

## Inventflow: Grundfos A-partner

### Grundfos TP 50-430/2 A-F-A-BQQE-LX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tp/grundfos-tp-50-430-2-a-f-a-bqqe-lx1>

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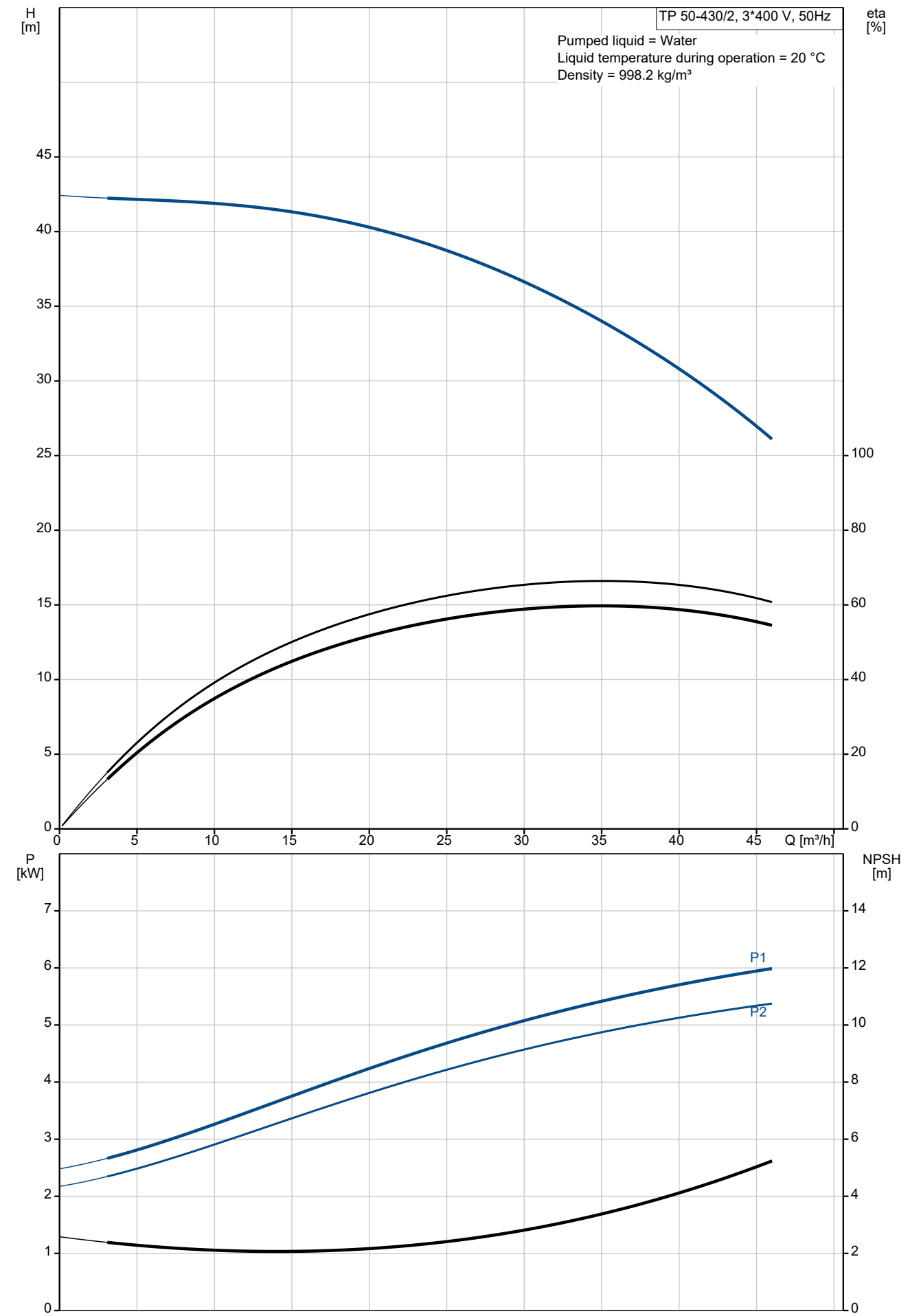
#### Datasheet



