
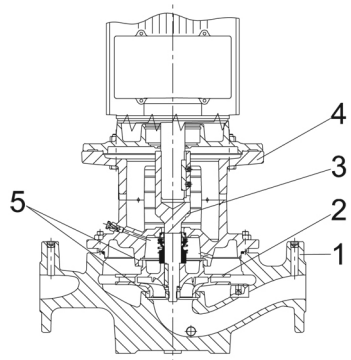


Qty.	Description
1	<p data-bbox="199 322 558 358">TPD 80-520/2 A-F-A-BQQE-PX1</p> <div data-bbox="268 380 518 705">  </div> <p data-bbox="590 683 1061 705">Note! Product picture may differ from actual product</p> <p data-bbox="199 712 470 739">Product No.: 96108794</p> <p data-bbox="199 772 1460 824">Single-stage, 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.</p> <p data-bbox="199 831 1460 882">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="199 889 917 916">Each power head is fitted with an unbalanced rubber bellows seal.</p> <p data-bbox="199 922 1460 949">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="199 978 1077 1005">Each power head is fitted with a fan-cooled asynchronous motor of identical size.</p> <p data-bbox="199 1012 1460 1081">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.</p> <p data-bbox="199 1088 1460 1169">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 data-bbox="199 1205 279 1238">Pump</p> <div data-bbox="207 1254 558 1612">  </div> <p data-bbox="199 1646 391 1673">1: Pump housing</p> <p data-bbox="199 1680 327 1706">2: Impeller</p> <p data-bbox="199 1713 343 1740">3: Stub shaft</p> <p data-bbox="199 1747 486 1774">4: Pump head/motor stool</p> <p data-bbox="199 1780 359 1807">5: Wear rings</p> <p data-bbox="199 1809 1460 1861">The twin-head pump is designed with two parallel power-heads. A non-return flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head.</p> <p data-bbox="199 1868 1460 1919">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="199 1926 694 1953">The impeller is secured to the shaft with a nut.</p> <p data-bbox="199 1960 1460 2029">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="199 2036 327 2063">Seal faces:</p> <ul data-bbox="239 2069 790 2096" style="list-style-type: none"> • Rotating seal ring material: silicon carbide (SiC)

Qty. Description

- Stationary seat material: silicon carbide (SiC)

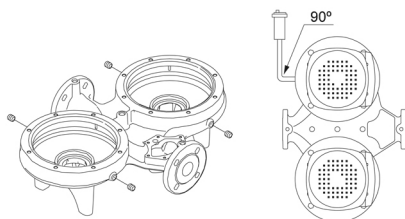
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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 pump housing has four Rp 1/8 tapings for mounting of automatic air vents. Fit an air vent to the upper pump housing if the twin-head pump is to be installed in a horizontal pipeline with horizontal pump shaft.



The flanges have tapings 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.

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (Code II).

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

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.

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.

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.

Further product details

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.

