

## Inventflow: Grundfos A-partner

### Grundfos NBE 32-250/244 ASF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nbe/grundfos-nbe-32-250-244-asf2abqqe>

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#### Datasheet

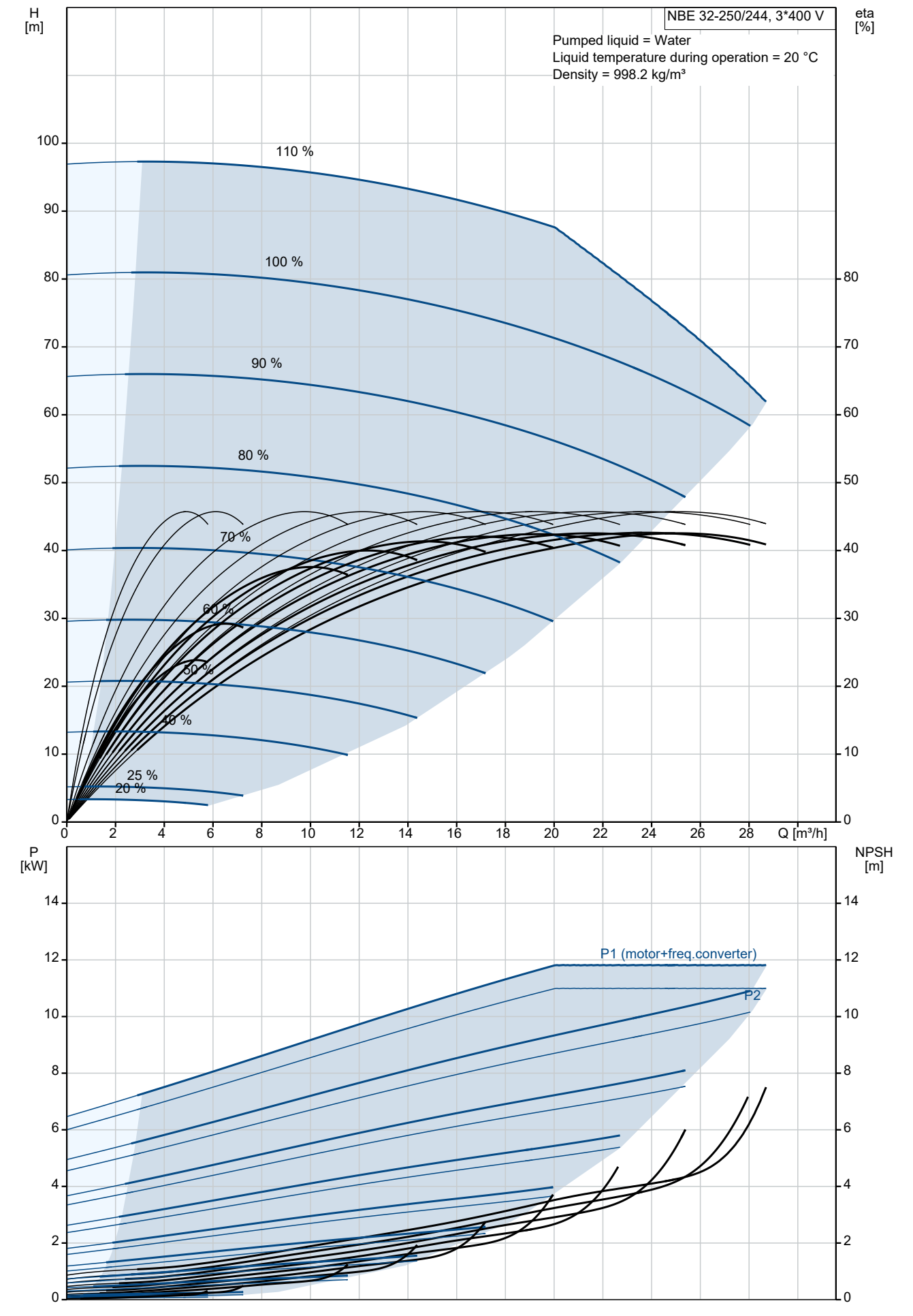


| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| 1    | <p data-bbox="204 161 542 190"><b>NBE 32-250/244 ASF2ABQQE</b></p>  <p data-bbox="593 504 1064 526">Note! Product picture may differ from actual product</p> <p data-bbox="204 535 464 560">Product No.: <a href="#">99101964</a></p> <p data-bbox="204 593 893 651">Non-self priming, single-stage centrifugal<br/>Flange standard: pump according to EN 1092-2.</p> <p data-bbox="204 683 683 797">The pump is for the pumping of thin, clean or slightly contaminated liquids without abrasive or long-fibred solids.</p> <p data-bbox="204 831 612 889">The impeller is hydraulically as well as dynamically balanced.</p> <p data-bbox="204 920 667 949">The pump has the following characteristics:</p> <ul data-bbox="236 949 750 1008" style="list-style-type: none"> <li>- flange dimensions according to EN 1092-2,</li> </ul> <p data-bbox="204 1008 750 1037">Pump housing: - Cast iron volute</p> <p data-bbox="236 1037 491 1095">pump housing,<br/>- stainless steel shaft</p> <p data-bbox="204 1095 802 1124">Impeller: and Cast iron impeller</p> <p data-bbox="236 1124 643 1216">and bronze wear rings,<br/>- unbalanced mechanical shaft seal according to EN 12756.</p> <p data-bbox="204 1247 748 1422">The pump is fitted with an IEC-flanged three-phase MGE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required, as both motor and electronics are protected by integrated overload and temperature protection.</p> <p data-bbox="204 1453 732 1543">An external sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required.</p> <p data-bbox="204 1574 738 1688">A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault".</p> <p data-bbox="204 1720 759 1868">Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".</p> <p data-bbox="204 1899 628 1957">The terminal box holds terminals for the connection of:</p> <ul data-bbox="236 1957 764 2105" style="list-style-type: none"> <li>- pump start/stop (potential-free contact),</li> <li>- external remote setpoint setting via analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA,</li> <li>- 5 V voltage supply for setpoint potentiometer, I<sub>max</sub> = 5 mA,</li> </ul> |

