

## Inventflow: Grundfos A-partner

### Grundfos NB 125-315/277 ASF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-125-315-277-asf2abqqe>

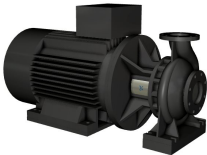
#### Contact

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

+31 (0) 546 45 80 72

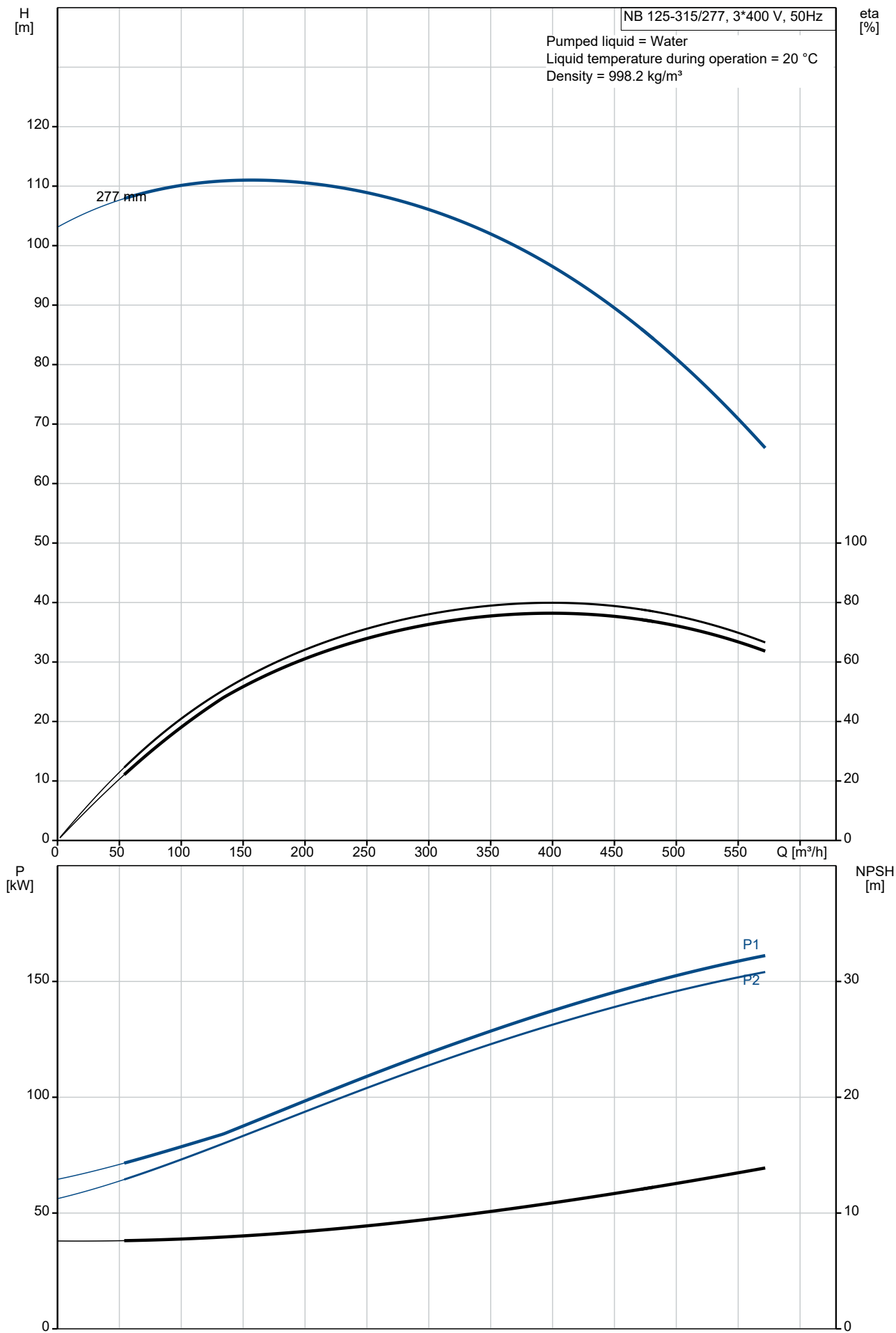
#### Datasheet



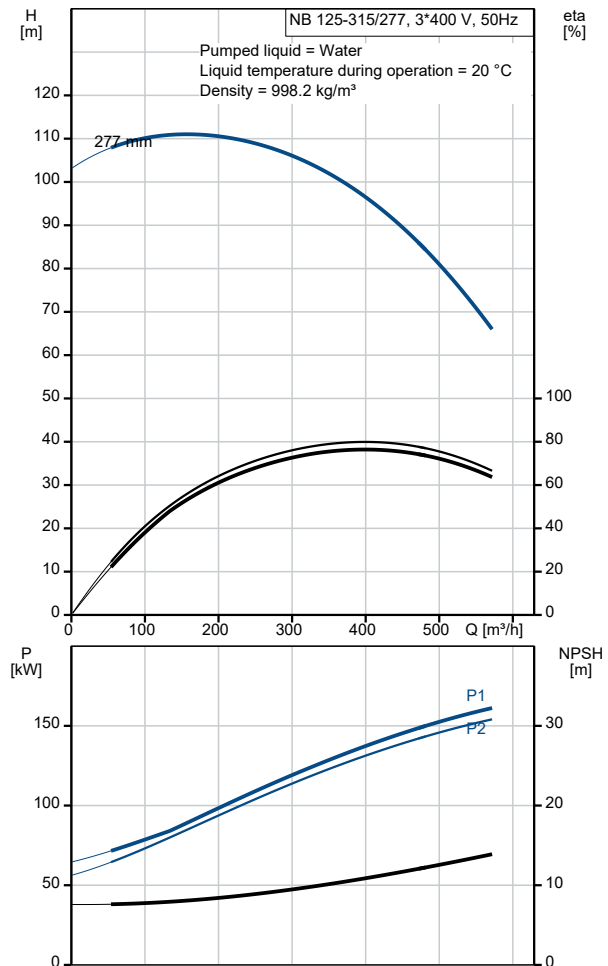
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>NB 125-315/277 ASF2ABQQE</b></p>  <p>Product No.: <a href="#">98975747</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: 408 m<sup>3</sup>/h</p> <p>Rated head: 95.03 m</p> <p>Actual impeller diameter: 277 mm</p> <p>Nominal impeller diameter: 315</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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>EN-GJL-200</p> <p>ASTM class 30</p> <p>Shaft: Stainless steel</p> <p>EN 1.4301</p> <p>AISI 304</p> <p>Internal pump house coating: CED</p> <p>Installation:</p> <p>Maximum ambient temperature: 55 °C</p> <p>Maximum operating pressure: 16 bar</p> <p>Pipe connection standard: EN 1092-2</p> <p>Size of inlet connection: DN 150</p> <p>Size of outlet connection: DN 125</p> <p>Pressure rating for connection: PN 16</p> <p>Bearing lubrication: Grease</p> <p>Pump housing with feet: Yes</p> <p>Support block: Y</p> <p>Electrical data:</p> <p>Motor type: SIEMENS</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 160 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-420D/660-725Y V</p> <p>Rated current: 280-255/161-147 A</p> <p>Starting current: 780-780 %</p> <p>Cos phi - power factor: 0.92</p> <p>Rated speed: 2982 rpm</p> <p>Efficiency: IE3 95,6%</p> <p>Motor efficiency at full load: 95.6-95.6 %</p> <p>Motor efficiency at 3/4 load: 95.6-95.6 %</p> <p>Motor efficiency at 1/2 load: 95.1-95.1 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 83U15448</p> <p>Others:</p> <p>Minimum efficiency index, MEI ≥: 0.69</p> <p>Net weight: 1230 kg</p> <p>Gross weight: 1310 kg</p> <p>Shipping volume: 1.72 m³</p> <p>Country of origin: HU</p> <p>Custom tariff no.: 84137051</p> |