Technical data

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: 2940 rpm

Rated flow: 87.5 m³/h



Company name: Pump Sales Direct

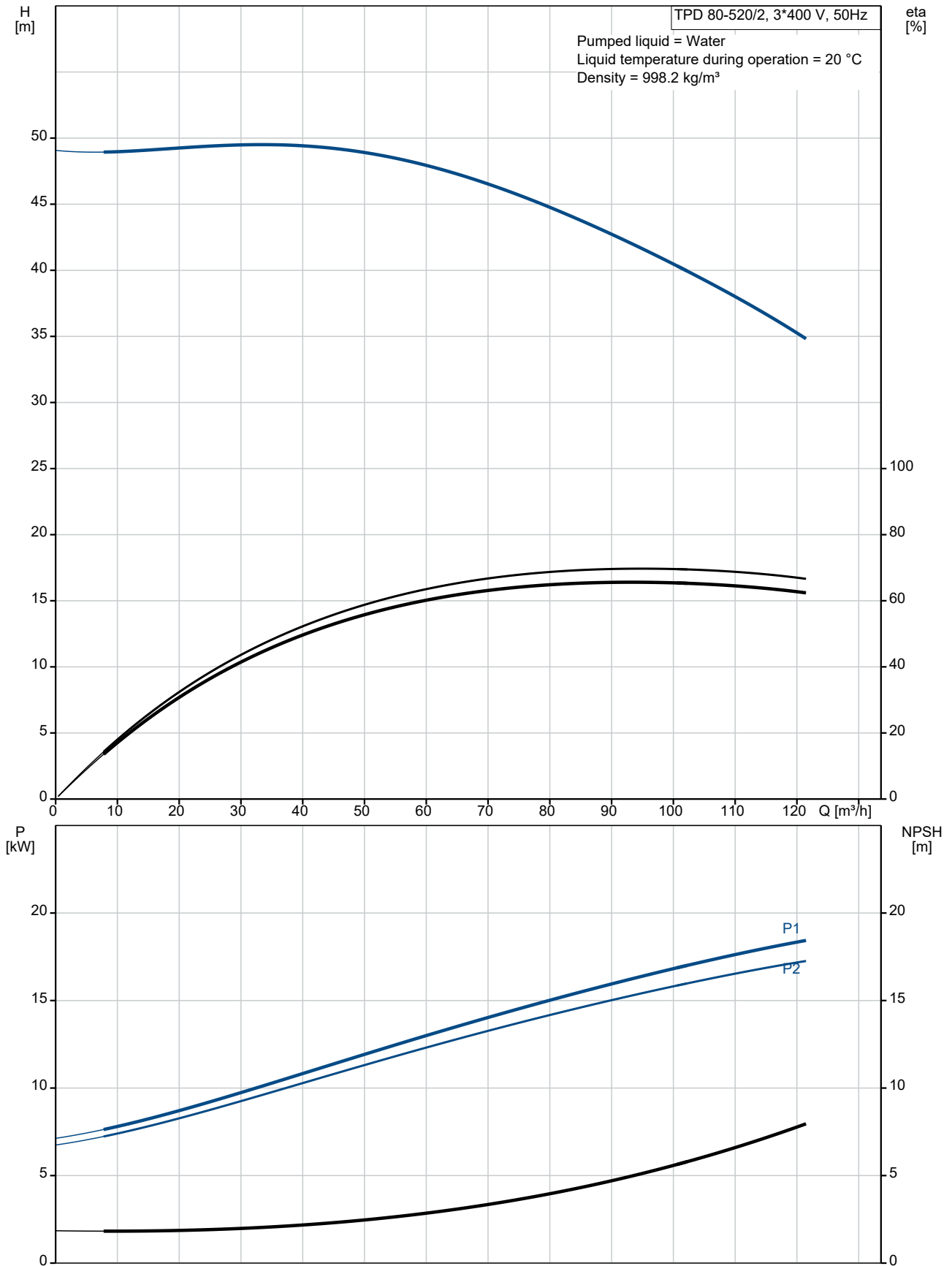
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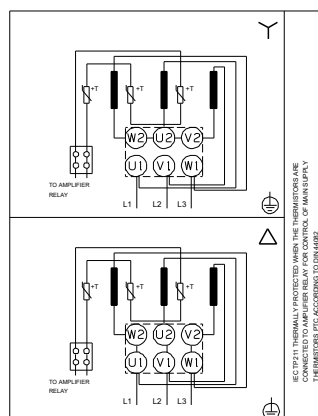
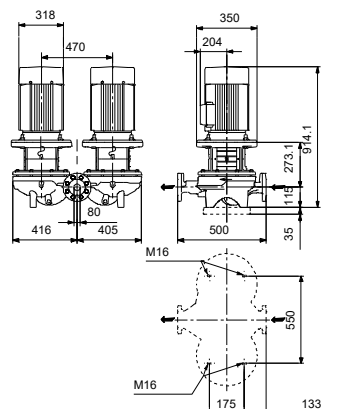
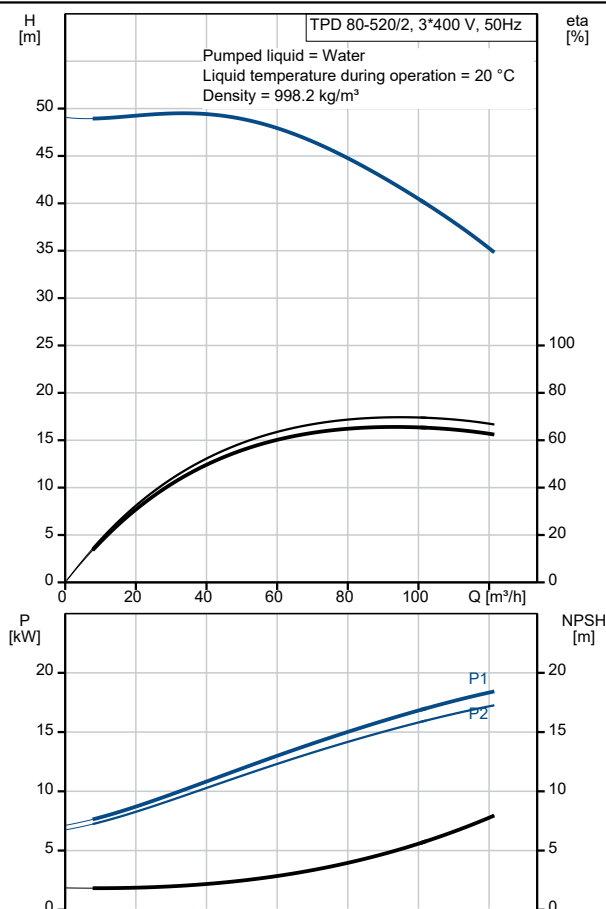
Date: 15/06/2022

