
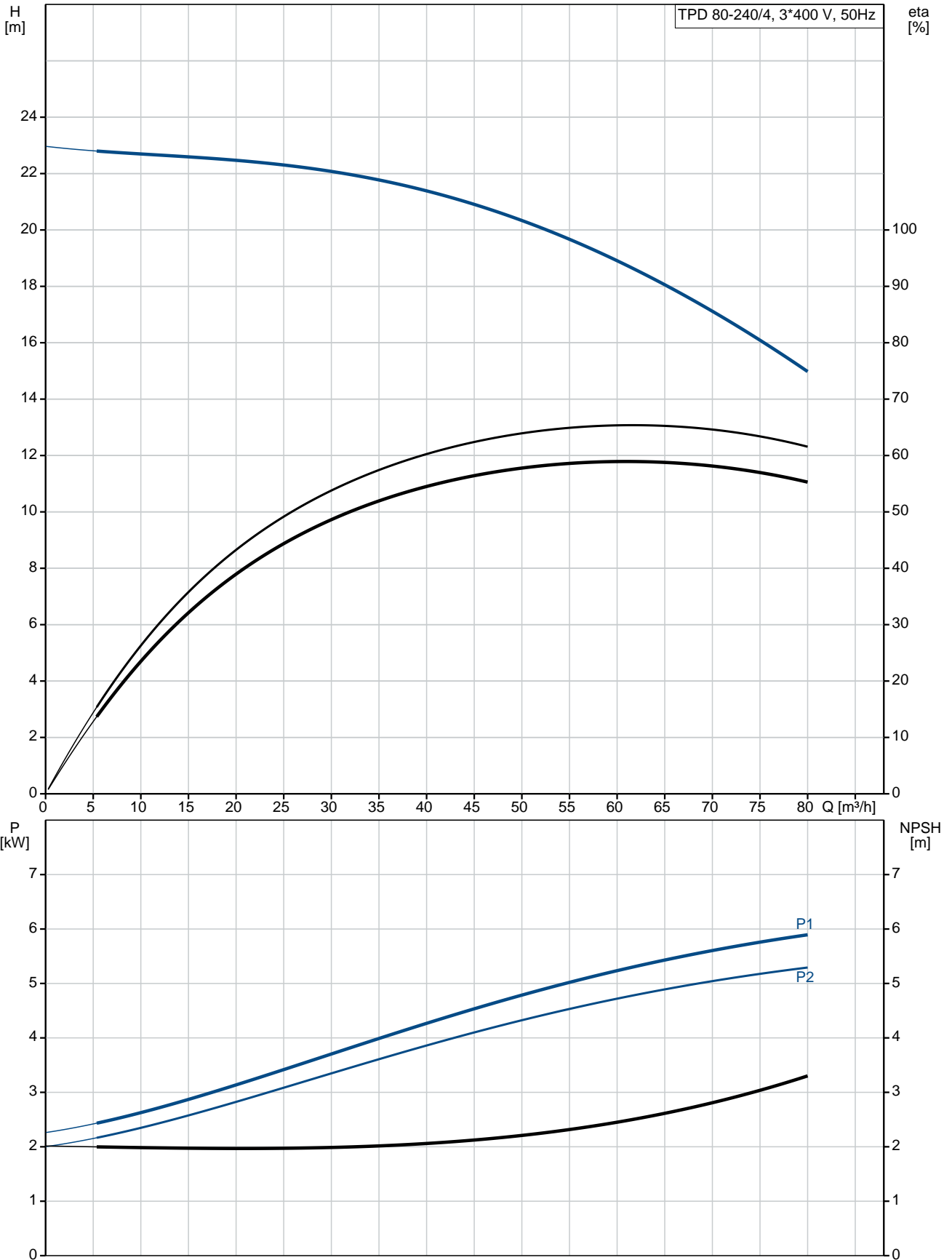


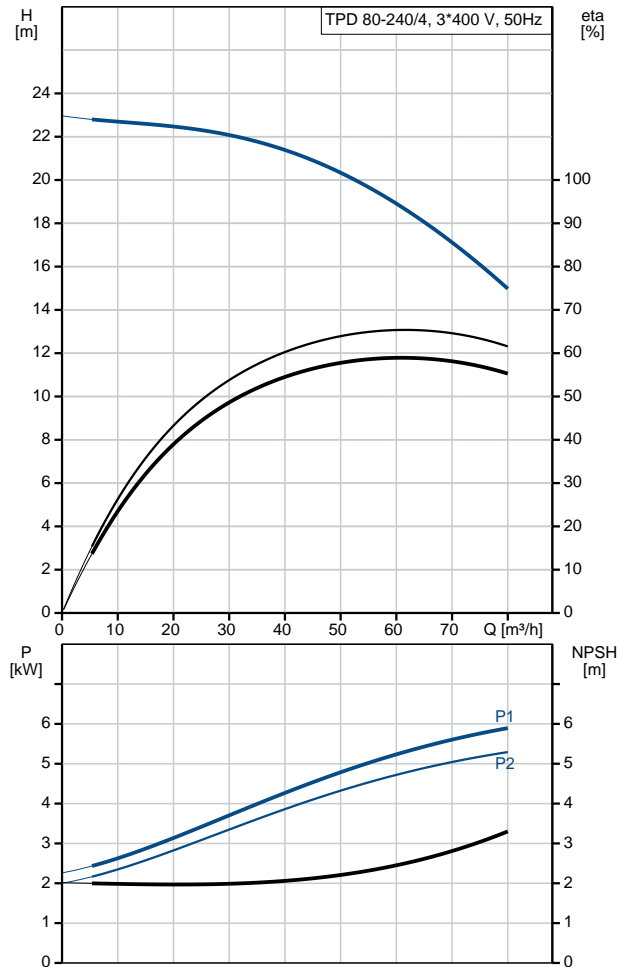
| Position | Qty. | Description   |
|----------|------|---|
|          | 1    | <p><b>TPD 80-240/4 A-F-A-BQQE</b></p>  <p>Product No.: <a href="#">96108894</a></p> <p>Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.</p> <p>Each power head is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).</p> <p>Each power head is fitted with a fan-cooled asynchronous motor of identical size.</p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water<br/>           Liquid temperature range: -25 .. 120 °C<br/>           Liquid temperature during operation: 20 °C<br/>           Density: 998.2 kg/m<sup>3</sup></p> <p><b>Technical:</b></p> <p>Rated flow: 61 m<sup>3</sup>/h<br/>           Rated head: 19 m<br/>           Actual impeller diameter: 258 mm<br/>           Primary shaft seal: BQQE<br/>           Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b></p> <p>Pump housing: Cast iron<br/>           EN-JL1040<br/>           ASTM A48-40 B</p> <p>Impeller: Cast iron<br/>           EN-JL1030<br/>           ASTM A48-30 B</p> <p><b>Installation:</b></p> <p>Range of ambient temperature: -30 .. 