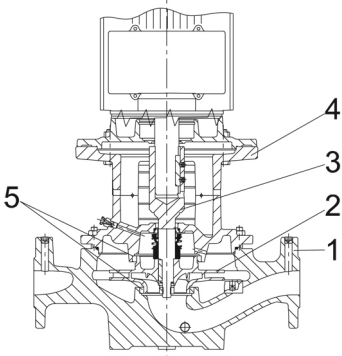
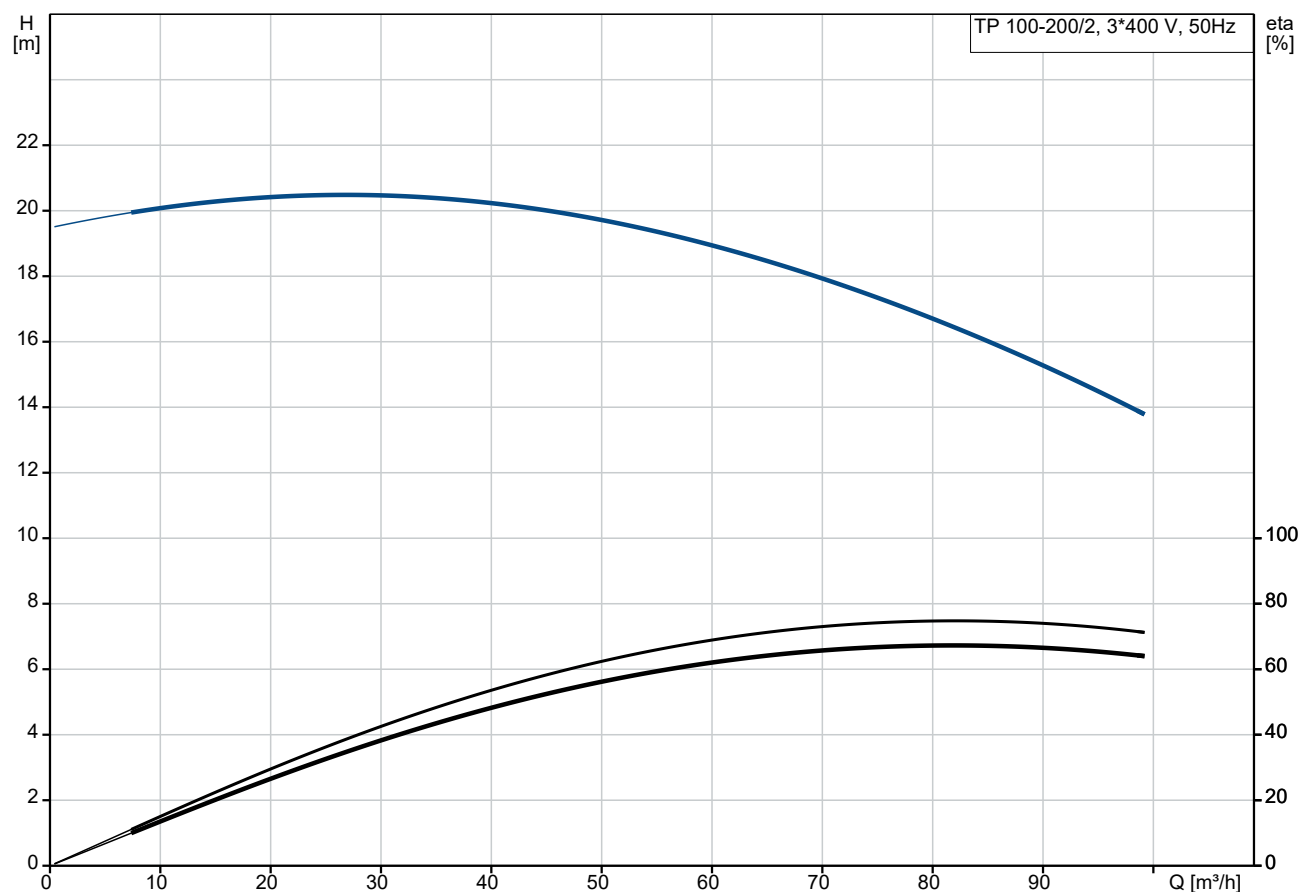


| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p data-bbox="204 376 560 405"><b>TP 100-200/2 A-F-B-BQQE-LW1</b></p> <div data-bbox="311 421 475 741">  </div> <p data-bbox="595 723 1062 745">Note! Product picture may differ from actual product</p> <p data-bbox="204 757 464 779">Product No.: <a href="#">96109222</a></p> <p data-bbox="204 828 1437 902">Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. 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 data-bbox="204 913 1378 965">The pump 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 data-bbox="204 974 815 996">The pump is fitted with a fan-cooled asynchronous motor.</p> <p data-bbox="204 1039 280 1068"><b>Pump</b></p> <div data-bbox="213 1088 555 1442">  </div> <p data-bbox="204 1487 384 1509">1: Pump housing</p> <p data-bbox="204 1518 316 1541">2: Impeller</p> <p data-bbox="204 1550 341 1572">3: Stub shaft</p> <p data-bbox="204 1581 480 1603">4: Pump head/motor stool</p> <p data-bbox="204 1612 347 1635">5: Wear rings</p> <p data-bbox="204 1641 1406 1686">The pump housing is provided with a replaceable brass neck ring to reduce the amount of liquid running from the outlet side of the impeller to the inlet side.</p> <p data-bbox="204 1695 695 1718">The impeller is secured to the shaft with a nut.</p> <p data-bbox="204 1727 1453 1798">The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.</p> <p data-bbox="204 1809 323 1832">Seal faces:</p> <ul data-bbox="240 1841 788 1897" style="list-style-type: none"> <li>• Rotating seal ring material: silicon carbide (SiC)</li> <li>• Stationary seat material: silicon carbide (SiC)</li> </ul> <p data-bbox="204 1904 1449 1951">This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.</p> <p data-bbox="204 1960 850 1982">Secondary seal material: EPDM (ethylene-propylene rubber)</p> <p data-bbox="204 1991 1075 2013">EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p> <p data-bbox="204 2022 1350 2045">A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.</p> <p data-bbox="204 2054 847 2076">The flanges have tappings for mounting of pressure gauges.</p> |

