

## Inventflow: Grundfos A-partner

### Grundfos NB 150-250/252 EUP AF1ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-150-250-252-eup-af1abqqe>

#### Contact

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

+31 (0) 546 45 80 72

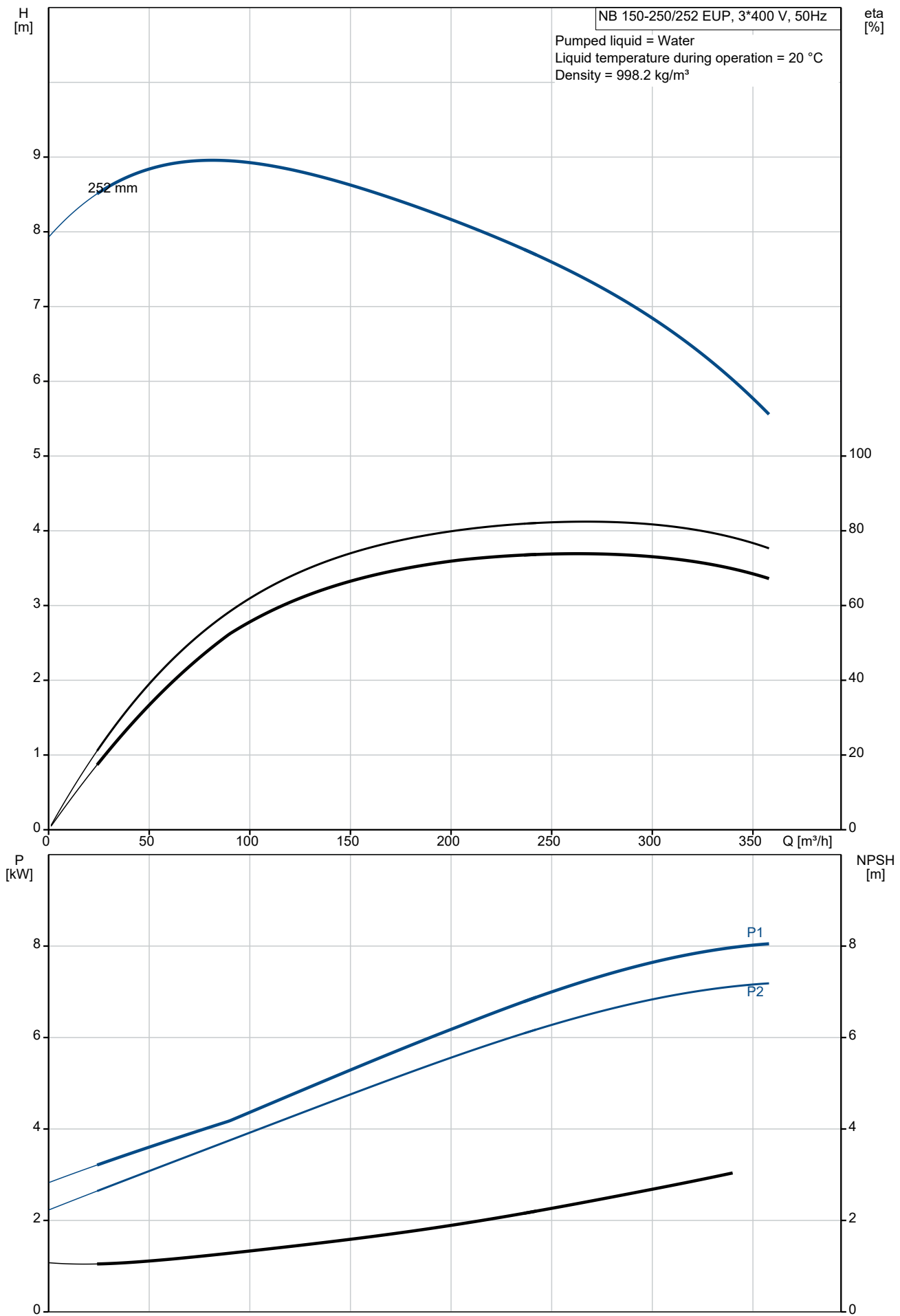
#### Datasheet



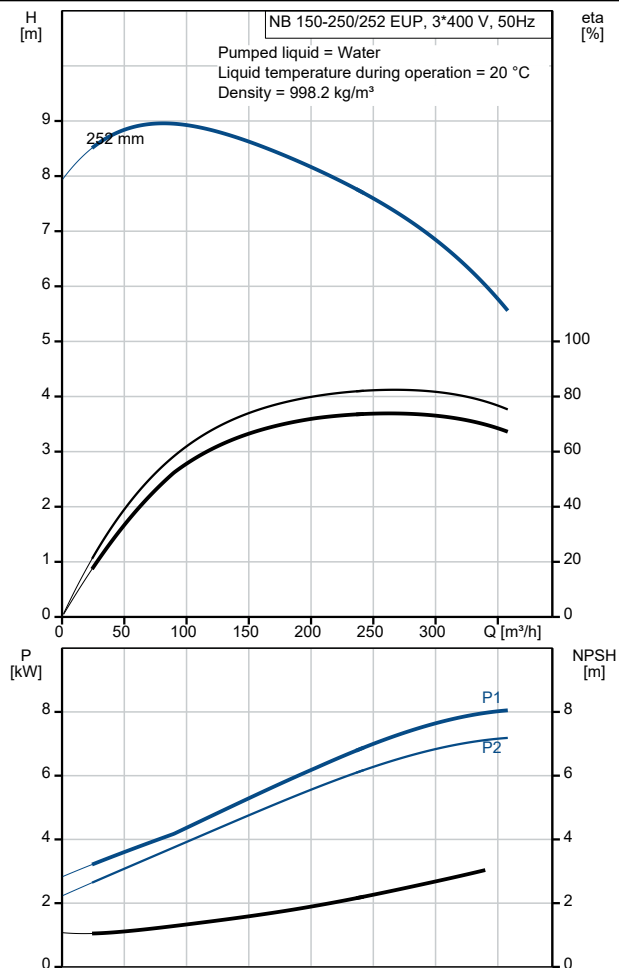
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>NB 150-250/252 EUP AF1ABQQE</b></p>  <p>Product No.: <a href="#">98975687</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: 975 rpm</p> <p>Rated flow: 267.9 m<sup>3</sup>/h</p> <p>Rated head: 7.274 m</p> <p>Actual impeller diameter: 252 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 3B2</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<br/>ASTM class 30<br/>Shaft: Stainless steel<br/>EN 1.4301<br/>AISI 304<br/>Internal pump house coating: CED</p> <p>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</p> <p>Electrical data:<br/>Motor type: SIEMENS<br/>IE Efficiency class: IE3<br/>Rated power - P2: 7.5 kW<br/>Mains frequency: 50 Hz<br/>Rated voltage: 3 x 380-420D/660-725Y V<br/>Rated current: 16,0-14,6/9,20-8,40 A<br/>Starting current: 630-630 %<br/>Cos phi - power factor: 0.80<br/>Rated speed: 975 rpm<br/>Efficiency: IE3 89,1%<br/>Motor efficiency at full load: 89.1-89.1 %<br/>Motor efficiency at 3/4 load: 90.0-90.0 %<br/>Motor efficiency at 1/2 load: 89.8-89.8 %<br/>Number of poles: 6<br/>Enclosure class (IEC 34-5): IP55<br/>Insulation class (IEC 85): F<br/>Motor No: 83W15422</p> <p>Others:<br/>Minimum efficiency index, MEI ≥: 0.68<br/>Net weight: 262 kg<br/>Gross weight: 295 kg<br/>Shipping volume: 0.951 m³<br/>Country of origin: HU<br/>Custom tariff no.: 84137051</p> |

