# Inventflow: Grundfos A-partner

## Grundfos TP 80-270/4 A-F-A-BQQE-MX3

Find the pump here:
https://inventflow.nl/en/pompenfilter/tp/grundfos-tp-80-270-4-a-f-a-bqqe-mx3

### Contact

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### Datasheet

| Qty. | Description |
|---|---|
| 1 | **TP 80-270/4 A-F-A-BQQE-MX3** |

**Note! Product picture may differ from actual product**

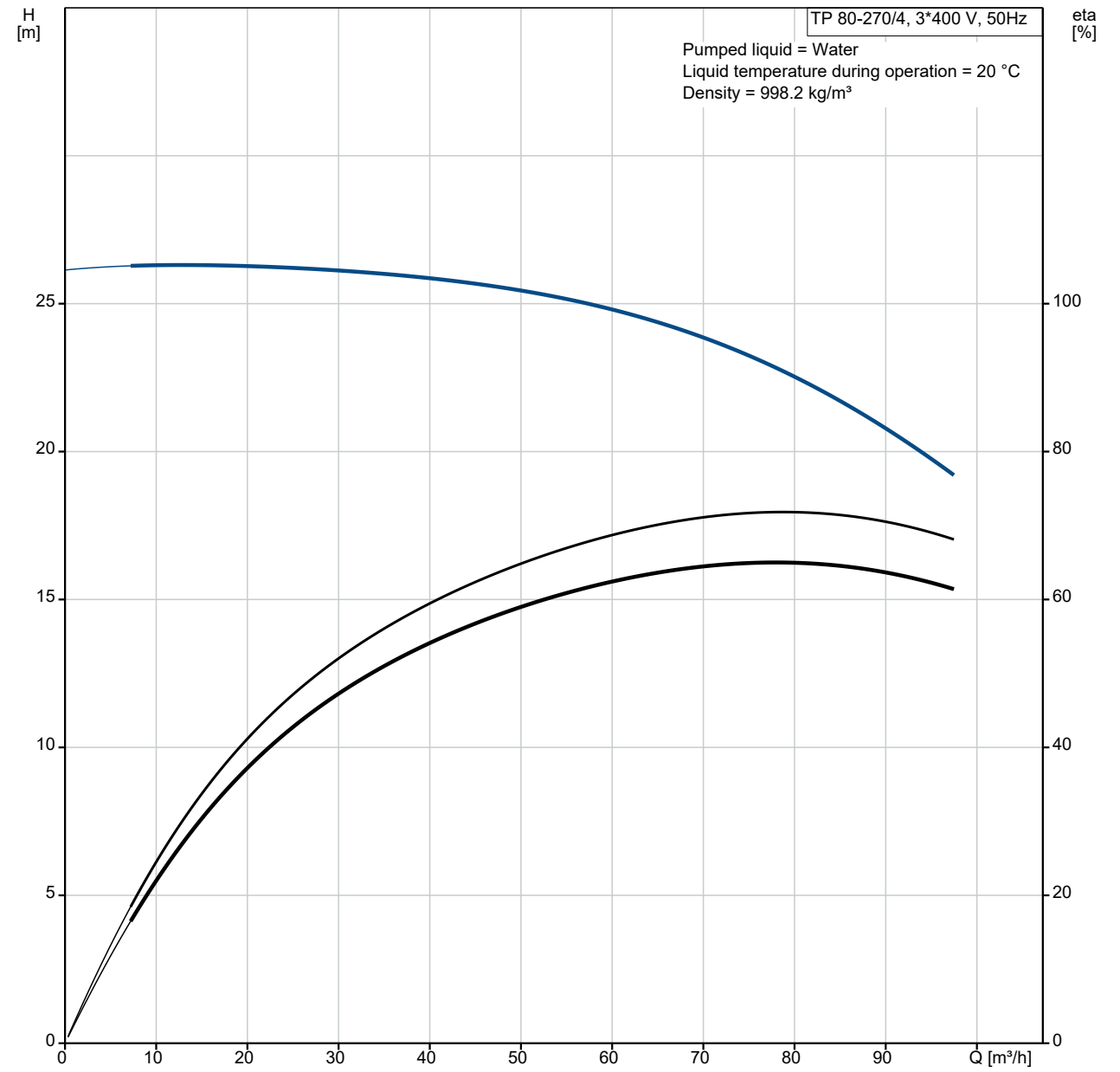
Product No.: 96108853

