

## Inventflow: Grundfos A-partner

### Grundfos NB 50-315/285 AF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-50-315-285-af2abqqe>

#### Contact

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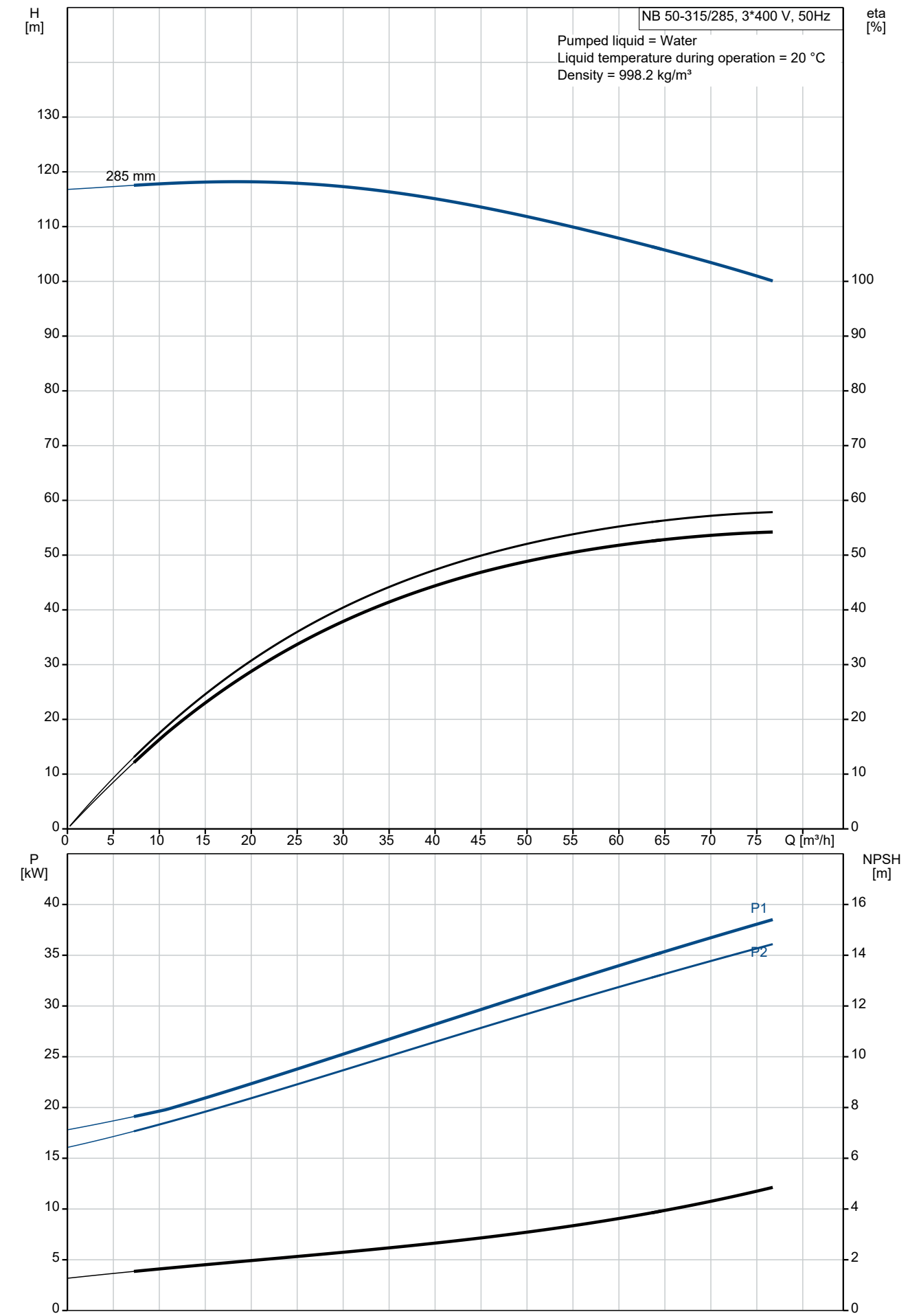
#### Datasheet



