

## Inventflow: Grundfos A-partner

### Grundfos NB 150-315.2/275 AF1ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-150-315-2-275-af1abqqe>

#### Contact

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

+31 (0) 546 45 80 72

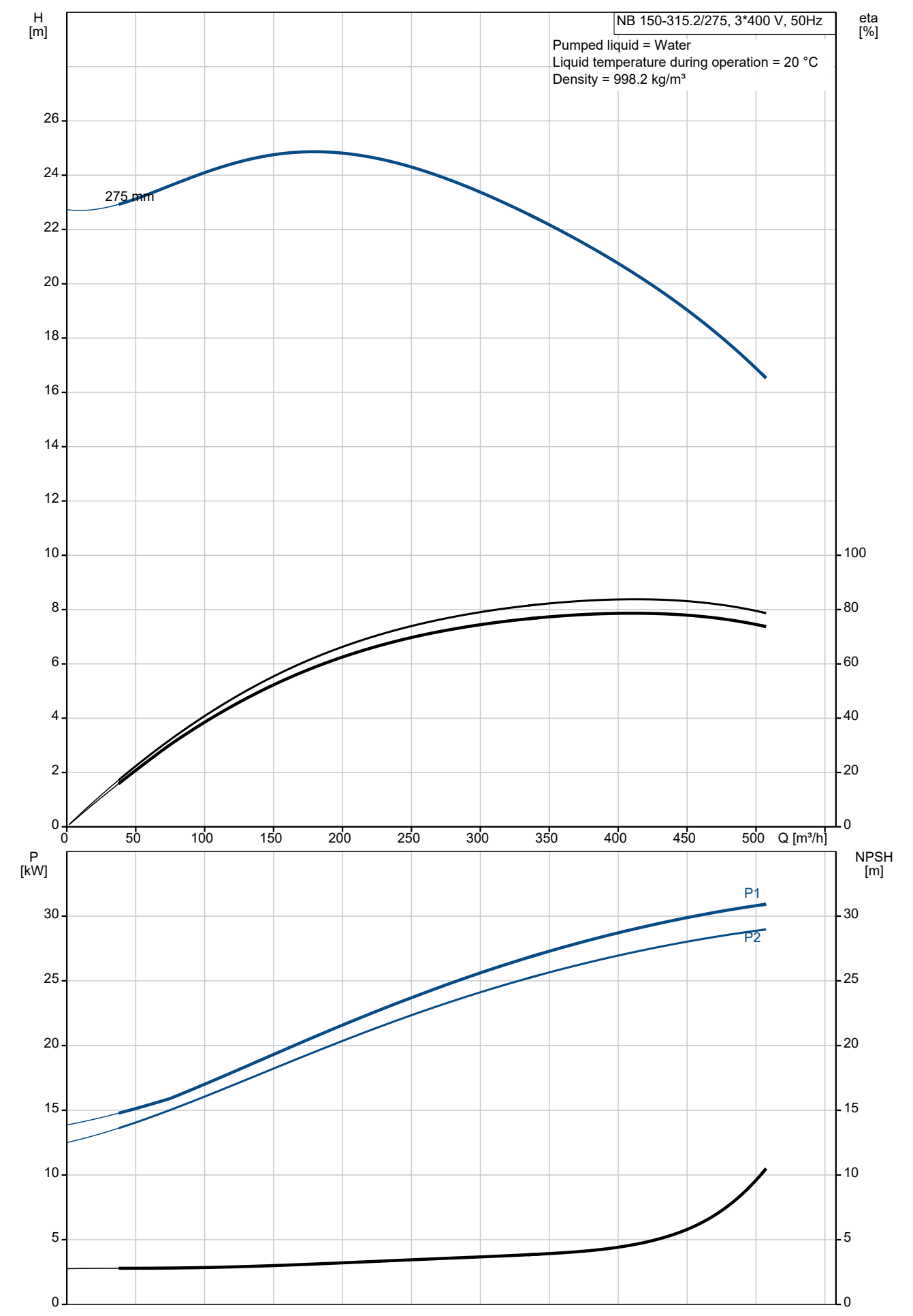
#### Datasheet



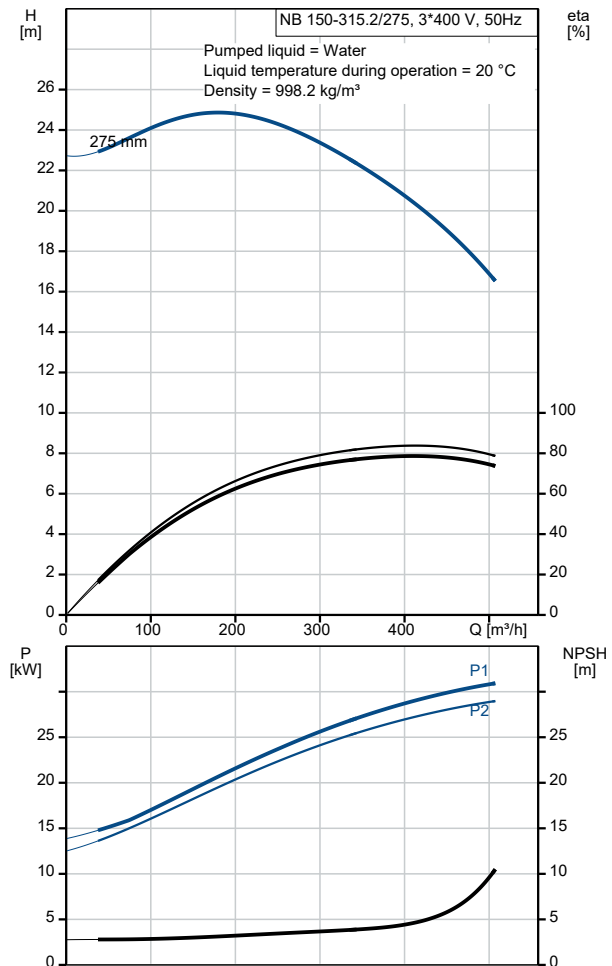
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>NB 150-315.2/275 AF1ABQQE</b></p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: <a href="#">99001658</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/m³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 1470 rpm</p> <p>Rated flow: 405.5 m³/h</p> <p>Rated head: 20.45 m</p> <p>Actual impeller diameter: 275 mm</p> <p>Nominal impeller diameter: 315.2</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: 10 bar<br>Pipe connection standard: EN 1092-2<br>Size of inlet connection: DN 200<br>Size of outlet connection: DN 150<br>Pressure rating for connection: PN 10<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: 30 kW<br>Mains frequency: 50 Hz<br>Rated voltage: 3 x 380-420D/660-725Y V<br>Rated current: 57,5-54,0/33,5-31,5 A<br>Starting current: 690-690 %<br>Cos phi - power factor: 0.8<br>Rated speed: 1470 rpm<br>Efficiency: IE3 93,6%<br>Motor efficiency at full load: 93.6-93.6 %<br>Motor efficiency at 3/4 load: 94.3-94.3 %<br>Motor efficiency at 1/2 load: 94.4-94.4 %<br>Number of poles: 4<br>Enclosure class (IEC 34-5): IP55<br>Insulation class (IEC 85): F<br>Motor No: 99032198<br><br>Others:<br>Minimum efficiency index, MEI ≥: 0.68<br>Net weight: 447 kg<br>Gross weight: 480 kg<br>Shipping volume: 0.951 m³<br>Country of origin: HU<br>Custom tariff no.: 84137051 |

