

Inventflow: Grundfos A-partner

Grundfos TPE 80-520/2 A-F-A-BQQE-PX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-80-520-2-a-f-a-bqqe-px1>

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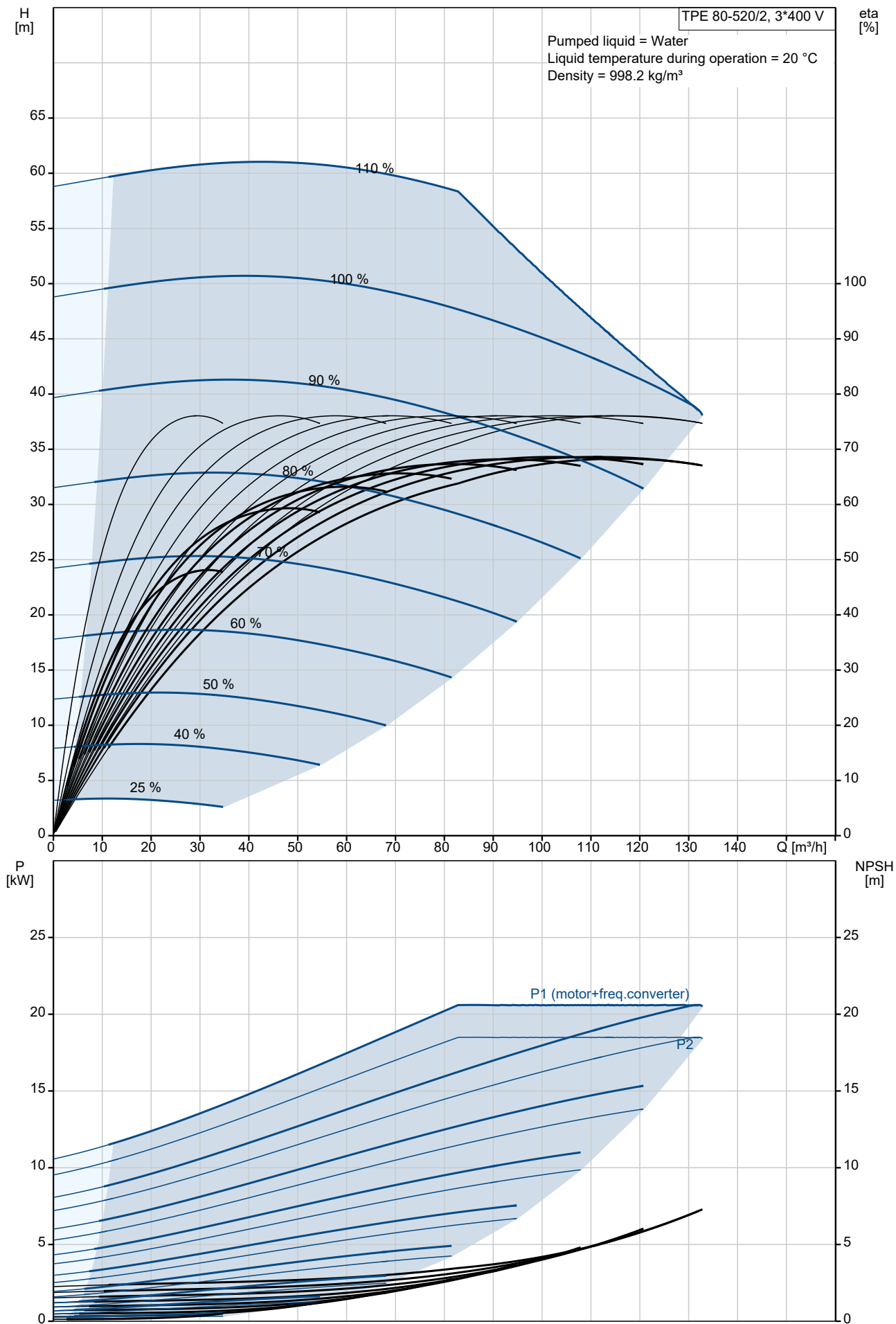
Datasheet



