

## Inventflow: Grundfos A-partner

### Grundfos TP 40-120/2 A-F-Z-BQQE-DX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tp/grundfos-tp-40-120-2-a-f-z-bqqe-dx1>

#### Contact

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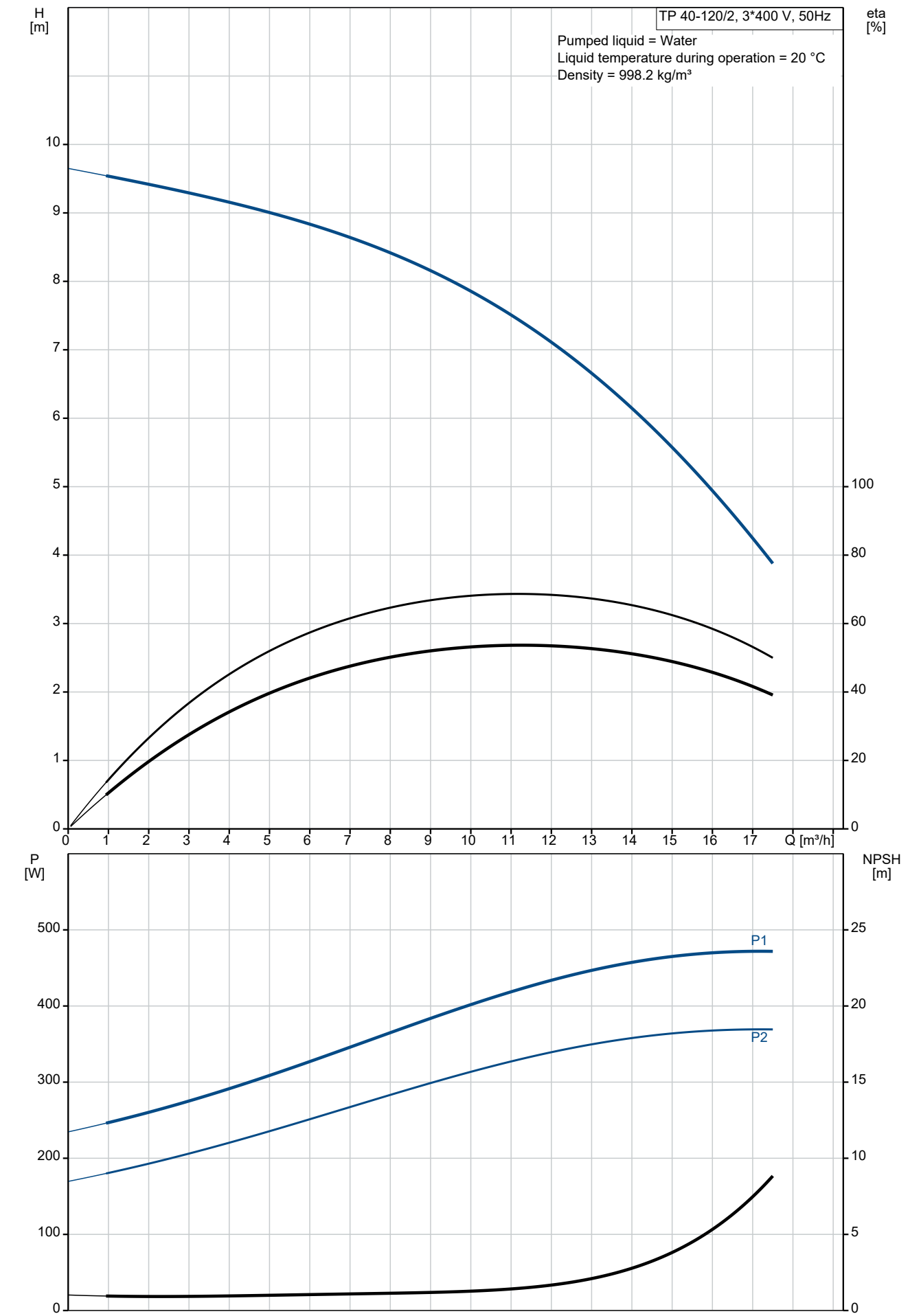
#### Datasheet