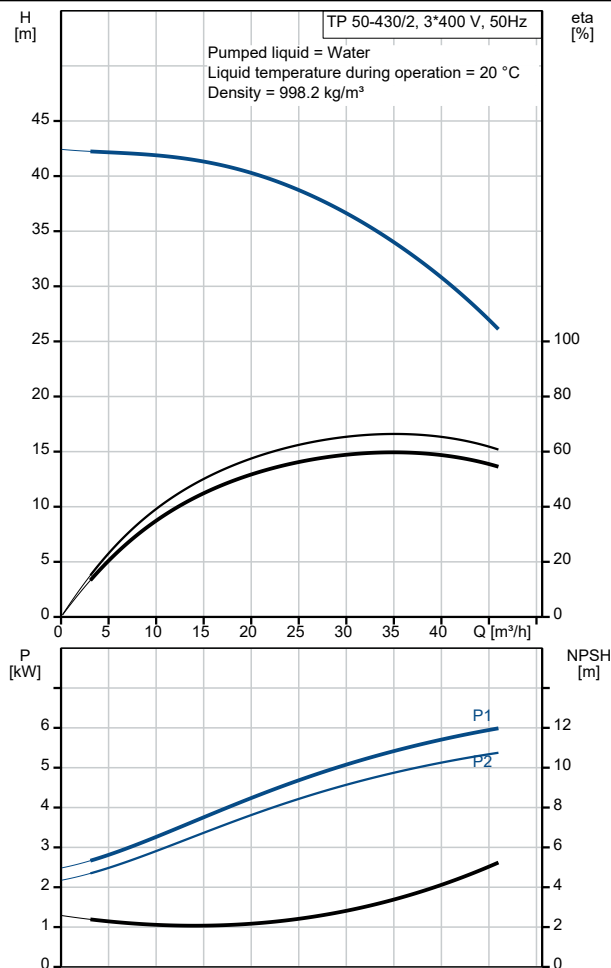
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>TP 50-430/2 A-F-A-BQQE-LX1</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: <a href="#">96087198</a></p> <p>Single-stage centrifugal volute in-line single-head pump:</p> <ul style="list-style-type: none"> <li>- wear rings made of bronze</li> <li>- cataphoresis treatment</li> <li>- stable sleeve coupling</li> <li>- top-pull-out principle for easy maintenance</li> <li>- optimized hydraulics</li> <li>- in-line design with opposite suction and discharge ports enabling mounting in pipework or on a concrete foundation</li> <li>- corrosion resistant maintenance-free mechanical shaft seal.</li> </ul> <p>Phase: The motor is a 3-phase AC motor.</p> <p>Controls:</p> <p>Frequency converter: NONE</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: 2920 rpm</p> <p>Rated flow: 35.1 m<sup>3</sup>/h</p> <p>Rated head: 33.9 m</p> <p>Actual impeller diameter: 177 mm</p> <p>Code for shaft seal: BQQE</p> <p>Curve tolerance: ISO9906:2012 3B2</p> <p>Materials:</p> <p>Pump housing: Cast iron<br/>EN-GJL-250<br/>ASTM class 35</p> <p>Impeller: Cast iron<br/>EN-GJL-200<br/>ASTM class 30</p> <p>Installation:</p> <p>Range of ambient temperature: -30 .. 60 °C</p> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>Maximum operating pressure: 16 bar</p> <p>Max pressure at stated temp: 16 bar / 120 °C</p> <p>Type of connection: DIN</p> <p>Size of connection: DN 50</p> <p>Pressure rating for connection: PN 16</p> <p>Port-to-port length: 340 mm</p> <p>Flange size for motor: FF265</p> <p>Electrical data:</p> <p>Motor type: 132SC</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 5.5 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-415D V</p> <p>Rated current: 11 A</p> <p>Starting current: 1080-1180 %</p> <p>Cos phi - power factor: 0.87-0.82</p> <p>Rated speed: 2920-2940 rpm</p> <p>Efficiency: IE3 89,2%</p> <p>Motor efficiency at full load: 89.2 %</p> <p>Motor efficiency at 3/4 load: 90.0 %</p> <p>Motor efficiency at 1/2 load: 89.6 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 87322229</p> <p>Others:</p> <p>Minimum efficiency index, MEI ≥: 0.70</p> <p>Net weight: 85 kg</p> <p>Gross weight: 97 kg</p> <p>Shipping volume: 0.22 m³</p> <p>Danish VVS No.: 381703430</p> <p>Finnish LVI No.: 4616061</p> <p>Country of origin: HU</p> <p>Custom tariff no.: 84137051</p> |

