

## Inventflow: Grundfos A-partner

### Grundfos NB 65-200/162 ASF2ABQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nb/grundfos-nb-65-200-162-asf2abqqe>

#### Contact

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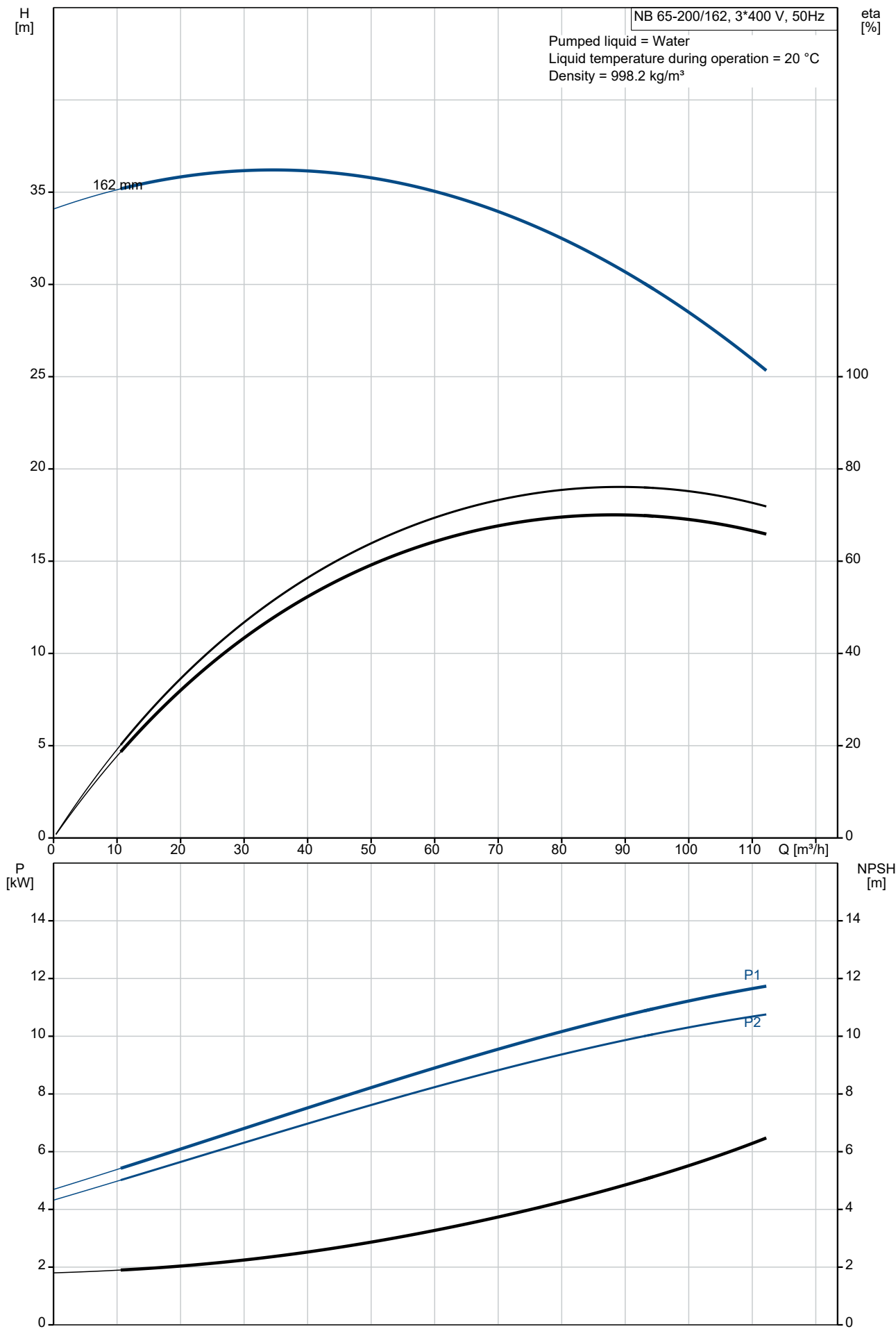
#### Datasheet



