

Inventflow: Grundfos A-partner

Grundfos TPE 100-390/2 S-A-F-A-BQQE-QX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-100-390-2-s-a-f-a-bqqe-qx1>

Contact

info@inventflow.nl

+31 (0) 546 45 80 72

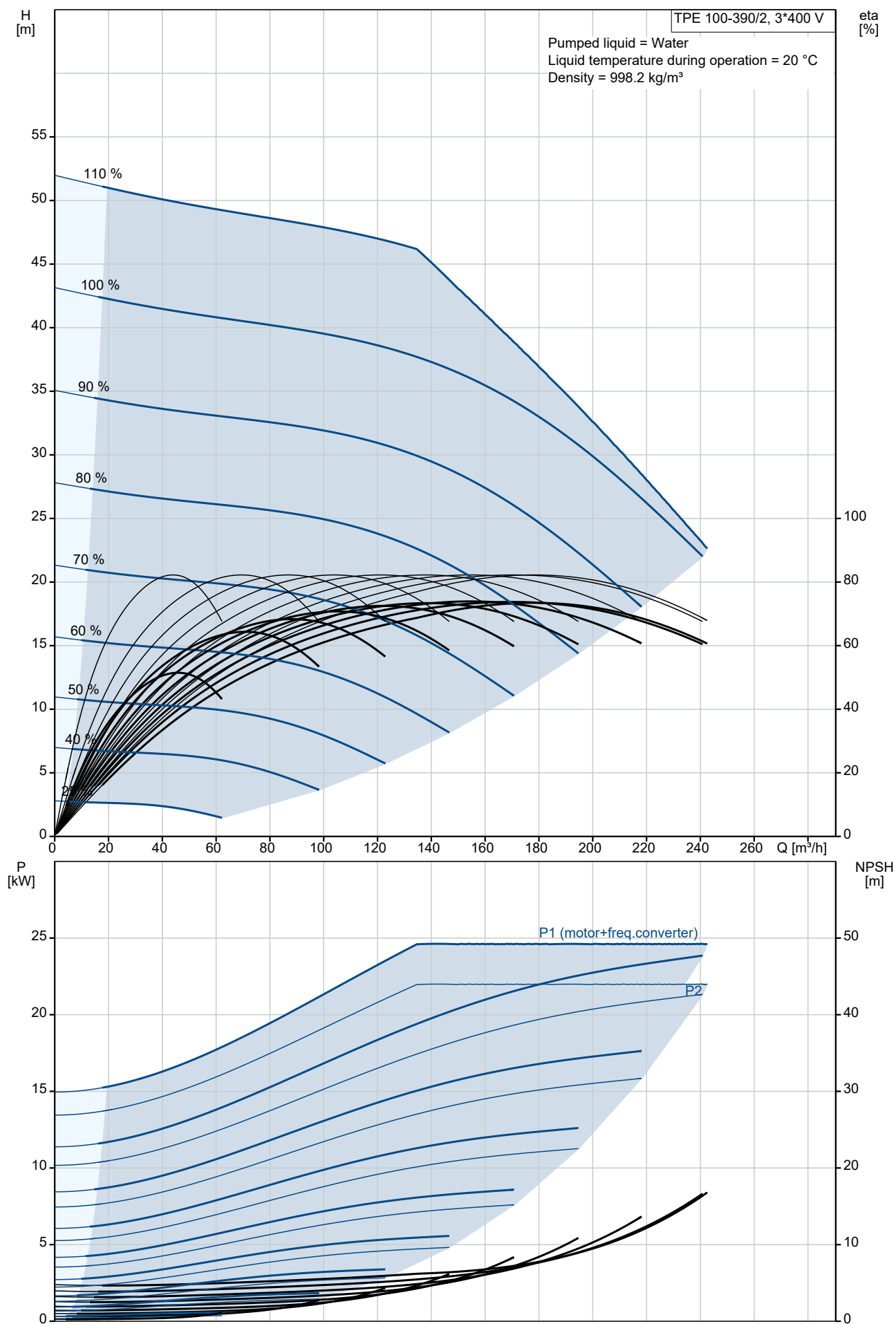
Datasheet



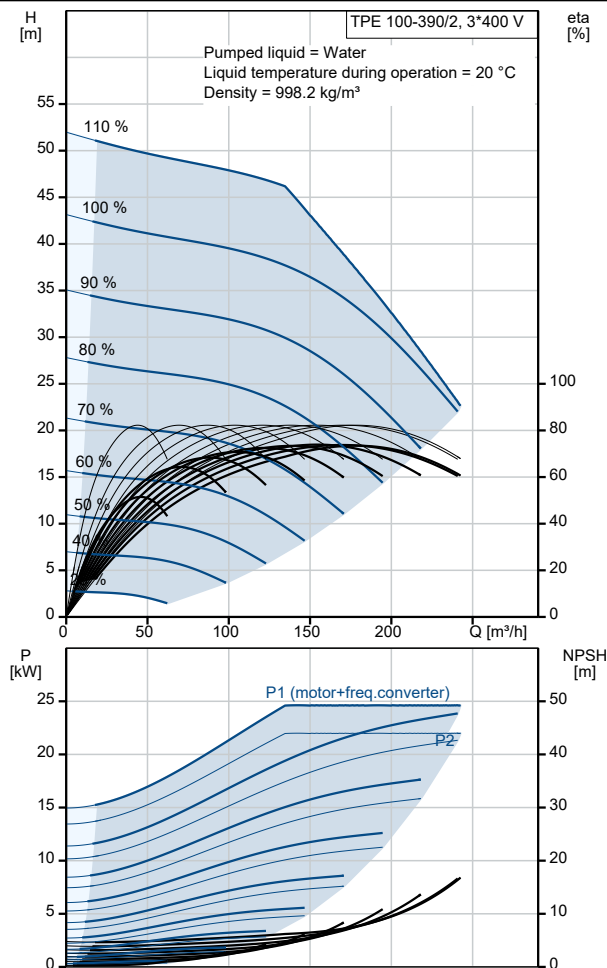
Qty.	Description
1	TPE 100-390/2 S-A-F-A-BQQE-QX1  Note! Product picture may differ from actual product Product No.: 96275698 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. 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: 171 m³/h Rated head: 34 m Actual impeller diameter: 175 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 100 Pressure rating for connection: PN 16 Port-to-port length: 550 mm Flange size for motor: FF300
	Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 43.5-35.0 A Cos phi - power factor: 0.91-0.90 Rated speed: 480-3540 rpm Efficiency: IE3 92,7% Motor efficiency at full load: 92.7 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 85901235
	Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 252 kg Gross weight: 289 kg Shipping volume: 0.56 m³ Danish VVS No.: 381916390 Finnish LVI No.: 4616429 Country of origin: HU Custom tariff no.: 84137051