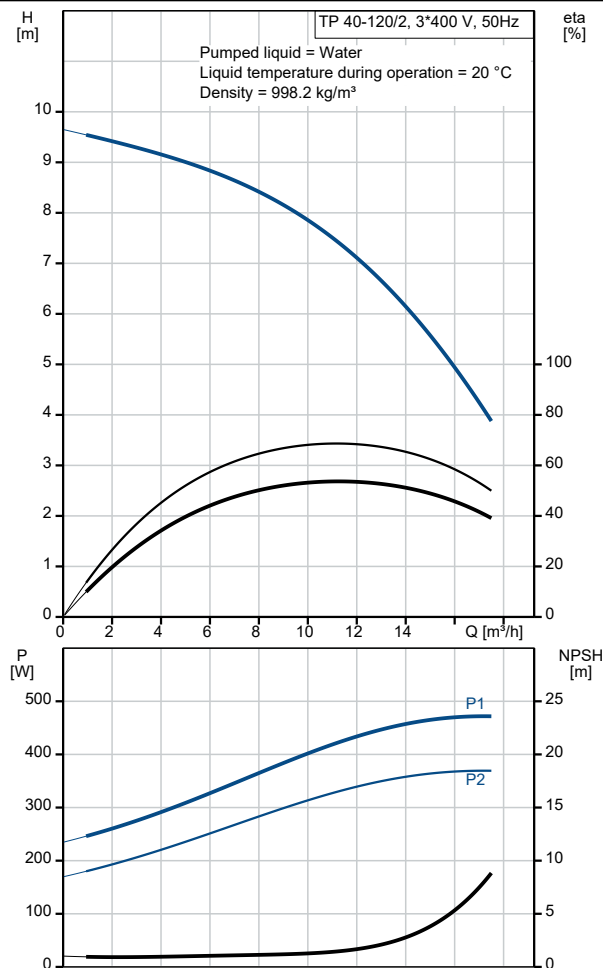
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>TP 40-120/2 A-F-Z-BQQE-DX1</b></p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: <a href="#">97822677</a></p> <p>Single-stage centrifugal volute in-line single-head pump:</p> <ul style="list-style-type: none"> <li>- neck rings and impeller made of stainless steel</li> <li>- cataphoresis treatment</li> <li>- shell 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/m³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 2850 rpm</p> <p>Rated flow: 11.4 m³/h</p> <p>Rated head: 7.4 m</p> <p>Actual impeller diameter: 86 mm</p> <p>Code for shaft seal: BQQE</p> <p>Curve tolerance: ISO9906:2012 3B2</p> <p>Materials:</p> <p>Pump housing: Bronze<br/>CuSn10<br/>ASTM B505</p> <p>Impeller: Stainless steel<br/>EN 1.4301<br/>AISI 304</p> <p>Installation:</p> <p>Range of ambient temperature: -30 .. 60 °C</p> <p>Maximum operating pressure: 10 bar</p> <p>Max pressure at stated temp: 10 bar / 120 °C</p> <p>Type of connection: DIN</p> <p>Size of connection: DN 40</p> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Pressure rating for connection: PN 6/10<br>Port-to-port length: 250 mm<br>Flange size for motor: FT85<br><br>Electrical data:<br>Motor type: 71A<br>IE Efficiency class: IE3<br>Rated power - P2: 0.37 kW<br>Mains frequency: 50 Hz<br>Rated voltage: 3 x 220-240D/380-415Y V<br>Rated current: 1.74/1.00 A<br>Starting current: 490-530 %<br>Cos phi - power factor: 0.80-0.70<br>Rated speed: 2850-2880 rpm<br>Efficiency: IE3 73,8%<br>Motor efficiency at full load: 73.8 %<br>Motor efficiency at 3/4 load: 79.0 %<br>Motor efficiency at 1/2 load: 75.5 %<br>Number of poles: 2<br>Enclosure class (IEC 34-5): 55 Dust/Jetting<br>Insulation class (IEC 85): F<br>Motor No: 85805102<br><br>Others:<br>Minimum efficiency index, MEI $\geq$ : 0.70<br>Net weight: 24.2 kg<br>Gross weight: 27.7 kg<br>Shipping volume: 0.08 m <sup>3</sup><br>Danish VVS No.: 381882120<br>Country of origin: HU<br>Custom tariff no.: 84137051 |