98975747 NB 125-315/277 ASF2ABQQE 50 Hz

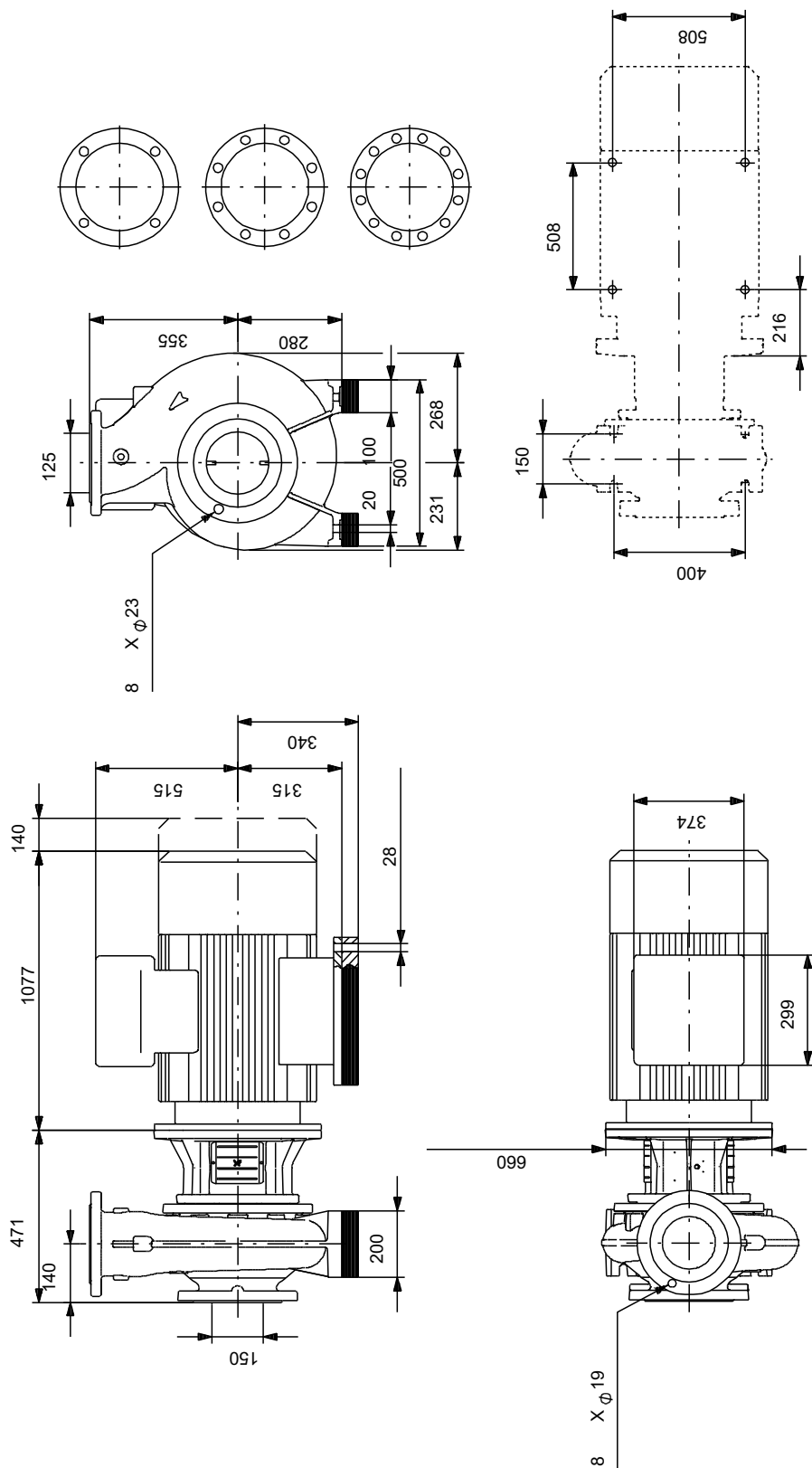


| Description                              | Value                       |
|------------------------------------------|-----------------------------|
| <b>General information:</b>              |                             |
| Product name:                            | NB 125-315/277<br>ASF2ABQQE |
| Product No:                              | 98975747                    |
| EAN number:                              | 5712604548646               |
| <b>Technical:</b>                        |                             |
| Pump speed on which pump data are based: | 2980 rpm                    |
| Rated flow:                              | 408 m³/h                    |
| Rated head:                              | 95.03 m                     |
| Actual impeller diameter:                | 277 mm                      |
| Nominal impeller diameter:               | 315                         |
| Shaft seal arrangement:                  | Single                      |
| Shaft diameter:                          | 42 mm                       |
| Code for shaft seal:                     | BQQE                        |
| Curve tolerance:                         | ISO9906:2012 3B             |
| Pump version:                            | AS                          |
| 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 150                      |
| Size of outlet connection:               | DN 125                      |
| Pressure rating for connection:          | PN 16                       |
| Bearing lubrication:                     | Grease                      |
| Pump housing with feet:                  | Yes                         |
| Support block:                           | Y                           |
| 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:                        | 160 kW                      |
| Mains frequency:                         | 50 Hz                       |
| Rated voltage:                           | 3 x 380-420D/660-725Y V     |
| Rated current:                           | 280-255/161-147 A           |
| Starting current:                        | 780-780 %                   |
| Cos phi - power factor:                  | 0.92                        |
| Rated speed:                             | 2982 rpm                    |
| Efficiency:                              | IE3 95,6%                   |
| Motor efficiency at full load:           | 95.6-95.6 %                 |
| Motor efficiency at 3/4 load:            | 95.6-95.6 %                 |
| Motor efficiency at 1/2 load:            | 95.1-95.1 %                 |
| Number of poles:                         | 2                           |
| Enclosure class (IEC 34-5):              | IP55                        |



| Description                      | Value    |
|----------------------------------|----------|
| Insulation class (IEC 85):       | F        |
| Motor protec:                    | PTC      |
| Motor No:                        | 83U15448 |
| Mount. design. acc. IEC 34-7:    | IM B35   |
| <b>Controls:</b>                 |          |
| Frequency converter:             | NONE     |
| Pressure sensor:                 | N        |
| <b>Others:</b>                   |          |
| Minimum efficiency index, MEI ≥: | 0.69     |
| Net weight:                      | 1230 kg  |
| Gross weight:                    | 1310 kg  |
| Shipping volume:                 | 1.72 m³  |
| Country of origin:               | HU       |
| Custom tariff no.:               | 84137051 |

