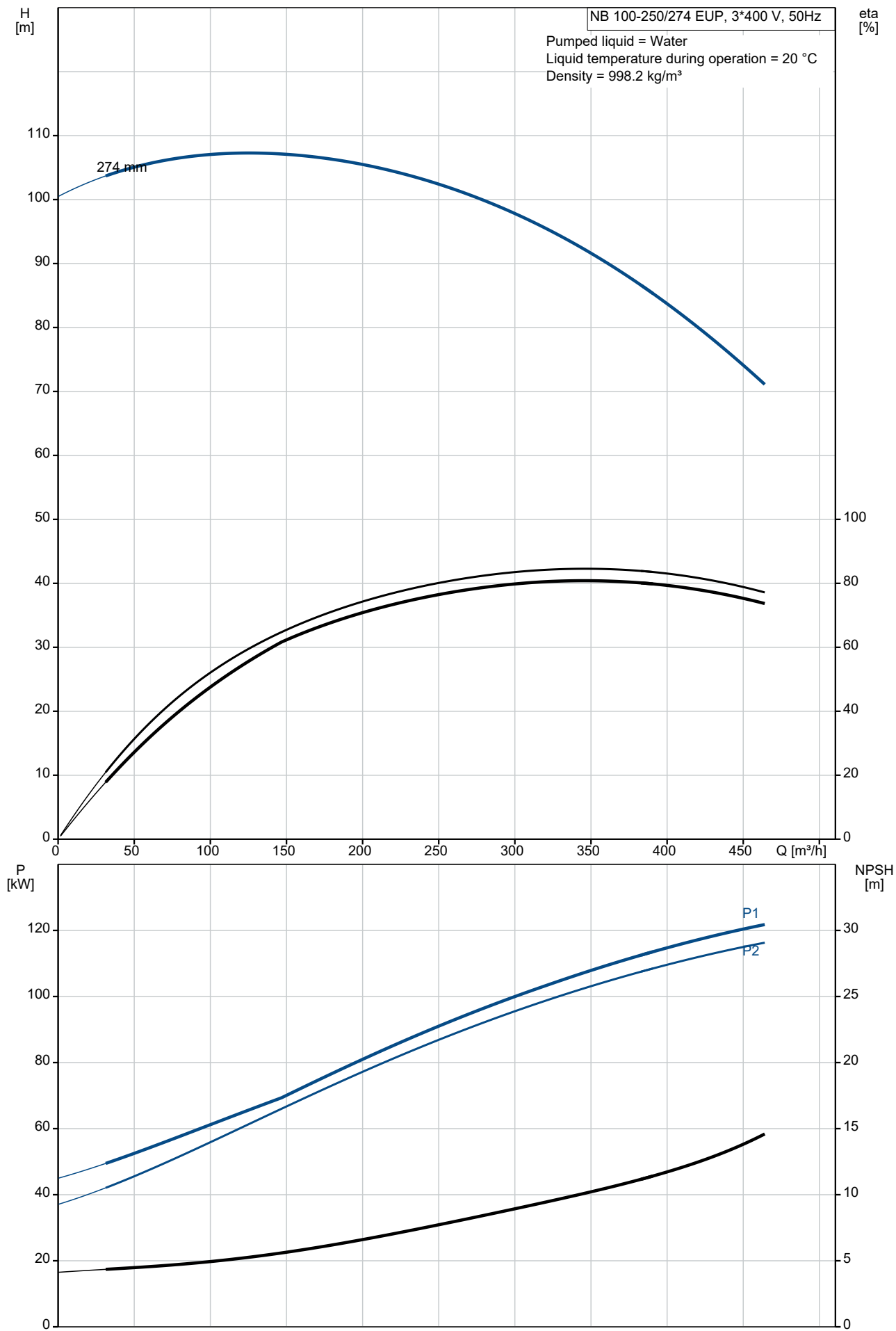
#### Datasheet



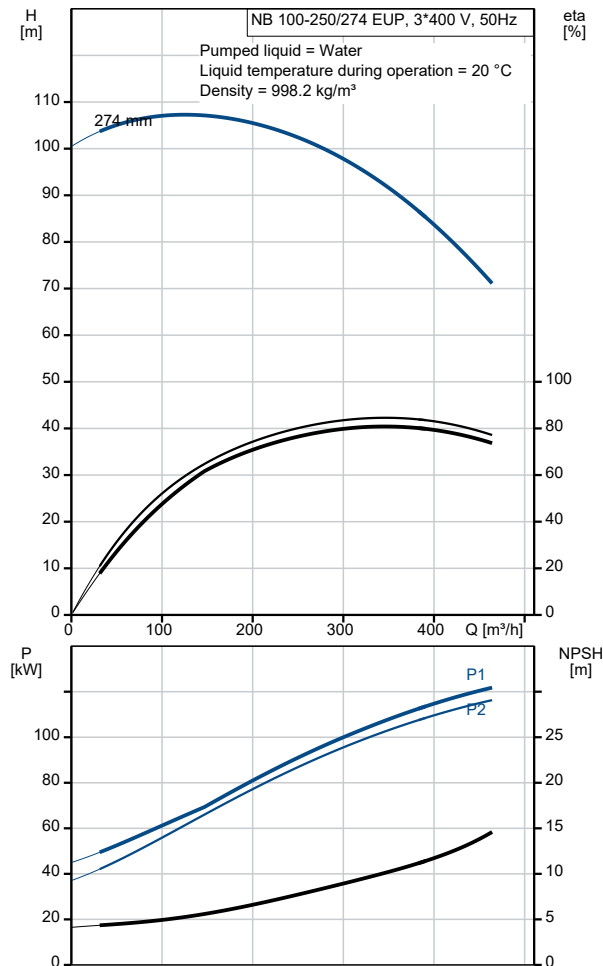
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| 1    | <p><b>NB 100-250/274 EUP AF2ABQQE</b></p>  <p>Product No.: <a href="#">98844553</a></p> <p>Non-self priming, single-stage centrifugal<br/>Flange standard: pump according to EN 1092-2.</p> <p>The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids.</p> <p>The pump is directly coupled with an<br/>Phase: IEC-flanged 3-phase AC motor.</p> <p>The impeller is hydraulically as well as dynamically balanced.</p> <p>The pump has the following characteristics:</p> <ul style="list-style-type: none"> <li>- flange dimensions according to EN 1092-2,</li> </ul> <p>Pump housing: - Cast iron volute pump housing,</p> <ul style="list-style-type: none"> <li>- stainless steel shaft</li> </ul> <p>Impeller: and Cast iron impeller and bronze wear rings,</p> <ul style="list-style-type: none"> <li>- unbalanced mechanical shaft seal according to EN 12756.</li> </ul> <p>Controls:</p> <p>Frequency converter: NONE</p> <p>Pressure sensor: N</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -25 .. 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: 2980 rpm</p> <p>Rated flow: 345.4 m<sup>3</sup>/h</p> <p>Rated head: 91.97 m</p> <p>Actual impeller diameter: 274 mm</p> <p>Nominal impeller diameter: 250</p> <p>Shaft seal arrangement: Single</p> <p>Code for shaft seal: BQQE</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Bearing design: Standard</p> <p>Materials:</p> <p>Pump housing: Cast iron<br/>EN-GJL-250<br/>ASTM class 35</p> <p>Wear ring: Brass</p> <p>Impeller: Cast iron</p> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | EN-GJL-200<br>ASTM class 30<br>Shaft: Stainless steel<br>EN 1.4301<br>AISI 304<br>Internal pump house coating: CED<br><br>Installation:<br>Maximum ambient temperature: 55 °C<br>Maximum operating pressure: 16 bar<br>Pipe connection standard: EN 1092-2<br>Size of inlet connection: DN 125<br>Size of outlet connection: DN 100<br>Pressure rating for connection: PN 16<br>Bearing lubrication: Grease<br>Pump housing with feet: Yes<br>Support block: N<br><br>Electrical data:<br>Motor type: SIEMENS<br>IE Efficiency class: IE3<br>Rated power - P2: 132 kW<br>Mains frequency: 50 Hz<br>Rated voltage: 3 x 380-420D/660-725Y V<br>Rated current: 230-210/133-122 A<br>Starting current: 720-720 %<br>Cos phi - power factor: 0.91<br>Rated speed: 2980 rpm<br>Efficiency: IE3 95,4%<br>Motor efficiency at full load: 95.4-95.4 %<br>Motor efficiency at 3/4 load: 95.6-95.6 %<br>Motor efficiency at 1/2 load: 95.2-95.2 %<br>Number of poles: 2<br>Enclosure class (IEC 34-5): IP55<br>Insulation class (IEC 85): F<br>Motor No: 83U15446<br><br>Others:<br>Minimum efficiency index, MEI ≥: 0.70<br>Net weight: 1080 kg<br>Gross weight: 1160 kg<br>Shipping volume: 1.72 m³<br>Country of origin: HU<br>Custom tariff no.: 84137051 |

