

Inventflow: Grundfos A-partner

Grundfos TPE 50-710/2 S-A-F-A-BQQE-OX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-50-710-2-s-a-f-a-bqqe-ox1>

Contact

info@inventflow.nl

+31 (0) 546 45 80 72

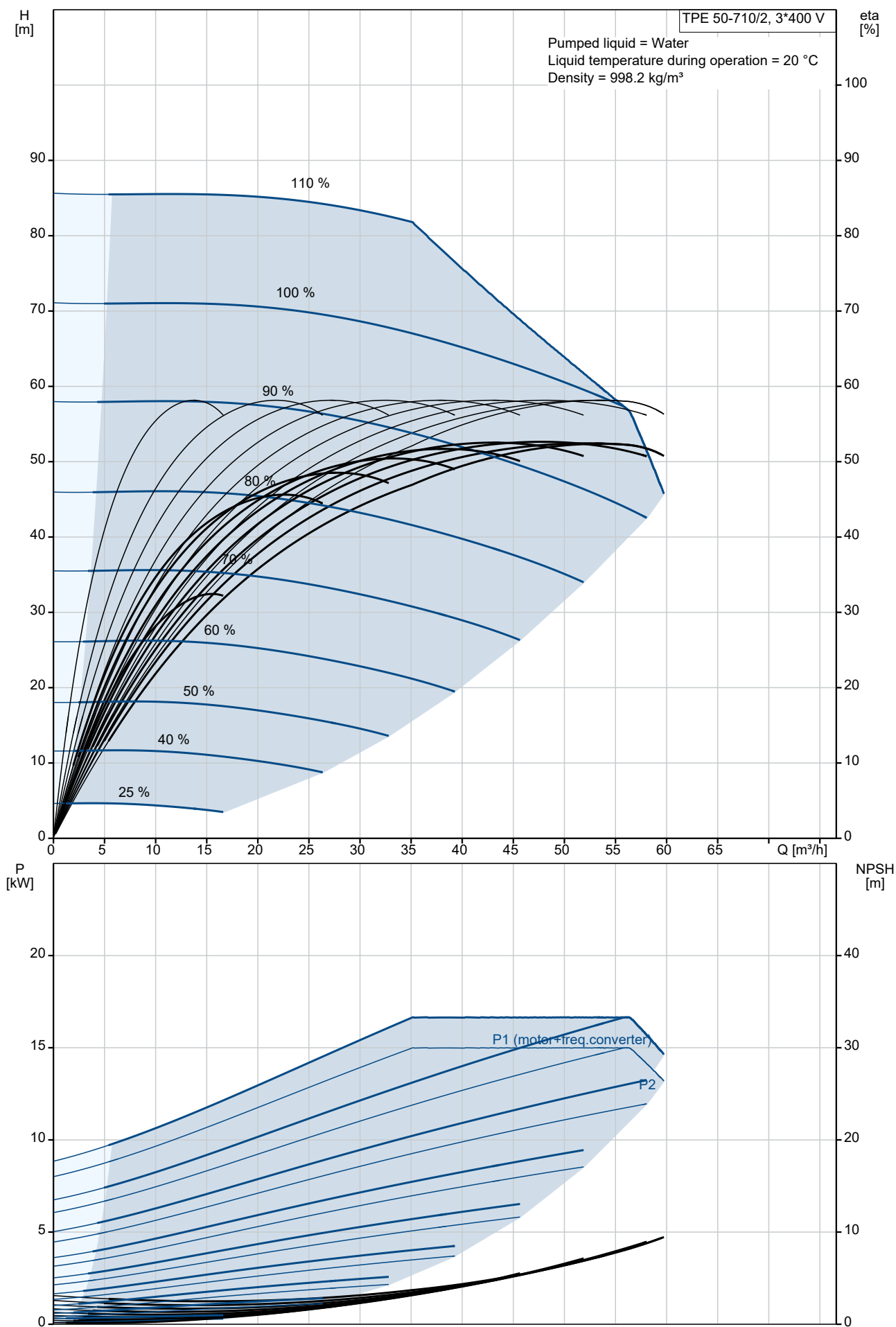
Datasheet



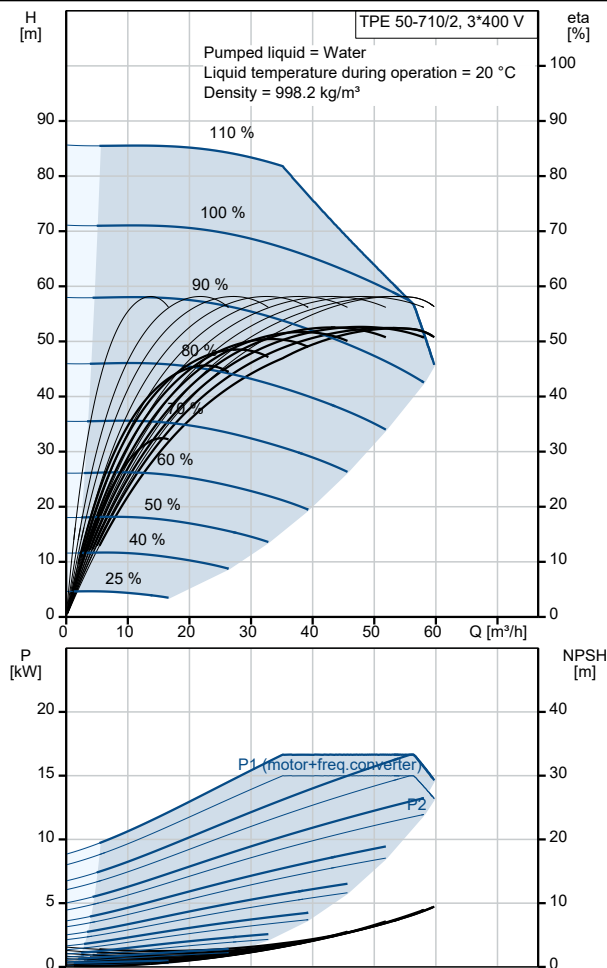
Qty.	Description
1	TPE 50-710/2 S-A-F-A-BQQE-OX1  Note! Product picture may differ from actual product Product No.: 96397037 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. 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. A differential pressure transmitter fitted on the pump registers the differential pressure across the pump and enables constant pressure or proportional pressure control of the pump. 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, - differential pressure sensor factory-fitted, - input for forced control to MIN or MAX (potential-free contact),

Qty.	Description
	- 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: 2945 rpm Rated flow: 53.9 m³/h Rated head: 58.6 m Actual impeller diameter: 230 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 50 Pressure rating for connection: PN 16 Port-to-port length: 440 mm Flange size for motor: FF300 Electrical data: Motor type: 160MD IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 30.0-26.0 A Cos phi - power factor: 0.91-0.86 Rated speed: 480-3540 rpm Efficiency: IE3 91,9% Motor efficiency at full load: 91.9 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 85901233 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 199 kg Gross weight: 235 kg Shipping volume: 0.56 m³ Danish VVS No.: 381913710 Finnish LVI No.: 4616387 Country of origin: HU Custom tariff no.: 84137051