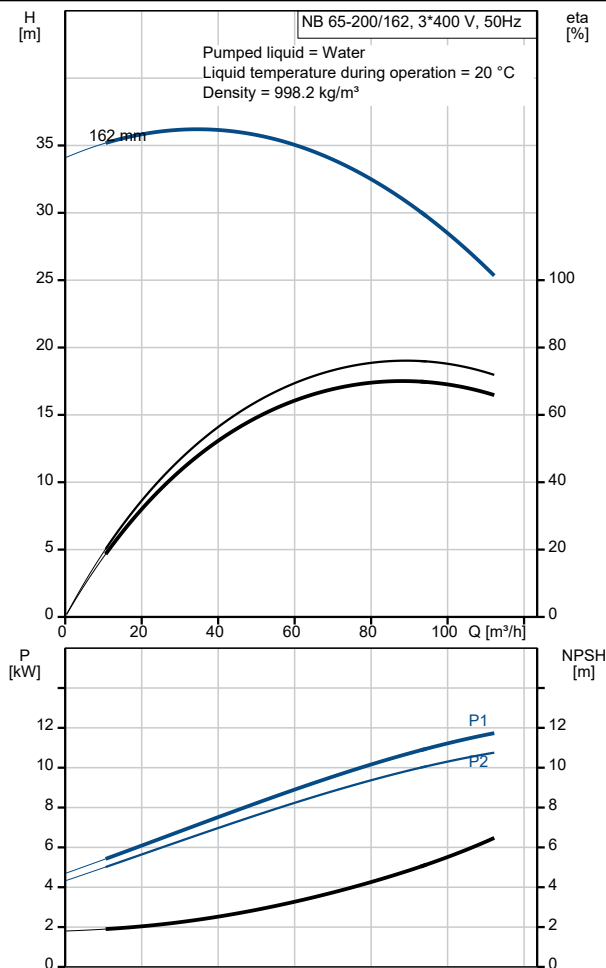
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>NB 65-200/162 ASF2ABQQE</b></p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: <a href="#">98979917</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: 2940 rpm</p> <p>Rated flow: 89.52 m<sup>3</sup>/h</p> <p>Rated head: 30.53 m</p> <p>Actual impeller diameter: 162 mm</p> <p>Nominal impeller diameter: 200</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> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Shaft: Stainless steel<br>EN 1.4301<br>AISI 304<br>Internal pump house coating: CED<br><br>Installation:<br>Maximum ambient temperature: 60 °C<br>Maximum operating pressure: 16 bar<br>Pipe connection standard: EN 1092-2<br>Size of inlet connection: DN 80<br>Size of outlet connection: DN 65<br>Pressure rating for connection: PN 16<br>Bearing lubrication: Grease<br>Pump housing with feet: No<br>Support block: Y<br><br>Electrical data:<br>Motor type: 160MB<br>IE Efficiency class: IE3<br>Rated power - P2: 11 kW<br>Mains frequency: 50 Hz<br>Rated voltage: 3 x 380-415D/660-690Y V<br>Rated current: 20,8-19,8/12,0-11,8 A<br>Starting current: 660-780 %<br>Cos phi - power factor: 0.88-0.84<br>Rated speed: 2940-2950 rpm<br>Efficiency: IE3 91,2%<br>Motor efficiency at full load: 91.2 %<br>Motor efficiency at 3/4 load: 91.8 %<br>Motor efficiency at 1/2 load: 91.3 %<br>Number of poles: 2<br>Enclosure class (IEC 34-5): 55 Dust/Jetting<br>Insulation class (IEC 85): F<br>Motor No: 87420028<br><br>Others:<br>Minimum efficiency index, MEI ≥: 0.70<br>Net weight: 150 kg<br>Gross weight: 172 kg<br>Shipping volume: 0.509 m³<br>Country of origin: HU<br>Custom tariff no.: 84137051 |

