

## Inventflow: Grundfos A-partner

### Grundfos NK 40-250/219 A2F2AE-SBQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/nk/grundfos-nk-40-250-219-a2f2ae-sbqqe>

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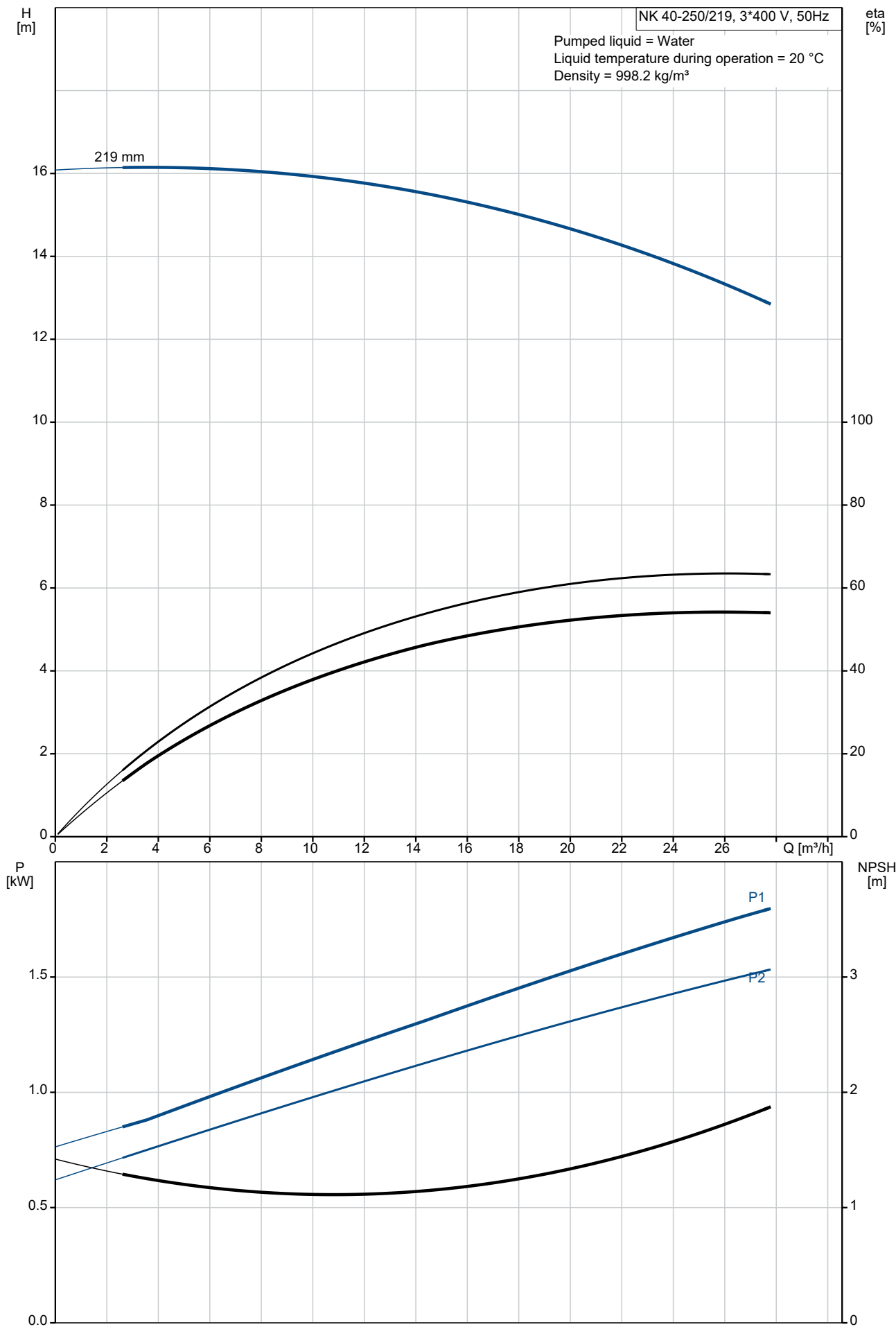
#### Datasheet