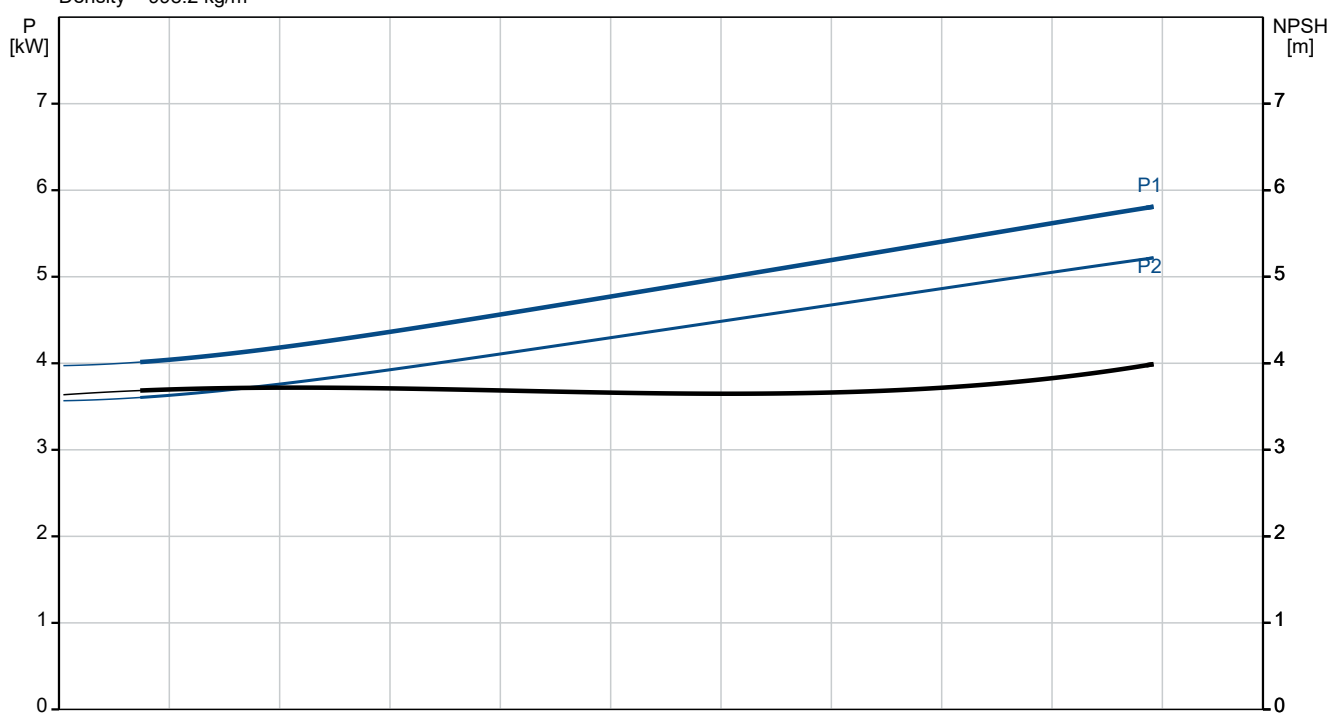
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p>The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring.</p> <p>The central part of the motor stool is provided with guards for protection against the shaft and coupling. The pump shaft is fastened directly on the motor shaft with key and set screws.</p> <p><b>Motor</b></p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.</p> <p>The motor is flange-mounted with free-hole flange (FF).</p> <p>Motor-mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (Code II).</p> <p>The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.</p> <p>The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p> <p>Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.</p> <p>The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.</p> <p><b>Further product details</b></p> <p><b>Technical data</b></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:    2964 rpm</p> <p>Rated flow:                                    81.79 m<sup>3</sup>/h</p> <p>Rated head:                                    16.87 m</p> <p>Actual impeller diameter:                  125 mm</p> <p>Primary shaft seal:                          BQQE</p> <p>Code for shaft seal:                          BQQE</p> <p>Curve tolerance:                              ISO9906:2012 3B2</p> <p>Materials:</p> <p>Type key, code for materials:              B</p> <p>Pump housing:                                Cast iron</p> <p>                                                      EN-GJL-250</p> <p>                                                      ASTM class 35</p> <p>Impeller:                                        Bronze</p> <p>                                                      CuSn10-C</p> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p>Installation:</p> <p>Range of ambient temperature: -30 .. 60 °C</p> <p>Maximum operating pressure: 16 bar</p> <p>Max pressure at stated temp: 16 bar / 120 °C</p> <p>Pipe connection standard: EN 1092-2</p> <p>Type of connection: DIN</p> <p>Size of connection: DN 100</p> <p>Pressure rating for connection: PN 16</p> <p>Port-to-port length: 500 mm</p> <p>Flange size for motor: FF265</p> <p>Electrical data:</p> <p>Motor type: 132SC</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>IE Efficiency class: IE3</p> <p>Motor efficiency at full load: 89.2 %</p> <p>Motor efficiency at 3/4 load: 90.0-89.8 %</p> <p>Motor efficiency at 1/2 load: 89.6-88.4 %</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 ≥: 0.54</p> <p>Net weight: 101 kg</p> <p>Gross weight: 119 kg</p> <p>Shipping volume: 0.395 m³</p> |

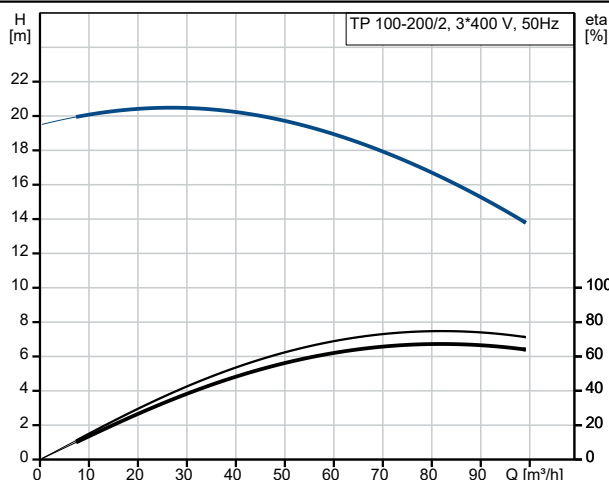
## 96109222 TP 100-200/2 A-F-B-BQQE-LW1 50 Hz



