

Inventflow: Grundfos A-partner

Grundfos TPE 150-220/4 A-F-A-BQQE-PX3

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-150-220-4-a-f-a-bqqe-px3>

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Datasheet

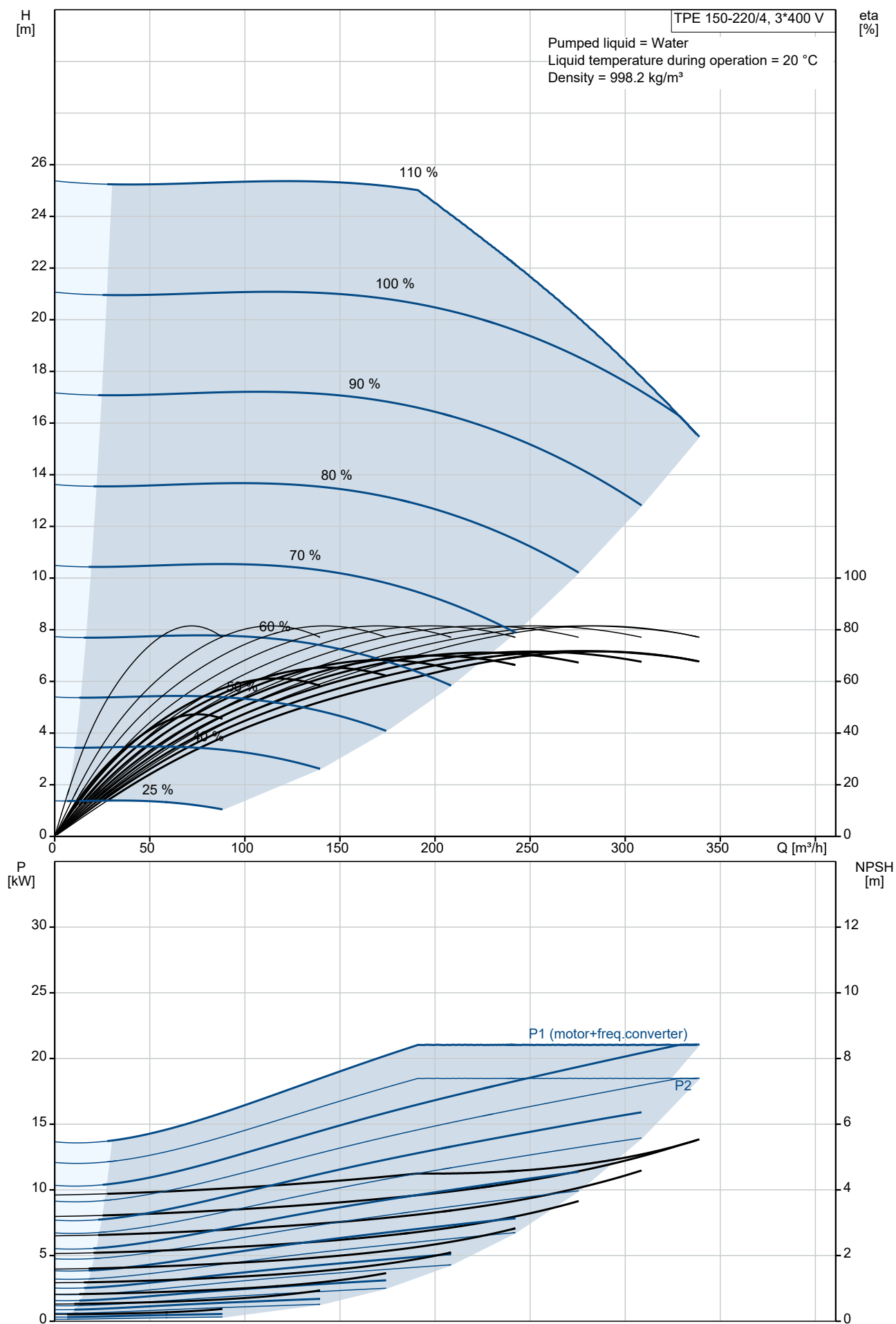


Qty.	Description
1	TPE 150-220/4 A-F-A-BQQE-PX3  Note! Product picture may differ from actual product Product No.: 96110628 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. 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