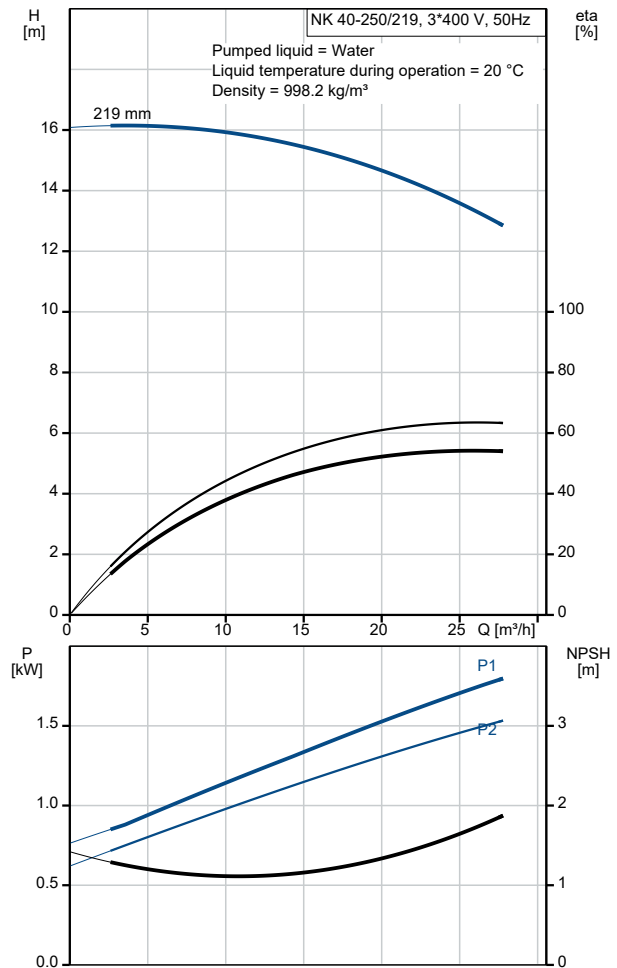
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 1    | <p><b>NK 40-250/219 A2F2AE-SBQQE</b></p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: <a href="#">98973581</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>Phase: Pump and 3-phase AC motor are mounted as separate units on a common baseplate and</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: 1445 rpm</p> <p>Rated flow: 25.21 m<sup>3</sup>/h</p> <p>Pump with motor: Y</p> <p>Rated head: 13.51 m</p> <p>Actual impeller diameter: 219 mm</p> <p>Nominal impeller diameter: 250</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<br/>EN-GJL-200</p> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Shaft: ASTM class 30<br>Stainless steel<br>EN 1.4301<br>AISI 304<br>Internal pump house coating: CED<br>Installation:<br>Maximum ambient temperature: 55 °C<br>Maximum operating pressure: 16 bar<br>Pipe connection standard: EN 1092-2<br>Type of inlet connection: DIN<br>Type of outlet connection: DIN<br>Size of inlet connection: DN 65<br>Size of outlet connection: DN 40<br>Pressure rating for connection: PN 16<br>Coupling type: Flexible w/spacer<br>Base frame design: EN/ISO<br>Grouting: N<br>Electrical data:<br>Motor type: SIEMENS<br>IE Efficiency class: IE3<br>Rated power - P2: 1.5 kW<br>Mains frequency: 50 Hz<br>Rated voltage: 3 x 220-240D/380-420Y V<br>Rated current: 5,78-5,23/3,31-2,99 A<br>Starting current: 720-720 %<br>Cos phi - power factor: 0.8<br>Rated speed: 1445 rpm<br>Efficiency: IE3 85,3%<br>Motor efficiency at full load: 85.3-85.3 %<br>Motor efficiency at 3/4 load: 86.0-86.0 %<br>Motor efficiency at 1/2 load: 85.2-85.2 %<br>Number of poles: 4<br>Enclosure class (IEC 34-5): IP55<br>Insulation class (IEC 85): F<br>Motor No: 98957730<br>Others:<br>Minimum efficiency index, MEI ≥: 0.70<br>Net weight: 143 kg<br>Gross weight: 163 kg<br>Shipping volume: 0.44 m³<br>Country of origin: HU<br>Custom tariff no.: 84137059 |