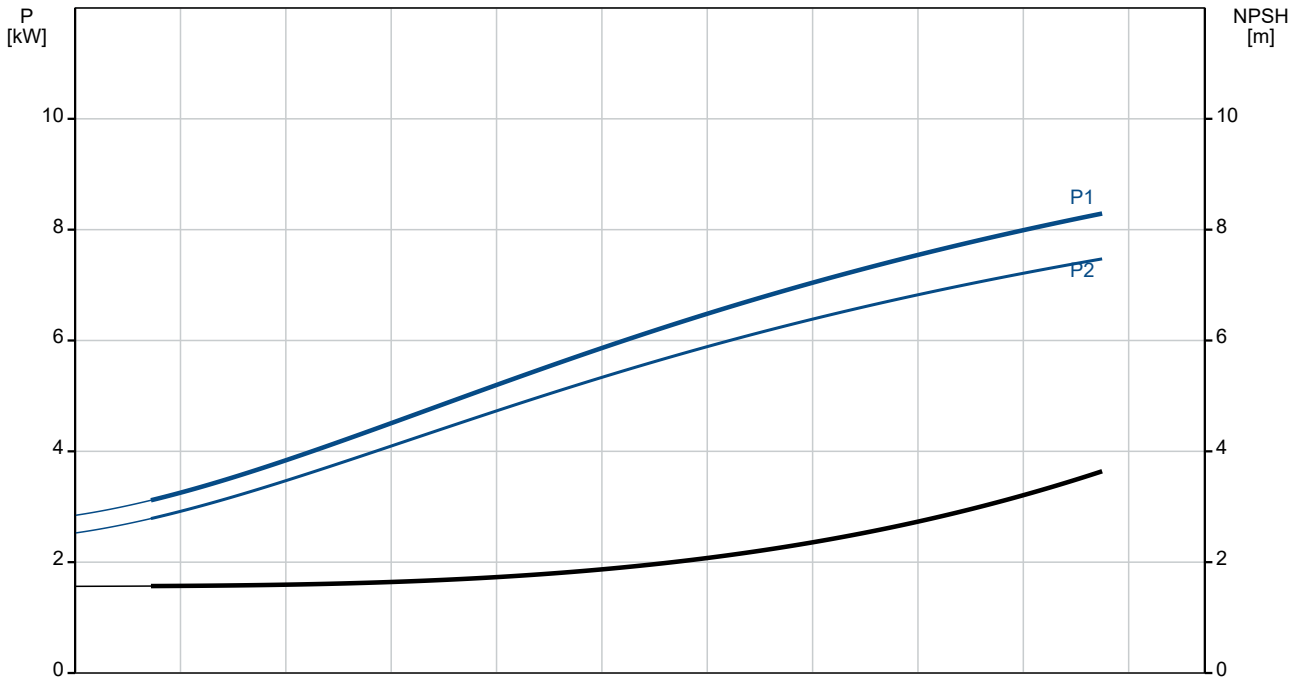
Single-stage centrifugal volute in-line single-head pump:
- wear rings made of bronze
- cataphoresis treatment
- stable sleeve coupling
- top-pull-out principle for easy maintenance
- optimized hydraulics
- in-line design with opposite suction and discharge ports enabling mounting in pipework or on a concrete foundation
- corrosion resistant maintenance-free mechanical shaft seal.

