

Inventflow: Grundfos A-partner

Grundfos TP 80-120/2 AI-F-A-BQQE-HX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tp/grundfos-tp-80-120-2-ai-f-a-bqqe-hx1>

Contact

info@inventflow.nl

+31 (0) 546 45 80 72

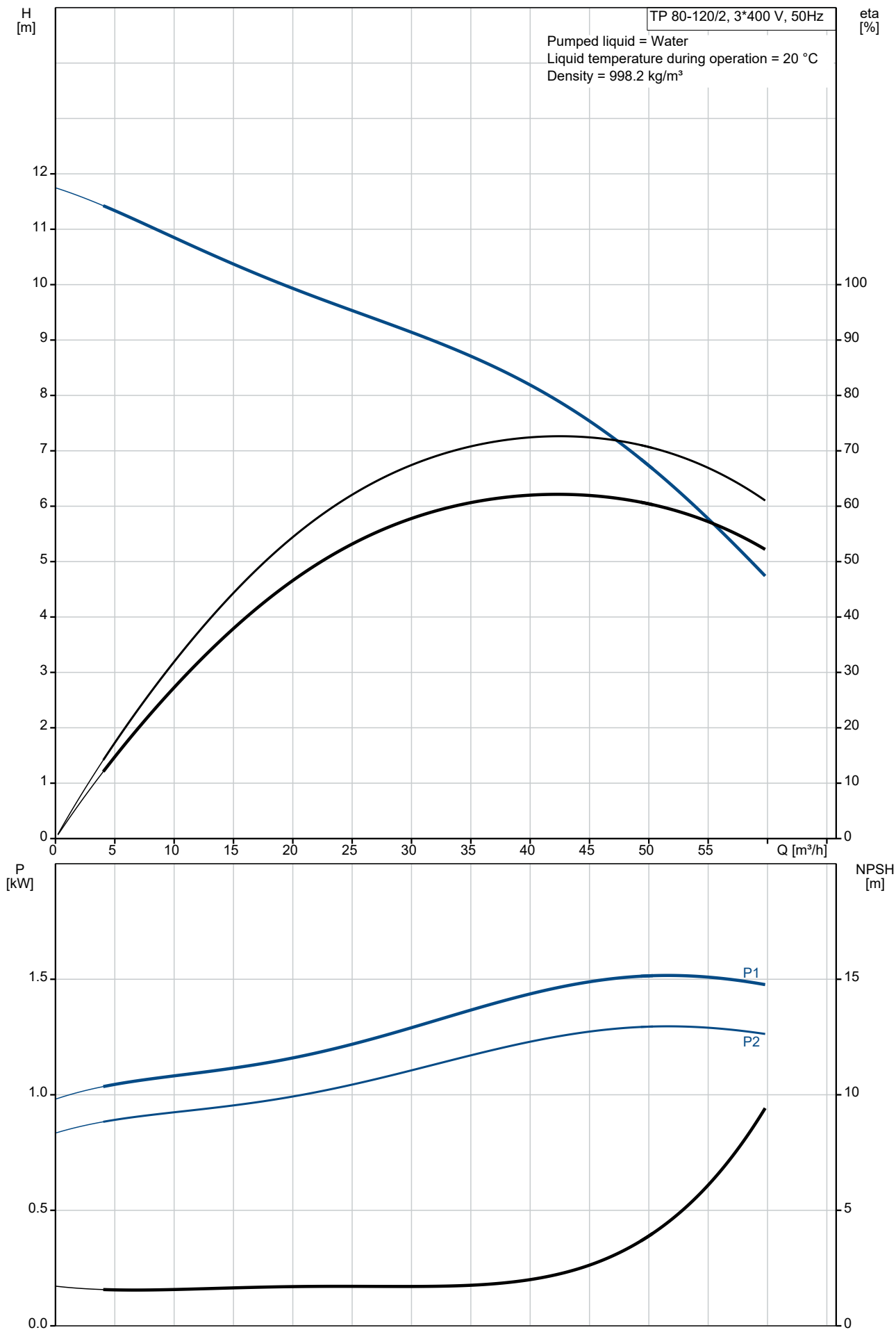
Datasheet



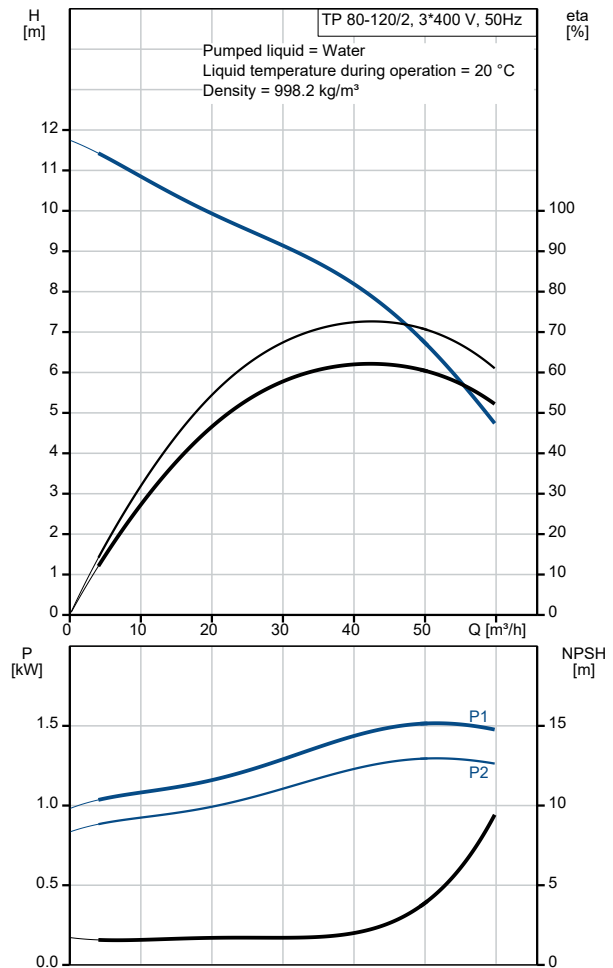
Qty.	Description
1	TP 80-120/2 AI-F-A-BQQE-HX1  Note! Product picture may differ from actual product Product No.: 98843904 Single-stage centrifugal volute in-line single-head pump: - neck rings and impeller made of stainless steel - cataphoresis treatment - shell coupling - top-pull-out principle for easy maintenance - optimized hydraulics - in-line design with opposite suction and discharge ports enabling mounting in pipework or on a concrete foundation - corrosion resistant maintenance-free mechanical shaft seal. Phase: The motor is a 3-phase AC motor. 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: 2910 rpm Rated flow: 42.5 m³/h Rated head: 7.91 m Actual impeller diameter: 95 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Materials: Pump housing: Cast iron EN-GJL-250 ASTM class 35 Impeller: Stainless steel EN 1.4301 AISI 304 Installation: Range of ambient temperature: -30 .. 60 °C Maximum operating pressure: 6 bar Max pressure at stated temp: 6 bar / 120 °C Type of connection: DIN Size of connection: DN 80

Qty.	Description
	Pressure rating for connection: PN 6 Port-to-port length: 360 mm Flange size for motor: FT115 Electrical data: Motor type: 90SD IE Efficiency class: IE3 Rated power - P2: 1.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 5.70/3.30 A Starting current: 750-820 % Cos phi - power factor: 0.84-0.78 Rated speed: 2890-2910 rpm Efficiency: IE3 84,2% Motor efficiency at full load: 84.2-84.2 % Motor efficiency at 3/4 load: 86.4 % Motor efficiency at 1/2 load: 86.0 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U01906 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 47.2 kg Gross weight: 55.8 kg Shipping volume: 0.2 m³ Finnish LVI No.: 4616094 Norwegian NRF no.: 9043589 Country of origin: HU Custom tariff no.: 84137051

