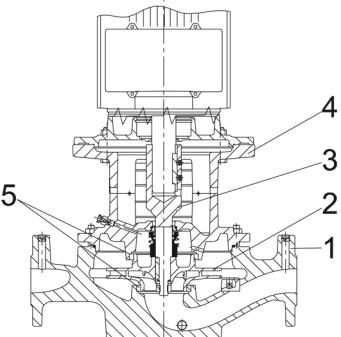


| Qty. | Description |
|------|---|
| 1 | <p>TP 80-520/2 A-F-A-BQQE-PX1</p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: On request</p> <p>Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out 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. 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). The pump is fitted with a fan-cooled asynchronous motor. The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013. Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.</p> <p>Pump</p>  <p>1: Pump housing 2: Impeller 3: Stub shaft 4: Pump head/motor stool 5: Wear rings</p> <p>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. The impeller is secured to the shaft with a nut. 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>Seal faces:</p> <ul style="list-style-type: none"> • Rotating seal ring material: silicon carbide (SiC) • Stationary seat material: silicon carbide (SiC) <p>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> |



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| Qty. | Description |
|------|--|
| | <p>Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils. A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. The flanges have tappings for mounting of pressure gauges. 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. 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. The pump is mounted with a base plate.</p> <p>Motor</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>Further product details</p> <p>Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.</p> <p>Technical data</p> <p>Controls: Frequency converter: NONE</p> <p>Liquid: Pumped liquid: Water Liquid temperature range: -25 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³</p> <p>Technical: Pump speed on which pump data are based: 2940 rpm Rated flow: 113 m³/h Rated head: 42.4 m Actual impeller diameter: 190 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B</p> <p>Materials: Pump housing: Cast iron EN-GJL-250 ASTM class 35 Impeller: Cast iron EN-GJL-200 ASTM class 30</p> |