96275698 TPE 100-390/2 S-A-F-A-BQQE-QX1 50 Hz

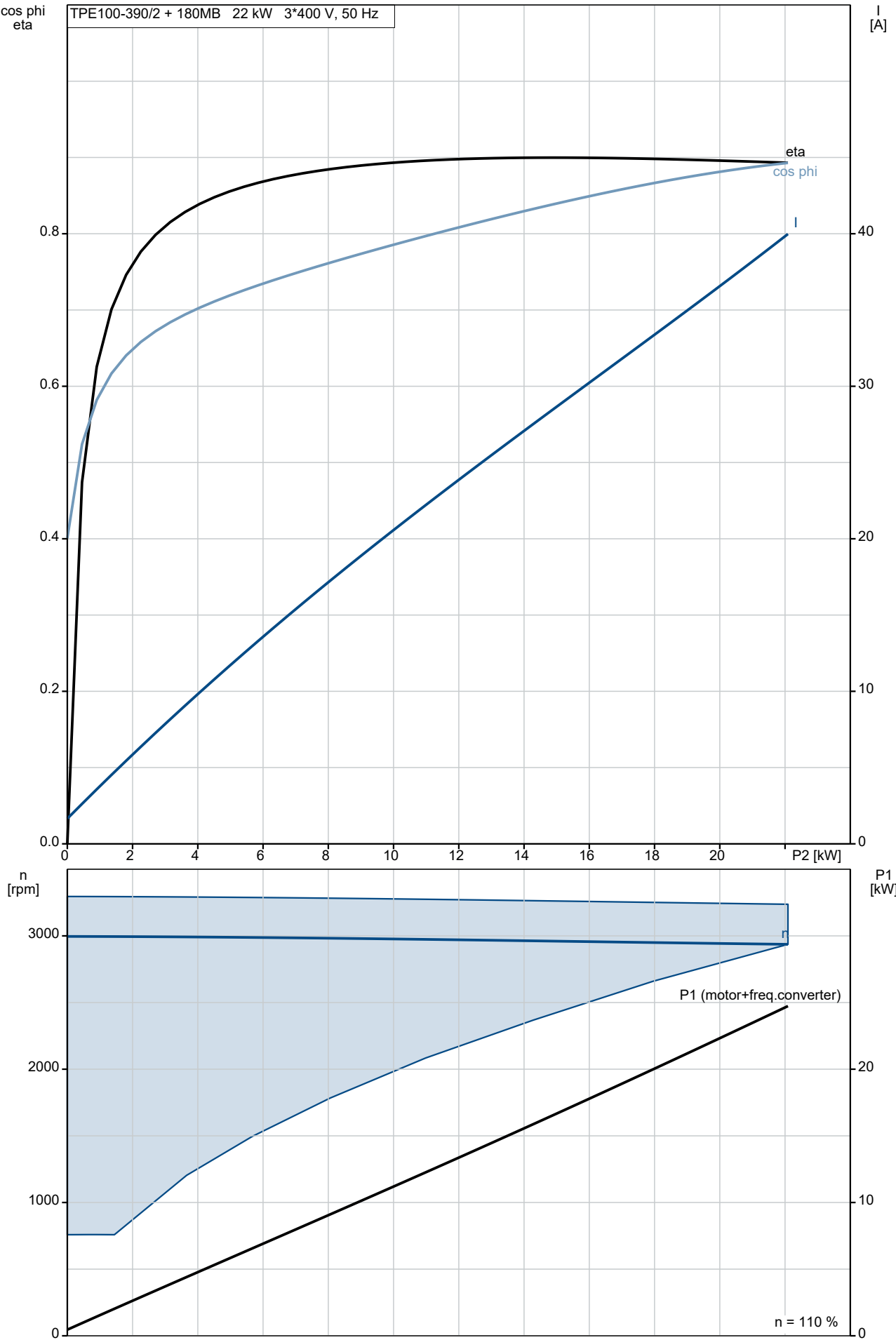


Description	Value
General information:	
Product name:	TPE 100-390/2 S-A-F-A-BQQE-QX1
Product No:	96275698
EAN number:	5700830061305
Technical:	
Pump speed on which pump data are based:	2945 rpm
Rated flow:	171 m³/h
Rated head:	34 m
Maximum head:	390 dm
Actual impeller diameter:	175 mm
Code for shaft 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 100
Pressure rating for connection:	PN 16
Port-to-port length:	550 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:	180MB
IE Efficiency class:	IE3
Rated power - P2:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	43.5-35.0 A
Cos phi - power factor:	0.91-0.90
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,7%
Motor efficiency at full load:	92.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	85901235
Controls:	
Control panel:	BS
Function Module:	PUMP I/O
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	252 kg
Gross weight:	289 kg
Shipping volume:	0.56 m³
Config. file no:	95139461