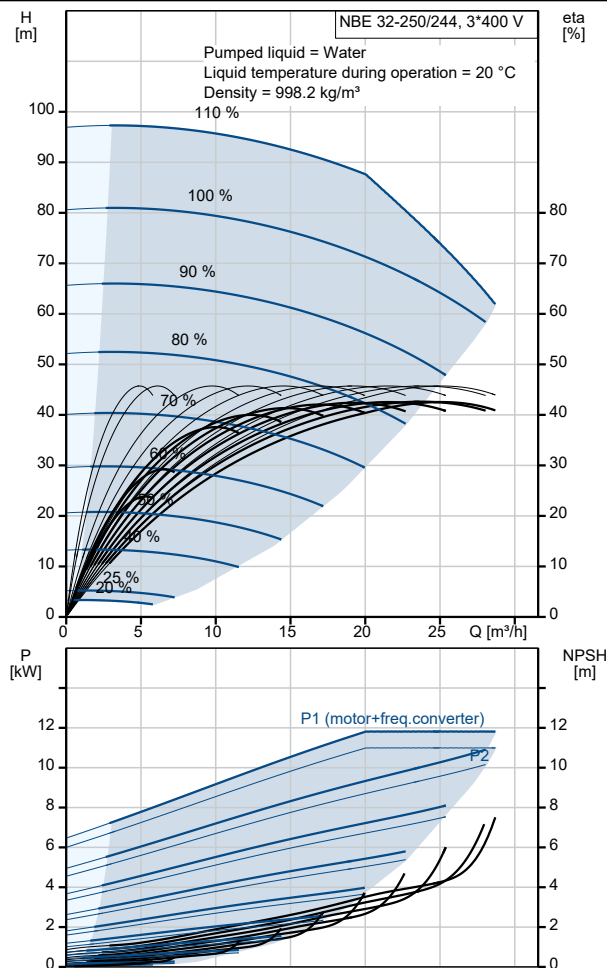
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <ul style="list-style-type: none"> <li>- sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA,</li> <li>- 24 V voltage supply for sensor, I<sub>max</sub> = 40 mA,</li> <li>- input for forced control to MIN or MAX (potential-free contact),</li> <li>- potential-free fault signal relay with changeover contact,</li> <li>- RS485 GENIbus.</li> </ul> <p>Controls:</p> <p>Frequency converter: Built-in</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: 2901 rpm</p> <p>Rated flow: 24.91 m<sup>3</sup>/h</p> <p>Rated head: 64.04 m</p> <p>Actual impeller diameter: 244 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<br/>EN-GJL-200<br/>ASTM class 30</p> <p>Shaft: Stainless steel<br/>EN 1.4301<br/>AISI 304</p> <p>Internal pump house coating: CED</p> <p>Installation:</p> <p>Maximum ambient temperature: 50 °C</p> <p>Maximum operating pressure: 16 bar</p> <p>Pipe connection standard: EN 1092-2</p> <p>Size of inlet connection: DN 50</p> <p>Size of outlet connection: DN 32</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>IE Efficiency class: IE5</p> <p>Rated power - P<sub>2</sub>: 11 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-500 V</p> <p>Rated current: 20.3-16.0 A</p> <p>Cos phi - power factor: 0.93-0.90</p> <p>Rated speed: 360-4000 rpm</p> <p>Efficiency: 93.1%</p> <p>Motor efficiency at full load: 93.1 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): IP55</p> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <div data-bbox="196 159 678 224"> Insulation class (IEC 85): F<br/> Motor No: 99306732 </div> <div data-bbox="196 248 678 459"> Others:<br/> Minimum efficiency index, MEI ≥: 0.70<br/> Net weight: 128 kg<br/> Gross weight: 150 kg<br/> Shipping volume: 0.509 m³<br/> Country of origin: HU<br/> Custom tariff no.: 84137051 </div> |