98979917 NB 65-200/162 ASF2ABQQE 50 Hz

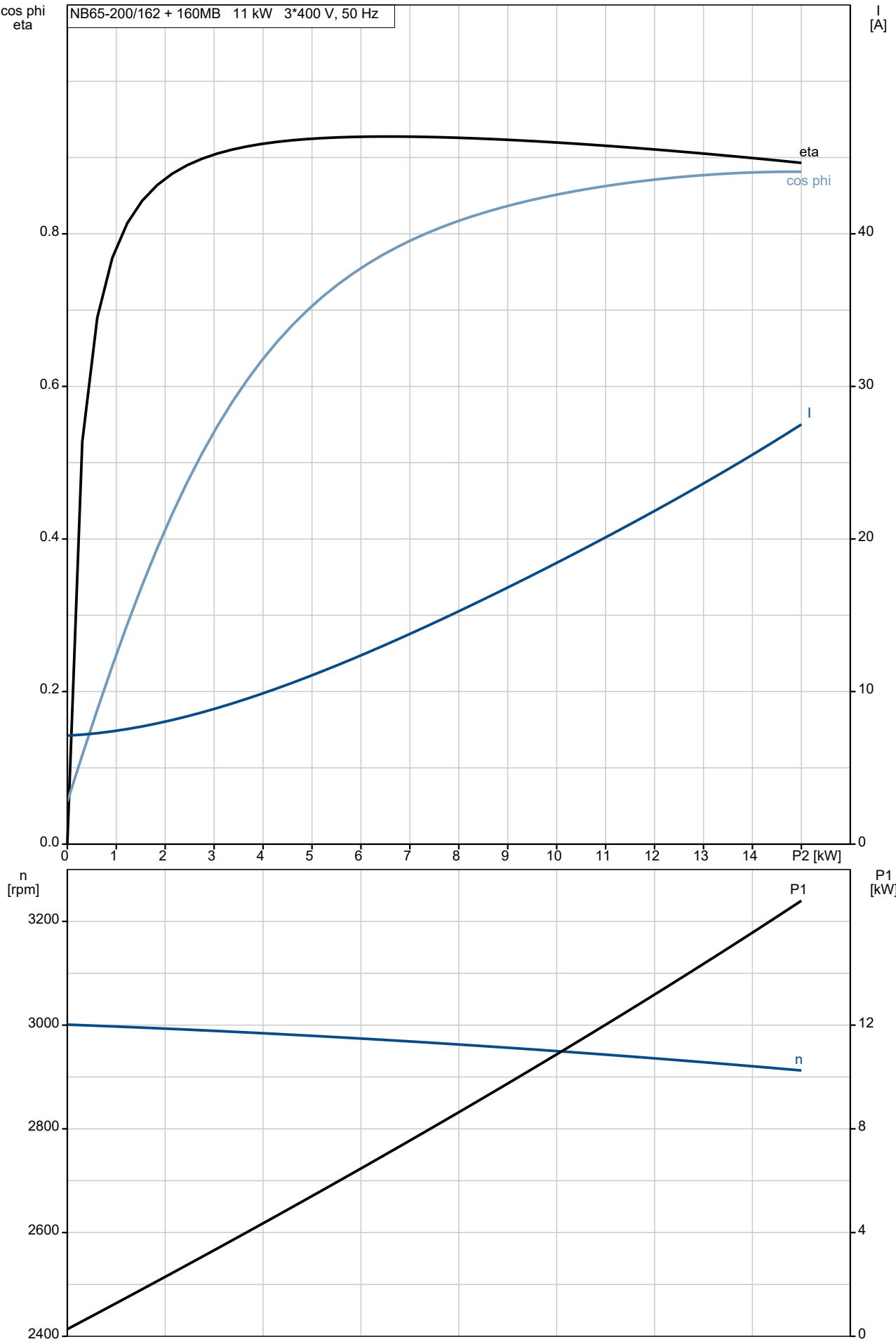


| Description                              | Value                      |
|------------------------------------------|----------------------------|
| <b>General information:</b>              |                            |
| Product name:                            | NB 65-200/162<br>ASF2ABQQE |
| Product No:                              | 98979917                   |
| EAN number:                              | 5712604621189              |
| <b>Technical:</b>                        |                            |
| Pump speed on which pump data are based: | 2940 rpm                   |
| Rated flow:                              | 89.52 m³/h                 |
| Rated head:                              | 30.53 m                    |
| Actual impeller diameter:                | 162 mm                     |
| Nominal impeller diameter:               | 200                        |
| 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:             | 60 °C                      |
| Maximum operating pressure:              | 16 bar                     |
| Pipe connection standard:                | EN 1092-2                  |
| Size of inlet connection:                | DN 80                      |
| Size of outlet connection:               | DN 65                      |
| Pressure rating for connection:          | PN 16                      |
| Bearing lubrication:                     | Grease                     |
| Pump housing with feet:                  | No                         |
| Support block:                           | Y                          |
| Connect code:                            | F2                         |
| <b>Liquid:</b>                           |                            |
| Pumped liquid:                           | Water                      |
| Liquid temperature range:                | -25 .. 120 °C              |
| Selected liquid temperature:             | 20 °C                      |
| Density:                                 | 998.2 kg/m³                |
| <b>Electrical data:</b>                  |                            |
| Motor type:                              | 160MB                      |
| IE Efficiency class:                     | IE3                        |
| Rated power - P2:                        | 11 kW                      |
| Mains frequency:                         | 50 Hz                      |
| Rated voltage:                           | 3 x 380-415D/660-690Y V    |
| Rated current:                           | 20,8-19,8/12,0-11,8 A      |
| Starting current:                        | 660-780 %                  |
| Cos phi - power factor:                  | 0.88-0.84                  |
| Rated speed:                             | 2940-2950 rpm              |
| Efficiency:                              | IE3 91,2%                  |
| Motor efficiency at full load:           | 91.2 %                     |
| Motor efficiency at 3/4 load:            | 91.8 %                     |
| Motor efficiency at 1/2 load:            | 91.3 %                     |
| Number of poles:                         | 2                          |
| Enclosure class (IEC 34-5):              | 55 Dust/Jetting            |