97822677 TP 40-120/2 A-F-Z-BQQE-DX1 50 Hz

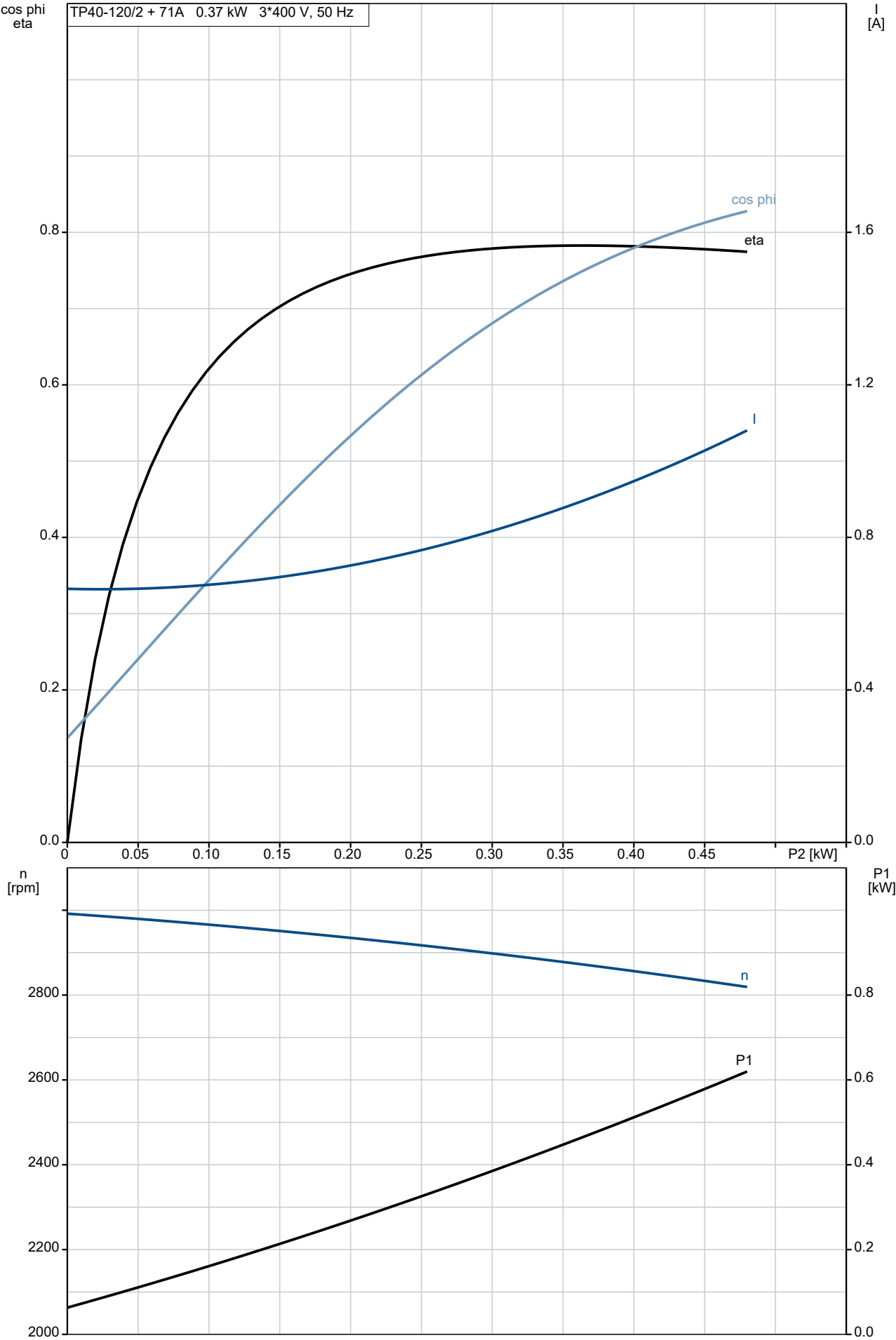


| Description                              | Value                         |
|------------------------------------------|-------------------------------|
| <b>General information:</b>              |                               |
| Product name:                            | TP 40-120/2<br>A-F-Z-BQQE-DX1 |
| Product No:                              | 97822677                      |
| EAN number:                              | 5710625203650                 |
| <b>Technical:</b>                        |                               |
| Pump speed on which pump data are based: | 2850 rpm                      |
| Rated flow:                              | 11.4 m³/h                     |
| Rated head:                              | 7.4 m                         |
| Maximum head:                            | 120 dm                        |
| Actual impeller diameter:                | 86 mm                         |
| Code for shaft seal:                     | BQQE                          |
| Curve tolerance:                         | ISO9906:2012 3B2              |
| Pump version:                            | A                             |
| <b>Materials:</b>                        |                               |
| Pump housing:                            | Bronze                        |
| Pump housing:                            | CuSn10                        |
| Pump housing:                            | ASTM B505                     |
| Impeller:                                | Stainless steel               |
| Impeller:                                | EN 1.4301                     |
| Impeller:                                | AISI 304                      |
| Material code:                           | Z                             |
| <b>Installation:</b>                     |                               |
| Range of ambient temperature:            | -30 .. 60 °C                  |
| Maximum operating pressure:              | 10 bar                        |
| Max pressure at stated temp:             | 10 bar / 120 °C               |
| Type of connection:                      | DIN                           |