Qty.	Description
	<p>Rated head: 43.2 m</p> <p>Actual impeller diameter: 190 mm</p> <p>Code for shaft seal: BQQE</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Pump housing: Cast iron EN-GJL-250 ASTM class 35</p> <p>Impeller: Cast iron EN-GJL-200 ASTM class 30</p> <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>Type of connection: DIN</p> <p>Size of connection: DN 80</p> <p>Pressure rating for connection: PN 16</p> <p>Port-to-port length: 500 mm</p> <p>Flange size for motor: FF300</p> <p>Electrical data:</p> <p>Motor type: 160LB</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 18.5 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-415D/660-690Y V</p> <p>Rated current: 34,5-32,5/20,0-18,8 A</p> <p>Starting current: 830-980 %</p> <p>Cos phi - power factor: 0.89-0.85</p> <p>Rated speed: 2940-2950 rpm</p> <p>Efficiency: IE3 92,4%</p> <p>Motor efficiency at full load: 92.4 %</p> <p>Motor efficiency at 3/4 load: 93.2 %</p> <p>Motor efficiency at 1/2 load: 93.2 %</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: 87420023</p> <p>Others:</p> <p>Minimum efficiency index, MEI ≥: 0.70</p> <p>Net weight: 369 kg</p> <p>Gross weight: 393 kg</p> <p>Shipping volume: 0.683 m³</p>

96108794 TPD 80-520/2 A-F-A-BQQE-PX1 50 Hz



Description	Value
General information:	
Product name:	TPD 80-520/2 A-F-A-BQQE-PX1
Product No:	96108794
EAN number:	5700396977607
Technical:	
Pump speed on which pump data are based:	2940 rpm
Rated flow:	87.5 m³/h
Rated head:	43.2 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/m³
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:	
Frequency converter:	NONE