98973581 NK 40-250/219 A2F2AE-SBQQE 50 Hz

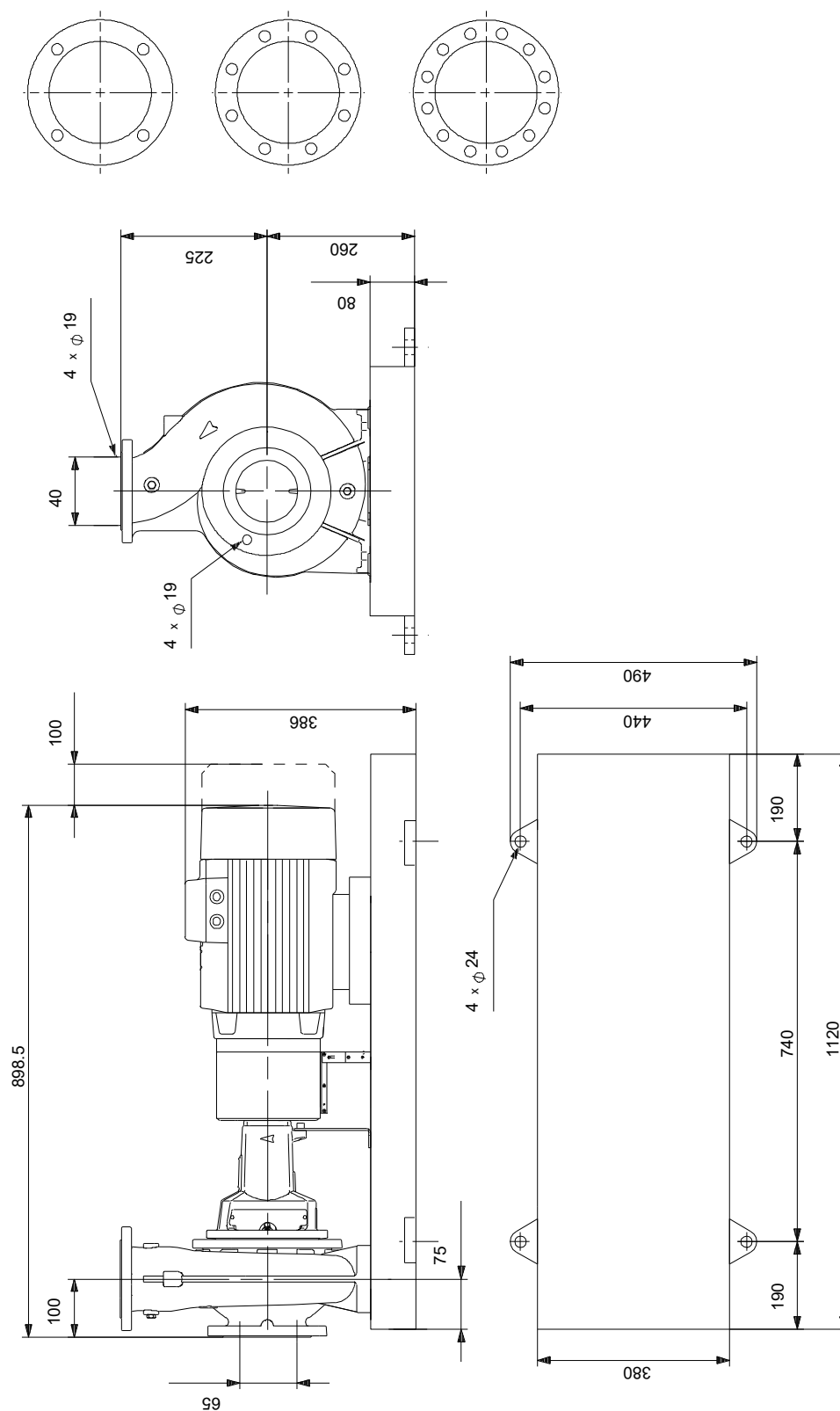


| Description                              | Value                         |
|------------------------------------------|-------------------------------|
| <b>General information:</b>              |                               |
| Product name:                            | NK 40-250/219<br>A2F2AE-SBQQE |
| Product No:                              | 98973581                      |
| EAN number:                              | 5712604508435                 |
| <b>Technical:</b>                        |                               |
| Pump speed on which pump data are based: | 1445 rpm                      |
| Rated flow:                              | 25.21 m³/h                    |
| Pump with motor:                         | Y                             |
| Rated head:                              | 13.51 m                       |
| Actual impeller diameter:                | 219 mm                        |
| Nominal impeller diameter:               | 250                           |
| Shaft diameter:                          | 24 mm                         |
| Code for shaft seal:                     | BQQE                          |
| Curve tolerance:                         | ISO9906:2012 3B2              |
| Pump version:                            | A2                            |
| Bearing design:                          | Standard                      |
| <b>Materials:</b>                        |                               |
| Pump housing:                            | Cast iron                     |
| Pump housing:                            | EN-GJL-250                    |
| Pump housing:                            | ASTM class 35                 |
| Wear ring:                               | Brass                         |
| Impeller:                                | Cast iron                     |
| Impeller:                                | EN-GJL-200                    |
| Impeller:                                | ASTM class 30                 |
| Shaft:                                   | Stainless steel               |
| Shaft:                                   | EN 1.4301                     |
| Shaft:                                   | AISI 304                      |
| Internal pump house coating:             | CED                           |
| Material code:                           | A                             |
| Code for rubber:                         | E                             |
| <b>Installation:</b>                     |                               |
| Maximum ambient temperature:             | 55 °C                         |