98844553 NB 100-250/274 EUP AF2ABQQE 50 Hz

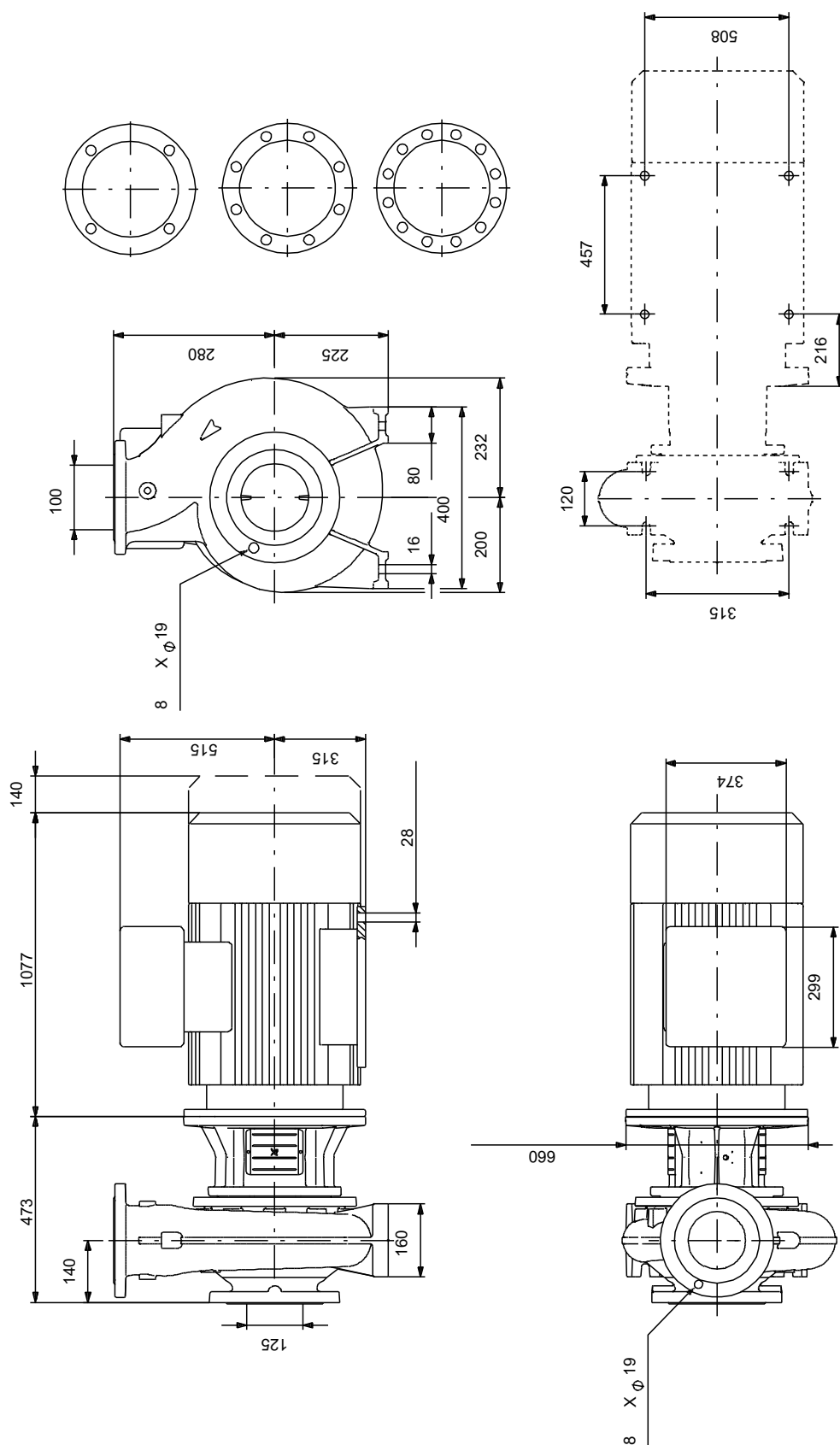


| Description                              | Value                          |
|------------------------------------------|--------------------------------|
| <b>General information:</b>              |                                |
| Product name:                            | NB 100-250/274 EUP<br>AF2ABQQE |
| Product No:                              | 98844553                       |
| EAN number:                              | 5712602273342                  |
| <b>Technical:</b>                        |                                |
| Pump speed on which pump data are based: | 2980 rpm                       |
| Rated flow:                              | 345.4 m³/h                     |
| Rated head:                              | 91.97 m                        |
| Actual impeller diameter:                | 274 mm                         |
| Nominal impeller diameter:               | 250                            |
| Shaft seal arrangement:                  | Single                         |
| Shaft diameter:                          | 32 mm                          |
| Code for shaft seal:                     | BQQE                           |
| Curve tolerance:                         | ISO9906:2012 3B                |
| Pump version:                            | A                              |
| Bearing design:                          | Standard                       |
| <b>Materials:</b>                        |                                |
| Pump housing:                            | Cast iron                      |
| Pump housing:                            | EN-GJL-250                     |
| Pump housing:                            | ASTM class 35                  |
| Wear ring:                               | Brass                          |
| Impeller:                                | Cast iron                      |
| Impeller:                                | EN-GJL-200                     |
| Impeller:                                | ASTM class 30                  |
| Shaft:                                   | Stainless steel                |
| Shaft:                                   | EN 1.4301                      |
| Shaft:                                   | AISI 304                       |
| Internal pump house coating:             | CED                            |
| Material code:                           | A                              |
| Code for rubber:                         | E                              |
| <b>Installation:</b>                     |                                |
| Maximum ambient temperature:             | 55 °C                          |
| Maximum operating pressure:              | 16 bar                         |
| Pipe connection standard:                | EN 1092-2                      |