99101964 NBE 32-250/244 ASF2ABQQE 50 Hz

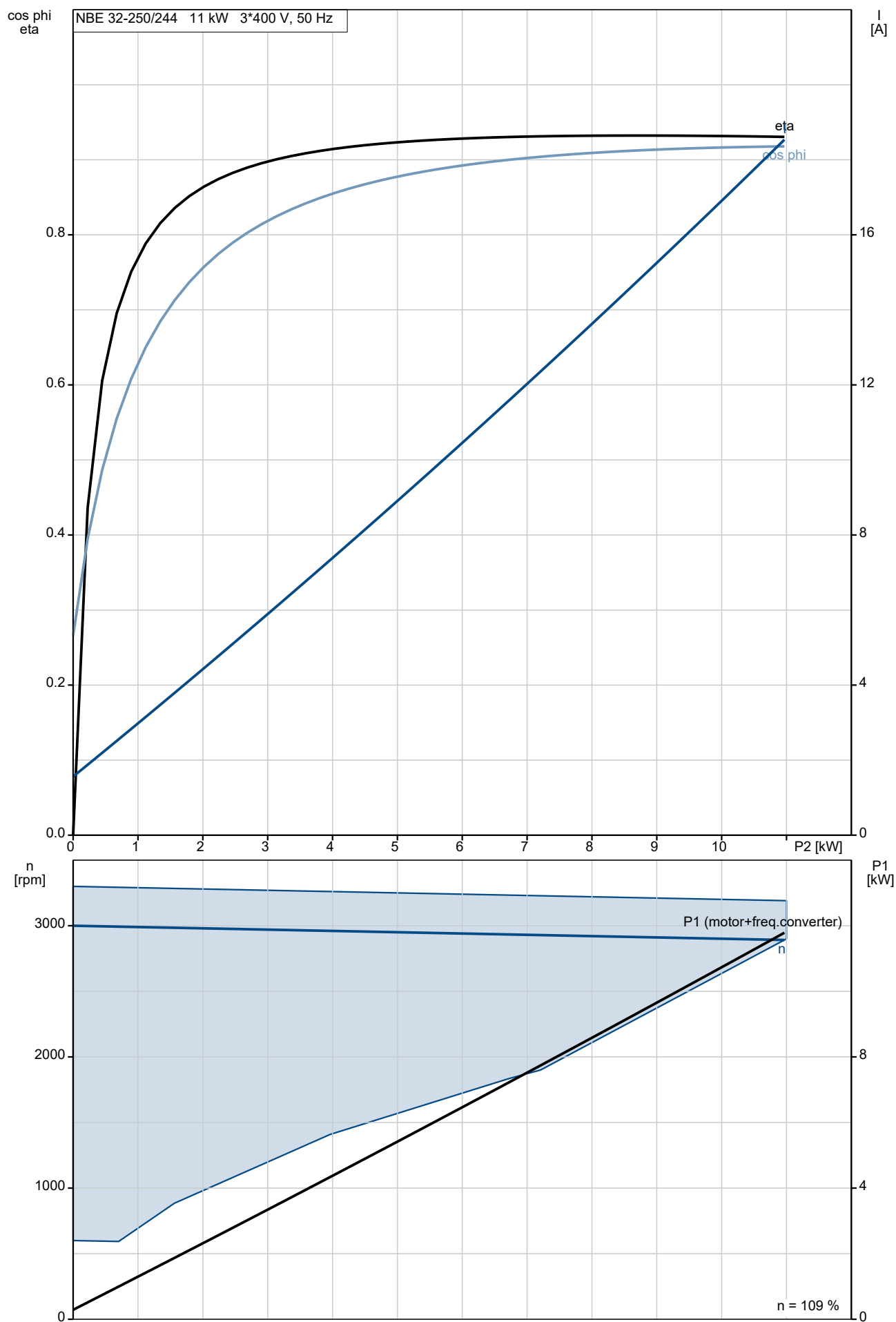


| Description                              | Value                       |
|------------------------------------------|-----------------------------|
| <b>General information:</b>              |                             |
| Product name:                            | NBE 32-250/244<br>ASF2ABQQE |
| Product No:                              | 99101964                    |
| EAN number:                              | 5712606792191               |
| <b>Technical:</b>                        |                             |
| Pump speed on which pump data are based: | 2901 rpm                    |
| Rated flow:                              | 24.91 m³/h                  |
| Rated head:                              | 64.04 m                     |
| Actual impeller diameter:                | 244 mm                      |
| Nominal impeller diameter:               | 250                         |
| Shaft seal arrangement:                  | Single                      |
| Shaft diameter:                          | 24 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:             | 50 °C                       |
| Maximum operating pressure:              | 16 bar                      |
| Pipe connection standard:                | EN 1092-2                   |
| Size of inlet connection:                | DN 50                       |
| Size of outlet connection:               | DN 32                       |
| 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>                  |                             |
| IE Efficiency class:                     | IE5                         |
| Rated power - P2:                        | 11 kW                       |
| Mains frequency:                         | 50 Hz                       |
| Rated voltage:                           | 3 x 380-500 V               |
| Rated current:                           | 20.3-16.0 A                 |
| Cos phi - power factor:                  | 0.93-0.90                   |
| Rated speed:                             | 360-4000 rpm                |
| Efficiency:                              | 93.1 %                      |
| Motor efficiency at full load:           | 93.1 %                      |
| Number of poles:                         | 2                           |
| Enclosure class (IEC 34-5):              | IP55                        |
| Insulation class (IEC 85):               | F                           |
| Motor protec:                            | ELEC                        |
| Motor No:                                | 99306732                    |
| Mount. design. acc. IEC 34-7:            | IM B35                      |

