

Inventflow: Grundfos A-partner

Grundfos TPE 200-160/4 A-F-A-BQQE-OX3

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-200-160-4-a-f-a-bqqe-ox3>

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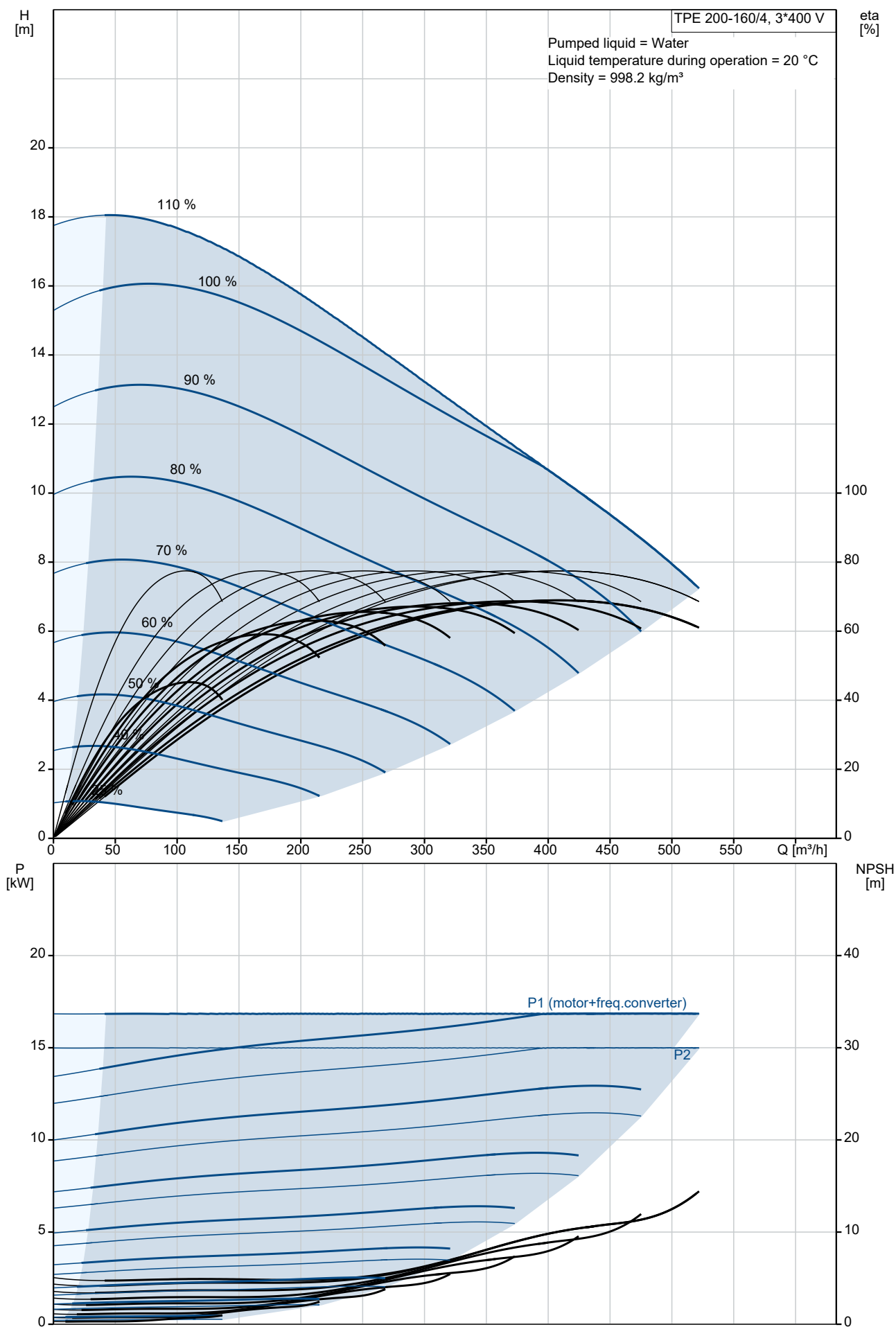
Datasheet