Company name: Pump Sales Direct

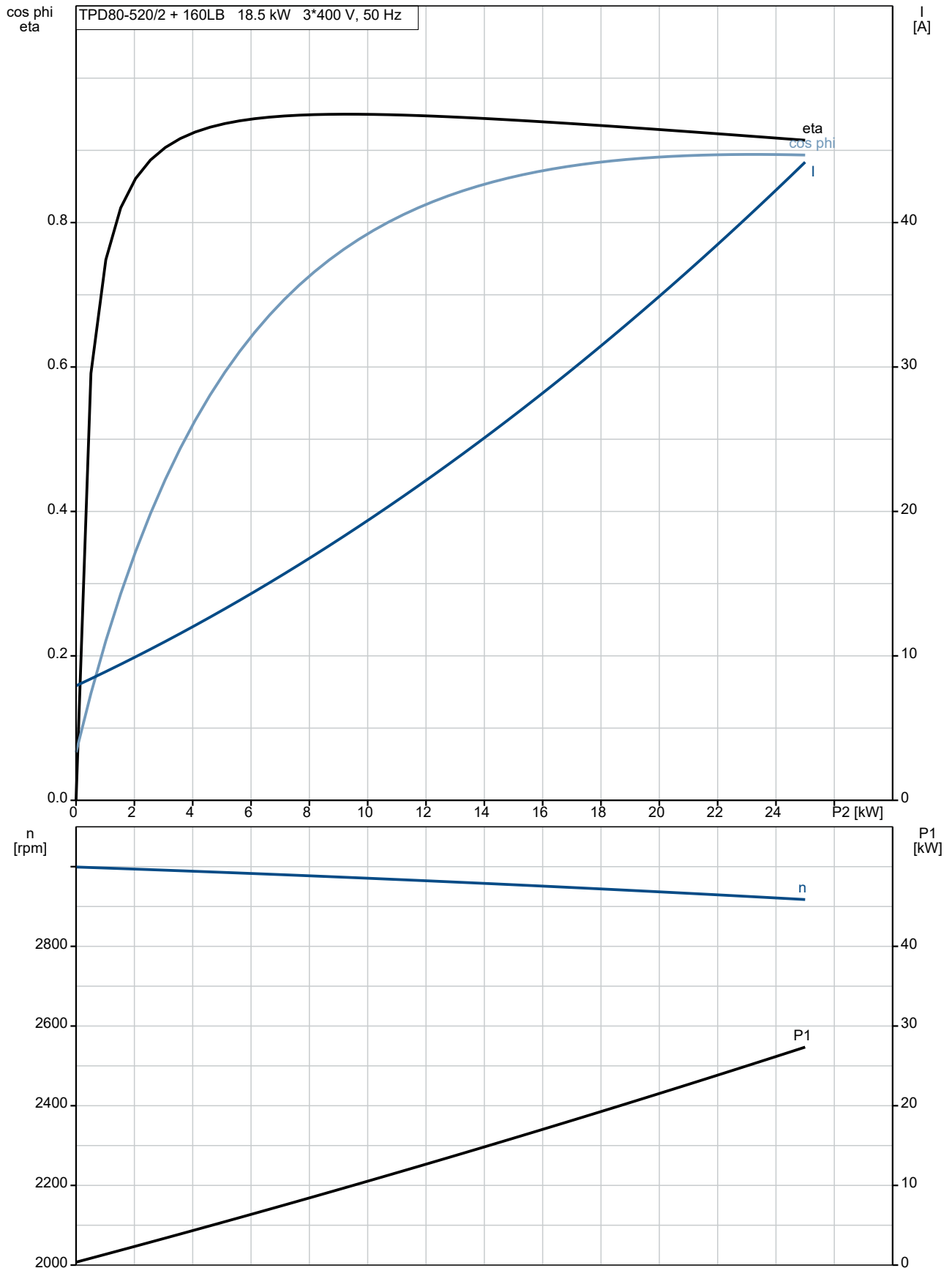