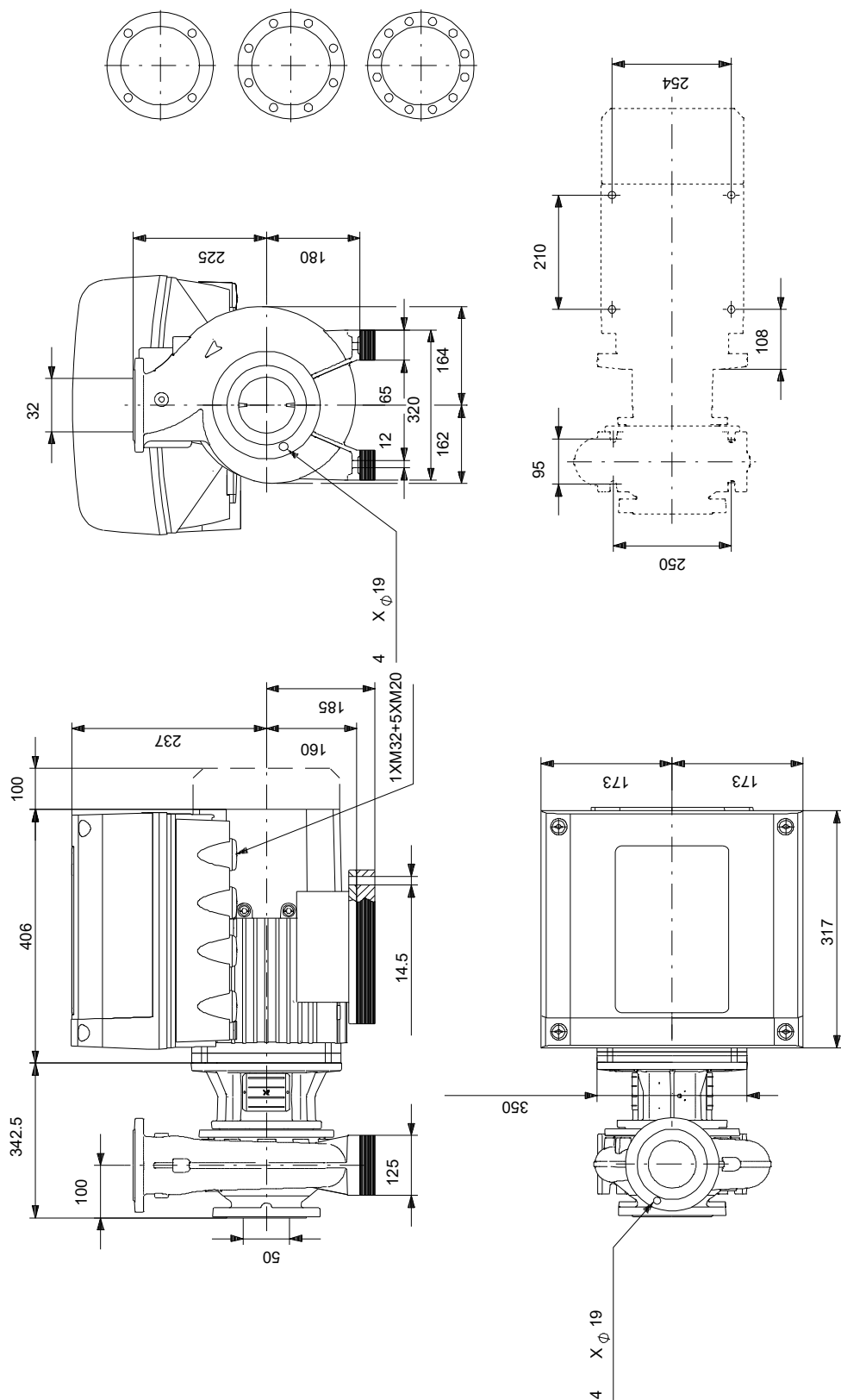


| Description                      | Value             |
|----------------------------------|-------------------|
| <b>Controls:</b>                 |                   |
| Control panel:                   | HMI300 - Advanced |
| Function Module:                 | 300               |
| Frequency converter:             | Built-in          |
| Pressure sensor:                 | N                 |
| <b>Others:</b>                   |                   |
| Minimum efficiency index, MEI ≥: | 0.70              |
| Net weight:                      | 128 kg            |
| Gross weight:                    | 150 kg            |
| Shipping volume:                 | 0.509 m³          |
| Country of origin:               | HU                |
| Custom tariff no.:               | 84137051          |

# 99101964 NBE 32-250/244 ASF2ABQQE 50 Hz



**99101964 NBE 32-250/244 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 NBE 32-250/244, Product No. 99101964**  
**Produced After 2101 (production year and week number)**

