
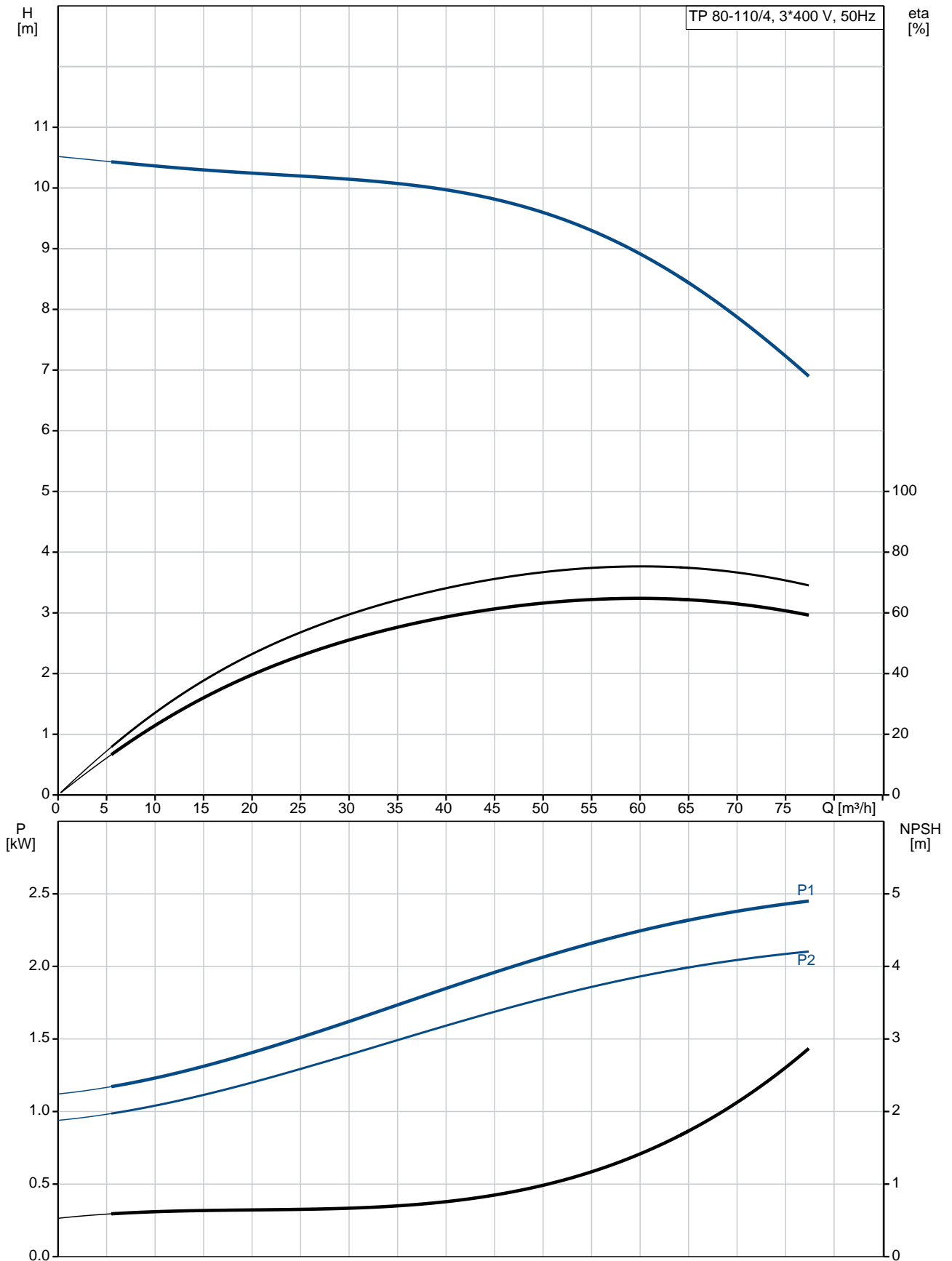


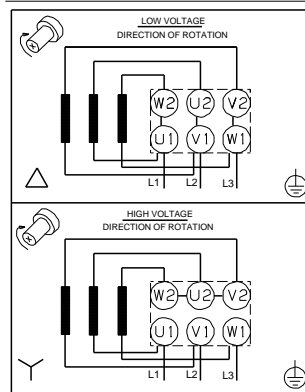
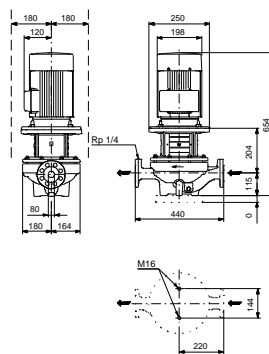
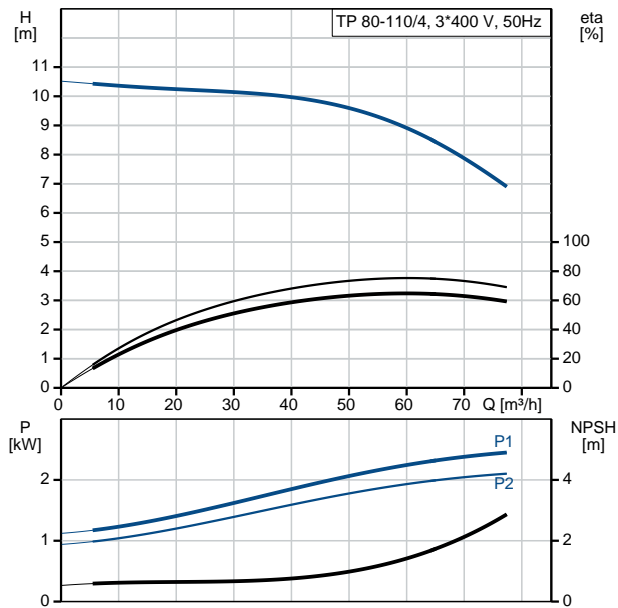
Position	Qty.	Description
	1	<p>TP 80-110/4 A-F-A-BQQE</p>  <p>Product No.: 96108849</p> <p>Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.</p> <p>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>The pump is fitted with a fan-cooled asynchronous motor.</p> <p>Liquid: Pumped liquid: Water Liquid temperature range: -25 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³</p> <p>Technical: Speed for pump data: 1445 rpm Rated flow: 59.4 m³/h Rated head: 8.9 m Actual impeller diameter: 177 mm Primary shaft seal: BQQE Curve tolerance: ISO9906:2012 3B</p> <p>Materials: Pump housing: Cast iron EN-JL1040 ASTM A48-40 B Impeller: Cast iron EN-JL1030 ASTM A48-30 B</p> <p>Installation: 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 stage: PN 16 Port-to-port length: 440 mm Flange size for motor: FF215</p> <p>Electrical data: Motor type: 100LB IE Efficiency class: IE3 Rated power - P2: 2.2 kW Power (P2) required by pump: 2.2 kW Mains frequency: 50 Hz</p>

Position	Qty.	Description
		<p>Rated voltage: 3 x 380-415D V Rated current: 4.9 A Starting current: 600-660 % Cos phi - power factor: 0,79-0,73 Rated speed: 1450 rpm Efficiency: IE3 86,7% Motor efficiency at full load: 86.7 % Motor efficiency at 3/4 load: 87.7 % Motor efficiency at 1/2 load: 87.6 % Number of poles: 4 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F</p> <p>Others: Label: Grundfos Blueflux Minimum efficiency index, MEI : 0.68 ErP status: EuP Standalone/Prod. Net weight: 81 kg Gross weight: 98 kg Shipping volume: 0.39 m³</p>