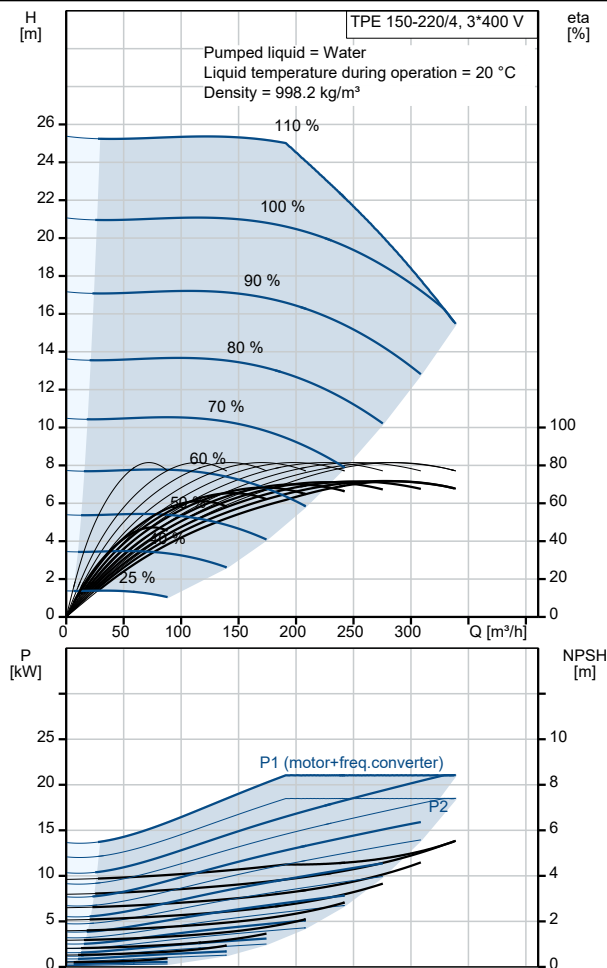
Qty.	Description
	(potential-free contact), - potential-free fault signal relay with changeover contact, - RS485 GENIbus. Controls: Frequency converter: Built-in Liquid: Pumped liquid: Water Liquid temperature range: -25 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 1460 rpm Rated flow: 278 m³/h Rated head: 18.2 m Actual impeller diameter: 256 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 150 Pressure rating for connection: PN 16 Port-to-port length: 800 mm Flange size for motor: FF300 Electrical data: Motor type: 180MA IE Efficiency class: IE2 Rated power - P2: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V Rated current: 37.0-30.0 A Cos phi - power factor: 0.91-0.88 Rated speed: 240-1750 rpm Efficiency: IE2 91,2% Motor efficiency at full load: 91.2 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 86901002 Others: Minimum efficiency index, MEI ≥: 0.65 Net weight: 376 kg Gross weight: 437 kg Shipping volume: 0.94 m³ Danish VVS No.: 382038220 Finnish LVI No.: 4616518 Norwegian NRF no.: 9043646 Country of origin: HU