| | |
|---|---|
| Phase: | The motor is a 3-phase AC motor. |
| **Controls:** | |
| Frequency converter: | NONE |
| **Liquid:** | |
| Pumped liquid: | Water |
| Liquid temperature range: | -25 .. 120 °C |
| Selected liquid temperature: | 20 °C |
| Density: | 998.2 kg/m³ |
| **Technical:** | |
| Pump speed on which pump data are based: | 1455 rpm |
| Rated flow: | 79 m³/h |
| Rated head: | 22.7 m |
| Actual impeller diameter: | 279 mm |
| Code for shaft seal: | BQQE |
| Curve tolerance: | ISO9906:2012 3B2 |
| **Materials:** | |
| Pump housing: | Cast iron<br>EN-GJL-250<br>ASTM class 35 |
| Impeller: | Cast iron<br>EN-GJL-200<br>ASTM class 30 |
| **Installation:** | |
| Range of ambient temperature: | -20 .. 55 °C |

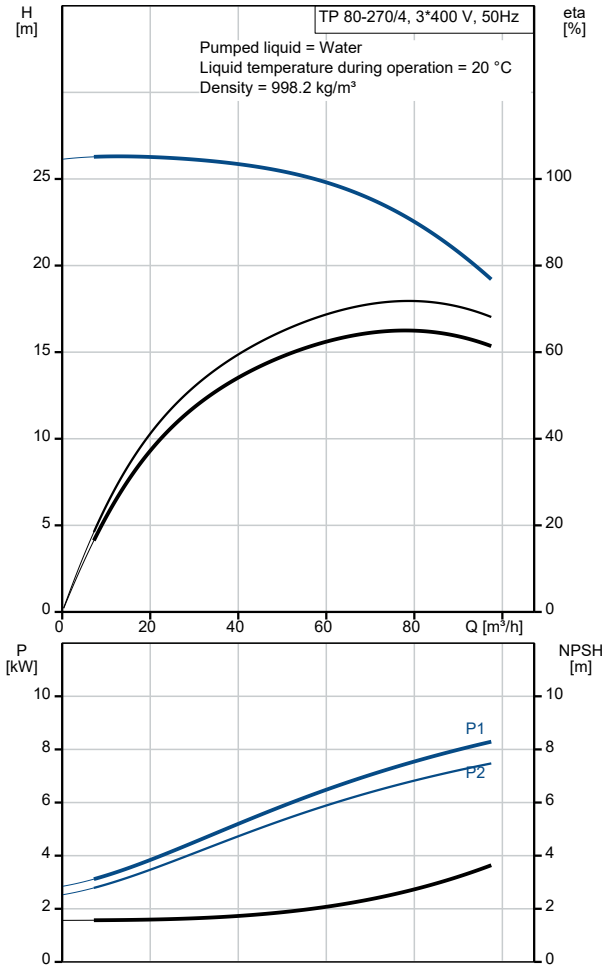
| Qty. | Description |
|---|---|
| | Maximum operating pressure: 16 bar<br>Max pressure at stated temp: 16 bar / 120 °C<br>Type of connection: DIN<br>Size of connection: DN 80<br>Pressure rating for connection: PN 16<br>Port-to-port length: 620 mm<br>Flange size for motor: FF265<br><br>Electrical data:<br>Motor type: SIEMENS<br>IE Efficiency class: IE3<br>Rated power - P2: 7.5 kW<br>Mains frequency: 50 Hz<br>Rated voltage: 3 x 380-420D/660-725Y V<br>Rated current: 15,12-13,7/8,72-7,89 A<br>Starting current: 740-740 %<br>Cos phi - power factor: 0.84<br>Rated speed: 1465 rpm<br>Efficiency: IE3 90,4%<br>Motor efficiency at full load: 90.4-90.4 %<br>Motor efficiency at 3/4 load: 91.1-91.1 %<br>Motor efficiency at 1/2 load: 90.8-90.8 %<br>Number of poles: 4<br>Enclosure class (IEC 34-5): IP55<br>Insulation class (IEC 85): F<br>Motor No: 83V15222<br><br>Others:<br>Minimum efficiency index, MEI ≥: 0.70<br>Net weight: 181 kg<br>Gross weight: 218 kg<br>Shipping volume: 0.74 m³<br>Danish VVS No.: 381715270<br>Finnish LVI No.: 4616104<br>Country of origin: HU<br>Custom tariff no.: 84137051 |