| Maximum operating pressure:              | 16 bar                        |
| Pipe connection standard:                | EN 1092-2                     |
| Type of inlet connection:                | DIN                           |
| Type of outlet connection:               | DIN                           |
| Size of inlet connection:                | DN 65                         |
| Size of outlet connection:               | DN 40                         |
| Pressure rating for connection:          | PN 16                         |
| Coupling type:                           | Flexible w/spacer             |
| Base frame design:                       | EN/ISO                        |
| Grouting:                                | N                             |
| Connect code:                            | F                             |
| <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:                        | 1.5 kW                        |
| Mains frequency:                         | 50 Hz                         |
| Rated voltage:                           | 3 x 220-240D/380-420Y V       |
| Rated current:                           | 5,78-5,23/3,31-2,99 A         |
| Starting current:                        | 720-720 %                     |
| Cos phi - power factor:                  | 0.8                           |
| Rated speed:                             | 1445 rpm                      |
| Efficiency:                              | IE3 85,3%                     |
| Motor efficiency at full load:           | 85.3-85.3 %                   |
| Motor efficiency at 3/4 load:            | 86.0-86.0 %                   |
| Motor efficiency at 1/2 load:            | 85.2-85.2 %                   |



| Description                      | Value               |
|----------------------------------|---------------------|
| Number of poles:                 | 4                   |
| Enclosure class (IEC 34-5):      | IP55                |
| Insulation class (IEC 85):       | F                   |
| Motor protec:                    | NONE                |
| Motor No:                        | 98957730            |
| <b>Controls:</b>                 |                     |
| Frequency converter:             | NONE                |
| Pressure sensor:                 | N                   |
| <b>Others:</b>                   |                     |
| Minimum efficiency index, MEI ≥: | 0.70                |
| Net weight:                      | 143 kg              |
| Gross weight:                    | 163 kg              |
| Shipping volume:                 | 0.44 m <sup>3</sup> |
| Country of origin:               | HU                  |
| Custom tariff no.:               | 84137059            |

