

Inventflow: Grundfos A-partner

Grundfos TPE 100-250/4 S-A-F-A-BQQE-NX3

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-100-250-4-s-a-f-a-bqqe-nx3>

Contact

info@inventflow.nl

+31 (0) 546 45 80 72

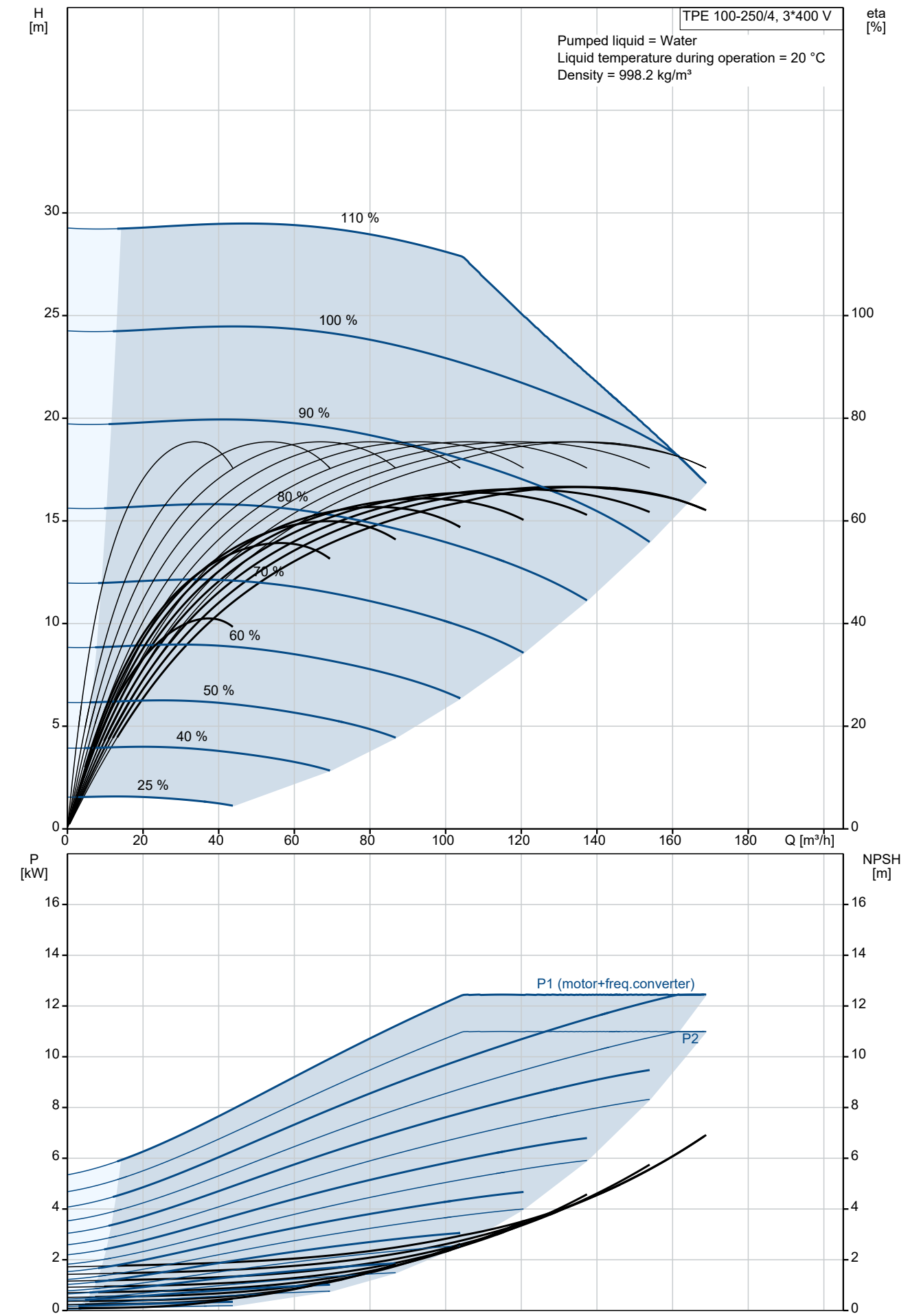
Datasheet



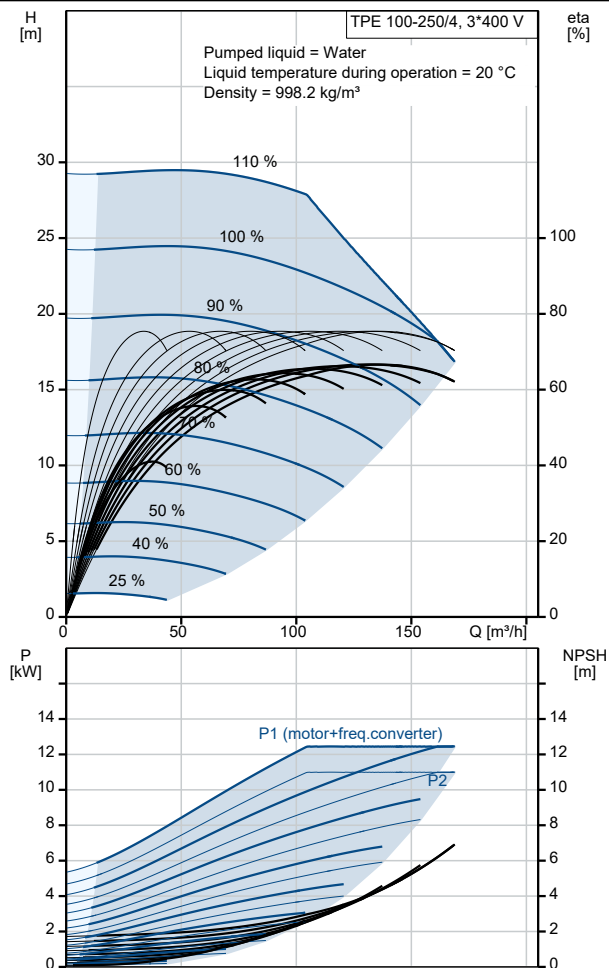
Qty.	Description
1	TPE 100-250/4 S-A-F-A-BQQE-NX3  Note! Product picture may differ from actual product Product No.: 96276046 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. 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: 1460 rpm Rated flow: 131 m³/h Rated head: 20.7 m Actual impeller diameter: 270 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: 670 mm Flange size for motor: FF300
	Electrical data: Motor type: 160MB IE Efficiency class: IE3 Rated power - P2: 11 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 22.0-17.8 A Cos phi - power factor: 0.91-0.90 Rated speed: 240-1750 rpm Efficiency: IE3 91,4% Motor efficiency at full load: 91.4 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 86906160
	Others: Minimum efficiency index, MEI ≥: 0.45 Net weight: 273 kg Gross weight: 334 kg Shipping volume: 0.94 m³ Danish VVS No.: 381926250 Finnish LVI No.: 4616424 Norwegian NRF no.: 9043608 Country of origin: HU Custom tariff no.: 84137051