| Pos  | Omschrijving        | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|---------------------|-----------------|------------------------|--------------|--------|---------|
| -    | Bulk, Nut           |                 |                        | 92514630     | 1      | pcs     |
| 67   | Nut                 |                 | Thread: M14            |              | 5      |         |
| -    | Bulk, o-ring        |                 |                        | 92547618     | 1      | pcs     |
| 72a  | O-ring              |                 | Diameter: 253,6        |              | 5      |         |
|      |                     |                 | Material type: EPDM    |              |        |         |
|      |                     |                 | Thickness: 3,53        |              |        |         |
| -    | Bulk, Plug vent     |                 |                        | 96620482     | 1      | pcs     |
| 18   | Plug                |                 |                        |              | 5      |         |
| -    | Bulk, Shaft seal    |                 |                        | 99380916     | 1      | pcs     |
| 105  | Shaft seal          |                 |                        |              | 5      |         |
| -    | Kit, coupling guard |                 |                        | 96809946     | 1      | pcs     |
| 7a   | Pan head screw      |                 |                        |              | 4      |         |
| 7    | Coupling guard      |                 |                        |              | 2      |         |
| -    | Kit, motor stool    |                 |                        | 98990916     | 1      | pcs     |
| 1a   | Motor stool         |                 |                        |              | 1      |         |
| 7    | Coupling guard      |                 |                        |              | 2      |         |
| 18   | Plug                |                 |                        |              | 1      |         |
| 28   | Hex head screw      |                 |                        |              | 4      |         |
| 36   | Hex nut             |                 | Thread: M16            |              | 4      |         |
| 36   | Nut                 |                 | Thread: M10            |              | 10     |         |
| 76a  | Rivet               |                 |                        |              | 2      |         |
| 77a  | Pan head screw      |                 |                        |              | 4      |         |
| -    | Kit, nut            |                 |                        | 96939128     | 1      | pcs     |
| 11   | Parallel key        |                 | Dimension: 6X6X35      |              | 1      |         |
| -    | 36 Nut              |                 |                        |              | 1      |         |
| 66a  | Spring lock washer  |                 |                        |              | 1      |         |
| 66   | Washer              |                 |                        |              | 1      |         |
| 67   | Nut                 |                 | Thread: M14            |              | 1      |         |
| -    | Kit, pump housing   |                 |                        | 96930828     | 1      | pcs     |
| 6    | Pump housing        |                 |                        |              | 1      |         |
| 20   | Pipe plug           |                 | Thread: R 3/8          |              | 2      |         |
| 36   | Nut                 |                 | Thread: M10            |              | 10     |         |
| -    | Kit, stub shaft     |                 |                        | 96039354     | 1      | pcs     |
| 9    | Socket set screw    |                 | Length (mm): 10        |              | 2      |         |
|      |                     |                 | Thread: M8             |              |        |         |
| 11   | Parallel key        |                 | Dimension: 6X6X35      |              | 1      |         |
| 51   | Pump shaft          |                 |                        |              | 1      |         |
| 66a  | Spring lock washer  |                 |                        |              | 1      |         |
| 66   | Washer              |                 |                        |              | 1      |         |
| 67   | Nut                 |                 | Thread: M14            |              | 1      |         |
| +    | Spare, O-ring       |                 |                        | 97757672     | 1      | pcs     |
| -    | Spare, plug vent    |                 |                        | 98164277     | 1      | pcs     |
| 18   | Plug                |                 |                        |              | 1      |         |
| -    | Spare, shaft seal   |                 |                        | 98434904     | 1      | pcs     |
| 105  | Shaft seal          |                 |                        |              | 1      |         |
| -    | Spare, wear ring    |                 |                        | 99208825     | 1      | pcs     |
| 45   | Wear ring           |                 |                        |              | 1      |         |
| -    | Motor               |                 |                        |              | 1      | pcs     |
| -    | Kit, Ball bearing   |                 |                        | 98881522     | 1      |         |
| 111  | Ball bearing        |                 |                        |              | 1      |         |
| 154  | Ball bearing        |                 |                        |              | 1      |         |
| 156d | Seal ring           |                 |                        |              | 1      |         |