# 98973581 NK 40-250/219 A2F2AE-SBQQE 50 Hz



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

**Spare parts NK 40-250/219, Product No. 98973581**  
**Produced After 2105 (production year and week number)**

| Pos   | Omschrijving                  | Opmerking tekst | Classificatie Gegevens                                | Onderdeelnr. | Aantal | Eenheid |
|-------|-------------------------------|-----------------|-------------------------------------------------------|--------------|--------|---------|
| -     | Kit, bearing                  |                 |                                                       | 96579598     | 1      | pcs     |
| 53a   | O-ring                        |                 | Diameter: 71,5<br>Material type: EPDM<br>Thickness: 3 |              | 1      |         |
| 53    | Ball bearing                  |                 |                                                       |              | 1      |         |
| 54a   | O-ring                        |                 | Diameter: 71,5<br>Material type: EPDM<br>Thickness: 3 |              | 1      |         |
| 54    | Ball bearing                  |                 |                                                       |              | 1      |         |
| 156a  | Bearing cover                 |                 |                                                       |              | 2      |         |
| 159f  | Retaining ring                |                 |                                                       |              | 2      |         |
| 159a  | V-ring                        |                 |                                                       |              | 2      |         |
| -     | Kit, bearing bracket          |                 |                                                       | 95131793     | 1      | pcs     |
| 7.k   | Hex socket head cap screw     |                 | Length (mm): 10<br>Thread: M6                         |              | 4      |         |
| 36.a  | Nut                           |                 | Thread: M10                                           |              | 6      |         |
| 76a   | Rivet                         |                 |                                                       |              | 2      |         |
| 86    | Bearing bracket               |                 |                                                       |              | 1      |         |
| 124d  | Shaft guard                   |                 |                                                       |              | 1      |         |
| 124d  | Shaft guard                   |                 |                                                       |              | 1      |         |
| 124.d | Pan head screw                |                 |                                                       |              | 4      |         |
| -     | Kit, coupling                 |                 |                                                       | 96579720     | 1      | pcs     |
| - 8   | Coupling cpl.                 |                 |                                                       |              | 1      |         |
| 89s   | Spacer ring                   |                 |                                                       |              | 1      |         |
| 89r   | Spacer sleeve                 |                 |                                                       |              | 1      |         |
| 89o   | Coupling part spacer side     |                 |                                                       |              | 1      |         |
| 89o   | Coupling part spacer side     |                 |                                                       |              | 6      |         |
| 89.p  | Coupling female               |                 |                                                       |              | 1      |         |
| 89.d  | Hex socket head cap screw     |                 | Length (mm): 16<br>Thread: M6                         |              | 6      |         |
| 89.b  | Socket set screw              |                 | Length (mm): 8<br>Thread: M6                          |              | 1      |         |
| 11.a  | Parallel key                  |                 | Dimension: 8X7X40                                     |              | 1      |         |
| -     | Kit, coupling guard           |                 |                                                       | 97945064     | 1      | pcs     |
| 7b    | Retainer for coupling guard   |                 |                                                       |              | 1      |         |
| - 7   | Coupling guard cpl.           |                 |                                                       |              | 1      |         |
| 7e    | Hex socket head cap screw     |                 |                                                       |              | 3      |         |
| 7c    | Spacer f/coupling guard       |                 |                                                       |              | 4      |         |
| 7     | Guard                         |                 |                                                       |              | 1      |         |
| 94    | Lock nut                      |                 | Thread: M6                                            |              | 2      |         |
| 186   | Hex socket head cap screw     |                 | Length (mm): 10<br>Thread: M6                         |              | 4      |         |
| -     | Kit, cover                    |                 |                                                       | 95131803     | 1      | pcs     |
| 18    | Plug                          |                 |                                                       |              | 1      |         |
| 36    | Nut                           |                 | Thread: M10                                           |              | 10     |         |
| 36    | Nut                           |                 | Thread: M10                                           |              | 6      |         |
| - 77  | Cover                         |                 |                                                       |              | 1      |         |
| 36    | Nut                           |                 | Thread: M10                                           |              | 6      |         |
| 77    | Cover                         |                 |                                                       |              | 1      |         |
| -     | Kit, foot for bearing bracket |                 |                                                       | 96909162     | 1      | pcs     |
|       | Nut                           |                 | Thread: M12                                           |              | 2      |         |
| 66    | Washer                        |                 |                                                       |              | 2      |         |
| 90c   | Foot                          |                 |                                                       |              | 1      |         |
| 90.e  | Hex head screw                |                 | Length (mm): 25<br>Thread: M12                        |              | 1      |         |
| 90.d  | Hex head bolt                 |                 | Length (mm): 100<br>Thread: M12                       |              | 2      |         |
| 90.d  | Hex head bolt                 |                 | Length (mm): 80<br>Thread: M12                        |              | 2      |         |