99001658 NB 150-315.2/275 AF1ABQQE 50 Hz

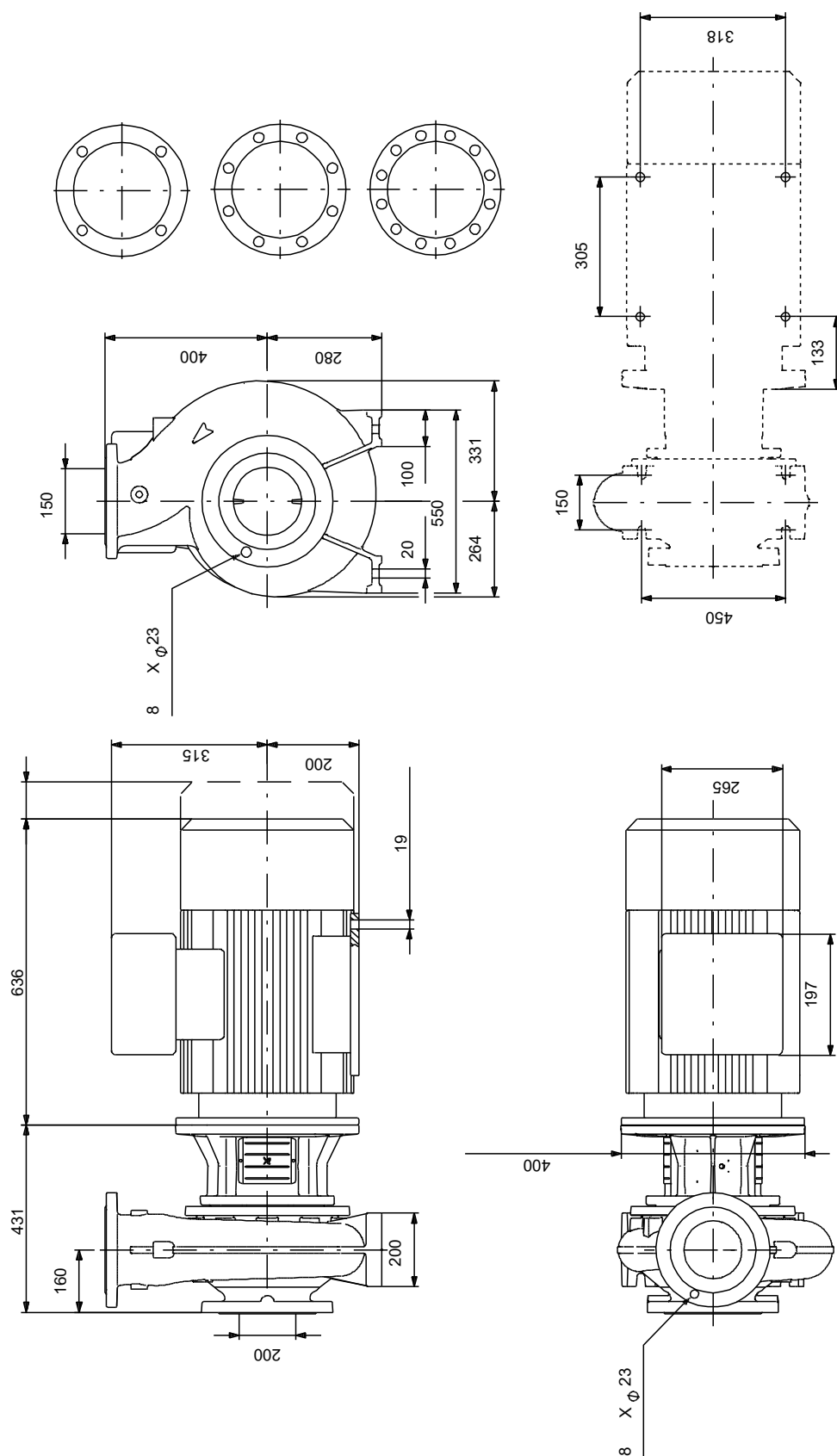


| Description                              | Value                        |
|------------------------------------------|------------------------------|
| <b>General information:</b>              |                              |
| Product name:                            | NB 150-315.2/275<br>AF1ABQQE |
| Product No:                              | 99001658                     |
| EAN number:                              | 5712604992913                |
| <b>Technical:</b>                        |                              |
| Pump speed on which pump data are based: | 1470 rpm                     |
| Rated flow:                              | 405.5 m³/h                   |
| Rated head:                              | 20.45 m                      |
| Actual impeller diameter:                | 275 mm                       |
| Nominal impeller diameter:               | 315.2                        |
| Shaft seal arrangement:                  | Single                       |
| Shaft diameter:                          | 42 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:              | 10 bar                       |
| Pipe connection standard:                | EN 1092-2                    |
| Size of inlet connection:                | DN 200                       |
| Size of outlet connection:               | DN 150                       |
| Pressure rating for connection:          | PN 10                        |
| Bearing lubrication:                     | Grease                       |
| Pump housing with feet:                  | Yes                          |
| Support block:                           | N                            |
| Connect code:                            | F1                           |
| <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:                        | 30 kW                        |
| Mains frequency:                         | 50 Hz                        |
| Rated voltage:                           | 3 x 380-420D/660-725Y V      |
| Rated current:                           | 57,5-54,0/33,5-31,5 A        |
| Starting current:                        | 690-690 %                    |
| Cos phi - power factor:                  | 0.8                          |
| Rated speed:                             | 1470 rpm                     |
| Efficiency:                              | IE3 93,6%                    |
| Motor efficiency at full load:           | 93.6-93.6 %                  |
| Motor efficiency at 3/4 load:            | 94.3-94.3 %                  |
| Motor efficiency at 1/2 load:            | 94.4-94.4 %                  |
| Number of poles:                         | 4                            |
| Enclosure class (IEC 34-5):              | IP55                         |



| Description                      | Value    |
|----------------------------------|----------|
| Insulation class (IEC 85):       | F        |
| Motor protec:                    | PTC      |
| Motor No:                        | 99032198 |
| Mount. design. acc. IEC 34-7:    | IM B35   |
| <b>Controls:</b>                 |          |
| Frequency converter:             | NONE     |
| Pressure sensor:                 | N        |
| <b>Others:</b>                   |          |
| Minimum efficiency index, MEI ≥: | 0.68     |
| Net weight:                      | 447 kg   |
| Gross weight:                    | 480 kg   |