60 °C<br/>           Maximum operating pressure: 16 bar<br/>           Flange standard: DIN<br/>           Pipe connection: DN 80<br/>           Pump inlet: DN 80<br/>           Pump outlet: DN 80<br/>           Pressure rating: PN 16<br/>           (@): 620 mm<br/>           Flange size for motor: FF265</p> <p><b>Electrical data:</b></p> <p>Motor type: 132SB<br/>           IE Efficiency class: IE3<br/>           Rated power - P2: 2 x 5.5 kW<br/>           Power (P2) required by pump: 5.5 kW<br/>           Mains frequency: 50 Hz</p> |

| Position | Qty. | Description  |
|----------|------|--|
|          |      | <p>Rated voltage: 3 x 380-415D/660-690Y V</p> <p>Rated current: 11,0-11,0/6,35-6,35 A</p> <p>Starting current: 700-760 %</p> <p>Cos phi - power factor: 0.86-0.80</p> <p>Rated speed: 1460 rpm</p> <p>Efficiency: IE3 89,6%</p> <p>Motor efficiency at full load: 89.6 %</p> <p>Motor efficiency at 3/4 load: 90.3 %</p> <p>Motor efficiency at 1/2 load: 90.4 %</p> <p>Number of poles: 4</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p><b>Others:</b></p> <p>Minimum efficiency index, MEI : 0.60</p> <p>ErP status: EuP Standalone/Prod.</p> <p>Net weight: 369 kg</p> <p>Gross weight: 400 kg</p> <p>Shipping volume: 1.12 m<sup>3</sup></p> |