| Size of connection:                      | DN 40                         |
| Pressure rating for connection:          | PN 6/10                       |
| Port-to-port length:                     | 250 mm                        |
| Flange size for motor:                   | FT85                          |
| 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:                              | 71A                           |
| IE Efficiency class:                     | IE3                           |
| Rated power - P2:                        | 0.37 kW                       |
| Mains frequency:                         | 50 Hz                         |
| Rated voltage:                           | 3 x 220-240D/380-415Y V       |
| Rated current:                           | 1.74/1.00 A                   |
| Starting current:                        | 490-530 %                     |
| Cos phi - power factor:                  | 0.80-0.70                     |
| Rated speed:                             | 2850-2880 rpm                 |
| Efficiency:                              | IE3 73,8%                     |
| Motor efficiency at full load:           | 73.8 %                        |
| Motor efficiency at 3/4 load:            | 79.0 %                        |
| Motor efficiency at 1/2 load:            | 75.5 %                        |
| Number of poles:                         | 2                             |
| Enclosure class (IEC 34-5):              | 55 Dust/Jetting               |
| Insulation class (IEC 85):               | F                             |
| Motor protec:                            | NONE                          |
| Motor No:                                | 85805102                      |
| <b>Controls:</b>                         |                               |
| Frequency converter:                     | NONE                          |
| <b>Others:</b>                           |                               |
| Minimum efficiency index, MEI ≥:         | 0.70                          |
| Net weight:                              | 24.2 kg                       |
| Gross weight:                            | 27.7 kg                       |
| Shipping volume:                         | 0.08 m³                       |