| 156c | Seal ring           |                 |                        |              | 1      |         |
| 158  | Waved washer        |                 |                        |              | 1      |         |
| -    | Kit, Blanking plug  |                 |                        | 99052476     | 1      |         |
| 252b | Blind plug          |                 |                        |              | 1      |         |

| Pos  | Omschrijving                  | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|-----------------|------------------------|--------------|--------|---------|
| 252b | Plug cpl.                     |                 |                        |              | 5      |         |
| -    | Kit, cable gland              |                 |                        | 98736115     | 1      |         |
| 293  | Cable glands set              |                 |                        |              | 1      |         |
| -    | Kit, connector plugs          |                 |                        | 98403113     | 1      |         |
| 266  | Connector plug 10-pole        |                 |                        |              | 1      |         |
| 266  | Connector plug 2-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 8-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 8-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 8-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 3-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 3-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 3-pole         |                 |                        |              | 1      |         |
| -    | Kit, control box              |                 |                        | 98878620     | 1      |         |
| 251d | Pan head thread forming screw |                 |                        |              | 4      |         |
| 251b | Control box                   |                 |                        |              | 1      |         |
| 251a | Control box cpl.              |                 |                        |              | 1      |         |
| 252b | Blind plug                    |                 |                        |              | 1      |         |
| 252b | Plug cpl.                     |                 |                        |              | 5      |         |
| 266  | Connector plug 10-pole        |                 |                        |              | 1      |         |
| 266  | Connector plug 8-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 8-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 8-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 3-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 3-pole         |                 |                        |              | 1      |         |
| 266  | Connector plug 3-pole         |                 |                        |              | 1      |         |
| 268a | Base                          |                 |                        |              | 2      |         |
| 268  | Pan head screw                |                 |                        |              | 2      |         |
| 273b | Battery                       |                 |                        |              | 1      |         |
| 273a | Cross recess Pan head screw   |                 |                        |              | 4      |         |
| 273  | Funct. Module cpl.            |                 |                        |              | 1      |         |
| 275a | Pin                           |                 |                        |              | 1      |         |
| 277b | Spring                        |                 |                        |              | 4      |         |
| 277a | Cross recess Pan head screw   |                 |                        |              | 1      |         |
| 277  | Cover                         |                 |                        |              | 1      |         |
| 286  | Spacer                        |                 |                        |              | 1      |         |
| 287  | Cover                         |                 |                        |              | 1      |         |
| 288b | Retaining ring                |                 |                        |              | 8      |         |
| 288a | Pan head thread forming screw |                 |                        |              | 8      |         |
| 288  | Wire clamp                    |                 |                        |              | 4      |         |
| 289a | Pan head thread forming screw |                 |                        |              | 1      |         |
| 289  | Wire clamp                    |                 |                        |              | 1      |         |
| 290  | Control panel, cpl.           |                 |                        |              | 1      |         |
| 301  | Jumper                        |                 |                        |              | 1      |         |
| -    | Kit, Control box upper        |                 |                        | 98869871     | 1      |         |
| 251b | Pan head thread forming screw |                 |                        |              | 4      |         |
| 251b | Control box                   |                 |                        |              | 1      |         |
| -    | Kit, Control panel            |                 |                        | 98939971     | 1      |         |
| 290  | Control panel, cpl.           |                 |                        |              | 1      |         |
| -    | Kit, cover                    |                 |                        | 98330622     | 1      |         |
| 287  | Cover                         |                 |                        |              | 1      |         |