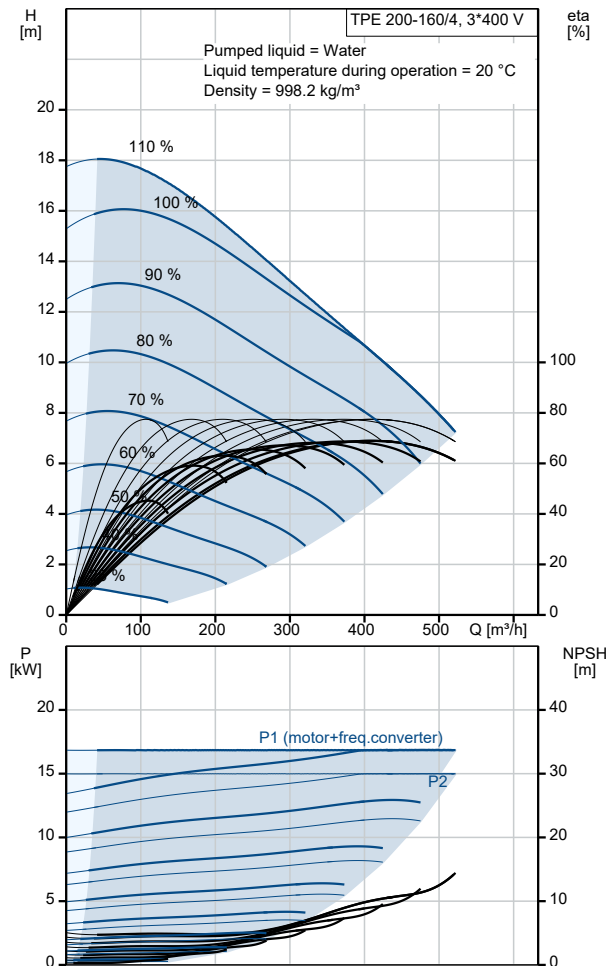
Qty.	Description
1	TPE 200-160/4 A-F-A-BQQE-OX3  Note! Product picture may differ from actual product Product No.: 97927479 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. 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 (potential-free contact), - potential-free fault signal relay with changeover contact,

Qty.	Description
	- 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: 1470 rpm Rated flow: 399 m³/h Rated head: 10 m Actual impeller diameter: 226-220 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 200 Pressure rating for connection: PN 16 Port-to-port length: 900 mm Flange size for motor: FF300 Electrical data: Motor type: 160LB IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 30.0-25.4 A Cos phi - power factor: 0.90-0.85 Rated speed: 240-1750 rpm Efficiency: IE3 92,1% Motor efficiency at full load: 92.1 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 86906190 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 437 kg Gross weight: 533 kg Shipping volume: 1.68 m³ Danish VVS No.: 382039160 Finnish LVI No.: 4616524 Country of origin: HU Custom tariff no.: 84137051