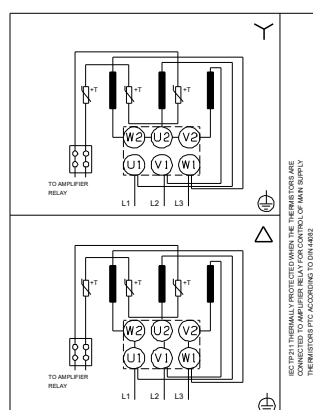
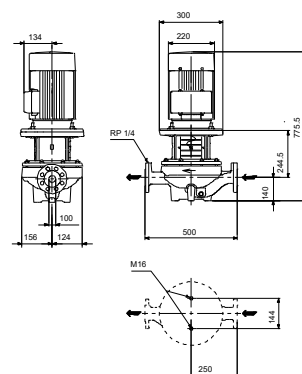
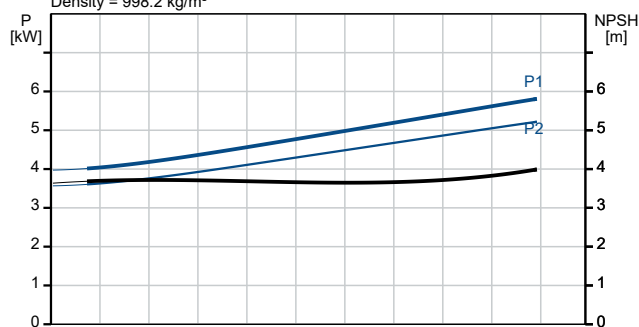
Pumped liquid = Water  
 Liquid temperature during operation = 20 °C  
 Density = 998.2 kg/m³



| Description                              | Value                                    |
|------------------------------------------|------------------------------------------|
| <b>General information:</b>              |                                          |
| Product name:                            | TP 100-200/2<br>A-F-B-BQQE-LW1           |
| Product No:                              | 96109222                                 |
| EAN number:                              | 5700396981994                            |
| <b>Technical:</b>                        |                                          |
| Pump speed on which pump data are based: | 2964 rpm                                 |
| Rated flow:                              | 81.79 m³/h                               |
| Rated head:                              | 16.87 m                                  |
| Maximum head:                            | 200 dm                                   |
| Actual impeller diameter:                | 125 mm                                   |
| Primary shaft seal:                      | BQQE                                     |
| Code for shaft seal:                     | BQQE                                     |
| Curve tolerance:                         | ISO9906:2012 3B2                         |
| Pump version:                            | A                                        |
| <b>Materials:</b>                        |                                          |
| Type key, code for materials:            | B                                        |
| Pump housing:                            | Cast iron<br>EN-GJL-250<br>ASTM class 35 |
| Impeller:                                | Bronze<br>CuSn10-C                       |
| Material code:                           | B                                        |
| <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 key, code for pipework connection:  | F                                        |
| Pipe connection standard:                | EN 1092-2                                |
| Type of connection:                      | DIN                                      |
| Size of connection:                      | DN 100                                   |
| Pressure rating for connection:          | PN 16                                    |
| Port-to-port length:                     | 500 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                                    |
| 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                            |
| IE Efficiency class:                     | IE3                                      |
| Motor efficiency at full load:           | 89.2 %                                   |
| Motor efficiency at 3/4 load:            | 90.0-89.8 %                              |
| Motor efficiency at 1/2 load:            | 89.6-88.4 %                              |
| Number of poles:                         | 2                                        |
| Enclosure class (IEC 34-5):              | 55 Dust/Jetting                          |



Pumped liquid = Water  
Liquid temperature during operation = 20 °C  
Density = 998.2 kg/m<sup>3</sup>





Company name:

Created by:

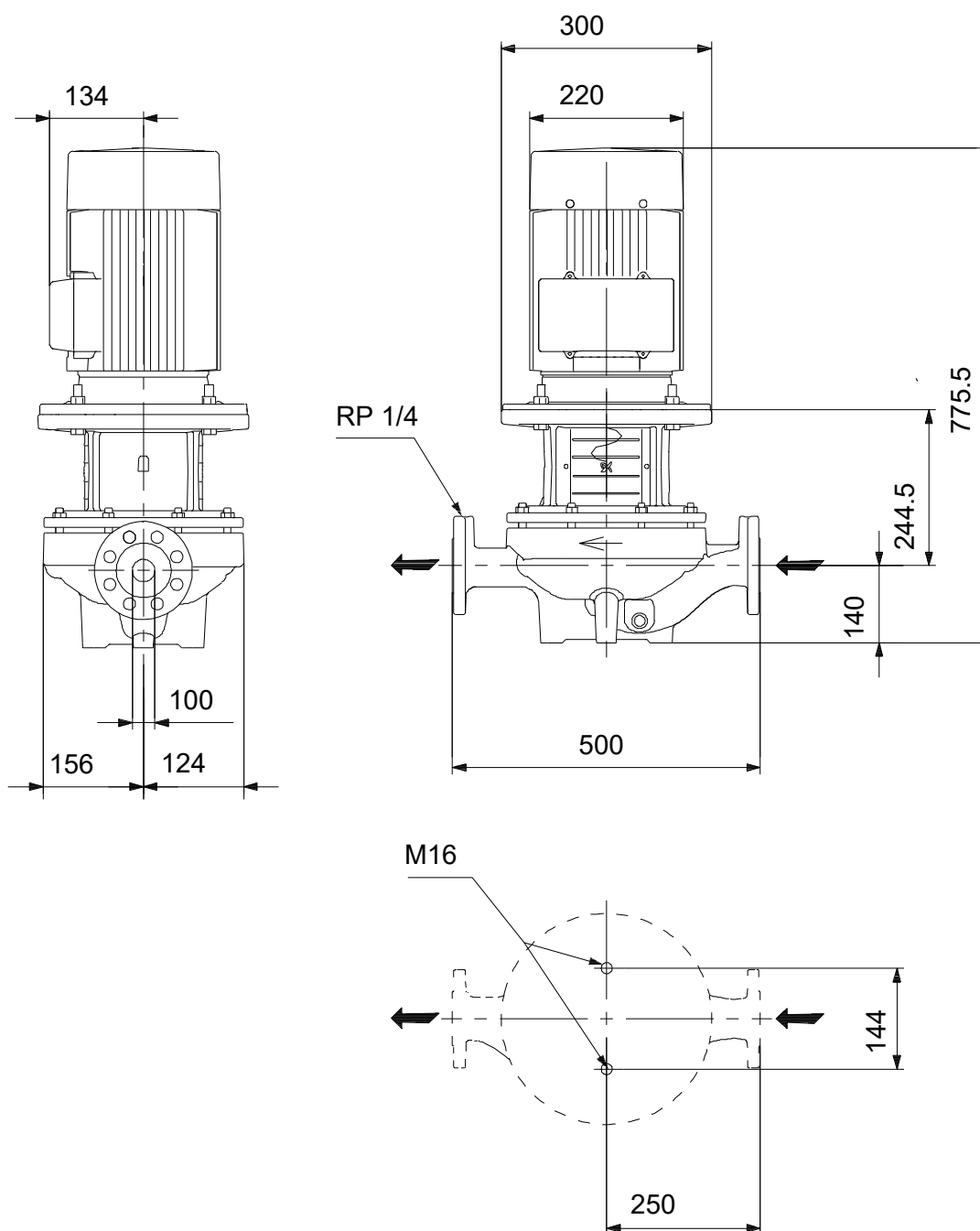
Phone:

Date:

11/02/2026

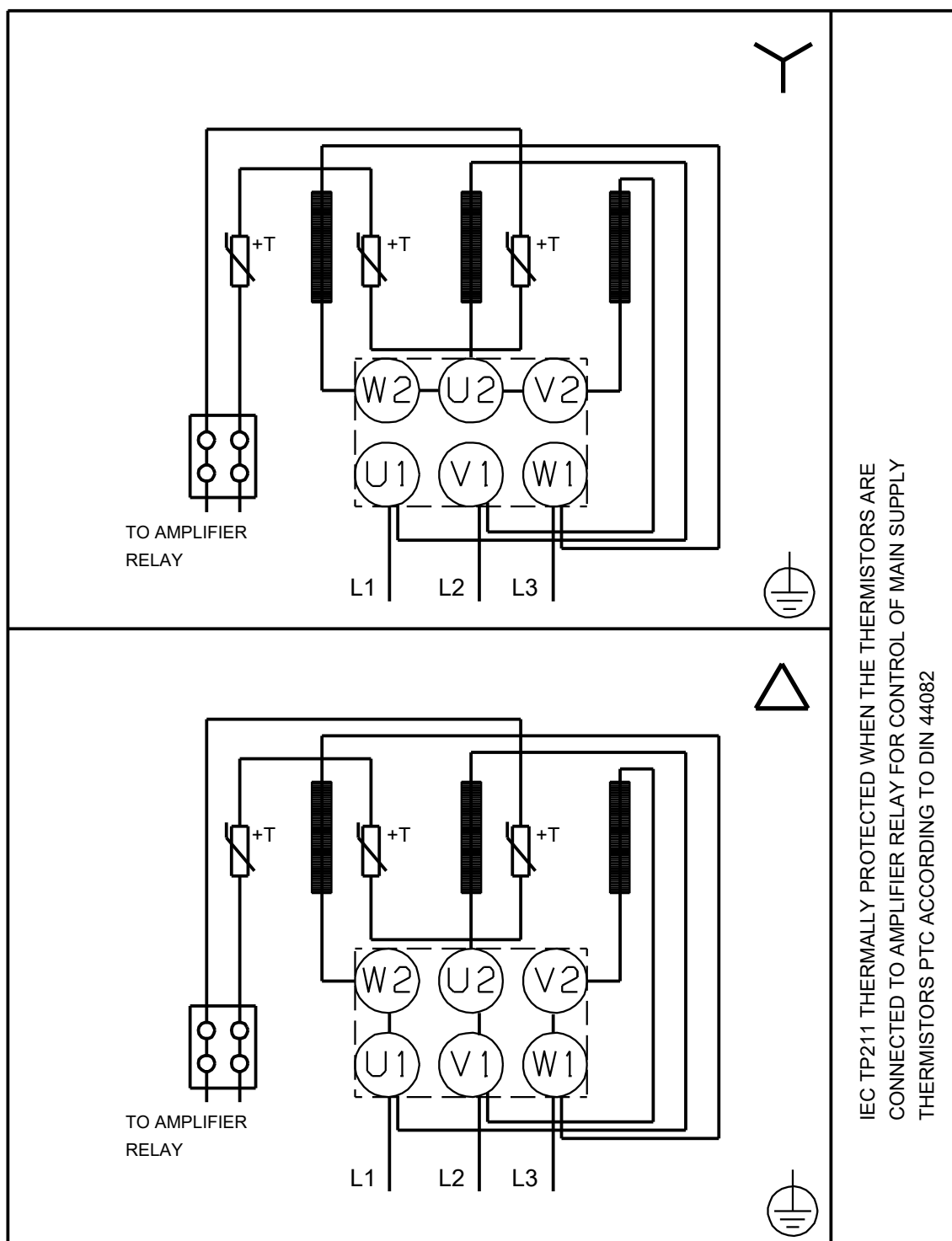
| Description                      | Value                    |
|----------------------------------|--------------------------|
| Insulation class (IEC 85):       | F                        |
| Built-in motor protection:       | PTC                      |
| Motor No:                        | <a href="#">87322229</a> |
| <b>Controls:</b>                 |                          |
| Frequency converter:             | None                     |
| <b>Others:</b>                   |                          |
| Minimum efficiency index, MEI ≥: | 0.54                     |
| Net weight:                      | 101 kg                   |
| Gross weight:                    | 119 kg                   |
| Shipping volume:                 | 0.395 m <sup>3</sup>     |

## 96109222 TP 100-200/2 A-F-B-BQQE-LW1 50 Hz



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

## 96109222 TP 100-200/2 A-F-B-BQQE-LW1 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.