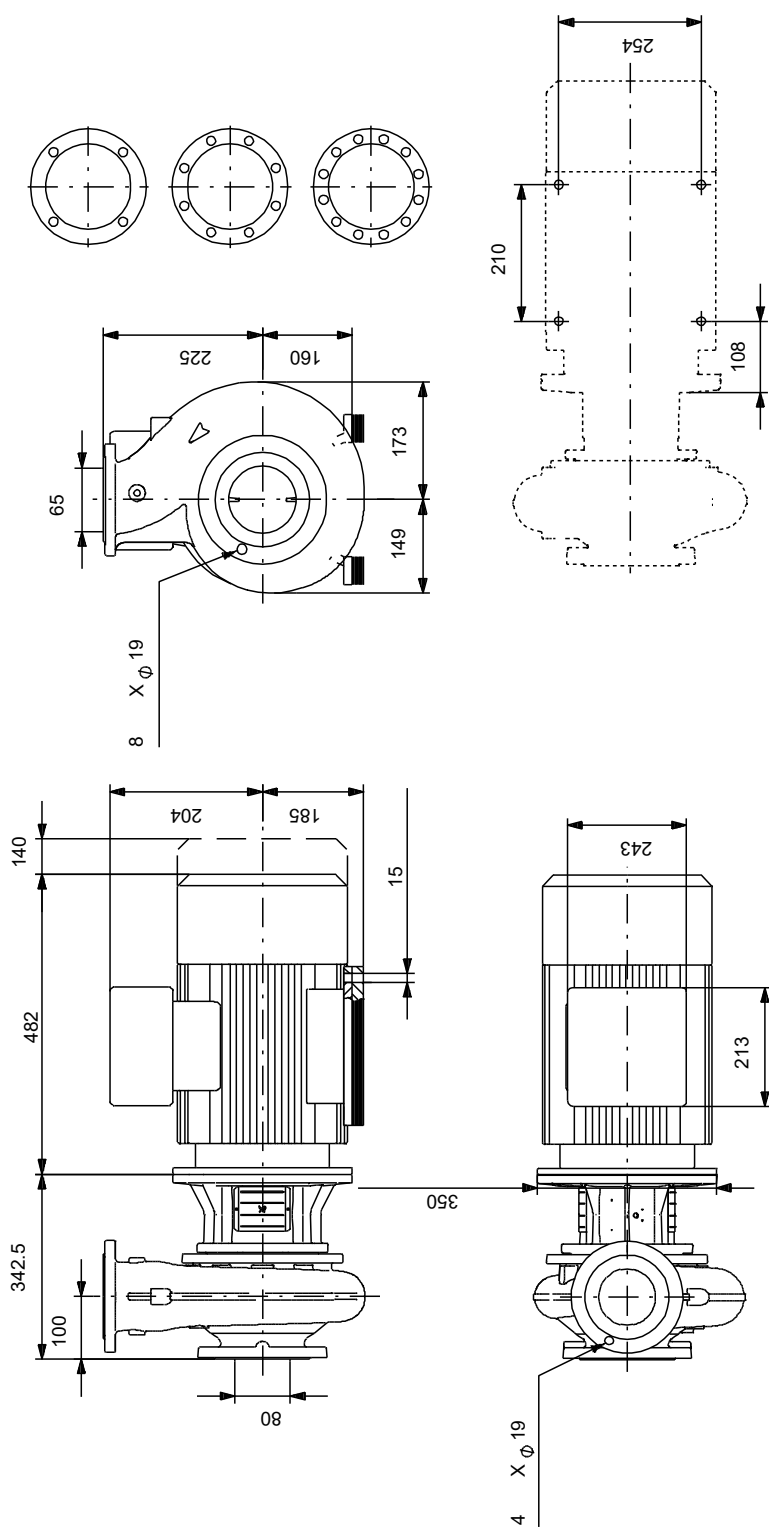


| Description                      | Value    |
|----------------------------------|----------|
| Insulation class (IEC 85):       | F        |
| Motor protec:                    | PTC      |
| Motor No:                        | 87420028 |
| Mount. design. acc. IEC 34-7:    | IM B35   |
| <b>Controls:</b>                 |          |
| Frequency converter:             | NONE     |
| Pressure sensor:                 | N        |
| <b>Others:</b>                   |          |
| Minimum efficiency index, MEI ≥: | 0.70     |
| Net weight:                      | 150 kg   |
| Gross weight:                    | 172 kg   |
| Shipping volume:                 | 0.509 m³ |
| Country of origin:               | HU       |
| Custom tariff no.:               | 84137051 |

98979917 NB 65-200/162 ASF2ABQQE 50 Hz



# 98979917 NB 65-200/162 ASF2ABQQE 50 Hz



Note! All units are in [mm] unless others are stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

**Spare parts NB 65-200/162, Product No. 98979917**  
**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        |                 |                                                            | 92547617     | 1      | pcs     |
| 72.a  | O-ring              |                 | Diameter: 221,84<br>Material type: EPDM<br>Thickness: 3,53 |              | 5      |         |
| -     | 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    |                 |                                                            | 98990923     | 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                                                |              | 8      |         |
| 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   |                 |                                                            | 95131725     | 1      | pcs     |
| -     | 6 Pump housing      |                 |                                                            |              | 1      |         |
| 26    | Staybolt            |                 | Length (mm): 35<br>Thread: M10                             |              | 8      |         |
| 45b   | Wear ring           |                 |                                                            |              | 1      |         |
| 20    | Pipe plug           |                 | Thread: R 3/8                                              |              | 2      |         |
| 36    | Nut                 |                 | Thread: M10                                                |              | 8      |         |