96397037 TPE 50-710/2 S-A-F-A-BQQE-OX1 50 Hz

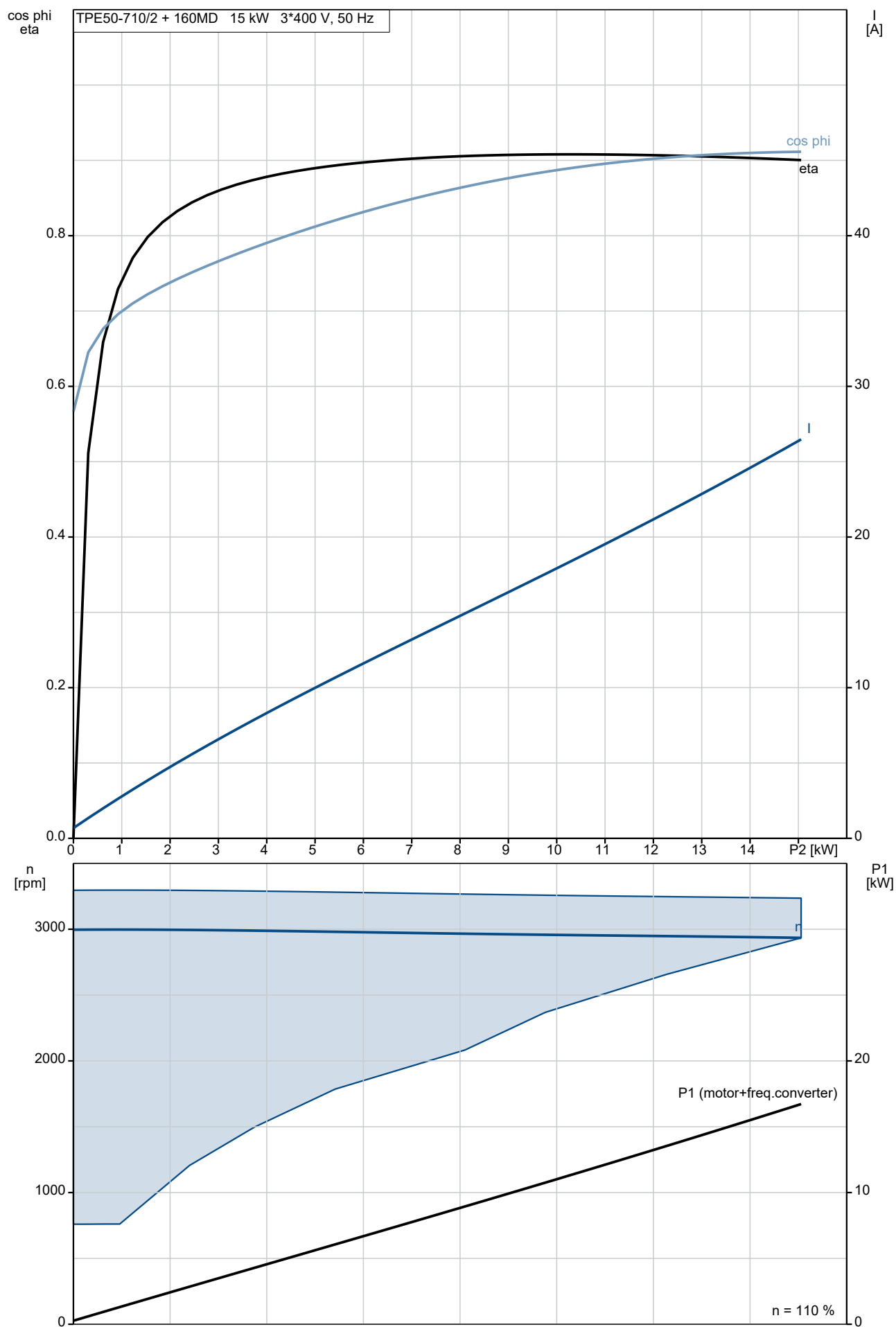


Description	Value
General information:	
Product name:	TPE 50-710/2 S-A-F-A-BQQE-OX1
Product No:	96397037
EAN number:	5700832187027
Technical:	
Pump speed on which pump data are based:	2945 rpm
Rated flow:	53.9 m³/h
Rated head:	58.6 m
Maximum head:	710 dm
Actual impeller diameter:	230 mm
Code for shaft 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 50
Pressure rating for connection:	PN 16
Port-to-port length:	440 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:	160MD
IE Efficiency class:	IE3
Rated power - P2:	15 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	30.0-26.0 A
Cos phi - power factor:	0.91-0.86
Rated speed:	480-3540 rpm
Efficiency:	IE3 91,9%
Motor efficiency at full load:	91.9 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	85901233
Controls:	
Control panel:	BS
Function Module:	PUMP I/O
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	199 kg
Gross weight:	235 kg
Shipping volume:	0.56 m³
Config. file no:	95139456