96087198 TP 50-430/2 A-F-A-BQQE-LX1 50 Hz

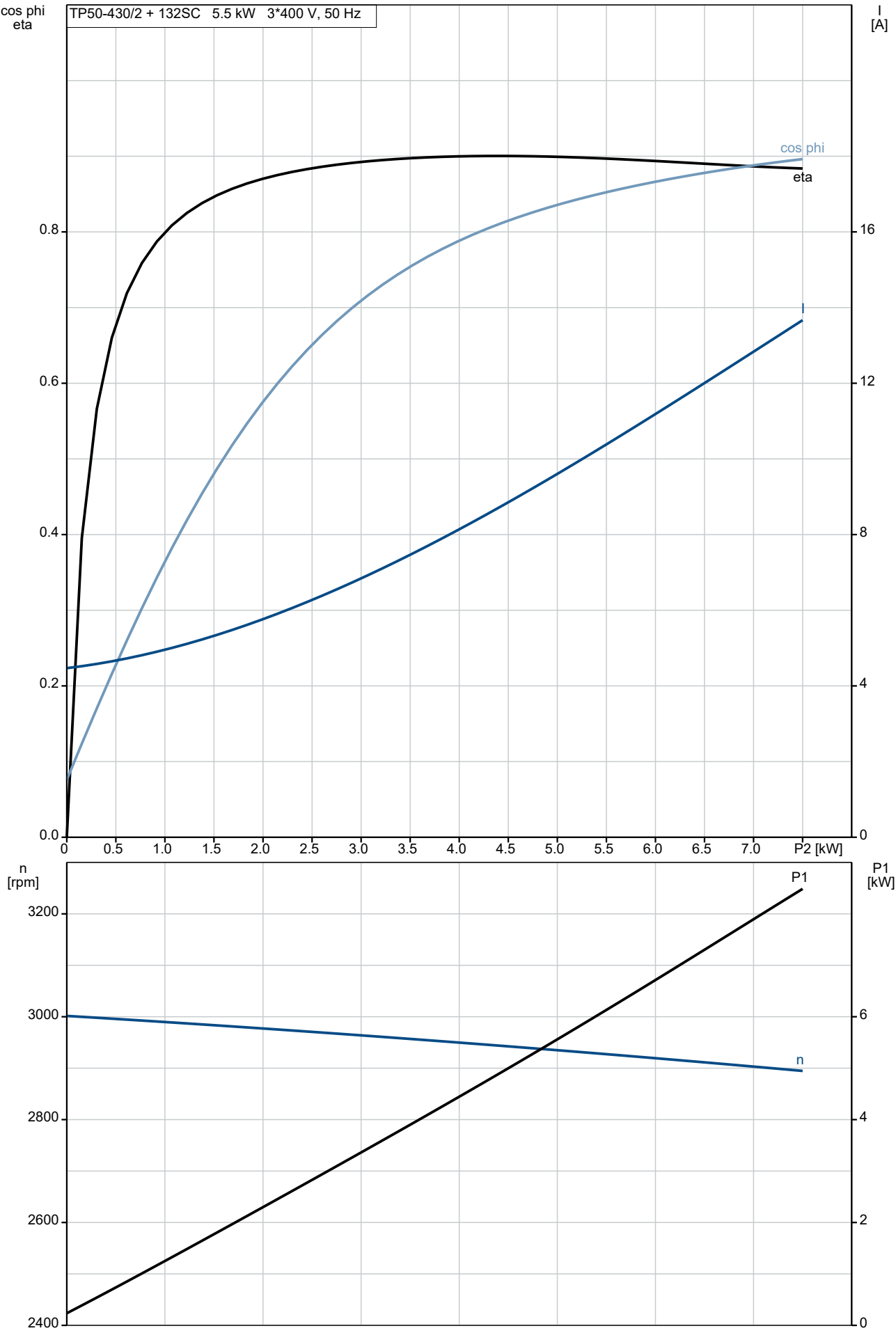


| Description                              | Value                         |
|------------------------------------------|-------------------------------|
| <b>General information:</b>              |                               |
| Product name:                            | TP 50-430/2<br>A-F-A-BQQE-LX1 |
| Product No:                              | 96087198                      |
| EAN number:                              | 5700395311648                 |
| <b>Technical:</b>                        |                               |
| Pump speed on which pump data are based: | 2920 rpm                      |
| Rated flow:                              | 35.1 m³/h                     |
| Rated head:                              | 33.9 m                        |
| Maximum head:                            | 430 dm                        |
| Actual impeller diameter:                | 177 mm                        |
| Code for shaft seal:                     | BQQE                          |
| Curve tolerance:                         | ISO9906:2012 3B2              |
| Pump version:                            | A                             |
| <b>Materials:</b>                        |                               |
| Pump housing:                            | Cast iron                     |
| Pump housing:                            | EN-GJL-250                    |
| Pump housing:                            | ASTM class 35                 |
| Impeller:                                | Cast iron                     |
| Impeller:                                | EN-GJL-200                    |
| Impeller:                                | ASTM class 30                 |
| Material code:                           | A                             |
| <b>Installation:</b>                     |                               |
| Range of ambient temperature:            | -30 .. 60 °C                  |
| Maximum operating pressure:              | 16 bar                        |
| Max pressure at stated temp:             | 16 bar / 120 °C               |
| Type of connection:                      | DIN                           |