| -     | Kit, stub shaft     |                 |                                                            | 96039354     | 1      | pcs     |
| 9     | Socket set screw    |                 | Length (mm): 10<br>Thread: M8                              |              | 2      |         |
| 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       |                 |                                                            | 97757671     | 1      | pcs     |
| -     | Spare, plug vent    |                 |                                                            | 98164277     | 1      | pcs     |
| 18    | Plug                |                 |                                                            |              | 1      |         |
| -     | Spare, shaft seal   |                 |                                                            | 98434904     | 1      | pcs     |
| 105   | Shaft seal          |                 |                                                            |              | 1      |         |
| -     | Spare, wear ring    |                 |                                                            | 99208818     | 1      | pcs     |
| 45    | Wear ring           |                 |                                                            |              | 1      |         |
| -     | Motor               |                 |                                                            |              | 1      | pcs     |
| -     | Kit, bearing cpl.   |                 |                                                            | 96796674     | 1      |         |
| 32b   | Waved washer        |                 |                                                            |              | 1      |         |
| 111   | Ball bearing        |                 |                                                            |              | 1      |         |
| 154   | Ball bearing        |                 |                                                            |              | 1      |         |
| 157   | O-ring              |                 |                                                            |              | 1      |         |
| -     | Kit, bearing plate  |                 |                                                            | 96796664     | 1      |         |
| 155.a | Bearing cover       |                 |                                                            |              | 1      |         |