98843904 TP 80-120/2 AI-F-A-BQQE-HX1 50 Hz

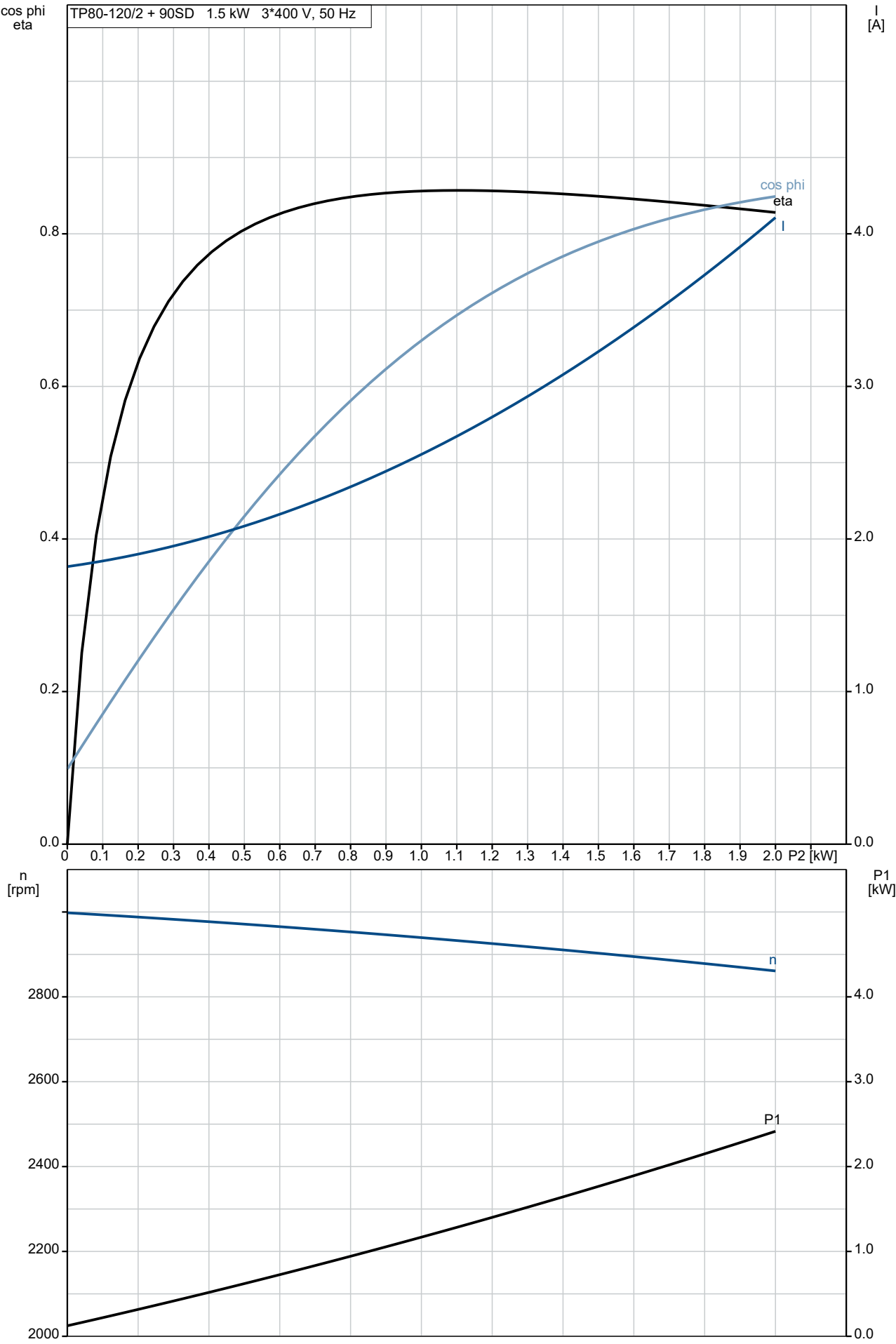


Description	Value
General information:	
Product name:	TP 80-120/2 AI-F-A-BQQE-HX1
Product No:	98843904
EAN number:	5712602260182
Technical:	
Pump speed on which pump data are based:	2910 rpm
Rated flow:	42.5 m³/h
Rated head:	7.91 m
Maximum head:	120 dm
Actual impeller diameter:	95 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
Pump version:	AI
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM class 35
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Installation:	
Range of ambient temperature:	-30 .. 60 °C
Maximum operating pressure:	6 bar
Max pressure at stated temp:	6 bar / 120 °C
Type of connection:	DIN
Size of connection:	DN 80
Pressure rating for connection:	PN 6
Port-to-port length:	360 mm
Flange size for motor:	FT115
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:	90SD
IE Efficiency class:	IE3
Rated power - P2:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	5.70/3.30 A
Starting current:	750-820 %
Cos phi - power factor:	0.84-0.78
Rated speed:	2890-2910 rpm
Efficiency:	IE3 84,2%
Motor efficiency at full load:	84.2-84.2 %
Motor efficiency at 3/4 load:	86.4 %
Motor efficiency at 1/2 load:	86.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U01906
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	47.2 kg
Gross weight:	55.8 kg
Shipping volume:	0.2 m³