97927479 TPE 200-160/4 A-F-A-BQQE-OX3 50 Hz

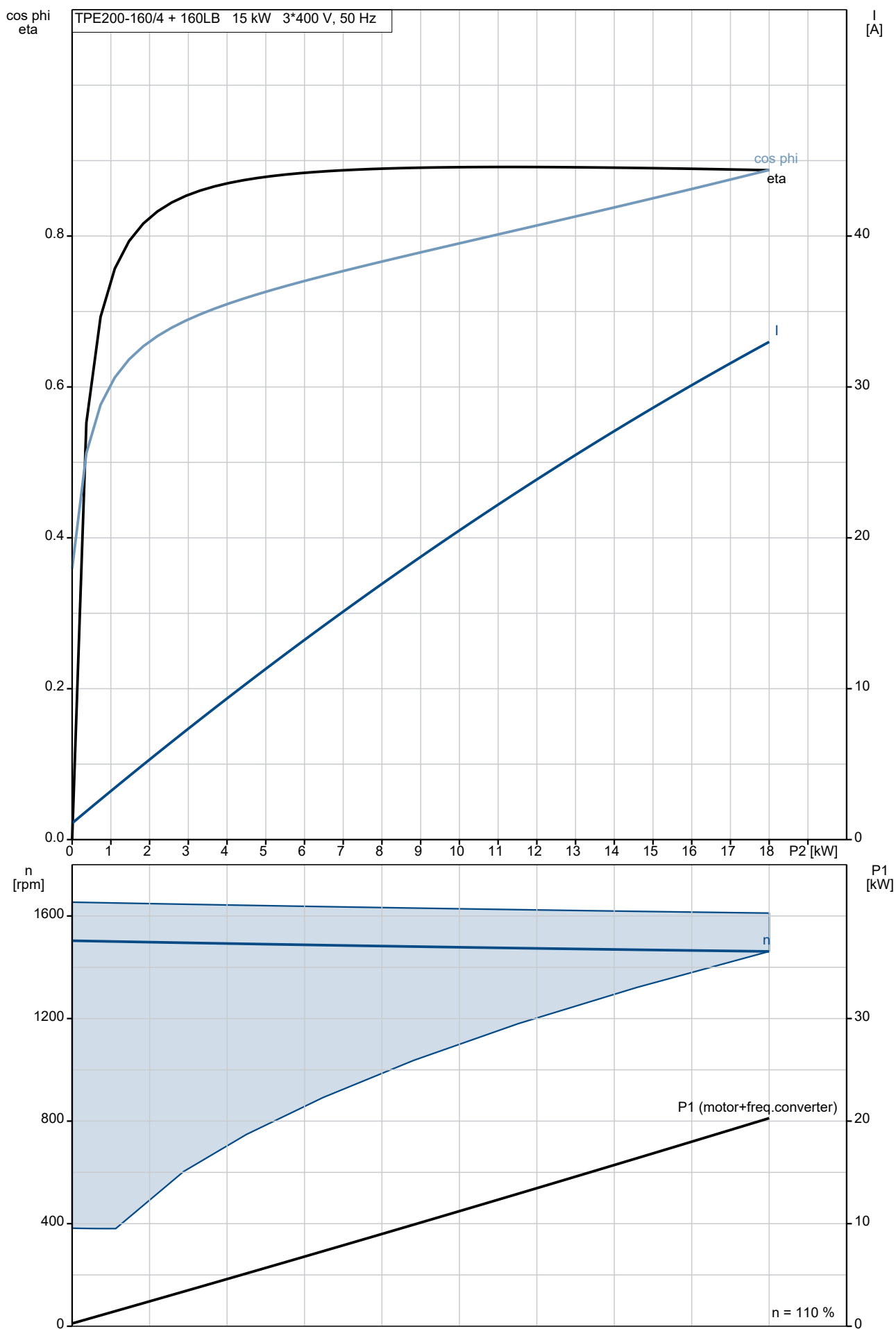


Description	Value
General information:	
Product name:	TPE 200-160/4 A-F-A-BQQE-0X3
Product No:	97927479
EAN number:	5710626550173
Technical:	
Pump speed on which pump data are based:	1470 rpm
Rated flow:	399 m³/h
Rated head:	10 m
Maximum head:	160 dm
Actual impeller diameter:	226-220 mm
Code for shaft 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 200
Pressure rating for connection:	PN 16
Port-to-port length:	900 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:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	30.0-25.4 A
Cos phi - power factor:	0.90-0.85
Rated speed:	240-1750 rpm
Efficiency:	IE3 92,1%
Motor efficiency at full load:	92.1 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	86906190
Controls:	
Control panel:	Standard
Function Module:	PUMP I/O
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	437 kg
Gross weight:	533 kg
Shipping volume:	1.68 m³
Config. file no:	95139410