| Pos   | Omschrijving              | Opmerking tekst | Classificatie Gegevens     | Onderdeelnr. | Aantal | Eenheid |
|-------|---------------------------|-----------------|----------------------------|--------------|--------|---------|
| 208a  | Gasket                    |                 |                            |              | 3      |         |
| 208   | Hex socket head cap screw |                 | Designation: DIN912        |              | 3      |         |
|       |                           |                 | Length (mm): 40            |              |        |         |
|       |                           |                 | Thread: M5                 |              |        |         |
| -     | Kit, eyebolt              |                 |                            | 96796712     | 1      |         |
| 189   | Eyebolt                   |                 |                            |              | 2      |         |
| -     | Kit, fan                  |                 |                            | 96796648     | 1      |         |
| 156.c | Retaining ring            |                 |                            |              | 1      |         |
| 156   | Fan                       |                 |                            |              | 1      |         |
| -     | Kit, fan cover            |                 |                            | 96796647     | 1      |         |
| 151   | Fan cover                 |                 |                            |              | 1      |         |
| 152.a | Rubber bush               |                 |                            |              | 4      |         |
| 152   | Hex head cap screw        |                 |                            |              | 4      |         |
| 196   | Diaphragm                 |                 |                            |              | 1      |         |
| -     | Kit, flange               |                 |                            | 96796662     | 1      |         |
| 156.b | Flange                    |                 |                            |              | 1      |         |
| 159.b | Seal ring                 |                 |                            |              | 1      |         |
| 185.b | Nut                       |                 |                            |              | 4      |         |
| 185   | Hex socket head cap screw |                 |                            |              | 4      |         |
| 186   | Drain plug                |                 |                            |              | 4      |         |
| 195.a | Grease nipple             |                 |                            |              | 1      |         |
| -     | Kit, foot                 |                 |                            | 96796666     | 1      |         |
| 191   | Foot                      |                 |                            |              | 2      |         |
| 192   | Hex socket head cap screw |                 |                            |              | 4      |         |
| 194   | Lock washer               |                 |                            |              | 4      |         |
| 194   | Nut                       |                 |                            |              | 4      |         |
| -     | Kit, gaskets              |                 |                            | 96798508     | 1      |         |
| 184   | O-ring                    |                 | Diameter: 235              |              | 2      |         |
| -     | Kit, key                  |                 |                            | 96279873     | 1      |         |
| 40    | Parallel key              |                 | Designation: DS96 DIN 6885 |              | 1      |         |
|       |                           |                 | Dimension: 12X8X90         |              |        |         |
| -     | Kit, lubrication nipple   |                 |                            | 96796671     | 1      |         |
| 195.b | Grease nipple             |                 |                            |              | 2      |         |
| 195.a | Grease nipple             |                 |                            |              | 1      |         |
| -     | Kit, ND-end shield cpl.   |                 |                            | 96796669     | 1      |         |
| 32b   | Waved washer              |                 |                            |              | 1      |         |
| 156.a | End shield NDE            |                 |                            |              | 1      |         |
| 157   | O-ring                    |                 |                            |              | 1      |         |
| 159   | V-ring                    |                 |                            |              | 1      |         |
| 185.c | Nut                       |                 |                            |              | 4      |         |
| 185.a | Hex socket head cap screw |                 |                            |              | 4      |         |
| 195.b | Grease nipple             |                 |                            |              | 1      |         |
| -     | Kit, shaft seal           |                 |                            | 96843459     | 1      |         |
| 159.b | V-ring                    |                 |                            |              | 1      |         |
| 159   | V-ring                    |                 |                            |              | 1      |         |
| -     | Kit, terminal board       |                 |                            | 96796657     | 1      |         |
|       | Terminal connection       |                 |                            |              | 3      |         |
|       | Washer                    |                 |                            |              | 12     |         |
| 36    | Hex nut                   |                 |                            |              | 12     |         |
| 173   | Torx Screw                |                 |                            |              | 1      |         |
| 176.d | Terminal board            |                 |                            |              | 1      |         |
| 176   | Terminal board            |                 |                            |              | 1      |         |

| Pos  | Omschrijving                  | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|-----------------|------------------------|--------------|--------|---------|
| 177  | Torx Screw                    |                 |                        |              |        | 1       |
| -    | Kit, terminal box cover       |                 |                        | 96796659     | 1      |         |
| 164  | Terminal box cover            |                 |                        |              |        | 1       |
| 273a | Pan head thread forming screw |                 |                        |              |        | 4       |
| 49   | Impeller                      |                 |                        | 98517567     | 1      | pcs     |