| Size of connection:                      | DN 50                         |
| Pressure rating for connection:          | PN 16                         |
| Port-to-port length:                     | 340 mm                        |
| Flange size for motor:                   | FF265                         |
| 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:                              | 132SC                         |
| IE Efficiency class:                     | IE3                           |
| Rated power - P2:                        | 5.5 kW                        |
| Mains frequency:                         | 50 Hz                         |
| Rated voltage:                           | 3 x 380-415D V                |
| Rated current:                           | 11 A                          |
| Starting current:                        | 1080-1180 %                   |
| Cos phi - power factor:                  | 0.87-0.82                     |
| Rated speed:                             | 2920-2940 rpm                 |
| Efficiency:                              | IE3 89,2%                     |
| Motor efficiency at full load:           | 89.2 %                        |
| Motor efficiency at 3/4 load:            | 90.0 %                        |
| Motor efficiency at 1/2 load:            | 89.6 %                        |
| Number of poles:                         | 2                             |
| Enclosure class (IEC 34-5):              | 55 Dust/Jetting               |
| Insulation class (IEC 85):               | F                             |
| Motor protec:                            | PTC                           |
| Motor No:                                | 87322229                      |
| <b>Controls:</b>                         |                               |
| Frequency converter:                     | NONE                          |
| <b>Others:</b>                           |                               |
| Minimum efficiency index, MEI ≥:         | 0.70                          |
| Net weight:                              | 85 kg                         |
| Gross weight:                            | 97 kg                         |
| Shipping volume:                         | 0.22 m³                       |