# 98975747 NB 125-315/277 ASF2ABQQE 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 125-315/277, Product No. 98975747**  
**Produced After 2101 (production year and week number)**

| Pos  | Omschrijving            | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------|-----------------|------------------------|--------------|--------|---------|
| -    | Bulk, Nut               |                 |                        | 92514632     | 1      | pcs     |
| 67   | Nut                     |                 | Thread: M24            |              | 5      |         |
| -    | Bulk, o-ring            |                 |                        | 92547632     | 1      | pcs     |
| 72a  | O-ring                  |                 | Diameter: 329,79       |              | 5      |         |
|      |                         |                 | Material type: EPDM    |              |        |         |
|      |                         |                 | Thickness: 3,53        |              |        |         |
| -    | Bulk, Plug vent         |                 |                        | 96620482     | 1      | pcs     |
| 18   | Plug                    |                 |                        |              | 5      |         |
| -    | Bulk, Shaft seal        |                 |                        | 92514334     | 1      | pcs     |
| 105  | Shaft seal              |                 |                        |              | 5      |         |
| -    | Kit, coupling guard     |                 |                        | 96809946     | 1      | pcs     |
| 7a   | Pan head screw          |                 |                        |              | 4      |         |
| 7    | Coupling guard          |                 |                        |              | 2      |         |
| -    | Kit, cover              |                 |                        | 98990973     | 1      | pcs     |
| 18   | Plug                    |                 |                        |              | 1      |         |
| 36   | Nut                     |                 | Thread: M12            |              | 10     |         |
| 77   | Cover                   |                 |                        |              | 1      |         |
| -    | Kit, motor stool        |                 |                        | 96935199     | 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: M12            |              | 10     |         |
| 76a  | Rivet                   |                 |                        |              | 2      |         |
| 77a  | Pan head screw          |                 |                        |              | 4      |         |
| -    | Kit, nut                |                 |                        | 96939132     | 1      | pcs     |
| 11   | Key                     |                 |                        |              | 1      |         |
| -    | 36                      | Nut             |                        |              | 1      |         |
| 66a  | Spring lock washer      |                 |                        |              | 1      |         |
| 66   | Washer                  |                 |                        |              | 1      |         |
| 67   | Nut                     |                 | Thread: M24            |              | 1      |         |
| -    | Kit, pump housing       |                 |                        | 96930837     | 1      | pcs     |
| 6    | Pump housing            |                 |                        |              | 1      |         |
| 20   | Plug                    |                 |                        |              | 2      |         |
| 36   | Nut                     |                 | Thread: M12            |              | 14     |         |
| -    | Kit, stub shaft         |                 |                        | 99248525     | 1      | pcs     |
| 11   | Key                     |                 |                        |              | 1      |         |
| 51   | Stub shaft              |                 |                        |              | 1      |         |
| 66a  | Spring lock washer      |                 |                        |              | 1      |         |
| 66   | Washer                  |                 |                        |              | 1      |         |
| 67   | Nut                     |                 | Thread: M25            |              | 1      |         |
| 89.a | Socket set screw        |                 | Length (mm): 10        |              | 3      |         |
|      |                         |                 | Thread: M8             |              |        |         |
| +    | Spare, O-ring           |                 |                        | 97757675     | 1      | pcs     |
| -    | Spare, plug vent        |                 |                        | 98164277     | 1      | pcs     |
| 18   | Plug                    |                 |                        |              | 1      |         |
| -    | Spare, shaft seal       |                 |                        | 98434909     | 1      | pcs     |
| 105  | Shaft seal              |                 |                        |              | 1      |         |
| -    | Spare, wear ring        |                 |                        | 99208792     | 1      | pcs     |
| 45   | Wear ring               |                 |                        |              | 1      |         |
| -    | Motor                   |                 |                        |              | 1      | pcs     |
| 156  | Kit, fan                |                 |                        | 98339895     | 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                |                 |                        | 98517868     | 1      | pcs     |