| Pos   | Omschrijving                   | Opmerking tekst | Classificatie Gegevens                                | Onderdeelnr. | Aantal | Eenheid |
|-------|--------------------------------|-----------------|-------------------------------------------------------|--------------|--------|---------|
| 90.d  | Hex head bolt                  |                 | Length (mm): 55<br>Thread: M12                        |              | 2      |         |
| 90.d  | Hex socket head cap screw      |                 |                                                       |              | 2      |         |
| 90.d  | Hex head screw                 |                 | Length (mm): 35MM<br>Thread: M12                      |              | 2      |         |
| 90.d  | Hex head screw                 |                 | Length (mm): 30<br>Thread: M12                        |              | 2      |         |
| -     | Kit, foot for coupling guard   |                 |                                                       | 96848478     | 1      | pcs     |
| 7h    | Hex head screw                 |                 | Length (mm): 16<br>Thread: M8                         |              | 2      |         |
| - 7.d | Foot cpl.                      |                 |                                                       |              | 1      |         |
| 7l    | Support f/coupling guard foot  |                 |                                                       |              | 1      |         |
| 7h    | Hex socket head cap screw      |                 |                                                       |              | 2      |         |
| 7d    | Foot for coupling guard        |                 |                                                       |              | 1      |         |
| 66    | Washer                         |                 |                                                       |              | 2      |         |
| -     | 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              |                 |                                                       | 95131712     | 1      | pcs     |
| - 6   | Pump housing                   |                 |                                                       |              | 1      |         |
| 26    | Staybolt                       |                 | Length (mm): 35<br>Thread: M10                        |              | 10     |         |
| 45    | Wear ring                      |                 |                                                       |              | 1      |         |
| 20    | Pipe plug                      |                 | Thread: R 3/8                                         |              | 2      |         |
| 36    | Nut                            |                 | Thread: M10                                           |              | 10     |         |
| -     | Kit, rubber blocks f. coupling |                 |                                                       | 96480015     | 1      | pcs     |
| 89    | Rubber blocks for coupling     |                 |                                                       |              | 6      |         |
| -     | Kit, shaft                     |                 |                                                       | 96039654     | 1      | pcs     |
| 11.a  | Parallel key                   |                 | Dimension: 8X7X40                                     |              | 1      |         |
| 11    | Parallel key                   |                 | Dimension: 6X6X35                                     |              | 1      |         |
| 51    | Shaft                          |                 |                                                       |              | 1      |         |
| 66a   | Spring lock washer             |                 |                                                       |              | 1      |         |
| 66    | Washer                         |                 |                                                       |              | 1      |         |
| 67    | Nut                            |                 | Thread: M14                                           |              | 1      |         |
| -     | Kit, shaft cover               |                 |                                                       | 96809954     | 1      | pcs     |
| 124d  | Shaft guard                    |                 |                                                       |              | 1      |         |
| 124d  | Shaft guard                    |                 |                                                       |              | 1      |         |
| 124.d | Pan head screw                 |                 |                                                       |              | 4      |         |
| -     | Spare, wear ring               |                 |                                                       | 96810100     | 1      | pcs     |
| 45    | Wear ring                      |                 |                                                       |              | 1      |         |
| -     | Spare, wear ring               |                 |                                                       | 96810141     | 1      | pcs     |
| 45    | Wear ring                      |                 |                                                       |              | 1      |         |
| -     | V-ring                         |                 |                                                       | 96591314     | 1      | pcs     |
| 159a  | V-ring                         |                 |                                                       |              | 1      |         |
| -     | Motor                          |                 |                                                       |              | 1      | pcs     |
| 156   | Spare, motor fan               |                 |                                                       | 98728949     | 1      |         |
| 151   | Spare, motor fan cover         |                 |                                                       | 98728862     | 1      |         |
| 176   | Spare, Terminal board          |                 |                                                       | 98850910     | 1      |         |
| 7k    | Hex socket head cap screw      |                 | Length (mm): 10<br>Thread: M6                         | 97506946     | 4      | pcs     |
| 28    | Hex head screw                 |                 | Length (mm): 25<br>Thread: M12                        | 99522923     | 1      | pcs     |
| 36    | Nut                            |                 | Thread: M10                                           | 96620484     | 10     | pcs     |
| 49    | Impeller                       |                 |                                                       | 99688078     | 1      | pcs     |
| 53.b  | Spacer ring                    |                 |                                                       | 96938908     | 1      | pcs     |
| 54a   | O-ring                         |                 | Diameter: 71,5<br>Material type: EPDM<br>Thickness: 3 | 97511807     | 2      | pcs     |
| 67    | Nut                            |                 | Thread: M14                                           | 92526531     | 1      | pcs     |
| 72a   | O-ring                         |                 | Diameter: 253,6<br>Material type: EPDM                | 92547618     | 1      | pcs     |

| Pos  | Omschrijving   | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|----------------|-----------------|------------------------|--------------|--------|---------|
| 72a  | O-ring         |                 | Thickness: 3,53        | 92526509     | 1      | pcs     |
|      |                |                 | Diameter: 253,6        |              |        |         |
|      |                |                 | Material type: EPDM    |              |        |         |
| 72a  | O-ring         |                 | Thickness: 3,53        | 97511826     | 1      | pcs     |
|      |                |                 | Diameter: 253,6        |              |        |         |
|      |                |                 | Material type: EPDM    |              |        |         |
| 72a  | O-ring         |                 | Thickness: 3,53        | 97757672     | 1      | pcs     |
|      |                |                 | Diameter: 253,6        |              |        |         |
|      |                |                 | Material type: EPDM    |              |        |         |
| 77a  | Pan head screw |                 | Thickness: 3,53        | 99266550     | 4      | pcs     |
|      |                |                 |                        |              |        |         |
| 156a | Bearing cover  |                 |                        | 97506936     | 2      | pcs     |