| Shipping volume:                 | 0.951 m³ |
| Country of origin:               | HU       |
| Custom tariff no.:               | 84137051 |

# 99001658 NB 150-315.2/275 AF1ABQQE 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 150-315.2/275, Product No. 99001658**  
**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 |                 |                        | 96809945     | 1      | pcs     |
| 7a  | Pan head screw      |                 |                        |              | 4      |         |
| 7   | Coupling guard      |                 |                        |              | 2      |         |
| -   | Kit, cover          |                 |                        | 98990978     | 1      | pcs     |
| 18  | Plug                |                 |                        |              | 1      |         |
| 36  | Hex nut             |                 | Thread: M16            |              | 14     |         |
| 36  | Nut                 |                 | Thread: M12            |              | 10     |         |
| 77  | Cover               |                 |                        |              | 1      |         |
| -   | Kit, motor stool    |                 |                        | 96935194     | 1      | pcs     |
| 1.a | Motor stool         |                 |                        |              | 1      |         |
| 7   | Coupling guard      |                 |                        |              | 2      |         |
| 28  | Hex head screw      |                 |                        |              | 4      |         |
| 36  | Hex nut             |                 | Thread: M16            |              | 8      |         |
| 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   |                 |                        | 96930857     | 1      | pcs     |
| 6   | Pump housing        |                 |                        |              | 1      |         |
| 20  | Plug                |                 |                        |              | 2      |         |
| 36  | Hex nut             |                 | Thread: M16            |              | 14     |         |
| -   | Kit, stub shaft     |                 |                        | 99248522     | 1      | pcs     |
| 9   | Socket set screw    |                 | Length (mm): 10        |              | 2      |         |
|     |                     |                 | Thread: M8             |              |        |         |
| 11  | Key                 |                 |                        |              | 1      |         |
| 51  | Stub shaft          |                 |                        |              | 1      |         |
| 66a | Spring lock washer  |                 |                        |              | 1      |         |
| 66  | Washer              |                 |                        |              | 1      |         |
| 67  | Nut                 |                 | Thread: M25            |              | 1      |         |
| +   | 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    |                 |                        | 99208743     | 1      | pcs     |
| 45  | Wear ring           |                 |                        |              | 1      |         |
|     | Motor               |                 |                        |              | 1      | pcs     |
| 49  | Impeller            |                 |                        | 99974712     | 1      | pcs     |