| Pos  | Omschrijving                  | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|-----------------|------------------------|--------------|--------|---------|
| -    | Kit, end shield (NDE)         |                 |                        | 98869886     | 1      |         |
| 150b | O-ring                        |                 |                        |              | 1      |         |
| 156c | Gamma ring                    |                 |                        |              | 1      |         |
| 156c | Seal ring                     |                 |                        |              | 1      |         |
| 156a | End shield NDE                |                 |                        |              | 1      |         |
| 158  | Waved washer                  |                 |                        |              | 1      |         |
| 200a | Grease nipple                 |                 |                        |              | 1      |         |
| 206  | Pan head thread forming screw |                 |                        |              | 4      |         |
| 206  | Hex socket head cap screw     |                 |                        |              | 4      |         |
| 207b | Nut                           |                 |                        |              | 4      |         |
| -    | Kit, fan                      |                 |                        | 98869879     | 1      |         |
| 152  | Pan head thread forming screw |                 |                        |              | 4      |         |
| 156c | Seal ring                     |                 |                        |              | 1      |         |
| 156  | Fan                           |                 |                        |              | 1      |         |
| -    | Kit, fan cover                |                 |                        | 98869873     | 1      |         |
| 151  | Fan cover                     |                 |                        |              | 1      |         |
| 152  | Pan head thread forming screw |                 |                        |              | 4      |         |
| -    | Kit, flange (DE)              |                 |                        | 98869906     | 1      |         |
|      | Glue                          |                 |                        |              | 0      |         |
| 150b | O-ring                        |                 |                        |              | 1      |         |
| 155a | Bearing cover                 |                 |                        |              | 1      |         |
| 156c | Seal ring                     |                 |                        |              | 1      |         |
| 156b | Flange                        |                 |                        |              | 1      |         |
| 185  | Hex socket head cap screw     |                 |                        |              | 4      |         |
| 201c | Drain plug                    |                 |                        |              | 4      |         |
| 201b | Blind plug                    |                 |                        |              | 1      |         |
| 201a | Grease nipple                 |                 |                        |              | 1      |         |
| 208b | Nut                           |                 |                        |              | 4      |         |
| 208a | Gasket                        |                 |                        |              | 3      |         |
| 208  | Hex socket head cap screw     |                 | Designation: DIN912    |              | 3      |         |
|      |                               |                 | Length (mm): 40        |              |        |         |
|      |                               |                 | Thread: M5             |              |        |         |
| -    | Kit, foot                     |                 |                        | 98962891     | 1      |         |
| 152  | Pan head thread forming screw |                 |                        |              | 4      |         |
| 191  | Foot                          |                 |                        |              | 1      |         |
| -    | Kit, Funct. module            |                 |                        | 98334777     | 1      |         |
| 273a | Cross recess Pan head screw   |                 |                        |              | 5      |         |
| 273  | Funct. Module cpl.            |                 |                        |              | 1      |         |
| 275a | Pin                           |                 |                        |              | 1      |         |
| 286  | Spacer                        |                 |                        |              | 1      |         |
| -    | Kit, Isolation cover          |                 |                        | 98859523     | 1      |         |
| 277b | Spring                        |                 |                        |              | 4      |         |
| 277a | Cross recess Pan head screw   |                 |                        |              | 1      |         |
| 277  | Cover                         |                 |                        |              | 1      |         |
| -    | Kit, Lower part cpl.          |                 |                        | 98859573     | 1      |         |
| 178  | Pan head thread forming screw |                 |                        |              | 4      |         |
| 251a | Control box cpl.              |                 |                        |              | 1      |         |