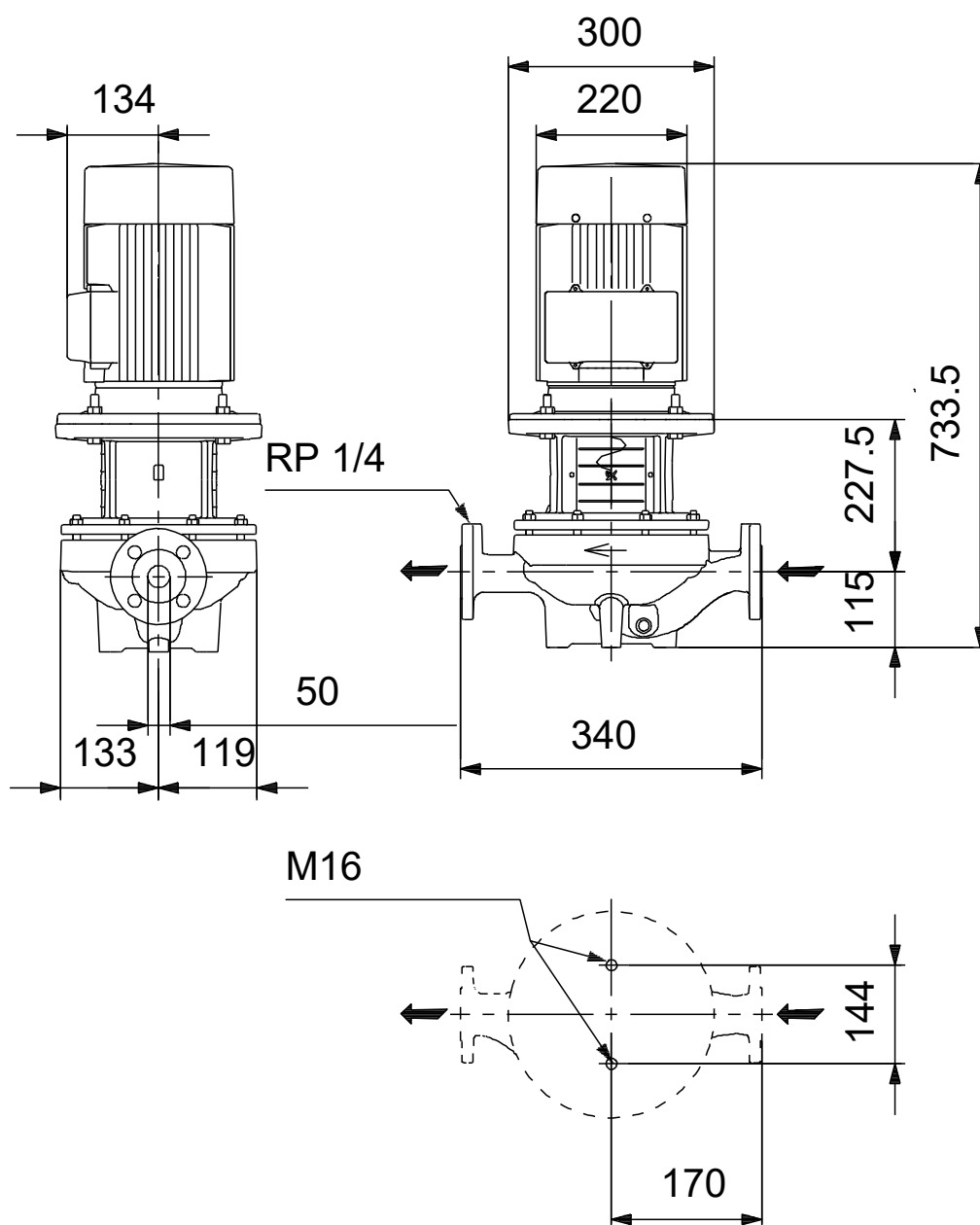


| Description        | Value     |
|--------------------|-----------|
| Danish VVS No.:    | 381703430 |
| Finnish LVI No.:   | 4616061   |
| Country of origin: | HU        |
| Custom tariff no.: | 84137051  |