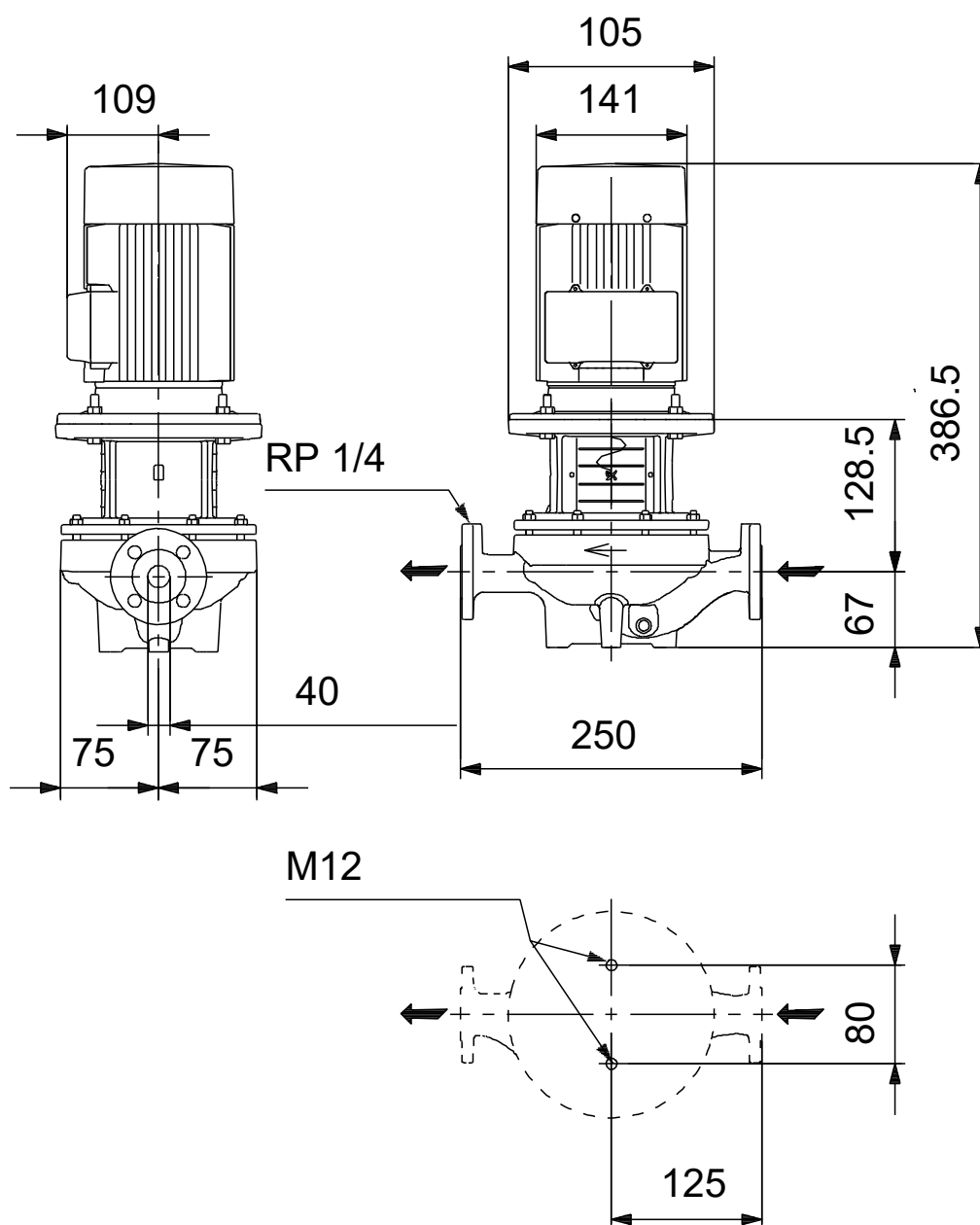


| Description        | Value     |
|--------------------|-----------|
| Danish VVS No.:    | 381882120 |
| Country of origin: | HU        |
| Custom tariff no.: | 84137051  |

97822677 TP 40-120/2 A-F-Z-BQQE-DX1 50 Hz



# 97822677 TP 40-120/2 A-F-Z-BQQE-DX1 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 40-120/2, Product No. 97822677**  
**Produced After 1809 (production year and week number)**