| Pos  | Omschrijving                  | Opmerking tekst            | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|----------------------------|------------------------|--------------|--------|---------|
| 275a | Pin                           |                            |                        |              | 1      |         |
| 277a | Cross recess Pan head screw   |                            |                        |              | 1      |         |
| 277  | Cover                         |                            |                        |              | 1      |         |
| -    | Kit, motor                    |                            |                        | 99010814     | 1      |         |
|      | Hex socket head cap screw     |                            |                        |              | 2      |         |
|      | Terminal                      |                            |                        |              | 6      |         |
|      | Washer                        |                            |                        |              | 2      |         |
| 111  | Ball bearing                  |                            |                        |              | 1      |         |
| 150b | O-ring                        |                            |                        |              | 2      |         |
| 150  | Stator w/housing              |                            |                        |              | 1      |         |
| 151  | Fan cover                     |                            |                        |              | 1      |         |
| 152  | Pan head thread forming screw |                            |                        |              | 4      |         |
| 152  | Pan head thread forming screw |                            |                        |              | 2      |         |
| 152  | Pan head thread forming screw |                            |                        |              | 4      |         |
| 154  | Ball bearing                  |                            |                        |              | 1      |         |
| 155a | Bearing cover                 |                            |                        |              | 1      |         |
| 156d | Seal ring                     |                            |                        |              | 1      |         |
| 156c | Seal ring                     |                            |                        |              | 1      |         |
| 156b | Flange                        |                            |                        |              | 1      |         |
| 156  | Fan                           |                            |                        |              | 1      |         |
| 158  | Waved washer                  |                            |                        |              | 1      |         |
| 172a | Parallel key                  | Designation: DS96 DIN 6885 |                        |              | 1      |         |
|      |                               | Dimension: 12X8X90         |                        |              |        |         |
| 172  | Shaft w/rotor                 |                            |                        |              | 1      |         |
| 185  | Hex socket head cap screw     |                            |                        |              | 4      |         |
| 187  | Retaining ring                |                            |                        |              | 1      |         |
| 191  | Foot                          |                            |                        |              | 1      |         |
| 201c | Drain plug                    |                            |                        |              | 4      |         |
| 203  | Terminal plug                 |                            |                        |              | 1      |         |
| 205  | Gasket                        |                            |                        |              | 1      |         |
| 206  | Hex socket head cap screw     |                            |                        |              | 4      |         |
| 207b | Nut                           |                            |                        |              | 4      |         |
| 208b | Nut                           |                            |                        |              | 4      |         |
| 208a | Gasket                        |                            |                        |              | 3      |         |
| 208  | Hex socket head cap screw     | Designation: DIN912        |                        |              | 3      |         |
|      |                               | Length (mm): 40            |                        |              |        |         |
|      |                               | Thread: M5                 |                        |              |        |         |
| -    | Kit, plug                     |                            |                        | 99028677     | 1      |         |
| 152  | Pan head thread forming screw |                            |                        |              | 2      |         |
| 203  | Terminal plug                 |                            |                        |              | 1      |         |
| 205  | Gasket                        |                            |                        |              | 1      |         |
| -    | Kit, screws                   |                            |                        | 99028725     | 1      |         |
| 268a | Base                          |                            |                        |              | 2      |         |
| 268  | Pan head screw                |                            |                        |              | 2      |         |
| 288b | Retaining ring                |                            |                        |              | 8      |         |
| 288a | Pan head thread forming screw |                            |                        |              | 8      |         |
| 288  | Wire clamp                    |                            |                        |              | 4      |         |
| 289a | Pan head thread forming screw |                            |                        |              | 1      |         |
| 289  | Wire clamp                    |                            |                        |              | 1      |         |
|      | Lifting device                |                            |                        | 99140040     | 2      |         |
| 99a  | Circlip                       |                            |                        | 99946400     | 1      |         |

| Pos  | Omschrijving                  | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|-----------------|------------------------|--------------|--------|---------|
| 152  | Pan head thread forming screw |                 |                        | 99834207     | 4      |         |
| 152  | Pan head thread forming screw |                 |                        | 99814578     | 4      |         |
| 186  | Drain plug                    |                 |                        | 99980519     | 4      |         |
| 251d | Pan head thread forming screw |                 |                        | 98995460     | 4      |         |
| 266  | Connector plug 3-pole         |                 |                        | 99421265     | 1      |         |
| 49   | Impeller                      |                 |                        | 98517830     | 1      | pcs     |