98975687 NB 150-250/252 EUP AF1ABQQE 50 Hz

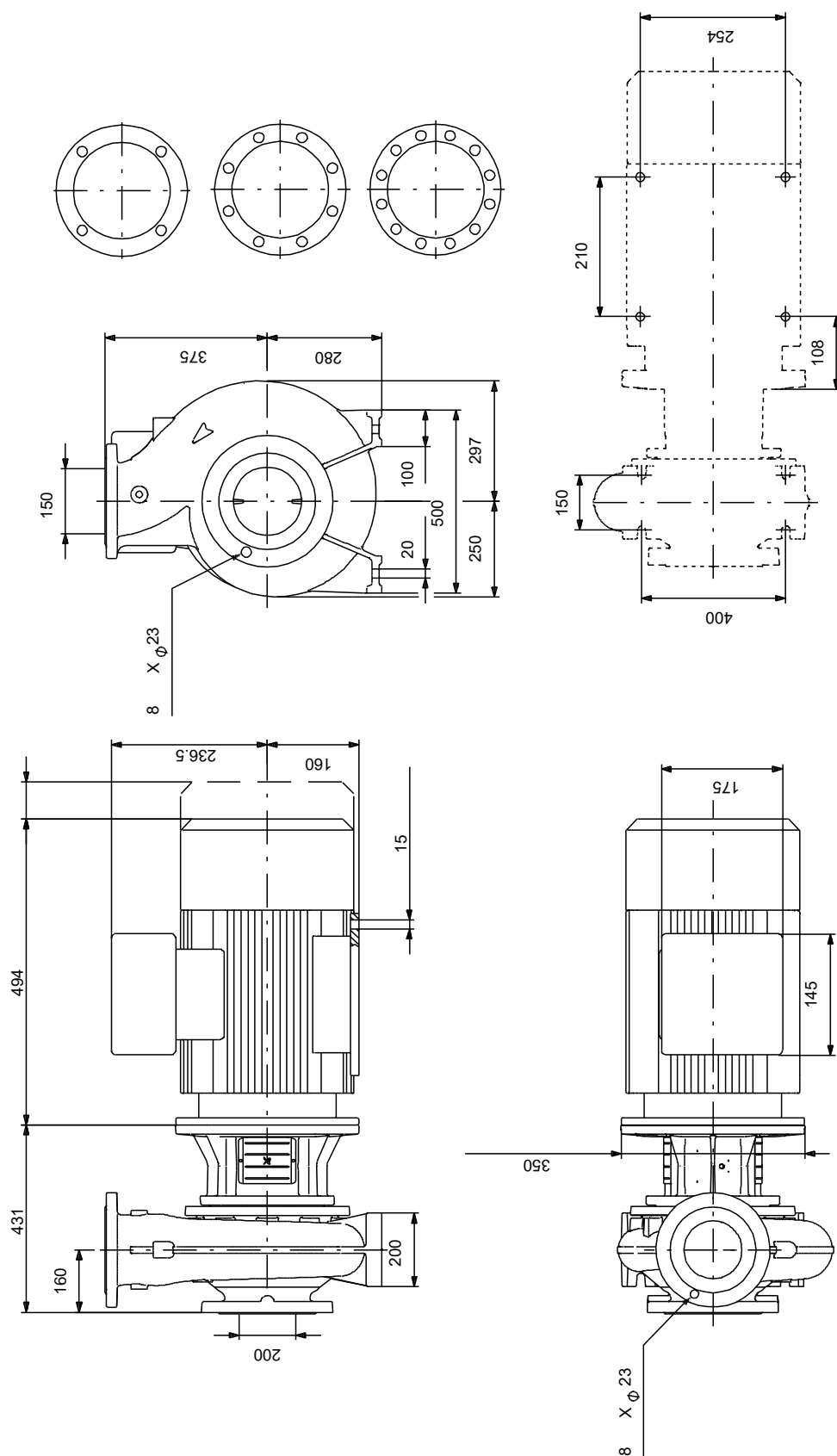


| Description                              | Value                          |
|------------------------------------------|--------------------------------|
| <b>General information:</b>              |                                |
| Product name:                            | NB 150-250/252 EUP<br>AF1ABQQE |
| Product No:                              | 98975687                       |
| EAN number:                              | 5712604547380                  |
| <b>Technical:</b>                        |                                |
| Pump speed on which pump data are based: | 975 rpm                        |
| Rated flow:                              | 267.9 m³/h                     |
| Rated head:                              | 7.274 m                        |
| Actual impeller diameter:                | 252 mm                         |
| Nominal impeller diameter:               | 250                            |
| Shaft seal arrangement:                  | Single                         |
| Shaft diameter:                          | 42 mm                          |
| Code for shaft seal:                     | BQQE                           |
| Curve tolerance:                         | ISO9906:2012 3B2               |
| 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:                        | 7.5 kW                         |
| Mains frequency:                         | 50 Hz                          |
| Rated voltage:                           | 3 x 380-420D/660-725Y V        |
| Rated current:                           | 16,0-14,6/9,20-8,40 A          |
| Starting current:                        | 630-630 %                      |
| Cos phi - power factor:                  | 0.80                           |
| Rated speed:                             | 975 rpm                        |
| Efficiency:                              | IE3 89,1%                      |
| Motor efficiency at full load:           | 89.1-89.1 %                    |
| Motor efficiency at 3/4 load:            | 90.0-90.0 %                    |
| Motor efficiency at 1/2 load:            | 89.8-89.8 %                    |
| Number of poles:                         | 6                              |
| Enclosure class (IEC 34-5):              | IP55                           |



| Description                      | Value                |
|----------------------------------|----------------------|
| Insulation class (IEC 85):       | F                    |
| Motor protec:                    | PTC                  |
| Motor No:                        | 83W15422             |
| 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:                      | 262 kg               |
| Gross weight:                    | 295 kg               |
| Shipping volume:                 | 0.951 m <sup>3</sup> |
| Country of origin:               | HU                   |
| Custom tariff no.:               | 84137051             |