# 96108853 TP 80-270/4 A-F-A-BQQE-MX3 50 Hz



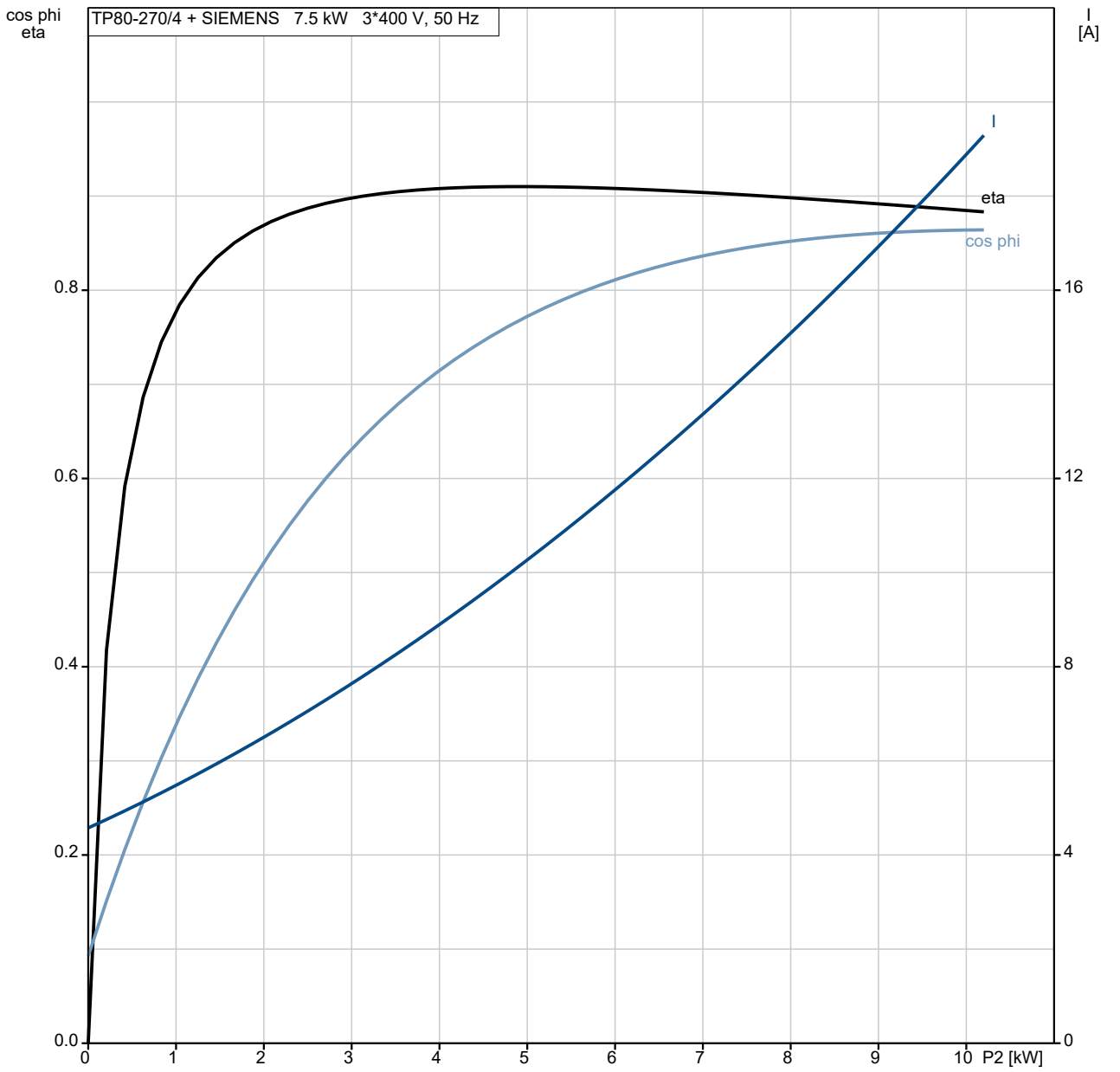



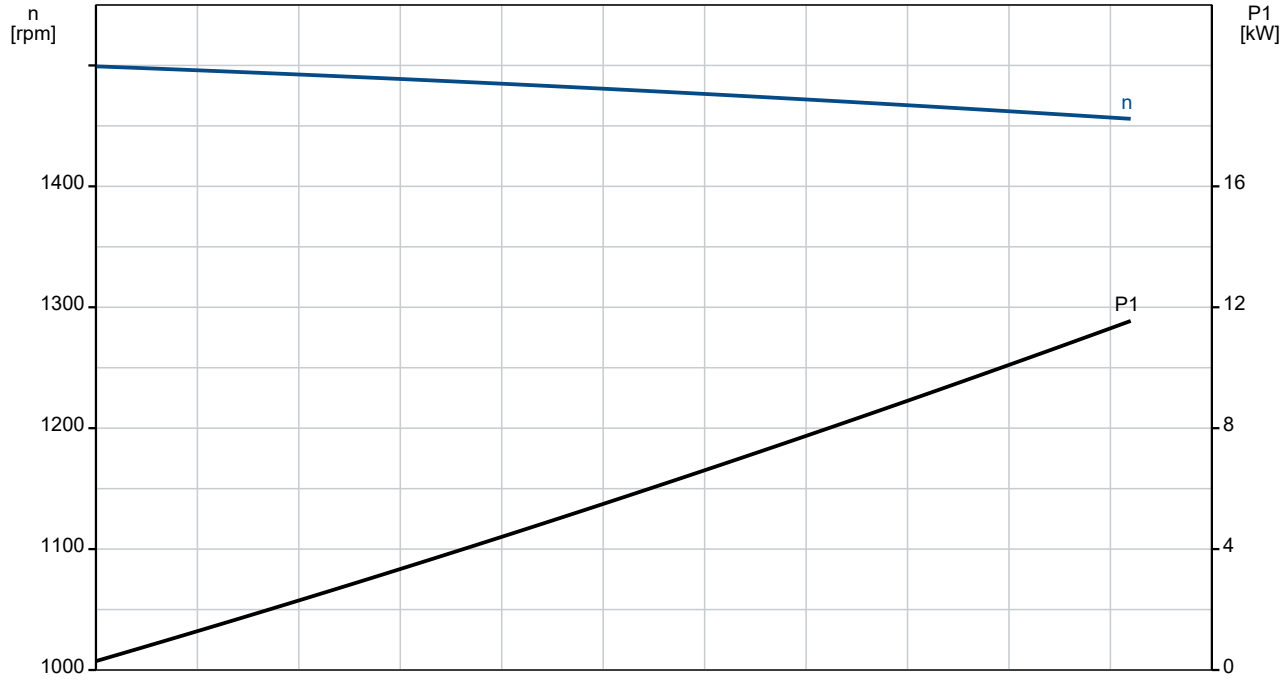
| Description | Value |
|---|---|
| **General information:** | |
| Product name: | TP 80-270/4 A-F-A-BQQE-MX3 |
| Product No: | 96108853 |
| EAN number: | 5700396978192 |
| **Technical:** | |
| Pump speed on which pump data are based: | 1455 rpm |
| Rated flow: | 79 m³/h |
| Rated head: | 22.7 m |
| Maximum head: | 270 dm |
| Actual impeller diameter: | 279 mm |
| Code for shaft seal: | BQQE |
| Curve tolerance: | ISO9906:2012 3B2 |
| Pump version: | A |
| **Materials:** | |
| 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 |
| **Installation:** | |
| Range of ambient temperature: | -20 .. 55 °C |
| Maximum operating pressure: | 16 bar |
| Max pressure at stated temp: | 16 bar / 120 °C |
| Type of connection: | DIN |
| Size of connection: | DN 80 |
| Pressure rating for connection: | PN 16 |
| Port-to-port length: | 620 mm |
| Flange size for motor: | FF265 |
| Connect code: | F |