| Pos  | Omschrijving                  | Opmerking tekst | Classificatie Gegevens      | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|-----------------|-----------------------------|--------------|--------|---------|
| -    | Kit, coupling                 |                 |                             | 00339114     | 1      | pcs     |
| 9    | Hex socket head cap screw     |                 | Designation: DIN 912        |              | 4      |         |
|      |                               |                 | Length (mm): 20             |              |        |         |
|      |                               |                 | Thread: M6                  |              |        |         |
| 10a  | Coupling half                 |                 |                             |              | 2      |         |
| 10   | Shaft pin                     |                 | Diameter: 5                 |              | 1      |         |
|      |                               |                 | Length (mm): 26             |              |        |         |
| -    | Kit, shaft seal               |                 |                             | 98313337     | 1      | pcs     |
|      | Plug                          |                 |                             |              | 2      |         |
| 72a  | O-ring                        |                 | Diameter: 154               |              | 1      |         |
|      |                               |                 | Material type: EPDM         |              |        |         |
|      |                               |                 | Thickness: 4                |              |        |         |
| 72a  | O-ring                        |                 |                             |              | 1      |         |
| 105  | Shaft seal                    |                 |                             |              | 1      |         |
| -    | Shaft w/impeller cpl.         |                 |                             | 98313253     | 1      | pcs     |
| 48   | Split cone nut                |                 |                             | 96547614     | 1      |         |
| 49b  | Split cone                    |                 |                             | 96547797     | 1      |         |
| 49   | Impeller cpl.                 |                 |                             | 96547682     | 1      |         |
| 51   | Pump shaft                    |                 |                             | 96547793     | 1      |         |
| -    | Pump housing cpl.             |                 |                             | 98313158     | 1      | pcs     |
| 65   | Retainer for neck ring        |                 |                             | 96591263     | 1      |         |
| -    | Motor                         |                 |                             | 85900331     | 1      | pcs     |
| -    | Kit, Ball bearing             |                 |                             | 96279730     | 1      |         |
| 111  | Ball bearing                  |                 | Designation: 6204.2Z.C3.SYN |              | 1      |         |
| 111  | Ball bearing                  |                 |                             |              | 1      |         |
| 157  | O-ring                        |                 | Diameter: 32                |              | 1      |         |
|      |                               |                 | Material type: NBR          |              |        |         |
|      |                               |                 | Thickness: 2                |              |        |         |
| 158  | Waved washer                  |                 |                             |              | 1      |         |
| -    | Kit, fan                      |                 |                             | 96279721     | 1      |         |
| 156  | Fan                           |                 |                             |              | 1      |         |
| 159a | Seal ring                     |                 |                             |              | 1      |         |
| -    | Kit, fan cover                |                 |                             | 96279720     | 1      |         |
| 151  | Fan cover                     |                 |                             |              | 1      |         |
| 152  | Pan head thread forming screw |                 |                             |              | 2      |         |
| -    | Kit, flange                   |                 |                             | 96279727     | 1      |         |
| 156b | Flange                        |                 |                             |              | 1      |         |
| 159c | Seal ring                     |                 |                             |              | 1      |         |
| 184  | Gasket                        |                 | Internal diameter: 114,80   |              | 1      |         |
|      |                               |                 | Outer diameter: 121,20      |              |        |         |
|      |                               |                 | Thickness: 0,25             |              |        |         |
| 185  | Pan head screw                |                 |                             |              | 4      |         |
| 186  | Drain plug                    |                 |                             |              | 1      |         |
| -    | Kit, shaft seal               |                 |                             | 96279722     | 1      |         |
| 159c | Seal ring                     |                 |                             |              | 1      |         |
| 159a | Seal ring                     |                 |                             |              | 1      |         |
| -    | Kit, terminal box             |                 |                             | 96279724     | 1      |         |
| 152  | Pan head thread forming screw |                 |                             |              | 4      |         |
| 164a | Terminal box w/gasket         |                 |                             |              | 1      |         |
| 164  | Terminal box cover w/gasket   |                 |                             |              | 1      |         |
| 173a | Washer                        |                 | Designation: SQUARE         |              | 1      |         |
|      |                               |                 | Internal diameter: 5,5      |              |        |         |
|      |                               |                 | Outer diameter: 10X10       |              |        |         |

| Pos  | Omschrijving                  | Opmerking tekst | Classificatie Gegevens      | Onderdeelnr. | Aantal | Eenheid |
|------|-------------------------------|-----------------|-----------------------------|--------------|--------|---------|
|      |                               |                 | Thickness: 1,5              |              |        |         |
| 173a | Base                          |                 |                             |              | 1      |         |
| 173  | Pan head thread forming screw |                 | Designation: COMBI TORX T25 |              | 1      |         |
| 173  | Pan head screw                |                 | Designation: DIN 7985       |              | 1      |         |
| 175  | Pan head screw                |                 | Designation: DIN 7985       |              | 2      |         |
| 176  | Terminal cpl.                 |                 |                             |              | 1      |         |
| 7a   | Pan head screw                |                 |                             | 96536492     | 4      | pcs     |
| 7    | Coupling guard                |                 |                             | 96590448     | 2      | pcs     |
| 10   | Shaft pin                     |                 | Diameter: 5                 | 96536473     | 1      | pcs     |
|      |                               |                 | Length (mm): 26             |              |        |         |
| 10   | Shaft pin                     |                 | Diameter: 5                 | 96587588     | 1      | pcs     |
|      |                               |                 | Length (mm): 26             |              |        |         |
| 18   | Plug                          |                 |                             | 96620482     | 1      | pcs     |
| 18   | Plug                          |                 |                             | 98164277     | 1      | pcs     |
| 19   | Pipe plug                     |                 | Thread: R 1/4               | 98163051     | 2      | pcs     |
| 26   | Hex head screw                |                 | Length (mm): 25             | 99335941     | 4      | pcs     |
|      |                               |                 | Thread: M8                  |              |        |         |
| 72a  | O-ring                        |                 |                             | 98163016     | 1      | pcs     |