

Date: 31/08/2017

Position | Qty. | Description

1 TP 80-90/4 A-F-A-BQQE



Product No.: 96108602

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.

Liquid:

Pumped liquid: Water
Liquid temperature range: -25 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Speed for pump data: 1445 rpm
Rated flow: 54.7 m³/h
Rated head: 7.6 m
Actual impeller diameter: 165 mm
Primary shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B

Materials:

Pump housing: Cast iron

EN-JL1040

ASTM A48-40 B

Impeller: Cast iron

EN-JL1030 ASTM A48-30 B

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: FF165

Electrical data:

Motor type: 90LC
IE Efficiency class: IE3
Rated power - P2: 1.5 kW
Power (P2) required by pump: 1.5 kW
Mains frequency: 50 Hz



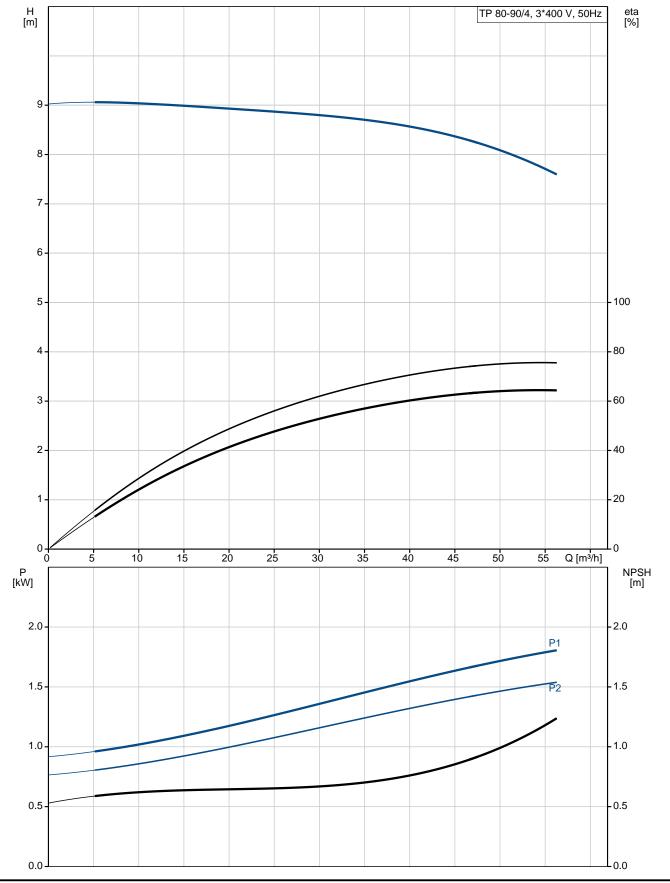
Date: 31/08/2017

			Date:	31/08/2017
Position	Qty.	Description		
		-	2 · · 000 040D/000 445V/V	
		Rated voltage:	3 x 220-240D/380-415Y V	
		Rated current:	6,15-6,30/3,55-3,65 A	
		Starting current:	730-790 %	
		Cos phi - power factor:	0,75-0,68	
		Rated speed:	1450-1460 rpm	
		Efficiency:	IE3 85,3%	
		Motor efficiency at full load:	85.3 %	
		Motor efficiency at 3/4 load:	85.8 %	
		Motor efficiency at 1/2 load:	84.2 %	
		Number of poles:	4	
		Enclosure class (IEC 34-5):	55 Dust/Jetting	
		Insulation class (IEC 85):	F	
		insulation class (IEO 05).	ı	
		Others:		
			Crum dia a Divertions	
		Label:	Grundfos Blueflux	
		Minimum efficiency index, MEI		
		ErP status:	EuP Standalone/Prod.	
		Net weight:	73 kg	
		Gross weight:	87 kg	
		Shipping volume:	0.39 m³	
	l	I		



Date: 31/08/2017

96108602 TP 80-90/4 50 Hz

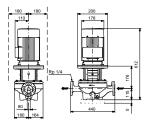




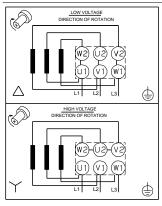
Date: 31/08/2017

Description	Value
General information:	
Product name:	TP 80-90/4 A-F-A-BQQE
Product No:	96108602
EAN number:	5700396975580
Technical:	
Speed for pump data:	1445 rpm
Rated flow:	54.7 m³/h
Rated head:	7.6 m
Head max:	90 dm
Actual impeller diameter:	165 mm
Primary shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	Α
Materials:	
Pump housing:	Cast iron
_	EN-JL1040
	ASTM A48-40 B
Impeller:	Cast iron
	EN-JL1030
	ASTM A48-30 B
Material code:	Α
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:	FF165
Liquid:	
Pumped liquid:	Water

H [m]	TP 80-90/4, 3*400 V, 50Hz	eta [%]
9 -		
8 -		
7 -		
6 -		
5 -		- 100
4 -		- 80
3-		- 60
2 -		- 40
1 -		- 20
0		L ₀
P [kW]	P1	NPSH [m]
1.5 -	P2	- 1.5
1.0 -		- 1.0
0.5 -		- 0.5
0.0		L _{0.0}









Liquid temperature during operation:

Liquid temperature range:

Density:

Number of poles:

Rated power - P2: 1.5 kW
Power (P2) required by pump: 1.5 kW
Mains frequency: 50 Hz
Rated voltage: 3 x 220-

Rated voltage: 3 x 220-240D/380-415Y V Rated current: 6,15-6,30/3,55-3,65 A

-25 .. 120 °C

998.2 kg/m³

20 °C

Starting current: 730-790 %

Cos phi - power factor: 0,75-0,68

Rated speed: 1450-1460 rpm

Efficiency: IE3 85,3%

Motor efficiency at full load: 85.3 %

Motor efficiency at 3/4 load: 85.8 %

Motor efficiency at 1/2 load: 84.2 %



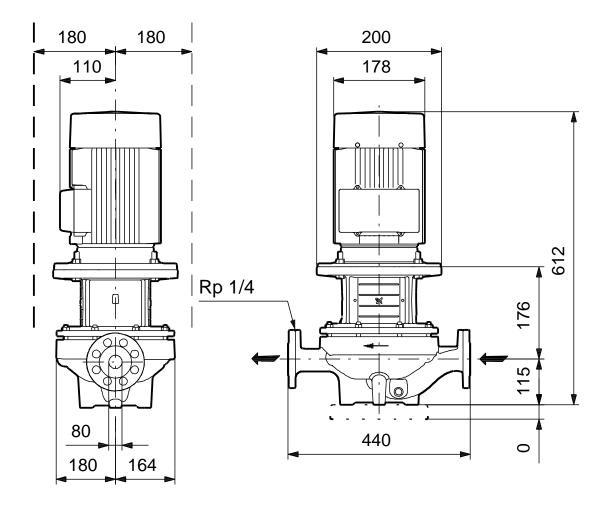
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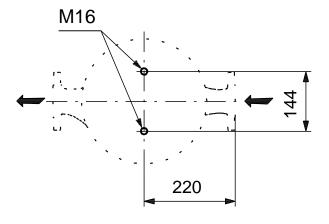
Description	Value
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	87220319
Others:	
Label:	Grundfos Blueflux
Minimum efficiency index, MEI :	0.68
ErP status:	EuP Standalone/Prod.
Net weight:	73 kg
Gross weight:	87 kg
Shipping volume:	0.39 m³



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



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