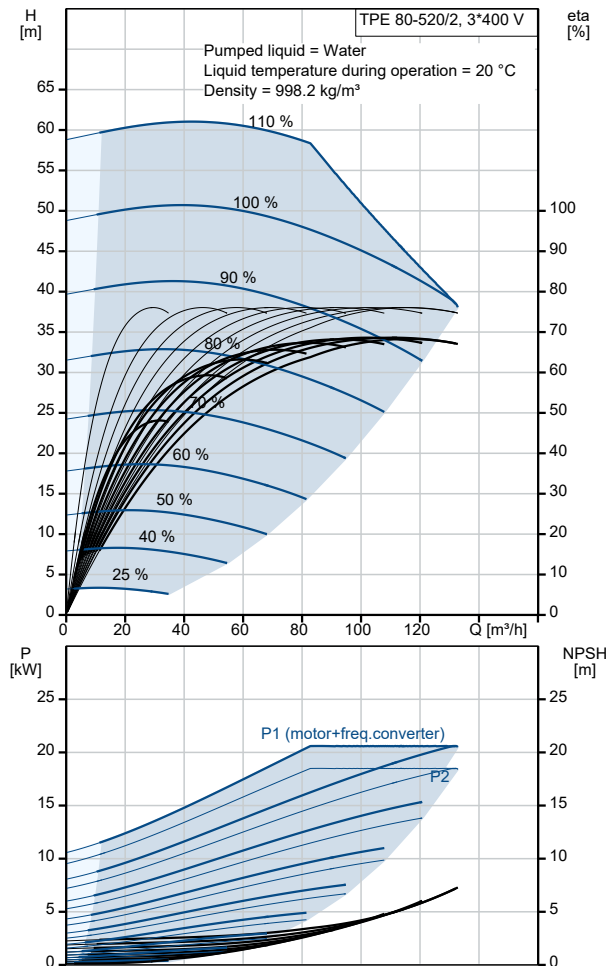
Qty.	Description
1	TPE 80-520/2 A-F-A-BQQE-PX1  Note! Product picture may differ from actual product Product No.: 96110066 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. The shaft seal is a corrosion resistant maintenance-free mechanical seal. The pump is fitted with an IEC-flanged three-phase MGE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required as both motor and electronics are protected by integrated overload and temperature protection. External sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required. A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault". Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". The terminal box holds terminals for the connection of: - Pump start/stop (potential-free contact), - external remote setpoint setting via analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 5 V voltage supply for setpoint potentiometer, I_{max} = 5 mA, - sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 24 V voltage supply for sensor, I_{max} = 40 mA, - input for forced control to MIN or MAX

Qty.	Description
	(potential-free contact), - potential-free fault signal relay with changeover contact, - RS485 GENIbus. Controls: Frequency converter: Built-in 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: 113 m³/h Rated head: 42.4 m Actual impeller diameter: 190 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B Materials: Pump housing: Cast iron EN-GJL-250 ASTM class 35 Impeller: Cast iron EN-GJL-200 ASTM class 30 Installation: Range of ambient temperature: -20 .. 40 °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 380-480 V Rated current: 37.0-31.0 A Cos phi - power factor: 0.91-0.88 Rated speed: 480-3540 rpm Efficiency: IE3 92,4% Motor efficiency at full load: 92.4 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 85901226 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 219 kg Gross weight: 255 kg Shipping volume: 0.56 m³ Danish VVS No.: 382015520 Finnish LVI No.: 4616488 Country of origin: HU Custom tariff no.: 84137051