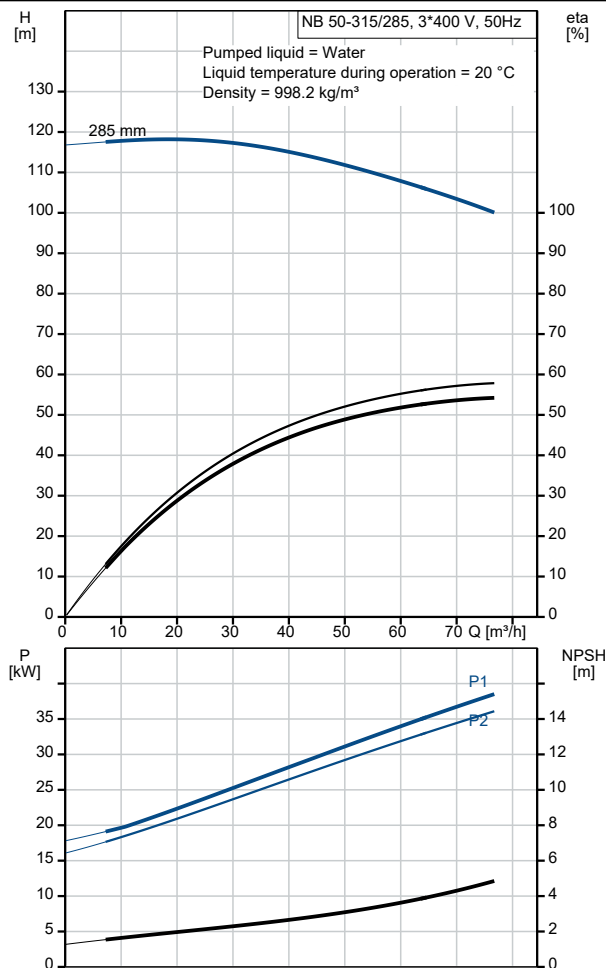
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>NB 50-315/285 AF2ABQQE</b></p>  <p>Product No.: <a href="#">98654493</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: 2955 rpm</p> <p>Rated flow: 76.73 m<sup>3</sup>/h</p> <p>Rated head: 99.99 m</p> <p>Actual impeller diameter: 285 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | 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 65<br>Size of outlet connection: DN 50<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: 37 kW<br>Mains frequency: 50 Hz<br>Rated voltage: 3 x 380-420D/660-725Y V<br>Rated current: 68,0-63,0/39,0-36,0 A<br>Starting current: 670-670 %<br>Cos phi - power factor: 0.88<br>Rated speed: 2955 rpm<br>Efficiency: IE3 93,7%<br>Motor efficiency at full load: 93.7-93.7 %<br>Motor efficiency at 3/4 load: 93.9-93.9 %<br>Motor efficiency at 1/2 load: 93.5-93.5 %<br>Number of poles: 2<br>Enclosure class (IEC 34-5): IP55<br>Insulation class (IEC 85): F<br>Motor No: 99032147<br><br>Others:<br>Minimum efficiency index, MEI ≥: 0.56<br>Net weight: 366 kg<br>Gross weight: 391 kg<br>Shipping volume: 0.707 m³<br>Country of origin: HU<br>Custom tariff no.: 84137051 |