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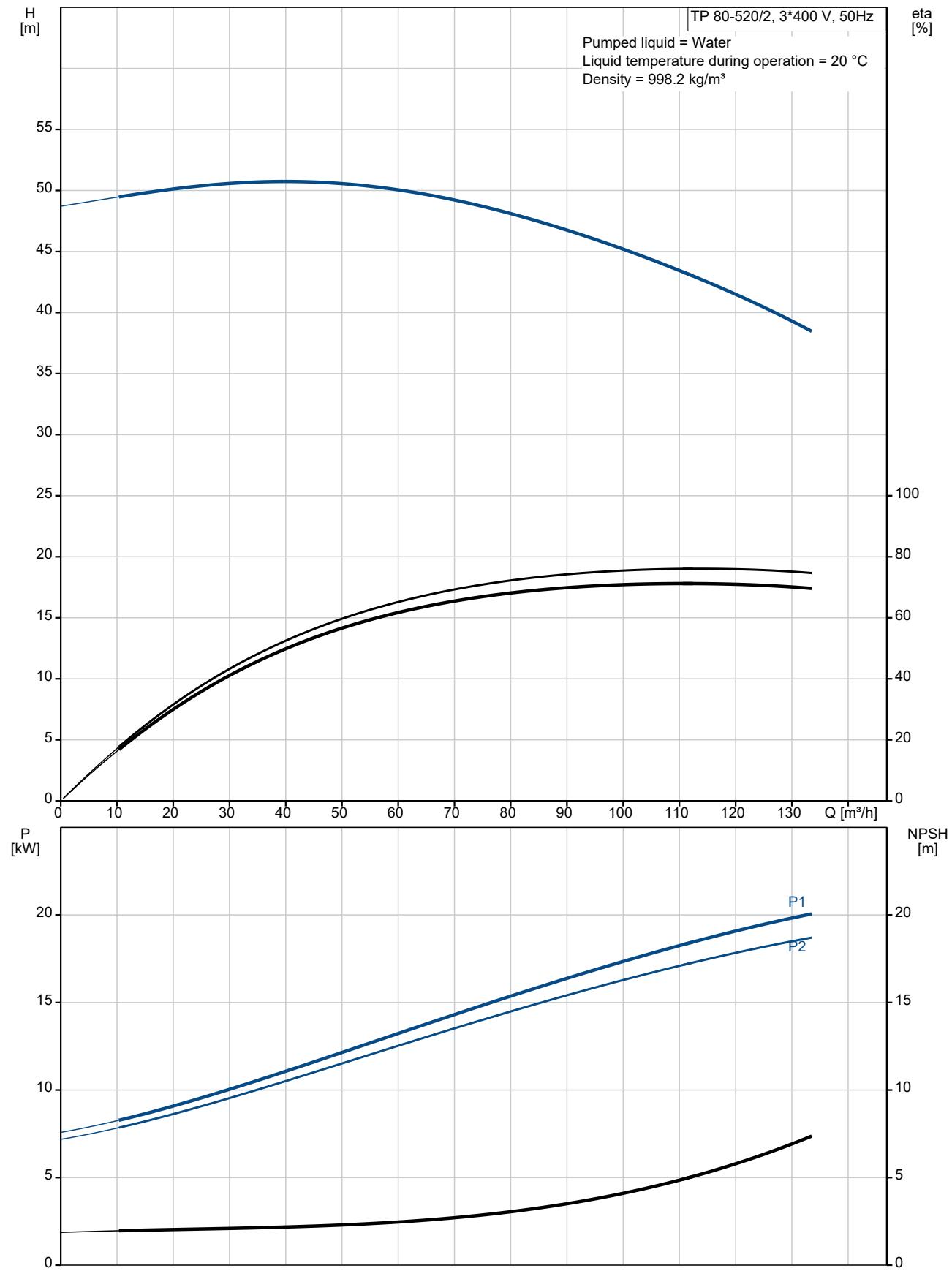
| Qty. | Description |
|------|---|
| | Installation: Range of ambient temperature: -30 .. 60 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C Type of connection: DIN Size of connection: DN 80 Pressure rating for connection: PN 16 Port-to-port length: 500 mm Flange size for motor: FF300 |
| | Electrical data: Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V Rated current: 34,5-32,5/20,0-18,8 A Starting current: 830-980 % Cos phi - power factor: 0.89-0.85 Rated speed: 2940-2950 rpm Efficiency: IE3 92,4% Motor efficiency at full load: 92.4 % Motor efficiency at 3/4 load: 93.2 % Motor efficiency at 1/2 load: 93.2 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 87420023 |
| | Others: Minimum efficiency index, MEI \geq : 0.70 Net weight: 186 kg Gross weight: 223 kg Shipping volume: 0.56 m ³ Danish VVS No.: 381705520 Finnish LVI No.: 4616108 Country of origin: HU Custom tariff no.: 84137051 |



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Phone:

Date: 16/06/2022

On request TP 80-520/2 A-F-A-BQQE-PX1 50 Hz





Company name:

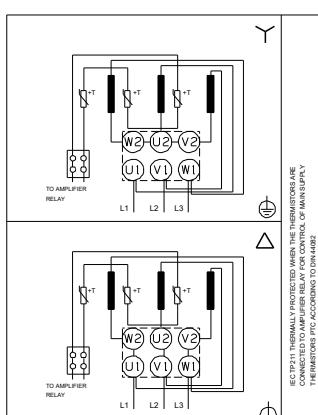
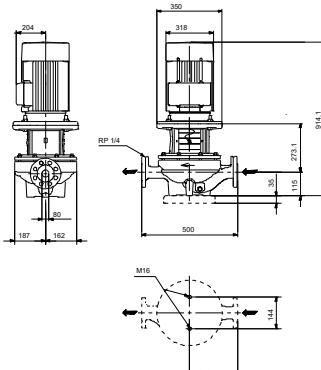
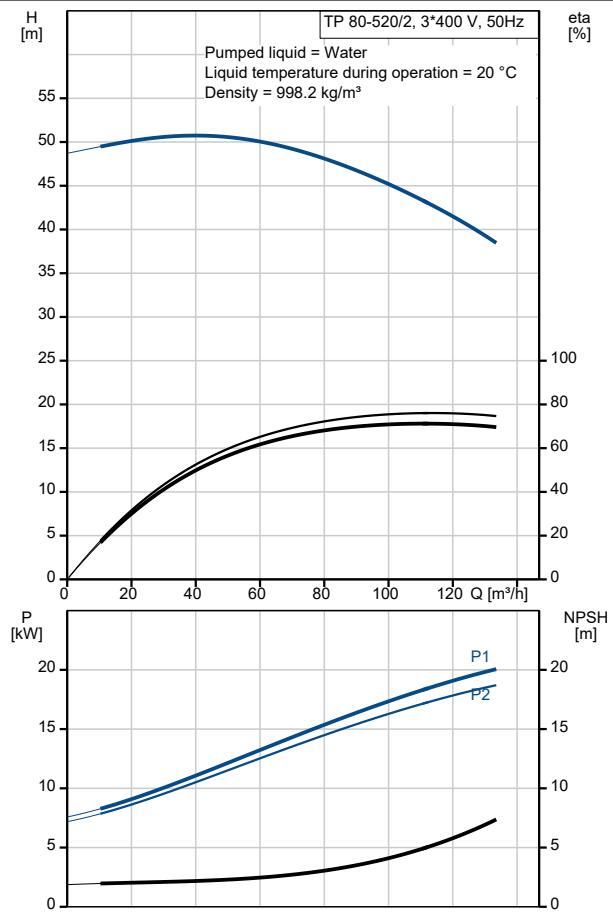
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| Description | Value |
|--|-------------------------------|
| General information: | |
| Product name: | TP 80-520/2 A-F-A-BQQE-PX1 |
| Product No: | On request |
| EAN number: | On request |
| Technical: | |
| Pump speed on which pump data are based: | 2940 rpm |
| Rated flow: | 113 m ³ /h |
| Rated head: | 42.4 m |
| Maximum head: | 520 dm |
| Actual impeller diameter: | 190 mm |
| Code for shaft seal: | BQQE |
| Curve tolerance: | ISO9906:2012 3B |
| 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: | -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 80 |
| Pressure rating for connection: | PN 16 |
| Port-to-port length: | 500 mm |
| Flange size for motor: | FF300 |
| Connect code: | F |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: | -25 .. 120 °C |
| Selected liquid temperature: | 20 °C |
| Density: | 998.2 kg/m ³ |
| Electrical data: | |
| Motor type: | 160LB |
| IE Efficiency class: | IE3 |
| Rated power - P2: | 18.5 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 3 x 380-415D/660-690Y V |
| Rated current: | 34,5-32,5/20,0-18,8 A |
| Starting current: | 830-980 % |
| Cos phi - power factor: | 0.89-0.85 |
| Rated speed: | 2940-2950 rpm |
| Efficiency: | IE3 92,4% |
| Motor efficiency at full load: | 92.4 % |
| Motor efficiency at 3/4 load: | 93.2 % |
| Motor efficiency at 1/2 load: | 93.2 % |
| Number of poles: | 2 |
| Enclosure class (IEC 34-5): | 55 Dust/Jetting |
| Insulation class (IEC 85): | F |
| Built-in motor protection: | PTC |
| Motor No: | 87420023 |
| Controls: | |





Company name:

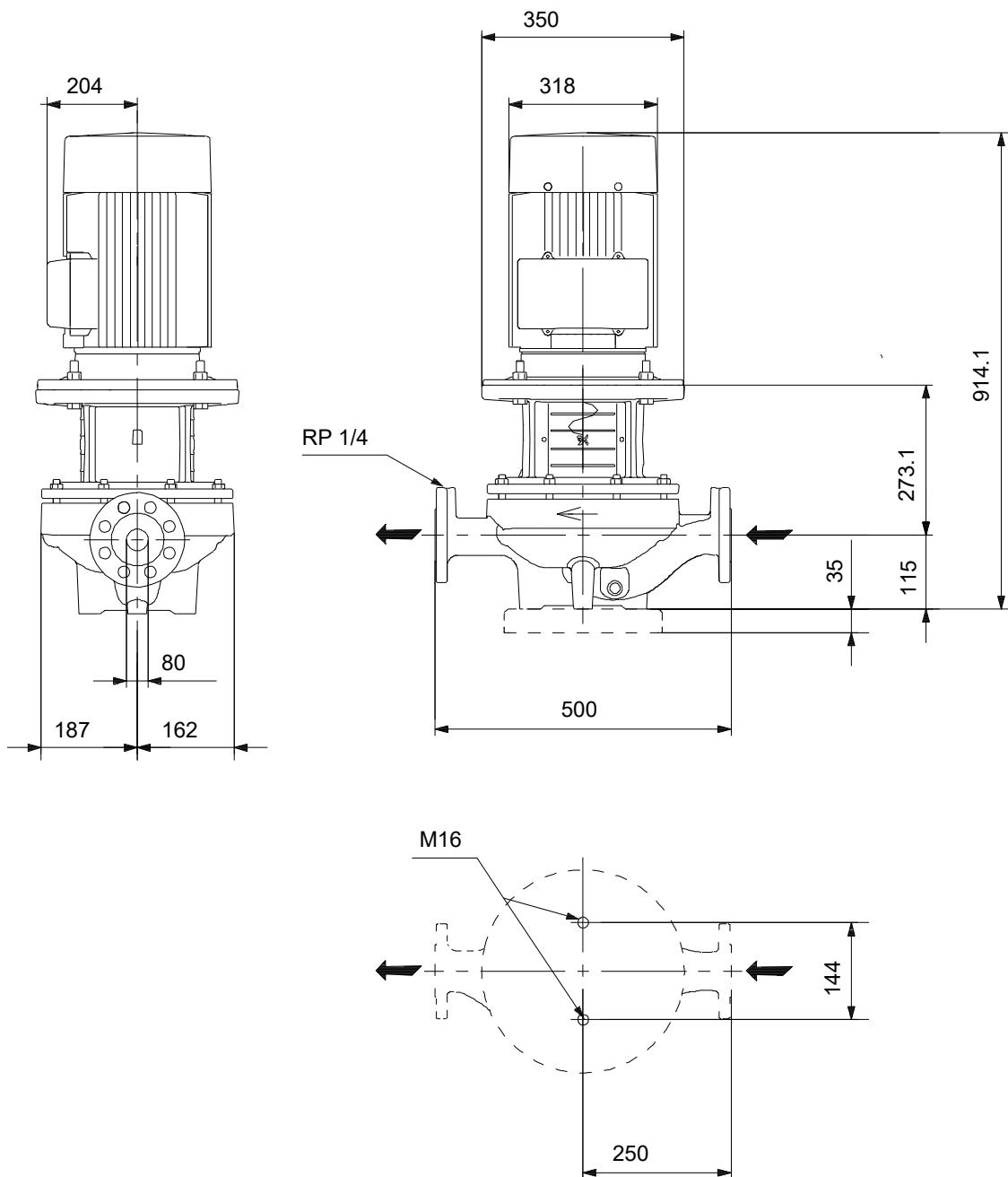
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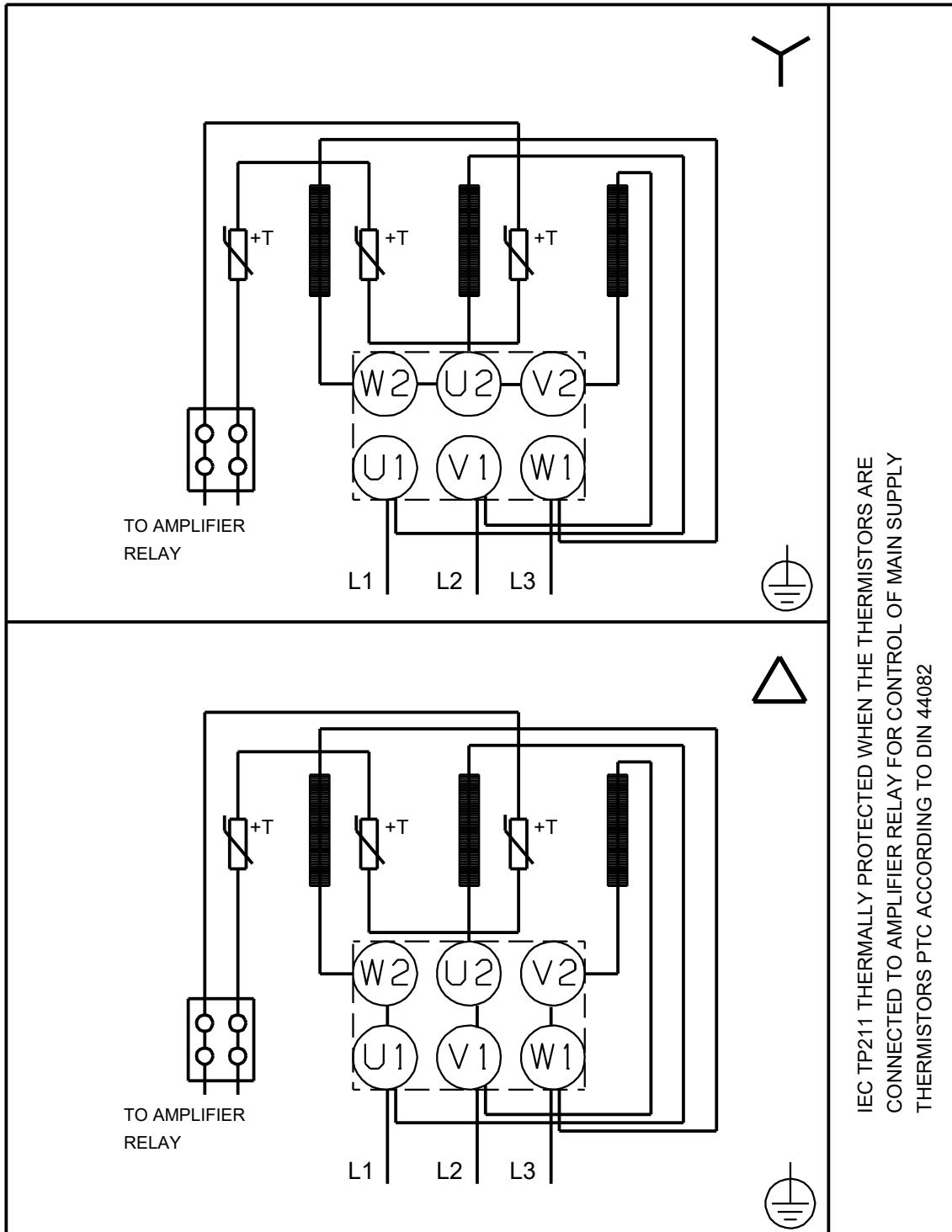
16/06/2022

| Description | Value |
|----------------------------------|---------------------|
| Frequency converter: | NONE |
| Others: | |
| Minimum efficiency index, MEI ≥: | 0.70 |
| Net weight: | 186 kg |
| Gross weight: | 223 kg |
| Shipping volume: | 0.56 m ³ |
| Danish VVS No.: | 381705520 |
| Finnish LVI No.: | 4616108 |
| Country of origin: | HU |
| Custom tariff no.: | 84137051 |

On request TP 80-520/2 A-F-A-BQQE-PX1 50 Hz

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

On request TP 80-520/2 A-F-A-BQQE-PX1 50 Hz



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



Company name:
Created by:
Phone:

Date: 16/06/2022

Order Data:

Product name: TP 80-520/2

Amount: 1

Product No: On request

Total: Price on request