| **Liquid:** | |
| Pumped liquid: | Water |
| Liquid temperature range: | -25 .. 120 °C |
| Selected liquid temperature: | 20 °C |
| Density: | 998.2 kg/m³ |
| **Electrical data:** | |
| Motor type: | SIEMENS |
| IE Efficiency class: | IE3 |
| Rated power - P2: | 7.5 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 3 x 380-420D/660-725Y V |
| Rated current: | 15,12-13,7/8,72-7,89 A |
| Starting current: | 740-740 % |
| Cos phi - power factor: | 0.84 |
| Rated speed: | 1465 rpm |
| Efficiency: | IE3 90,4% |
| Motor efficiency at full load: | 90.4-90.4 % |
| Motor efficiency at 3/4 load: | 91.1-91.1 % |
| Motor efficiency at 1/2 load: | 90.8-90.8 % |
| Number of poles: | 4 |
| Enclosure class (IEC 34-5): | IP55 |
| Insulation class (IEC 85): | F |
| Motor protec: | PTC |
| Motor No: | 83V15222 |
| **Controls:** | |
| Frequency converter: | NONE |
| **Others:** | |
| Minimum efficiency index, MEI ≥: | 0.70 |
| Net weight: | 181 kg |
| Gross weight: | 218 kg |
| Shipping volume: | 0.74 m³ |