Qty.	Description
	Custom tariff no.: 84137051

96110628 TPE 150-220/4 A-F-A-BQQE-PX3 50 Hz

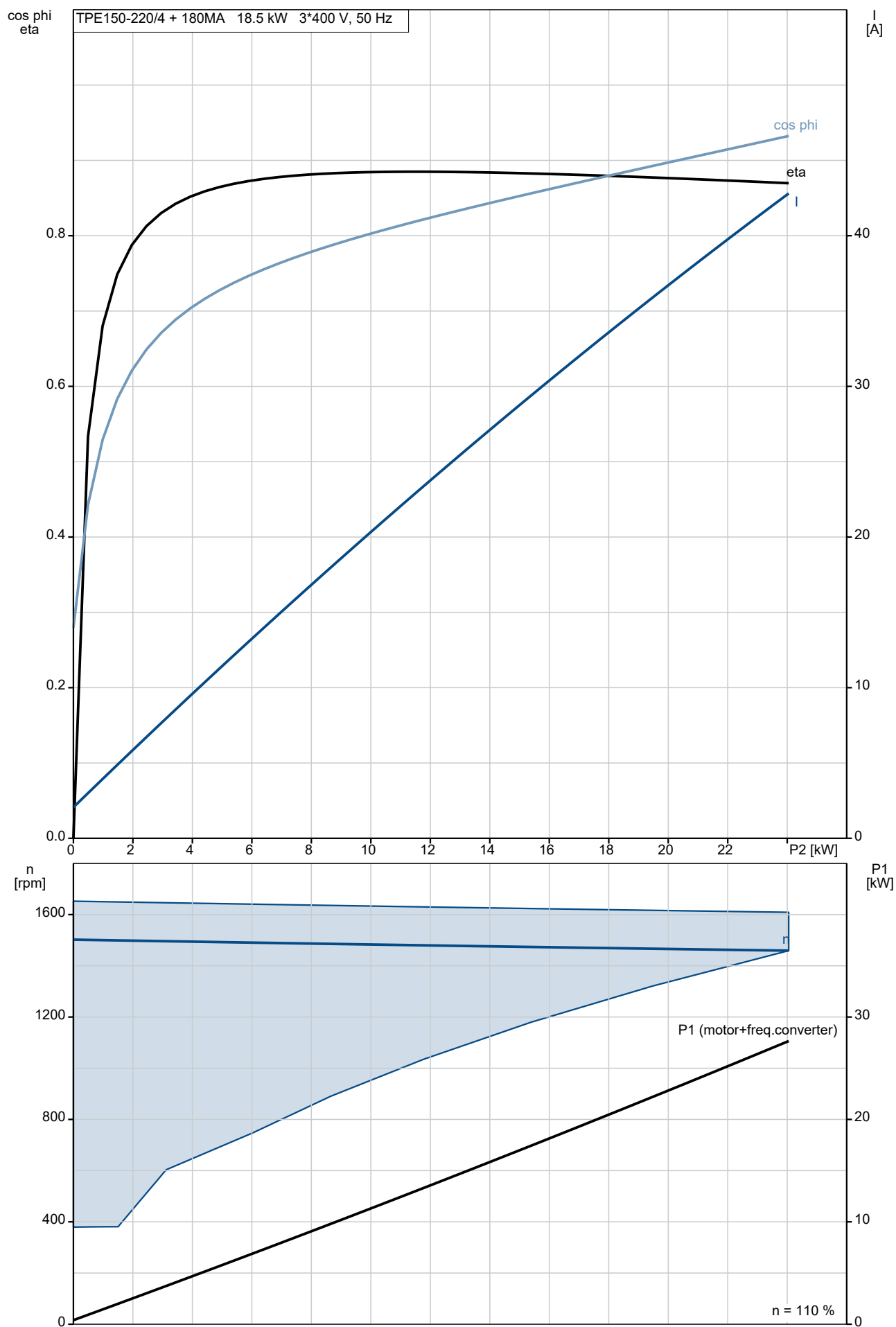


Description	Value
General information:	
Product name:	TPE 150-220/4 A-F-A-BQQE-PX3
Product No:	96110628
EAN number:	5700397027509
Technical:	
Pump speed on which pump data are based:	1460 rpm
Rated flow:	278 m³/h
Rated head:	18.2 m
Maximum head:	220 dm
Actual impeller diameter:	256 mm
Code for shaft 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 150
Pressure rating for connection:	PN 16
Port-to-port length:	800 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:	180MA
IE Efficiency class:	IE2
Rated power - P2:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	37.0-30.0 A
Cos phi - power factor:	0.91-0.88
Rated speed:	240-1750 rpm
Efficiency:	IE2 91,2%
Motor efficiency at full load:	91.2 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	86901002
Controls:	
Control panel:	Standard
Function Module:	PUMP I/O
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.65
Net weight:	376 kg
Gross weight:	437 kg
Shipping volume:	0.94 m³
Config. file no:	95139411