96276046 TPE 100-250/4 S-A-F-A-BQQE-NX3 50 Hz

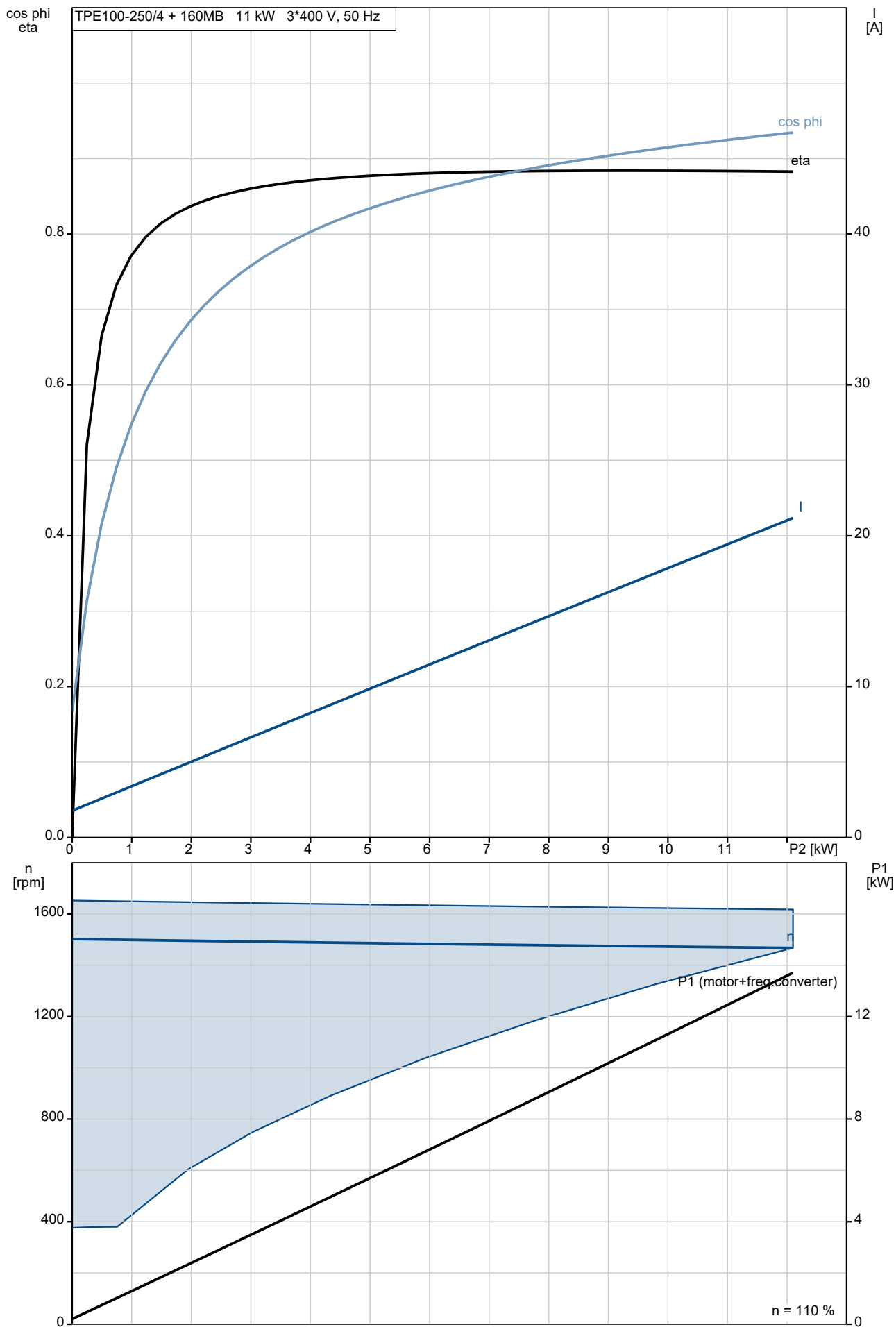


Description	Value
General information:	
Product name:	TPE 100-250/4 S-A-F-A-BQQE-NX3
Product No:	96276046
EAN number:	5700830061091
Technical:	
Pump speed on which pump data are based:	1460 rpm
Rated flow:	131 m³/h
Rated head:	20.7 m
Maximum head:	250 dm
Actual impeller diameter:	270 mm
Code for shaft 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:	670 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:	160MB
IE Efficiency class:	IE3
Rated power - P2:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	22.0-17.8 A
Cos phi - power factor:	0.91-0.90
Rated speed:	240-1750 rpm
Efficiency:	IE3 91,4%
Motor efficiency at full load:	91.4 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	86906160
Controls:	
Control panel:	BS
Function Module:	PUMP I/O
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.45
Net weight:	273 kg
Gross weight:	334 kg
Shipping volume:	0.94 m³
Config. file no:	95139440