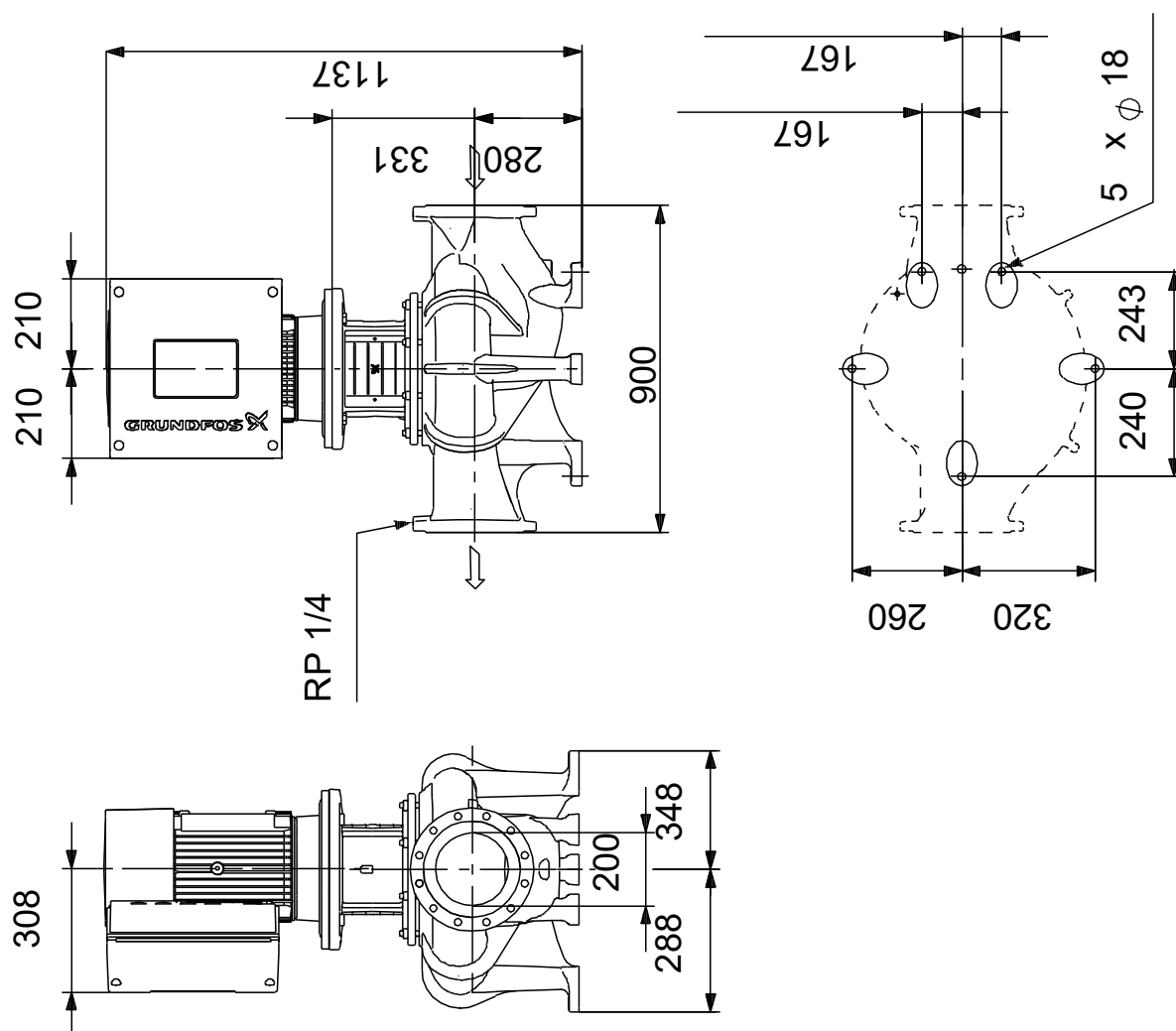


Description	Value
Danish VVS No.:	382039160
Finnish LVI No.:	4616524
Country of origin:	HU
Custom tariff no.:	84137051

97927479 TPE 200-160/4 A-F-A-BQQE-OX3 50 Hz



97927479 TPE 200-160/4 A-F-A-BQQE-OX3 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 200-160/4, Product No. 97927479
Produced After 1308 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, Bushing for motor			96810021	1	pcs
8.a	Bushing				1	
9	Socket set screw		Length (mm): 10		2	
			Thread: M8			
23	Hex socket head cap screw		Designation: DIN912		6	
			Length (mm): 20			
			Thread: M8			
-	Kit, pump shaft			96306478	1	pcs
11	Key				1	
23	Hex socket head cap screw		Designation: DIN912		6	
			Length (mm): 20			
			Thread: M8			
51	Pump shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
66	Washer		Internal diameter: 24,25		1	
			Outer diameter: 44			
			Thickness: 4			
67	Nut		Thread: M25		1	
-	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			97899854	1	
156.b	Flange				1	
159.b	Seal ring				1	
185.b	Nut				4	
185	Hex socket head cap screw				4	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
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	
195.b	Grease nipple				2	
195.a	Grease nipple				1	
-	Kit, motor			96844395	1	
	Flex insulation				3	
	EMC filter				1	
	Cover cpl.				1	
	Fan				1	
	Motor				1	
40	Parallel key		Designation: DS96 DIN 6885		1	
			Dimension: 12X8X90			
99a	Retaining ring				1	
151	Fan cover				1	
152.a	Rubber bush				4	
152	Hex head cap screw				4	
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	
19	Plug			98163028	2	pcs
28	Hex head screw			96620478	4	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
36	Nut		Thread: M12	96620479	10	pcs
36	Hex nut		Thread: M16	96620480	4	pcs
49	Impeller			99176065	1	pcs
67	Nut		Thread: M25	92526532	1	pcs
72.a	O-ring		Diameter: 278,99	92547634	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72.a	O-ring		Diameter: 278,99	92526510	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72.a	O-ring		Diameter: 278,99	97511839	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72.a	O-ring		Diameter: 278,99	97757673	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
77a	Pan head screw			99266550	4	pcs
105	Shaft seal			92514334	1	pcs
105	Shaft seal			98434909	1	pcs