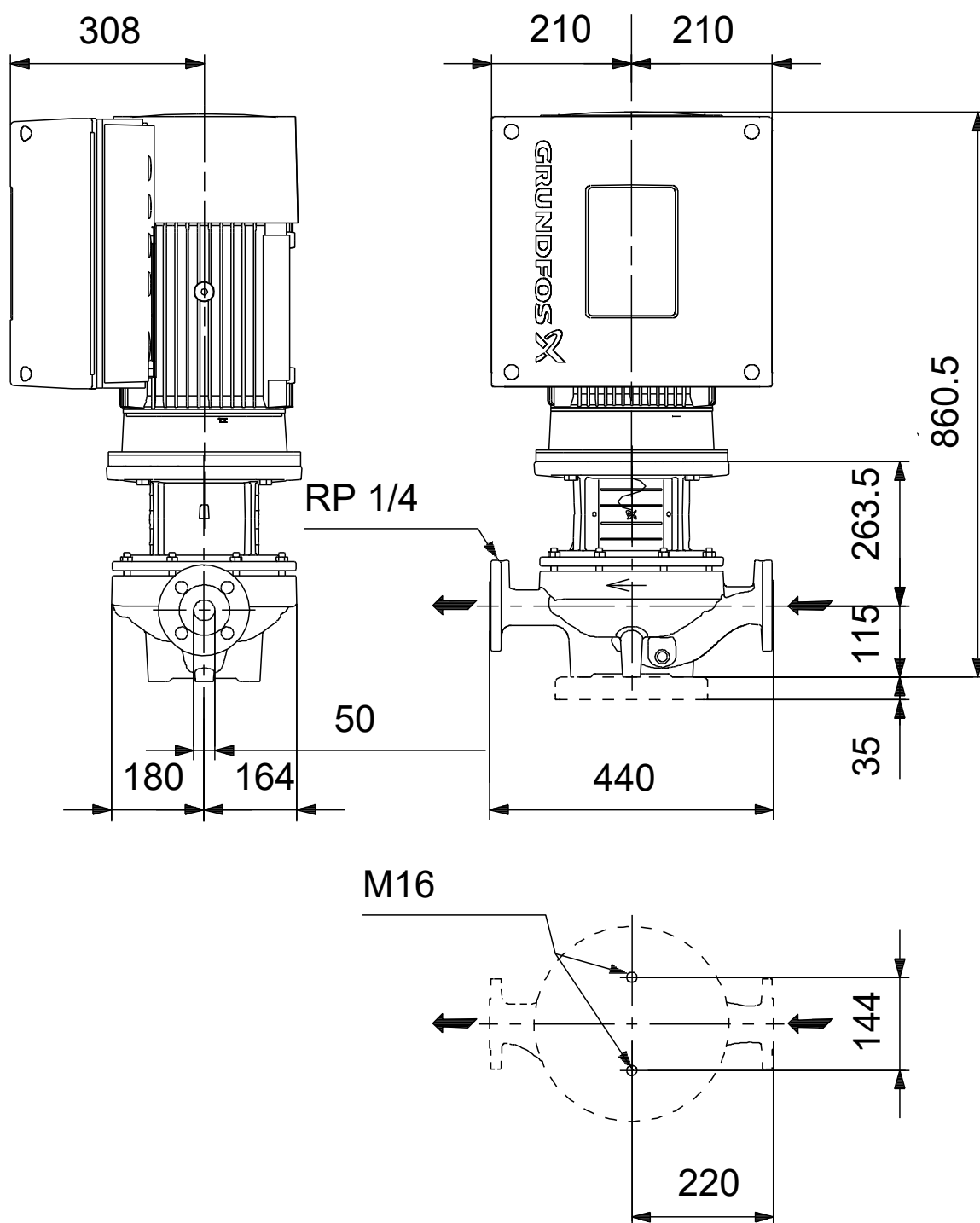


Description	Value
Danish VVS No.:	381913710
Finnish LVI No.:	4616387
Country of origin:	HU
Custom tariff no.:	84137051

96397037 TPE 50-710/2 S-A-F-A-BQQE-OX1 50 Hz



96397037 TPE 50-710/2 S-A-F-A-BQQE-OX1 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 50-710/2, Product No. 96397037
Produced After 0906 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
+	Kit, stub shaft			96039354	1	pcs
-	49 Spare,impeller			96591163	1	pcs
	49 Impeller				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			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	
	195.b Grease nipple				2	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
195.a	Grease nipple				1	
-	Kit, motor			96844380	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			96348925	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	
- 50	Pump housing cpl.			99048206	1	pcs
36	Nut	Thread: M10		96620484	10	
56	Base plate			96590430	1	pcs
72a	O-ring	Diameter: 253,6 Material type: EPDM Thickness: 3,53		92547618	1	pcs
72a	O-ring	Diameter: 253,6 Material type: EPDM Thickness: 3,53		92526509	1	pcs
72a	O-ring	Diameter: 253,6 Material type: EPDM Thickness: 3,53		97511826	1	pcs
72a	O-ring	Diameter: 253,6 Material type: EPDM Thickness: 3,53		97757672	1	pcs
105	Shaft seal			99380916	1	pcs
105	Shaft seal			99884645	1	pcs