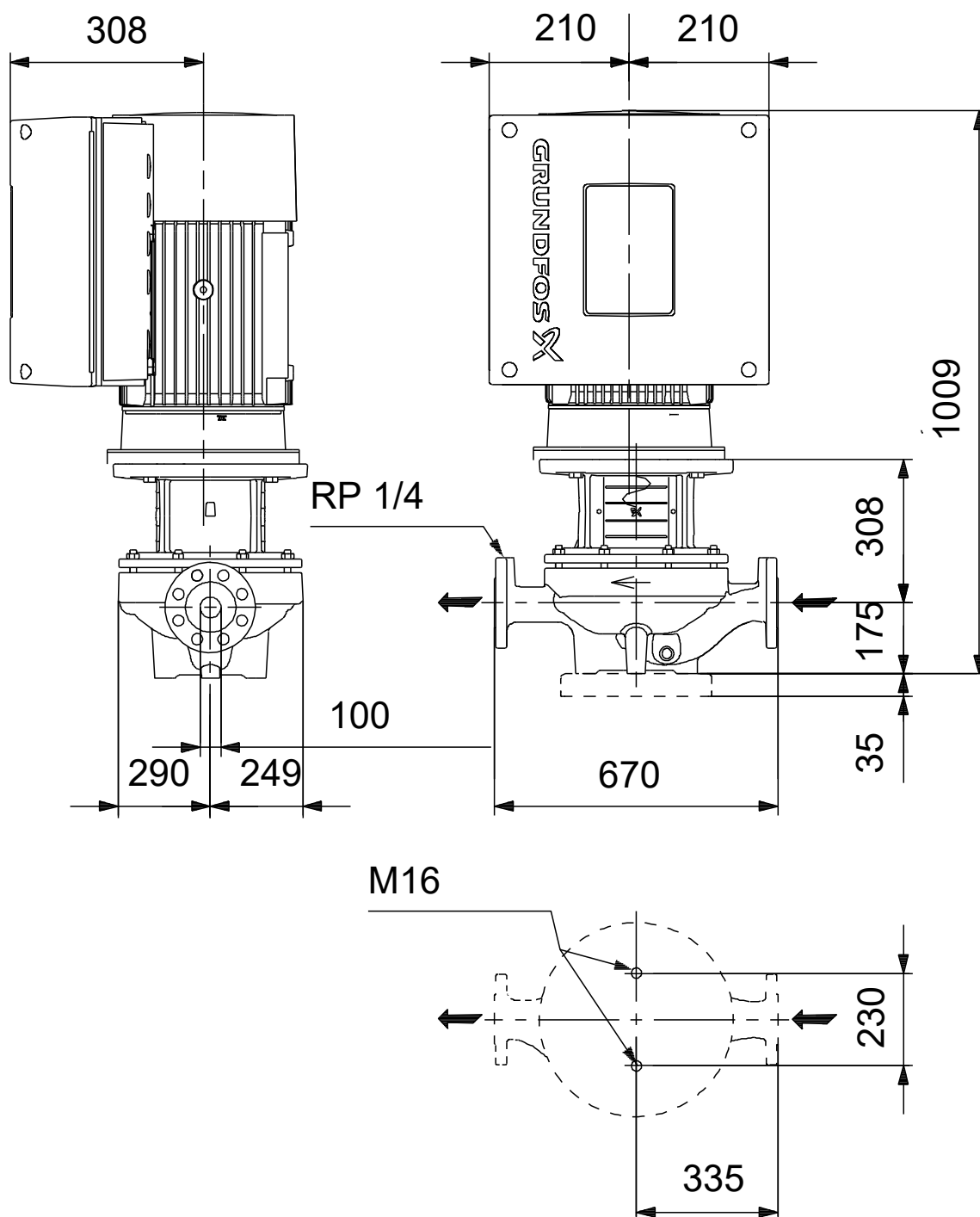


Description	Value
Danish VVS No.:	381926250
Finnish LVI No.:	4616424
Norwegian NRF no.:	9043608
Country of origin:	HU
Custom tariff no.:	84137051

96276046 TPE 100-250/4 S-A-F-A-BQQE-NX3 50 Hz



96276046 TPE 100-250/4 S-A-F-A-BQQE-NX3 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 100-250/4, Product No. 96276046
Produced After 2050 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
- 56	Base plate			96536246	1	pcs
28g	Hex head cap screw		Length (mm): 30 MM		2	
			Thread: M16			
56	Base plate				1	
-	Kit, sensor		Pressure: 0-4 BAR	00485444	1	pcs
	Cable tie				5	
501	Diff. pressure transmitter.				1	
505	Bracket		Type: VEM		1	
505	Bracket		Type: MGE		1	
506	Socket head cap screw				1	
507	Cross recess countersunk screw				1	
508	Tube				1	
509	Capillary tube.				1	
510	Mounting bush.				2	
511	Cable pin				2	
-	Kit, stub shaft			96039359	1	pcs
9	Socket set screw		Length (mm): 10		2	
			Thread: M8			
11	Parallel key				1	
51	Pump shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M18		1	
-	Motor			99575878	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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
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			96348919	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			96844394	1	
	Flex insulation				3	
	EMC filter				1	
	Cover cpl.				1	
	Fan				1	
	Motor				1	
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			96348925	1	
259	Operation panel				1	
274	Kit, rectifier board			96348921	1	
-	251 Kit, terminal box			96348913	1	
164	Cover cpl.				1	
166	Pan head thread forming screw				5	
251	Terminal box cpl.				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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
36	Nut		Thread: M12	96620479	14	pcs
49	Impeller			96591299	1	pcs
67	Nut		Thread: M18	92526535	1	pcs
72a	O-ring		Diameter: 329,79	92547632	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72a	O-ring		Diameter: 329,79	92526511	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72a	O-ring		Diameter: 329,79	97511846	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72a	O-ring		Diameter: 329,79	97757675	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
105	Shaft seal			92514302	1	pcs
105	Shaft seal			98434906	1	pcs