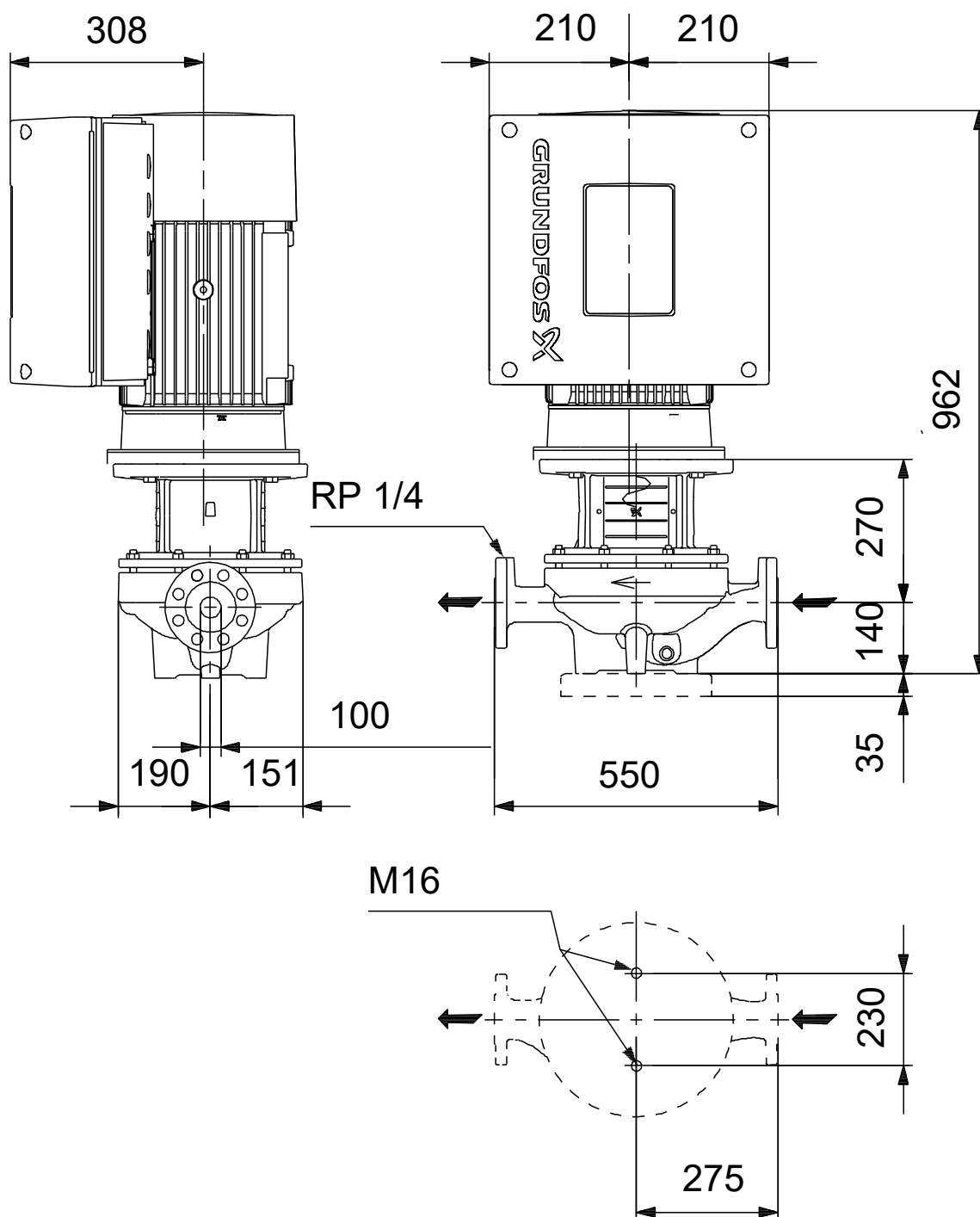


Description	Value
Danish VVS No.:	381916390
Finnish LVI No.:	4616429
Country of origin:	HU
Custom tariff no.:	84137051

96275698 TPE 100-390/2 S-A-F-A-BQQE-QX1 50 Hz



96275698 TPE 100-390/2 S-A-F-A-BQQE-QX1 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 100-390/2, Product No. 96275698
Produced After 0848 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
- 56	Base plate			96536246	1	pcs
28g	Hex head cap screw		Length (mm): 30 MM		2	
			Thread: M16			
56	Base plate				1	
	Kit, stub shaft			96039355	1	pcs
-	Motor				1	pcs
-	Kit, bearing cpl.		Designation: 6310.Z.C4-6310.Z.C4	96796811	1	
111	Ball bearing				1	
154	Ball bearing				1	
158	Waved washer				1	
-	Kit, bearing plate			96796809	1	
155. a	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			96796807	1	
156. b	Flange				1	
159. b	Seal ring				1	
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			96796817	1	
171	Parallel key				1	
-	Kit, lubrication nipple			96796671	1	
195. b	Grease nipple				2	

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr	Aanta	Eenhei
195. a	Grease nipple						1
-	Kit, motor				96844384	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.				96796810	1	
156a	End shield NDE						1
158	Waved washer						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
18	Plug				96620482	1	pcs
18	Plug				98164277	1	pcs
26	Staybolt			Length (mm): 35 Thread: M10	96620483	6	pcs
28	Hex head screw			Length (mm): 60 Thread: M16	97506949	2	pcs
28	Hex head screw				96620478	2	pcs
36	Nut			Thread: M10	96620484	6	pcs
36	Hex nut			Thread: M16	96620480	4	pcs
45	Wear ring				96810106	1	pcs
49	Impeller				98296631	1	pcs
67	Nut			Thread: M14	92526531	1	pcs
72a	O-ring				92547662	1	pcs
72a	O-ring				92526508	1	pcs
72a	O-ring				97511824	1	pcs
72a	O-ring				99756265	1	pcs
76a	Rivet				96620489	2	pcs
77a	Pan head screw				99266550	4	pcs
105	Shaft seal				99380919	1	pcs
105	Shaft seal				96488302	1	pcs