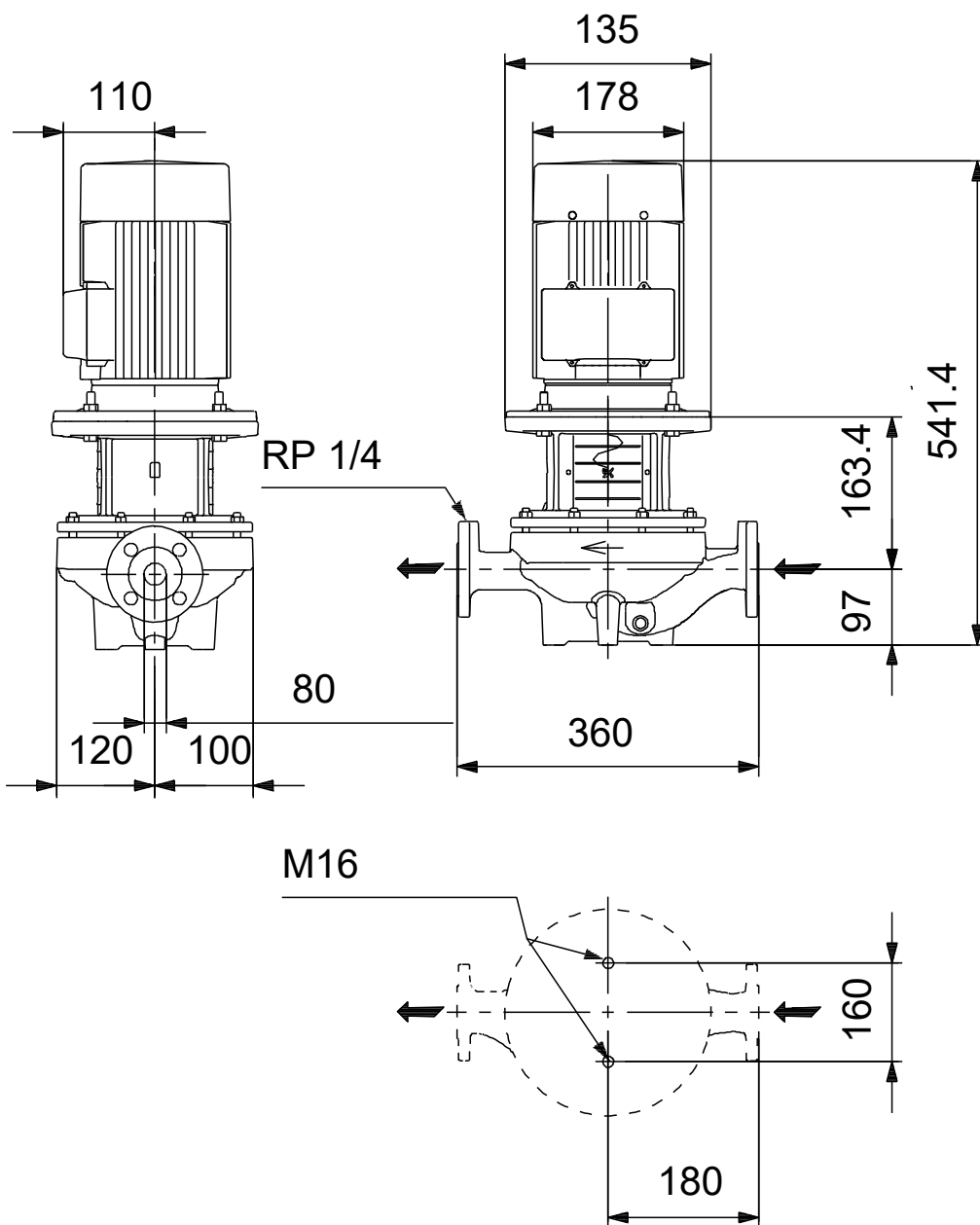


Description	Value
Finnish LVI No.:	4616094
Norwegian NRF no.:	9043589
Country of origin:	HU
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98843904 TP 80-120/2 AI-F-A-BQQE-HX1 50 Hz



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

Spare parts TP 80-120/2, Product No. 98843904
Produced After 1945 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, coupling			00339124	1	pcs
9	Hex socket head cap screw		Designation: DIN 912		4	
			Length (mm): 25			
			Thread: M8			
10a	Coupling half				2	
10	Shaft pin		Diameter: 5		1	
			Length (mm): 26			
-	Kit, shaft seal			98313337	1	pcs
	Plug				2	
72a	O-ring		Diameter: 154		1	
			Material type: EPDM			
			Thickness: 4			
72a	O-ring				1	
105	Shaft seal				1	
-	Shaft w/impeller cpl.			98313243	1	pcs
49b	Split cone nut			96547794	1	
49b	Split cone			96547795	1	
49	Impeller			96547856	1	
51	Pump shaft			96547792	1	
-	Pump housing cpl.			98313186	1	pcs
45	Neck ring			96591223	1	
-	Motor			99606486	1	pcs
-	Kit, bearing cpl.			96279794	1	
111	Ball bearing				1	
154	Ball bearing				1	
157	O-ring		Diameter: 52		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
187	Retaining ring				1	
188	Retaining ring				1	
-	Kit, end shield			96279789	1	
156a	End shield				1	
157a	Gasket		Internal diameter: 141,2		1	
			Outer diameter: 145,5			
			Thickness: 0,2			
157	O-ring		Diameter: 52		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
159a	Seal ring				1	
-	Kit, fan			96279757	1	
156	Fan				1	
159a	Seal ring				1	