## 96108894 TPD 80-240/4 A-F-A-BQQE 50 Hz



| Description                          | Value                                   |
|--------------------------------------|---|
| <b>General information:</b>          |   |
| Product name:                        | TPD 80-240/4 A-F-A-BQQE                 |
| Product No:                          | 96108894                                |
| EAN number:                          | 5700396978604                           |
| <b>Technical:</b>                    |   |
| Rated flow:                          | 61 m³/h                                 |
| Rated head:                          | 19 m                                    |
| Head max:                            | 240 dm                                  |
| Actual impeller diameter:            | 258 mm                                  |
| Primary shaft seal:                  | BQQE                                    |
| Curve tolerance:                     | ISO9906:2012 3B                         |
| Pump version:                        | A                                       |
| Model:                               | A                                       |
| <b>Materials:</b>                    |   |
| Pump housing:                        | Cast iron<br>EN-JL1040<br>ASTM A48-40 B |
| Impeller:                            | Cast iron<br>EN-JL1030<br>ASTM A48-30 B |
| Material code:                       | A                                       |
| <b>Installation:</b>                 |   |
| Range of ambient temperature:        | -30 .. 60 °C                            |
| Maximum operating pressure:          | 16 bar                                  |
| Flange standard:                     | DIN                                     |
| Pipe connection:                     | DN 80                                   |
| Pump inlet:                          | DN 80                                   |
| Pump outlet:                         | DN 80                                   |
| Pressure rating:                     | PN 16                                   |
| (@)                                  | 620 mm                                  |
| Flange size for motor:               | FF265                                   |
| Connect code:                        | F                                       |
| <b>Liquid:</b>                       |   |
| Pumped liquid:                       | Water                                   |
| Liquid temperature range:            | -25 .. 120 °C                           |
| Liquid temperature during operation: | 20 °C                                   |
| Density:                             | 998.2 kg/m³                             |
| <b>Electrical data:</b>              |   |
| Motor type:                          | 132SB                                   |
| IE Efficiency class:                 | IE3                                     |
| Rated power - P2:                    | 2 x 5.5 kW                              |
| Power (P2) required by pump:         | 5.5 kW                                  |
| Mains frequency:                     | 50 Hz                                   |
| Rated voltage:                       | 3 x 380-415D/660-690Y V                 |
| Rated current:                       | 11,0-11,0/6,35-6,35 A                   |
| Starting current:                    | 700-760 %                               |
| Cos phi - power factor:              | 0.86-0.80                               |
| Rated speed:                         | 1460 rpm                                |
| Efficiency:                          | IE3 89,6%                               |
| Motor efficiency at full load:       | 89.6 %                                  |
| Motor efficiency at 3/4 load:        | 90.3 %                                  |
| Motor efficiency at 1/2 load:        | 90.4 %                                  |
| Number of poles:                     | 4                                       |
| Enclosure class (IEC 34-5):          | 55 Dust/Jetting                         |
| Insulation class (IEC 85):           | F                                       |
| Motor protec:                        | PTC                                     |
| Motor No:                            | 87370261                                |
| <b>Others:</b>                       |   |





Company name:

Created by:

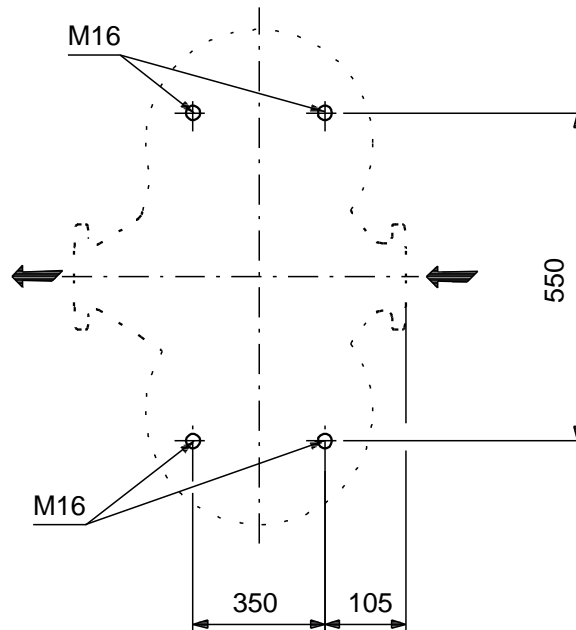
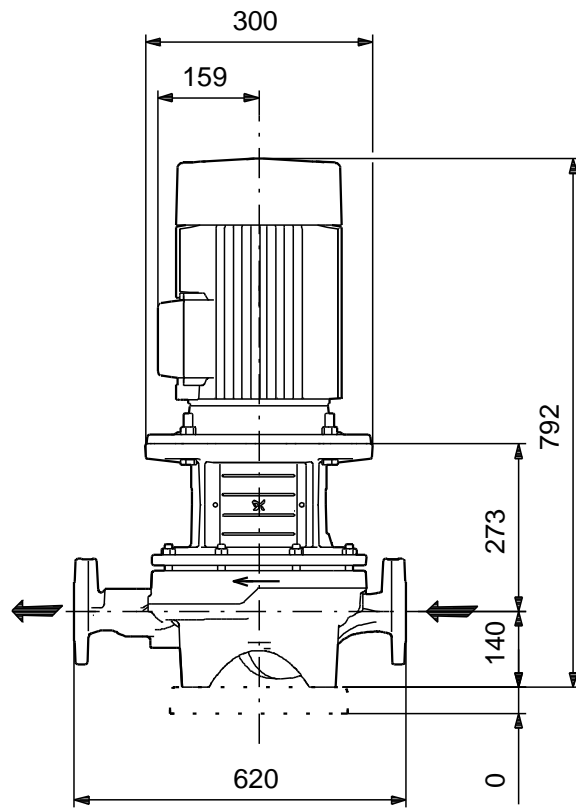
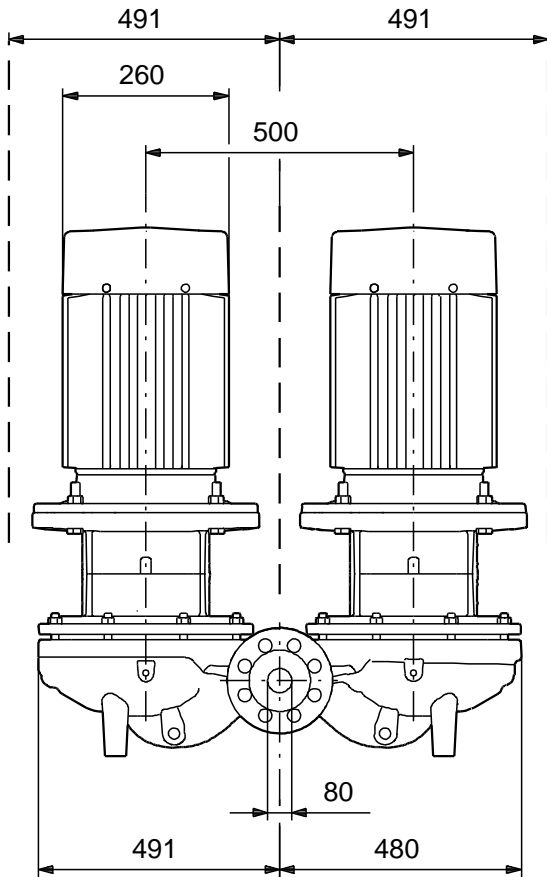
Phone:

Date:

05/10/2018

| Description                     | Value                |
|---------------------------------|----------------------|
| Minimum efficiency index, MEI : | 0.60                 |
| ErP status:                     | EuP Standalone/Prod. |
| Net weight:                     | 369 kg               |
| Gross weight:                   | 400 kg               |
| Shipping volume:                | 1.12 m <sup>3</sup>  |

## 96108894 TPD 80-240/4 A-F-A-BQQE 50 Hz



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

## 96108894 TPD 80-240/4 A-F-A-BQQE 50 Hz



IEC TP211 THERMALLY PROTECTED WHEN THE THERMISTORS ARE  
CONNECTED TO AMPLIFIER RELAY FOR CONTROL OF MAIN SUPPLY  
THERMISTORS PTC ACCORDING TO DIN 44082

Note! All units are in [mm] unless others are stated.