| Size of inlet connection:                | DN 125                         |
| Size of outlet connection:               | DN 100                         |
| Pressure rating for connection:          | PN 16                          |
| Bearing lubrication:                     | Grease                         |
| Pump housing with feet:                  | Yes                            |
| Support block:                           | N                              |
| Connect code:                            | F2                             |
| <b>Liquid:</b>                           |                                |
| Pumped liquid:                           | Water                          |
| Liquid temperature range:                | -25 .. 120 °C                  |
| Selected liquid temperature:             | 20 °C                          |
| Density:                                 | 998.2 kg/m³                    |
| <b>Electrical data:</b>                  |                                |
| Motor type:                              | SIEMENS                        |
| IE Efficiency class:                     | IE3                            |
| Rated power - P2:                        | 132 kW                         |
| Mains frequency:                         | 50 Hz                          |
| Rated voltage:                           | 3 x 380-420D/660-725Y V        |
| Rated current:                           | 230-210/133-122 A              |
| Starting current:                        | 720-720 %                      |
| Cos phi - power factor:                  | 0.91                           |
| Rated speed:                             | 2980 rpm                       |
| Efficiency:                              | IE3 95,4%                      |
| Motor efficiency at full load:           | 95.4-95.4 %                    |
| Motor efficiency at 3/4 load:            | 95.6-95.6 %                    |
| Motor efficiency at 1/2 load:            | 95.2-95.2 %                    |
| Number of poles:                         | 2                              |
| Enclosure class (IEC 34-5):              | IP55                           |



| Description                      | Value    |
|----------------------------------|----------|
| Insulation class (IEC 85):       | F        |
| Motor protec:                    | PTC      |
| Motor No:                        | 83U15446 |
| Mount. design. acc. IEC 34-7:    | IM B35   |
| <b>Controls:</b>                 |          |
| Frequency converter:             | NONE     |
| Pressure sensor:                 | N        |
| <b>Others:</b>                   |          |
| Minimum efficiency index, MEI ≥: | 0.70     |
| Net weight:                      | 1080 kg  |
| Gross weight:                    | 1160 kg  |
| Shipping volume:                 | 1.72 m³  |
| Country of origin:               | HU       |
| Custom tariff no.:               | 84137051 |