98654493 NB 50-315/285 AF2ABQQE 50 Hz

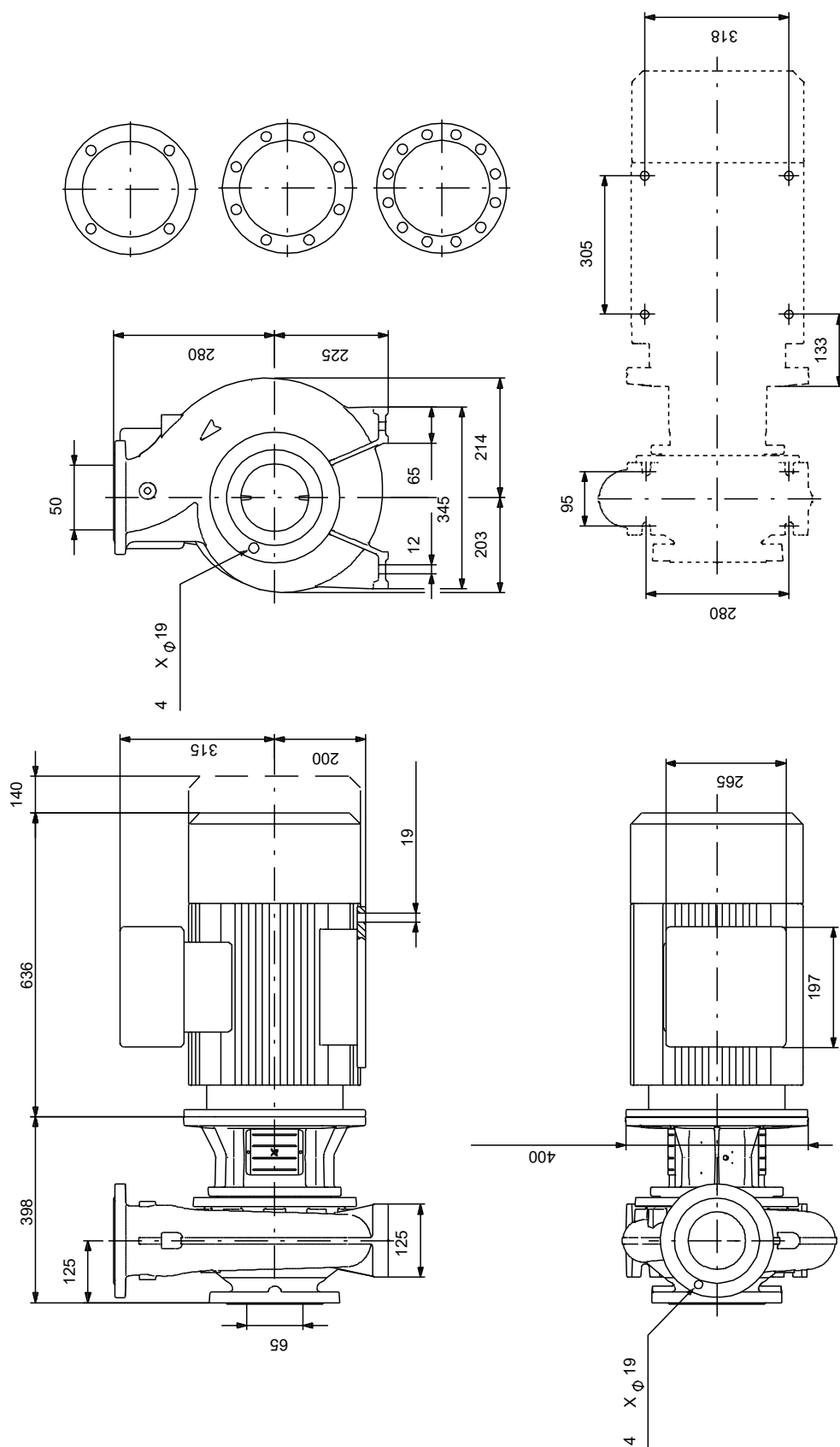


| Description                              | Value                     |
|------------------------------------------|---------------------------|
| <b>General information:</b>              |                           |
| Product name:                            | NB 50-315/285<br>AF2ABQQE |
| Product No:                              | 98654493                  |
| EAN number:                              | 5711498992092             |
| <b>Technical:</b>                        |                           |
| Pump speed on which pump data are based: | 2955 rpm                  |
| Rated flow:                              | 76.73 m³/h                |
| Rated head:                              | 99.99 m                   |
| Actual impeller diameter:                | 285 mm                    |
| Nominal impeller diameter:               | 315                       |
| 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 65                     |
| Size of outlet connection:               | DN 50                     |
| 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:                        | 37 kW                     |
| Mains frequency:                         | 50 Hz                     |
| Rated voltage:                           | 3 x 380-420D/660-725Y V   |
| Rated current:                           | 68,0-63,0/39,0-36,0 A     |
| Starting current:                        | 670-670 %                 |
| Cos phi - power factor:                  | 0.88                      |
| Rated speed:                             | 2955 rpm                  |
| Efficiency:                              | IE3 93,7%                 |
| Motor efficiency at full load:           | 93.7-93.7 %               |
| Motor efficiency at 3/4 load:            | 93.9-93.9 %               |
| Motor efficiency at 1/2 load:            | 93.5-93.5 %               |
| Number of poles:                         | 2                         |
| Enclosure class (IEC 34-5):              | IP55                      |



| Description                      | Value                |
|----------------------------------|----------------------|
| Insulation class (IEC 85):       | F                    |
| Motor protec:                    | PTC                  |
| Motor No:                        | 99032147             |
| Mount. design. acc. IEC 34-7:    | IM B35               |
| <b>Controls:</b>                 |                      |
| Frequency converter:             | NONE                 |
| Pressure sensor:                 | N                    |
| <b>Others:</b>                   |                      |
| Minimum efficiency index, MEI ≥: | 0.56                 |
| Net weight:                      | 366 kg               |
| Gross weight:                    | 391 kg               |
| Shipping volume:                 | 0.707 m <sup>3</sup> |
| Country of origin:               | HU                   |
| Custom tariff no.:               | 84137051             |

# 98654493 NB 50-315/285 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 50-315/285, Product No. 98654493**  
**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                 |                 |                        | 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             |                 |                        | 92514302     | 1      | pcs     |
| 105  | Shaft seal                   |                 |                        |              | 5      |         |