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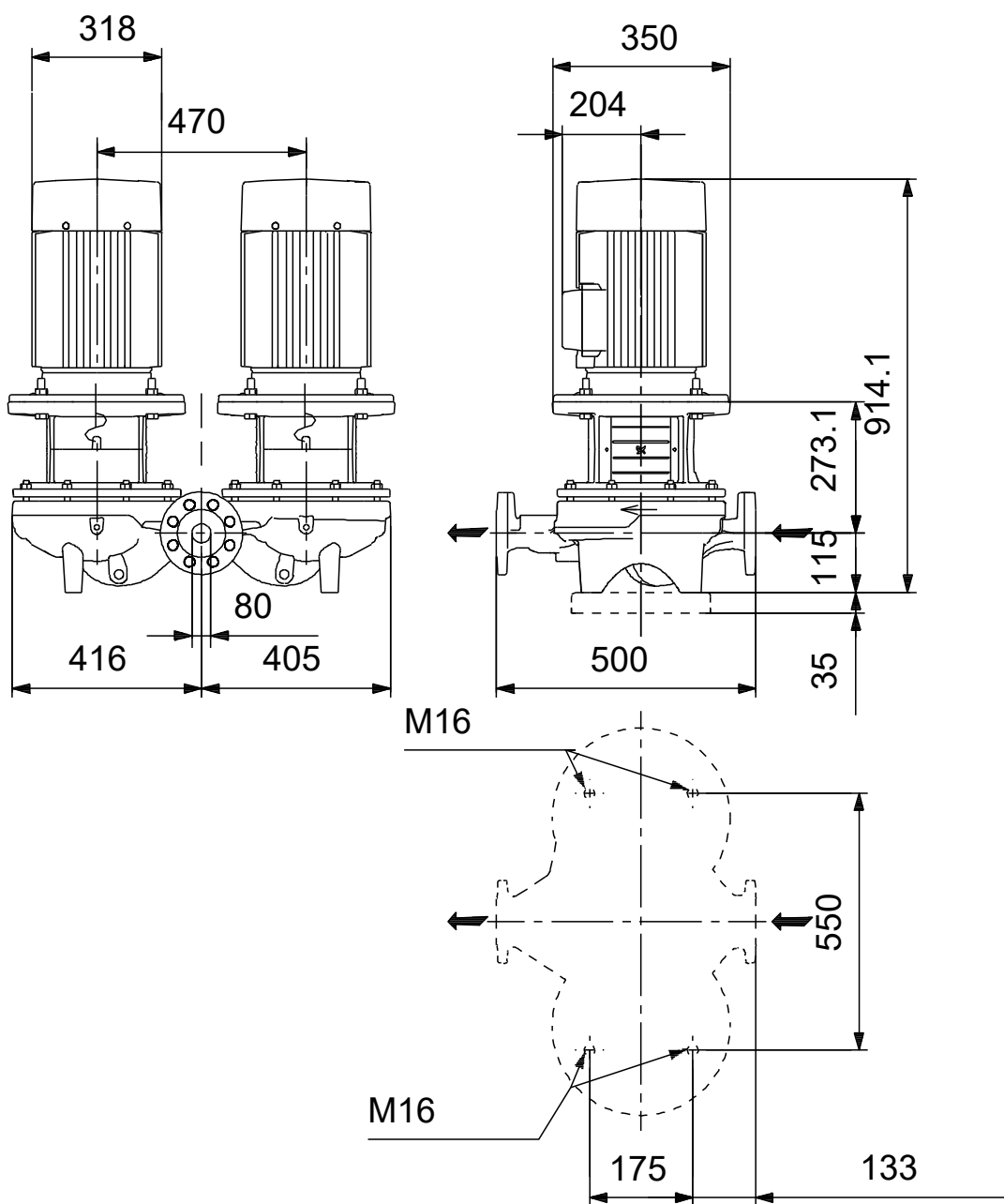
Date: 15/06/2022