96110066 TPE 80-520/2 A-F-A-BQQE-PX1 50 Hz

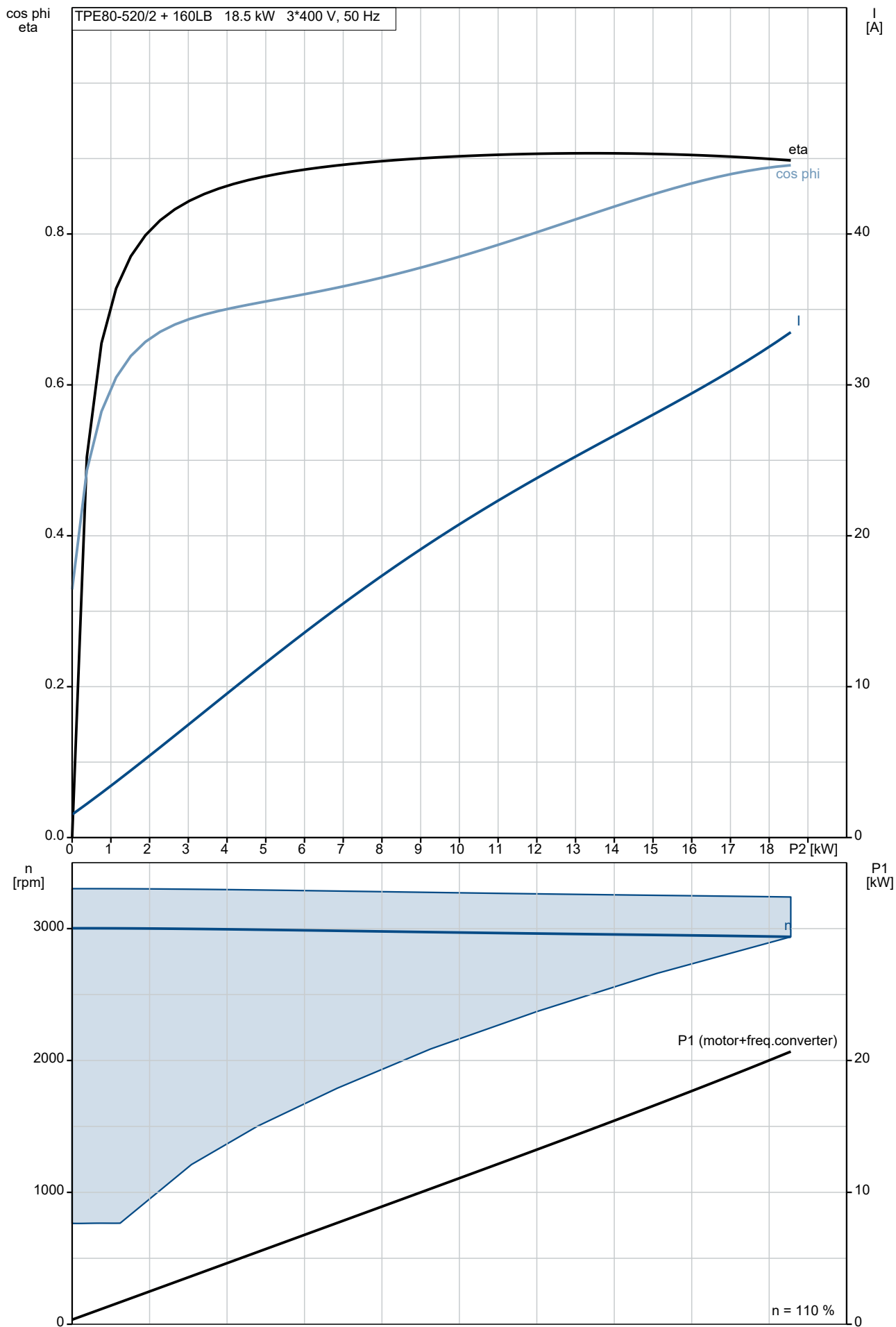


Description	Value
General information:	
Product name:	TPE 80-520/2 A-F-A-BQQE-PX1
Product No:	96110066
EAN number:	5700397021880
Technical:	
Pump speed on which pump data are based:	2940 rpm
Rated flow:	113 m³/h
Rated head:	42.4 m
Maximum head:	520 dm
Actual impeller diameter:	190 mm
Code for shaft seal:	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:	-20 .. 40 °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 380-480 V
Rated current:	37.0-31.0 A
Cos phi - power factor:	0.91-0.88
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,4%
Motor efficiency at full load:	92.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	85901226
Controls:	
Control panel:	Standard
Function Module:	PUMP I/O
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	219 kg
Gross weight:	255 kg
Shipping volume:	0.56 m³
Config. file no:	95139405