96087198 TP 50-430/2 A-F-A-BQQE-LX1 50 Hz



# 96087198 TP 50-430/2 A-F-A-BQQE-LX1 50 Hz



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

**Spare parts TP 50-430/2, Product No. 96087198**  
**Produced After 1101 (production year and week number)**

| Pos   | Omschrijving                  | Opmerking tekst | Classificatie Gegevens      | Onderdeelnr. | Aantal | Eenheid |
|-------|-------------------------------|-----------------|-----------------------------|--------------|--------|---------|
| -     | Motor                         |                 |                             |              | 1      | pcs     |
| -     | Kit, bearing cpl.             |                 |                             | 96279797     | 1      |         |
| 54    | Ball bearing                  |                 |                             |              | 1      |         |
| 111   | Ball bearing                  |                 | Designation: 6206.2Z.C3.SYN |              | 1      |         |
| 157   | O-ring                        |                 | Diameter: 62                |              | 1      |         |
|       |                               |                 | Material type: NBR          |              |        |         |
|       |                               |                 | Thickness: 3                |              |        |         |
| 158   | Waved washer                  |                 |                             |              | 1      |         |
| 187   | Retaining ring                |                 |                             |              | 1      |         |
| 188   | Retaining ring                |                 |                             |              | 1      |         |
| -     | Kit, end shield               |                 |                             | 96279877     | 1      |         |
| 106   | O-ring                        |                 | Diameter: 62                |              | 1      |         |
|       |                               |                 | Material type: NBR          |              |        |         |
|       |                               |                 | Thickness: 3                |              |        |         |
| 156a  | End shield                    |                 |                             |              | 1      |         |
| 158   | Waved washer                  |                 |                             |              | 1      |         |
| 159a  | Seal ring                     |                 |                             |              | 1      |         |
| -     | Kit, eyebolt                  |                 |                             | 96279825     | 1      |         |
| 189   | Eyebolt                       |                 |                             |              | 1      |         |
| -     | Kit, fan                      |                 |                             | 96279758     | 1      |         |
| 156   | Fan                           |                 |                             |              | 1      |         |
| 159c  | Seal ring                     |                 |                             |              | 1      |         |
| 159a  | Seal ring                     |                 |                             |              | 1      |         |
| -     | Kit, fan cover                |                 |                             | 96279756     | 1      |         |
| 151b  | Label                         |                 |                             |              | 1      |         |
| 151   | Fan cover                     |                 |                             |              | 1      |         |
| 152   | Pan head thread forming screw |                 |                             |              | 4      |         |
| -     | Kit, flange                   |                 |                             | 96279784     | 1      |         |
| 156b  | Flange                        |                 |                             |              | 1      |         |
| 159.c | Seal ring                     |                 |                             |              | 1      |         |
| 186   | Drain plug                    |                 |                             |              | 3      |         |
| -     | Kit, key                      |                 |                             | 96279823     | 1      |         |
| 40    | Parallel key                  |                 |                             |              | 1      |         |
| -     | Kit, retaining ring           |                 |                             | 96279801     | 1      |         |
| 187   | Retaining ring                |                 |                             |              | 1      |         |
| 188   | Retaining ring                |                 |                             |              | 1      |         |
| -     | Kit, shaft seal               |                 |                             | 96279764     | 1      |         |
| 159d  | Seal ring                     |                 |                             |              | 1      |         |
| 159c  | Seal ring                     |                 |                             |              | 1      |         |
| -     | Kit, staybolts                |                 |                             | 96279793     | 1      |         |
| 181   | Pan head staybolt             |                 |                             |              | 4      |         |
| -     | Kit, terminal board           |                 |                             | 96279769     | 1      |         |
|       | Bracket cpl.                  |                 |                             |              | 1      |         |
| 163   | Hex socket head screw         |                 |                             |              | 1      |         |
| 173a  | Base                          |                 |                             |              | 1      |         |
| 173   | Pan head thread forming screw |                 | Designation: COMBI TORX T25 |              | 1      |         |
| 176   | Slot cheese head screw        |                 | Designation: COMBI TORX T25 |              | 6      |         |
|       |                               |                 | Length (mm): 10             |              |        |         |
|       |                               |                 | Thread: M5                  |              |        |         |

| Pos  | Omschrijving                  | Opmerking tekst     | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|---------------------|------------------------|--------------|--------|---------|
| 176  | Terminal                      |                     |                        |              | 1      |         |
| 176  | Connecting piece              |                     |                        |              | 3      |         |
| 176  | Wire clamp                    |                     |                        |              | 3      |         |
| 176  | Terminal board                |                     |                        |              | 1      |         |
| 177  | Pan head screw                |                     |                        |              | 1      |         |
| -    | Kit, terminal box             |                     |                        | 96279772     | 1      |         |
| 164  | Terminal box cover w/gasket   |                     |                        |              | 1      |         |
| 166  | Pan head thread forming screw |                     |                        |              | 4      |         |
| 1a   | Motor stool                   |                     |                        | 98996940     | 1      | pcs     |
| 19   | Plug                          |                     |                        | 98163028     | 2      | pcs     |
| 49   | Impeller                      | Outer diameter: 177 |                        | 96794866     | 1      | pcs     |
| - 50 | Pump housing cpl.             |                     |                        | 98925091     | 1      | pcs     |
| 36   | Nut                           | Thread: M10         |                        | 96620484     | 6      |         |
| 67   | Nut                           | Thread: M14         |                        | 92526531     | 1      | pcs     |
| 72a  | O-ring                        |                     |                        | 92547662     | 1      | pcs     |
| 72a  | O-ring                        |                     |                        | 92526508     | 1      | pcs     |
| 72a  | O-ring                        |                     |                        | 97511824     | 1      | pcs     |
| 72a  | O-ring                        |                     |                        | 99756265     | 1      | pcs     |
| 77a  | Pan head screw                |                     |                        | 99266550     | 4      | pcs     |
| 105  | Shaft seal                    |                     |                        | 99380916     | 1      | pcs     |
| 105  | Shaft seal                    |                     |                        | 99884645     | 1      | pcs     |