| -    | Kit, coupling guard          |                 |                        | 96809945     | 1      | pcs     |
| 7a   | Pan head screw               |                 |                        |              | 4      |         |
| 7    | Coupling guard               |                 |                        |              | 2      |         |
| -    | Kit, cover                   |                 |                        | 98990970     | 1      | pcs     |
| 18   | Plug                         |                 |                        |              | 1      |         |
| 36   | Nut                          |                 | Thread: M12            |              | 14     |         |
| 36   | Nut                          |                 | Thread: M10            |              | 8      |         |
| 77   | Cover                        |                 |                        |              | 1      |         |
| -    | Kit, motor stool             |                 |                        | 95131786     | 1      | pcs     |
| 1a   | Motor stool                  |                 |                        |              | 1      |         |
| 7    | Coupling guard               |                 |                        |              | 2      |         |
| 28   | Hex head screw               |                 |                        |              | 4      |         |
| 36   | Hex nut                      |                 | Thread: M16            |              | 4      |         |
| 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            |                 |                        | 96930829     | 1      | pcs     |
| 6    | Pump housing                 |                 |                        |              | 1      |         |
| 20   | Plug                         |                 |                        |              | 2      |         |
| 36   | Nut                          |                 | Thread: M12            |              | 14     |         |
| -    | Kit, stub shaft              |                 |                        | 96039361     | 1      | pcs     |
| 9    | Socket set screw             |                 | Length (mm): 10        |              | 2      |         |
|      |                              |                 | Thread: M8             |              |        |         |
| 11   | Parallel key                 |                 |                        |              | 1      |         |
| 51   | Stub shaft                   |                 |                        |              | 1      |         |
| 66a  | Spring lock washer           |                 |                        |              | 1      |         |
| 66   | Washer                       |                 |                        |              | 1      |         |
| 67   | Nut                          |                 | Thread: M18            |              | 1      |         |
| +    | Spare, O-ring                |                 |                        | 97757675     | 1      | pcs     |
| -    | 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             |                 |                        | 99208818     | 1      | pcs     |
| 45   | Wear ring                    |                 |                        |              | 1      |         |
|      | Motor                        |                 |                        |              | 1      | pcs     |