-	Kit, fan cover			96279755	1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
-	Kit, flange			96279777	1	
156b	Flange				1	
159.c	Seal ring				1	
184	Gasket		Internal diameter: 141,2		1	
			Outer diameter: 145,5			
			Thickness: 0,2			
186	Drain plug				3	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, retaining ring			96279798	1	
187	Retaining ring				1	
188	Retaining ring				1	
-	Kit, shaft seal			96279761	1	
159c	Seal ring				1	
159a	Seal ring				1	
-	Kit, staybolts			96279791	1	
181	Pan head staybolt				4	
-	Kit, terminal board			96279769	1	
	Bracket cpl.				1	
163	Hex socket head screw				1	
173a	Base				1	
173	Pan head thread forming screw		Designation: COMBI TORX T25		1	
176	Slot cheese head screw		Designation: COMBI TORX T25		6	
			Length (mm): 10			
			Thread: M5			
176	Terminal				1	
176	Connecting piece				3	
176	Wire clamp				3	
176	Terminal board				1	
177	Pan head screw				1	
-	Kit, terminal box			96279771	1	
164	Terminal box cover w/gasket				1	
166	Pan head thread forming screw				4	
7a	Pan head screw			96536492	4	pcs
7	Coupling guard			96590459	2	pcs
10	Shaft pin		Diameter: 5	96536473	1	pcs
			Length (mm): 26			
10	Shaft pin		Diameter: 5	96587588	1	pcs
			Length (mm): 26			
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
19	Plug			98163028	2	pcs
26	Hex head screw		Length (mm): 25	97506945	8	pcs
			Thread: M10			
28	Hex head screw		Length (mm): 20	99932722	4	pcs
			Thread: M8			
72a	O-ring		Diameter: 154	98163015	1	pcs
			Material type: EPDM			
			Thickness: 4			