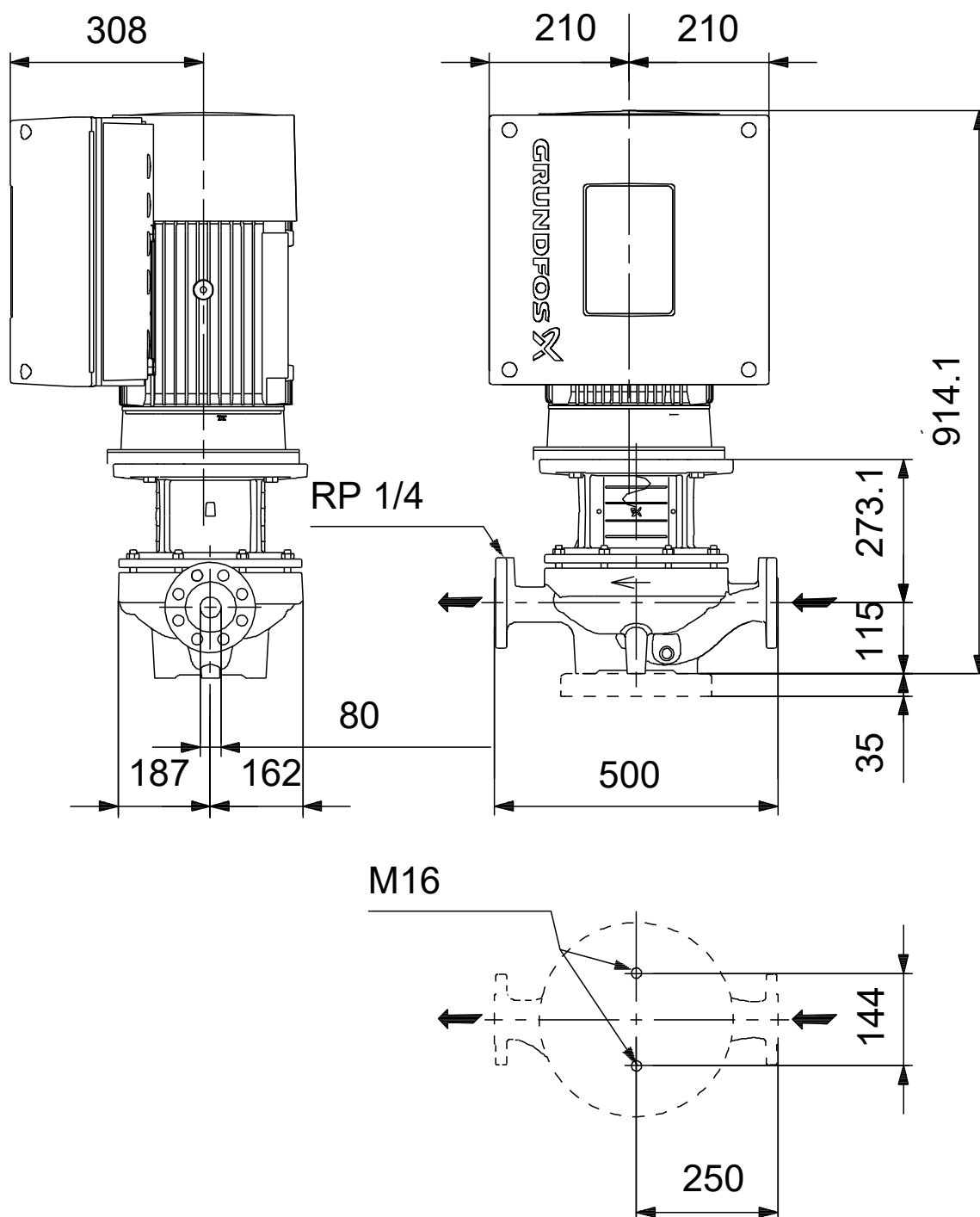


Description	Value
Danish VVS No.:	382015520
Finnish LVI No.:	4616488
Country of origin:	HU
Custom tariff no.:	84137051