# 98844553 NB 100-250/274 EUP AF2ABQQE 50 Hz



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

**Spare parts NB 100-250/274 EUP, Product No. 98844553**  
**Produced After 2101 (production year and week number)**

| Pos  | Omschrijving                 | Opmerking tekst | Classificatie Gegevens  | Onderdeelnr. | Aantal | Eenheid |
|------|------------------------------|-----------------|-------------------------|--------------|--------|---------|
| -    | Bulk, Nut                    |                 |                         | 92514631     | 1      | pcs     |
| 67   | Nut                          |                 | Thread: M18             |              | 5      |         |
| -    | Bulk, o-ring                 |                 |                         | 92547634     | 1      | pcs     |
| 72.a | O-ring                       |                 | Diameter: 278,99        |              | 5      |         |
|      |                              |                 | Material type: EPDM     |              |        |         |
|      |                              |                 | Thickness: 3,53         |              |        |         |
| -    | Bulk, Plug vent              |                 |                         | 96620482     | 1      | pcs     |
| 18   | Plug                         |                 |                         |              | 5      |         |
| -    | Bulk, Shaft seal             |                 |                         | 92514302     | 1      | pcs     |
| 105  | Shaft seal                   |                 |                         |              | 5      |         |
| -    | Kit, coupling guard          |                 |                         | 96809946     | 1      | pcs     |
| 7a   | Pan head screw               |                 |                         |              | 4      |         |
| 7    | Coupling guard               |                 |                         |              | 2      |         |
| -    | Kit, cover                   |                 |                         | 98990964     | 1      | pcs     |
| 18   | Plug                         |                 |                         |              | 1      |         |
| 36   | Nut                          |                 | Thread: M12             |              | 10     |         |
| 36   | Nut                          |                 | Thread: M10             |              | 8      |         |
| 77   | Cover                        |                 |                         |              | 1      |         |
| -    | Kit, motor stool             |                 |                         | 96935188     | 1      | pcs     |
| 1.a  | Motor stool                  |                 |                         |              | 1      |         |
| 7    | Coupling guard               |                 |                         |              | 2      |         |
| 28   | Hex nut                      |                 | Thread: M16             |              | 8      |         |
| 28   | Hex head screw               |                 | Length (mm): 60         |              | 8      |         |
|      |                              |                 | Thread: M16             |              |        |         |
| 36   | Nut                          |                 | Thread: M10             |              | 8      |         |
| 76a  | Rivet                        |                 |                         |              | 2      |         |
| 77a  | Pan head screw               |                 |                         |              | 4      |         |
| -    | Kit, nut                     |                 |                         | 96939130     | 1      | pcs     |
| 11   | Parallel key                 |                 |                         |              | 1      |         |
| -    | 36                           | Nut             |                         |              | 1      |         |
| 66a  | Spring lock washer           |                 |                         |              | 1      |         |
| 66   | Washer                       |                 |                         |              | 1      |         |
| 67   | Nut                          |                 | Thread: M18             |              | 1      |         |
| -    | Kit, pump housing            |                 |                         | 98776455     | 1      | pcs     |
| 6    | Pump housing                 |                 |                         |              | 1      |         |
| 20   | Plug                         |                 |                         |              | 2      |         |
| 36   | Nut                          |                 | Thread: M12             |              | 10     |         |
| -    | Kit, stub shaft              |                 |                         | 99248519     | 1      | pcs     |
| 11   | Parallel key                 |                 |                         |              | 1      |         |
| 51   | Stub shaft                   |                 |                         |              | 1      |         |
| 66a  | Spring lock washer           |                 |                         |              | 1      |         |
| 66   | Washer                       |                 | Designation: DIN 125 A2 |              | 1      |         |
|      |                              |                 | Internal diameter: 19   |              |        |         |
|      |                              |                 | Outer diameter: 34      |              |        |         |
|      |                              |                 | Thickness: 3            |              |        |         |
| 67   | Nut                          |                 | Thread: M18             |              | 1      |         |
| 89.a | Socket set screw             |                 | Length (mm): 10         |              | 3      |         |
|      |                              |                 | Thread: M8              |              |        |         |
| -    | Spare, O-ring                |                 |                         | 97757673     | 1      | pcs     |
| 72.a | O-ring                       |                 | Diameter: 278,99        |              | 1      |         |
|      |                              |                 | Material type: EPDM     |              |        |         |
|      |                              |                 | Thickness: 3,53         |              |        |         |
| -    | Spare, plug vent             |                 |                         | 98164277     | 1      | pcs     |
| 18   | Plug                         |                 |                         |              | 1      |         |
| -    | Spare, shaft seal            |                 |                         | 98434906     | 1      | pcs     |
| 105  | Shaft seal                   |                 |                         |              | 1      |         |
| -    | Spare, spacer for shaft seal |                 |                         | 96591277     | 1      | pcs     |
| 105b | Spacer                       |                 |                         |              | 1      |         |
| -    | Spare, wear ring             |                 |                         | 99208807     | 1      | pcs     |

| Pos  | Omschrijving            | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------|-----------------|------------------------|--------------|--------|---------|
| 45   | Wear ring               |                 |                        |              | 1      |         |
| -    | Motor                   |                 |                        |              | 1      | pcs     |
| 156  | Kit, fan                |                 |                        | 98339870     | 1      |         |
| 151  | Kit, fan cover          |                 |                        | 98768548     | 1      |         |
|      | Kit, lubrication nipple |                 |                        | 98360053     | 1      |         |
| 176  | Kit, terminal board     |                 |                        | 98359966     | 1      |         |
| 164a | Kit, terminal box       |                 |                        | 98360006     | 1      |         |
| 49   | Impeller                |                 |                        | 99072825     | 1      | pcs     |