# 98975687 NB 150-250/252 EUP 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 150-250/252 EUP, Product No. 98975687**  
**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            |                 |                        | 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        |                 |                        | 92514334     | 1      | pcs     |
| 105  | Shaft seal              |                 |                        |              | 5      |         |
| -    | Kit, coupling guard     |                 |                        | 96809945     | 1      | pcs     |
| 7a   | Pan head screw          |                 |                        |              | 4      |         |
| 7    | Coupling guard          |                 |                        |              | 2      |         |
| -    | Kit, cover              |                 |                        | 98990972     | 1      | pcs     |
| 18   | Plug                    |                 |                        |              | 1      |         |
| 36   | Nut                     |                 | Thread: M12            |              | 10     |         |
| 77   | Cover                   |                 |                        |              | 1      |         |
| -    | Kit, motor stool        |                 |                        | 96935191     | 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       |                 |                        | 98801847     | 1      | pcs     |
| 6    | Pump housing            |                 |                        |              | 1      |         |
| 20   | Plug                    |                 |                        |              | 2      |         |
| 36   | Nut                     |                 | Thread: M12            |              | 10     |         |
| -    | Kit, stub shaft         |                 |                        | 99248520     | 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           |                 |                        | 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       |                 |                        | 98434909     | 1      | pcs     |
| 105  | Shaft seal              |                 |                        |              | 1      |         |
| -    | Spare, wear ring        |                 |                        | 99208792     | 1      | pcs     |
| 45   | Wear ring               |                 |                        |              | 1      |         |
| -    | Motor                   |                 |                        |              | 1      | pcs     |
| 156  | Kit, fan                |                 |                        | 98505756     | 1      |         |
|      | Kit, lubrication nipple |                 |                        | 98597820     | 1      |         |
| 151  | Spare, motor fan cover  |                 |                        | 98507838     | 1      |         |
| 164a | Spare, Terminal box     |                 |                        | 98505713     | 1      |         |
| 49   | Impeller                |                 |                        | 99658706     | 1      | pcs     |