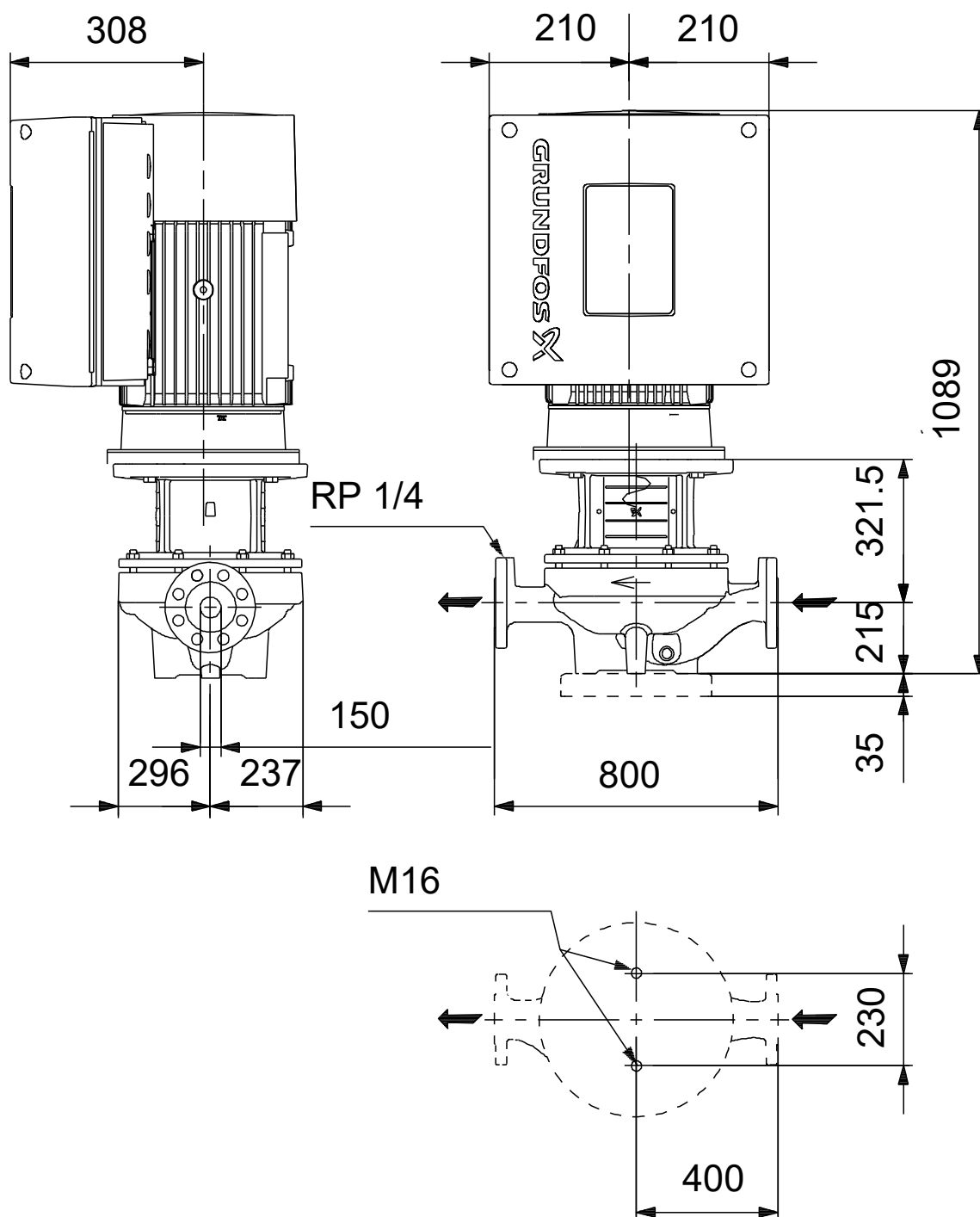


Description	Value
Danish VVS No.:	382038220
Finnish LVI No.:	4616518
Norwegian NRF no.:	9043646
Country of origin:	HU
Custom tariff no.:	84137051

96110628 TPE 150-220/4 A-F-A-BQQE-PX3 50 Hz



96110628 TPE 150-220/4 A-F-A-BQQE-PX3 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 150-220/4, Product No. 96110628
Produced After 0849 (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			96039360	1	pcs
9	Socket set screw		Length (mm): 10		2	
			Thread: M8			
11	Parallel key				1	
51	Stub shaft				1	
66a	Spring lock washer				1	
66	Washer				1	
67	Nut		Thread: M18		1	
	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	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
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
195. a	Grease nipple					1
	Kit, motor			96844396	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			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
26	Staybolt		Length (mm): 35 Thread: M10	96620483	8	pcs
28	Hex head screw			96620478	4	pcs
36	Nut		Thread: M12	96620479	10	pcs
36	Hex nut		Thread: M16	96620480	4	pcs
36	Nut		Thread: M10	96620484	8	pcs
49	Impeller			98517311	1	pcs
67	Nut		Thread: M18	92526535	1	pcs
72.a	O-ring		Diameter: 278,99 Material type: EPDM Thickness: 3,53	92547634	1	pcs
72.a	O-ring		Diameter: 278,99 Material type: EPDM	92526510	1	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aanta	Eenhei
72.a	O-ring		Thickness: 3,53	97511839	1	pcs
			Diameter: 278,99			
			Material type: EPDM			
72.a	O-ring		Thickness: 3,53	97757673	1	pcs
			Diameter: 278,99			
			Material type: EPDM			
			Thickness: 3,53			
76a	Rivet			96620489	2	pcs
77a	Pan head screw			99266550	4	pcs
105	Shaft seal			92514302	1	pcs
105	Shaft seal			98434906	1	pcs