96110066 TPE 80-520/2 A-F-A-BQQE-PX1 50 Hz



96110066 TPE 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.

Spare parts TPE 80-520/2, Product No. 96110066
Produced After 0906 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, Base plate			00485031	1	pcs
28g	Hex head screw				2	
56	Base plate				1	
+	Kit, stub shaft			96039354	1	pcs
-	Motor				1	pcs
-	Kit, bearing cpl.			96796674	1	
32b	Waved washer				1	
111	Ball bearing				1	
154	Ball bearing				1	
157	O-ring				1	
-	Kit, bearing plate			96796664	1	
155.a	Bearing cover				1	
208a	Gasket				3	
208	Hex socket head cap screw		Designation: DIN912		3	
			Length (mm): 40			
			Thread: M5			
-	Kit, connector plugs			96348923	1	
	Connector plug 5-pole				1	
	Connector plug 4-pole				1	
	Connector plug 4-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug 3-pole				1	
	Connector plug				1	
- 273	Kit, control board			96348918	1	
	Service kit instruction				1	
	Controlboard				1	
-	Kit, eyebolt			96796712	1	
189	Eyebolt				2	
-	Kit, fan cover			96830826	1	
151	Fan cover				1	
152.a	Rubber bush				4	
152	Hex head cap screw				4	
196	Diaphragm				1	
-	Kit, flange			96796662	1	
156.b	Flange				1	
159.b	Seal ring				1	
185.b	Nut				4	
185	Hex socket head cap screw				4	
186	Drain plug				4	
195.a	Grease nipple				1	
-	Kit, funct. module - E-pump			96348929	1	
263	MGE large I/O add-on				1	
-	Kit, funct. module -Geni/RS485			96348932	1	
263	Add-on module, cpl. w/plugs				1	
-	Kit, gaskets			96798508	1	
184	O-ring		Diameter: 235		2	
275	Kit, inverter board			96348920	1	
-	Kit, key			96279873	1	
40	Parallel key		Designation: DS96 DIN 6885		1	
			Dimension: 12X8X90			
-	Kit, lubrication nipple			96796671	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
195.b	Grease nipple				2	
195.a	Grease nipple				1	
-	Kit, motor			96844382	1	
	Flex insulation				3	
	EMC filter				1	
	Cover cpl.				1	
	Motor				1	
99a	Retaining ring				1	
151	Fan cover				1	
152.a	Rubber bush				4	
152	Hex head cap screw				4	
156	Fan				1	
177	Torx Screw				1	
185.b	Nut				4	
196	Diaphragm				1	
273a	Pan head thread forming screw				4	
-	Kit, ND-end shield cpl.			96796669	1	
32b	Waved washer				1	
156.a	End shield NDE				1	
157	O-ring				1	
159	V-ring				1	
185.c	Nut				4	
185.a	Hex socket head cap screw				4	
195.b	Grease nipple				1	
-	Kit, opr. panel			96348924	1	
259	Operation panel				1	
274	Kit, rectifier board			96348921	1	
-	Kit, terminal box			96348914	1	
164	Cover cpl.				1	
166	Pan head thread forming screw				5	
251	Terminal box				1	
277	Blind cover				1	
283	Motor cover cpl.				1	
284	Cover				1	
-	Kit, varistor			96348917	1	
279.b	Pan head thread forming screw				2	
279	Varistor				1	
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
28	Hex head screw	Length (mm): 60 Thread: M16		97506949	2	pcs
28	Hex head screw			96620478	2	pcs
36	Hex nut	Thread: M16		96620480	4	pcs
49	Impeller			98296642	1	pcs
- 50	Pump housing cpl.			98892155	1	pcs
36	Nut	Thread: M10		96620484	8	
67	Nut	Thread: M14		92526531	1	pcs
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53		92547617	1	pcs
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53		97511825	1	pcs
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53		97757671	1	pcs
77a	Pan head screw			99266550	4	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
105	Shaft seal			99380916	1	pcs
105	Shaft seal			99884645	1	pcs