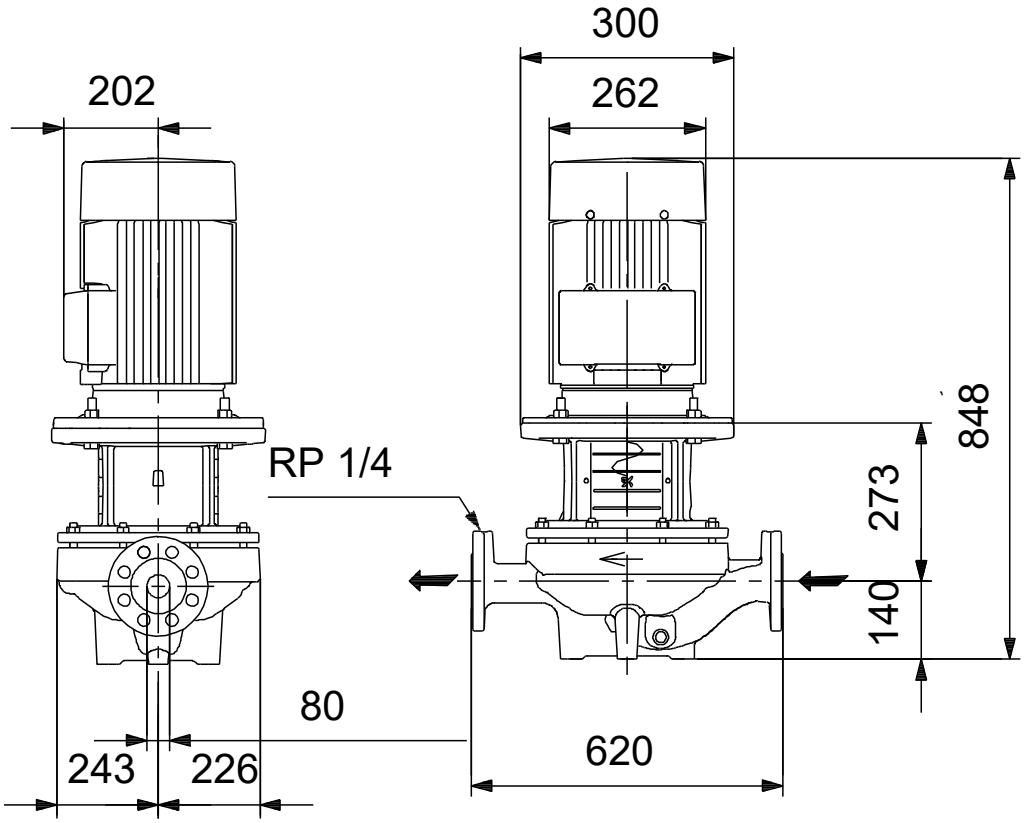
| Description | Value |
| --- | --- |
| Danish VVS No.: | 381715270 |
| Finnish LVI No.: | 4616104 |
| Country of origin: | HU |
| Custom tariff no.: | 84137051 |