Description	Value
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	369 kg
Gross weight:	393 kg
Shipping volume:	0.683 m ³

96108794 TPD 80-520/2 A-F-A-BQQE-PX1 50 Hz



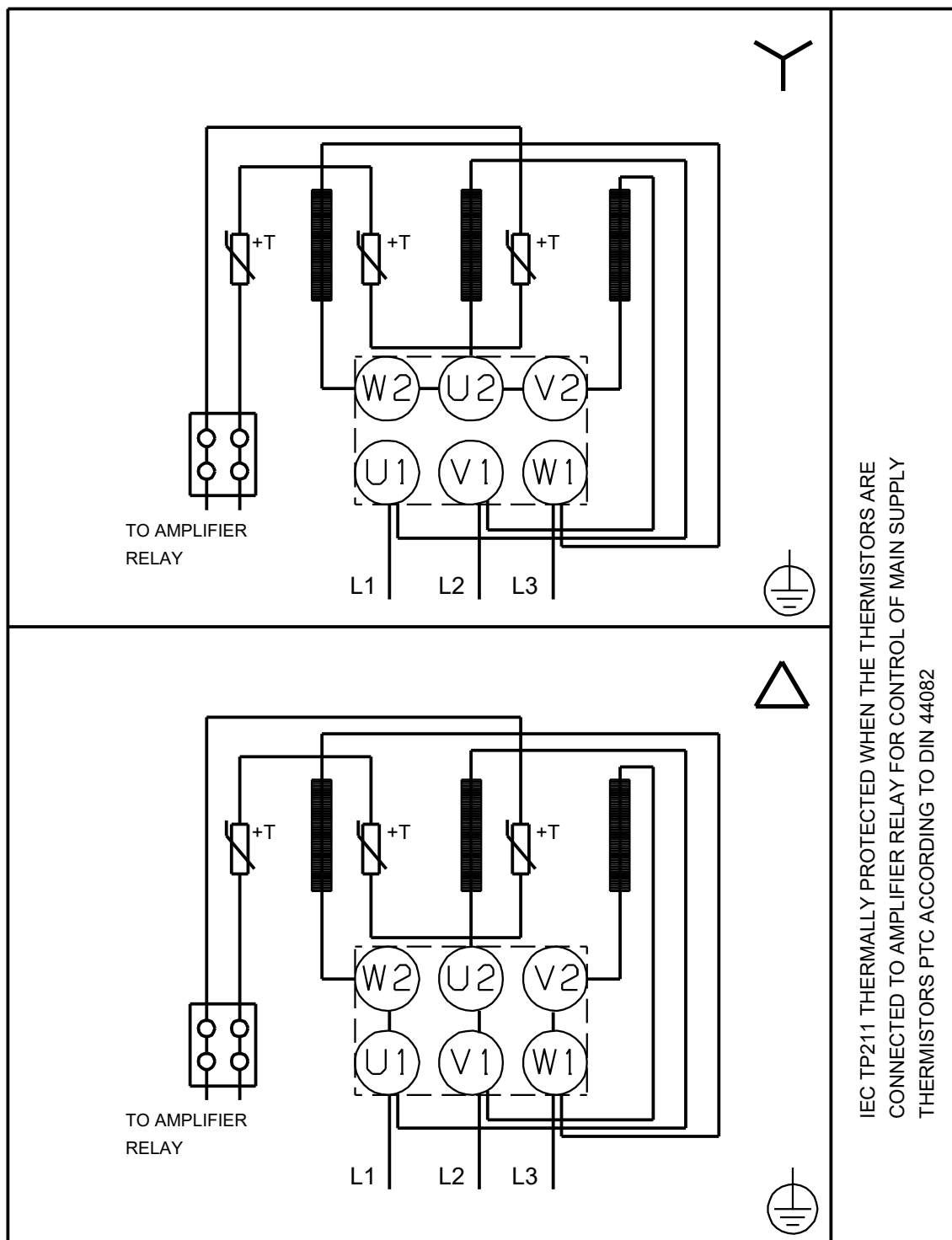
96108794 TPD 80-520/2 A-F-A-BQQE-PX1 50 Hz



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

Disclaimer: This simplified dimensional drawing does not show all details.

96108794 TPD 80-520/2 A-F-A-BQQE-PX1 50 Hz



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



Company name: Pump Sales Direct

Created by:

Phone:

Date: 15/06/2022

Order Data:

Product name: TPD 80-520/2

Amount: 1

Product No: 96108794

Total: Price on request