96108849 TP 80-110/4 50 Hz



Description	Value
General information:	
Product name:	TP 80-110/4 A-F-A-BQQE
Product No:	96108849
EAN number:	5700396978154
Technical:	
Speed for pump data:	1445 rpm
Rated flow:	59.4 m ³ /h
Rated head:	8.9 m
Head max:	110 dm
Actual impeller diameter:	177 mm
Primary shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron EN-JL1040 ASTM A48-40 B
Impeller:	Cast iron EN-JL1030 ASTM A48-30 B
Material code:	A
Installation:	
Range of ambient temperature:	-30 .. 60 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Connect code:	F
Pipe connection:	DN 80
Pump inlet:	DN 80
Pump outlet:	DN 80
Pressure stage:	PN 16
Port-to-port length:	440 mm
Flange size for motor:	FF215
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
Motor type:	100LB
IE Efficiency class:	IE3
Rated power - P2:	2.2 kW
Power (P2) required by pump:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D V
Rated current:	4.9 A
Starting current:	600-660 %
Cos phi - power factor:	0,79-0,73
Rated speed:	1450 rpm
Efficiency:	IE3 86,7%
Motor efficiency at full load:	86.7 %
Motor efficiency at 3/4 load:	87.7 %
Motor efficiency at 1/2 load:	87.6 %
Number of poles:	4





Company name:

Created by:

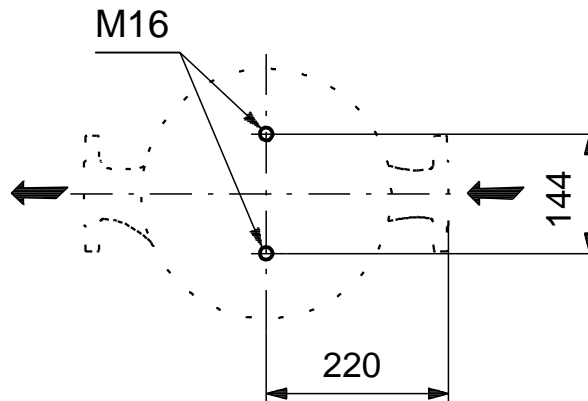
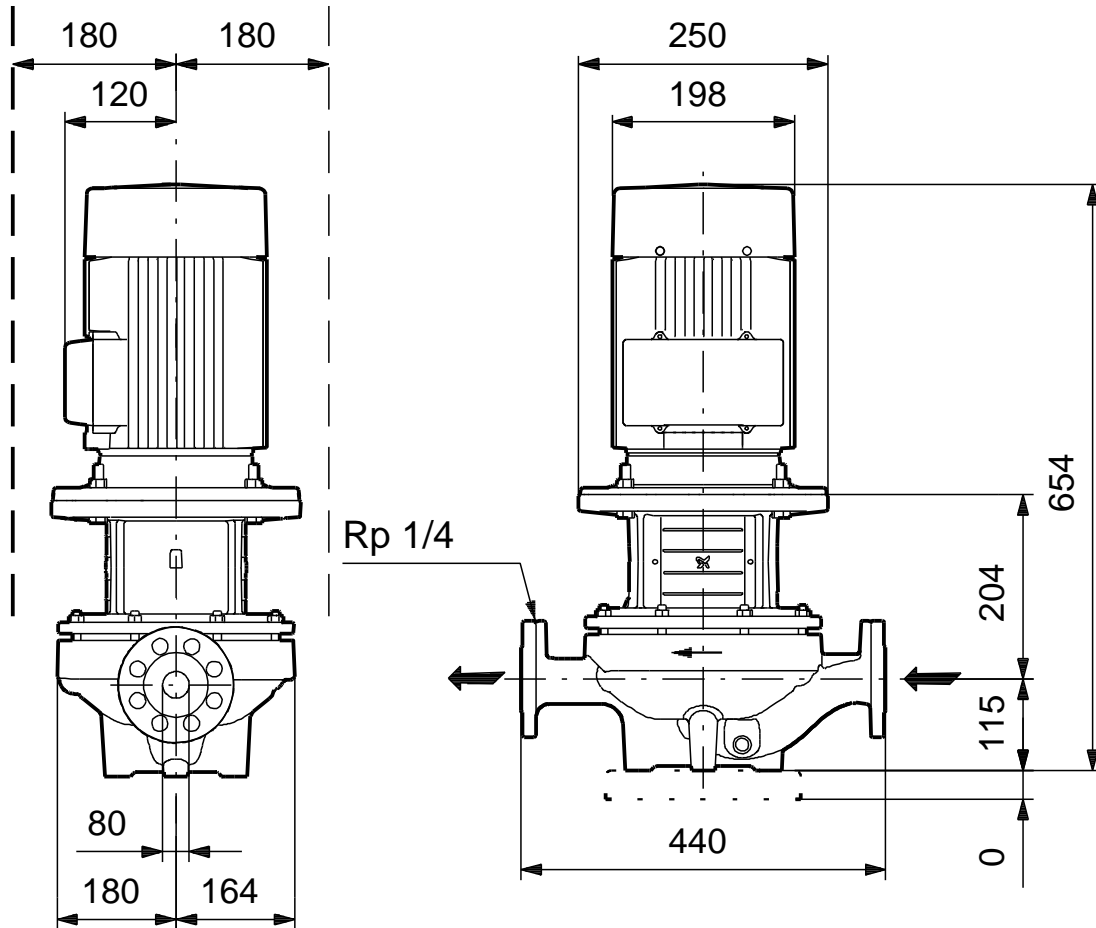
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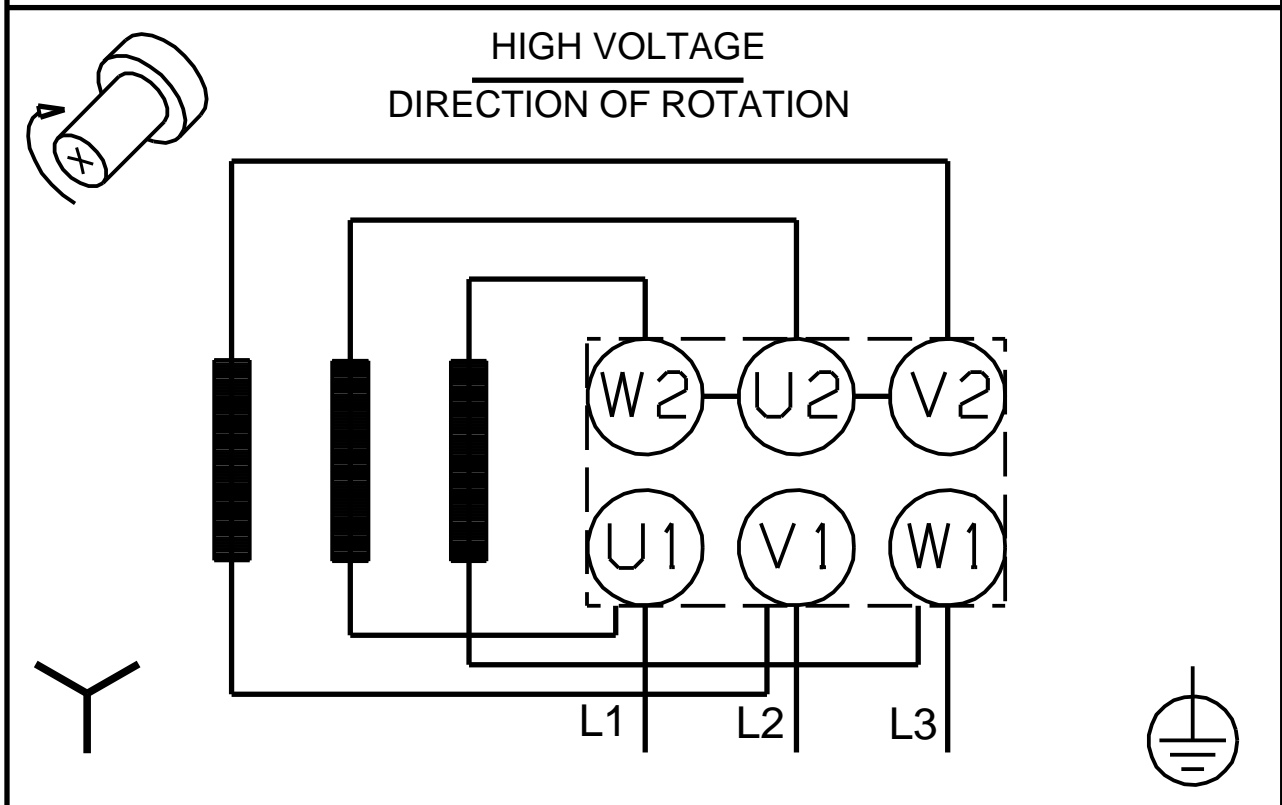
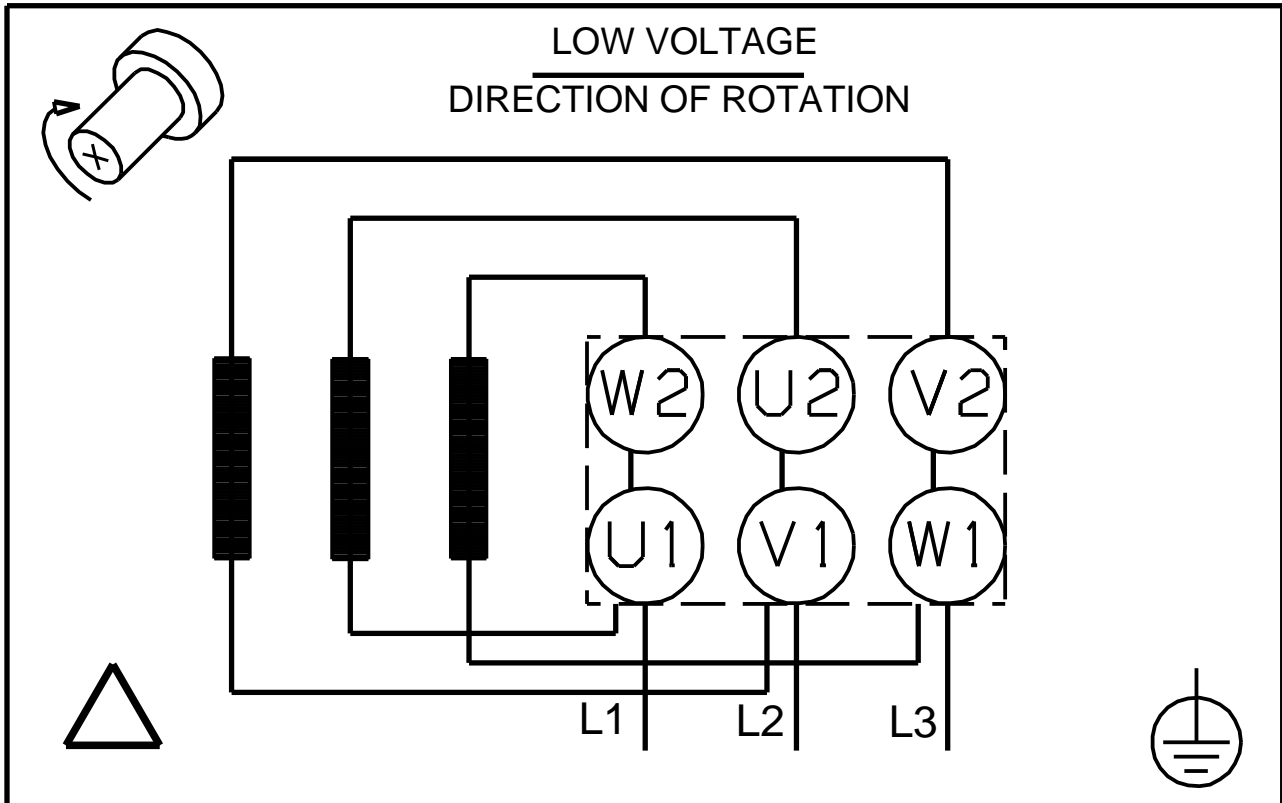
Description	Value
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	87270324
Others:	
Label:	Grundfos Blueflux
Minimum efficiency index, MEI :	0.68
ErP status:	EuP Standalone/Prod.
Net weight:	81 kg
Gross weight:	98 kg
Shipping volume:	0.39 m ³

96108849 TP 80-110/4 50 Hz



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

96108849 TP 80-110/4 50 Hz



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