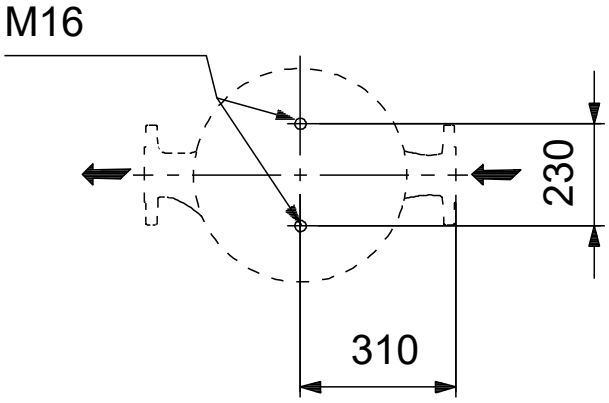
# 96108853 TP 80-270/4 A-F-A-BQQE-MX3 50 Hz



# 96108853 TP 80-270/4 A-F-A-BQQE-MX3 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 80-270/4, Product No. 96108853
## Produced After 2105 (production year and week number)

| | Pos | Omschrijving | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|---|---|---|---|---|---|---|---|
| - | | Motor | | | | 1 | pcs |
| | 156 | Spare, motor fan | | | 98507836 | 1 | |
| | 151 | Spare, motor fan cover | | | 97644232 | 1 | |
| | 176 | Spare, Terminal board | | | 98505507 | 1 | |
| | 164a | Spare, Terminal box | | | 98505711 | 1 | |
| | 19 | Plug | | | 98163028 | 2 | pcs |
| | 49 | Impeller | | | 98296689 | 1 | pcs |
| - | 50 | Pump housing cpl. | | | 98911579 | 1 | pcs |
| | 36 | Nut | | Thread: M12 | 96620479 | 14 | |
| | 67 | Nut | | Thread: M18 | 92526535 | 1 | pcs |
| | 72a | O-ring | | Diameter: 329,79 | 92547632 | 1 | pcs |
| | | | | Material type: EPDM | | | |
| | | | | Thickness: 3,53 | | | |
| | 72a | O-ring | | Diameter: 329,79 | 92526511 | 1 | pcs |
| | | | | Material type: EPDM | | | |
| | | | | Thickness: 3,53 | | | |
| | 72a | O-ring | | Diameter: 329,79 | 97511846 | 1 | pcs |
| | | | | Material type: EPDM | | | |
| | | | | Thickness: 3,53 | | | |
| | 72a | O-ring | | Diameter: 329,79 | 97757675 | 1 | pcs |
| | | | | Material type: EPDM | | | |
| | | | | Thickness: 3,53 | | | |
| | 105b | Spacer | | | 96591277 | 1 | pcs |
| | 105 | Shaft seal | | | 92514302 | 1 | pcs |
| | 105 | Shaft seal | | | 98434906 | 1 | pcs |