

Inventflow: Grundfos A-partner

Grundfos TPE 50-900/2 A-F-A-BQQE-QX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-50-900-2-a-f-a-bqqe-qx1>

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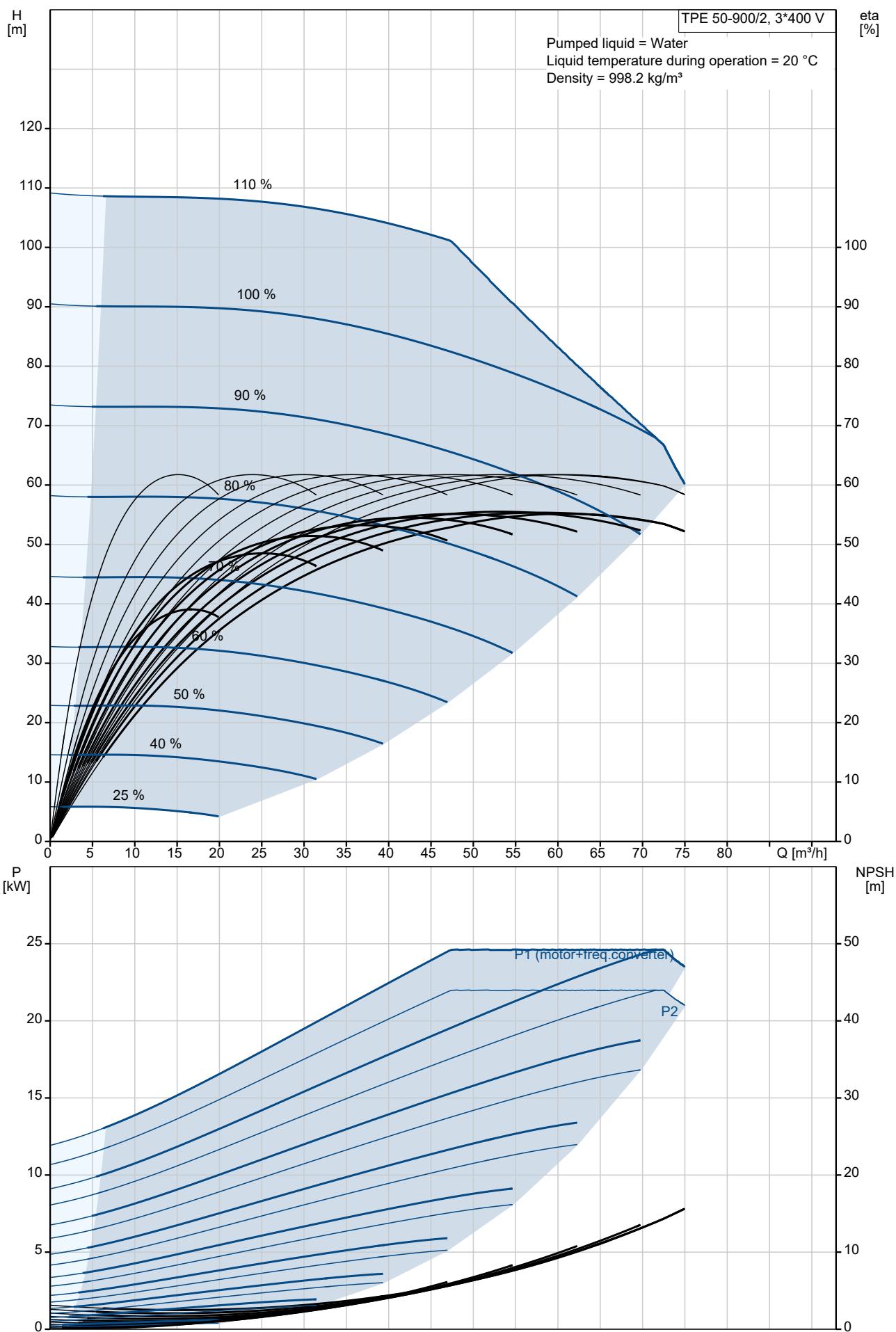
Datasheet



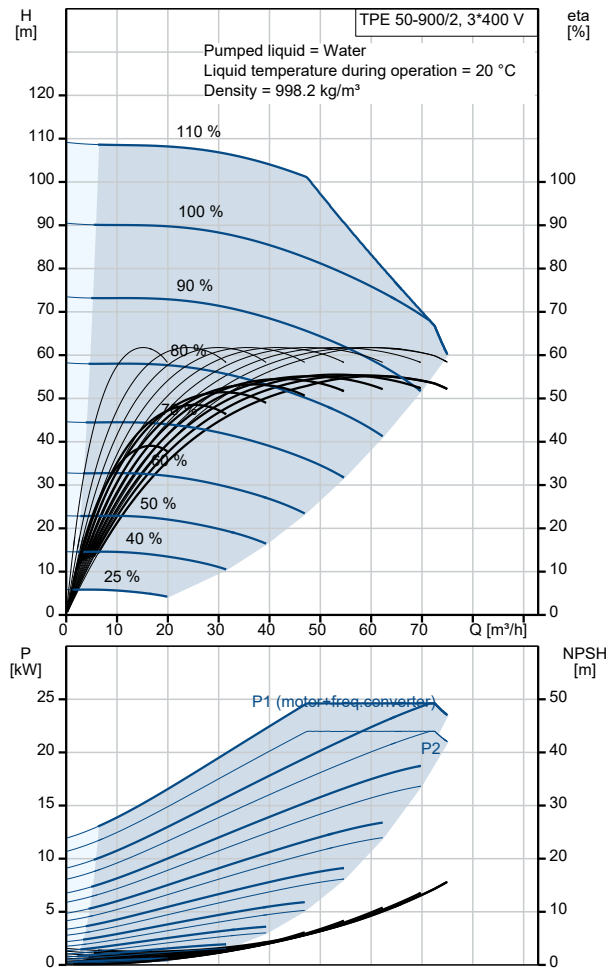
Qty.	Description
1	TPE 50-900/2 A-F-A-BQQE-QX1  Note! Product picture may differ from actual product Product No.: 96096442 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. 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: 2945 rpm Rated flow: 61.1 m³/h Rated head: 74.7 m Actual impeller diameter: 255 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: 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: 85901227 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 225 kg Gross weight: 262 kg Shipping volume: 0.56 m³ Danish VVS No.: 382013900 Finnish LVI No.: 4616467 Country of origin: HU Custom tariff no.: 84137051

96096442 TPE 50-900/2 A-F-A-BQQE-QX1 50 Hz

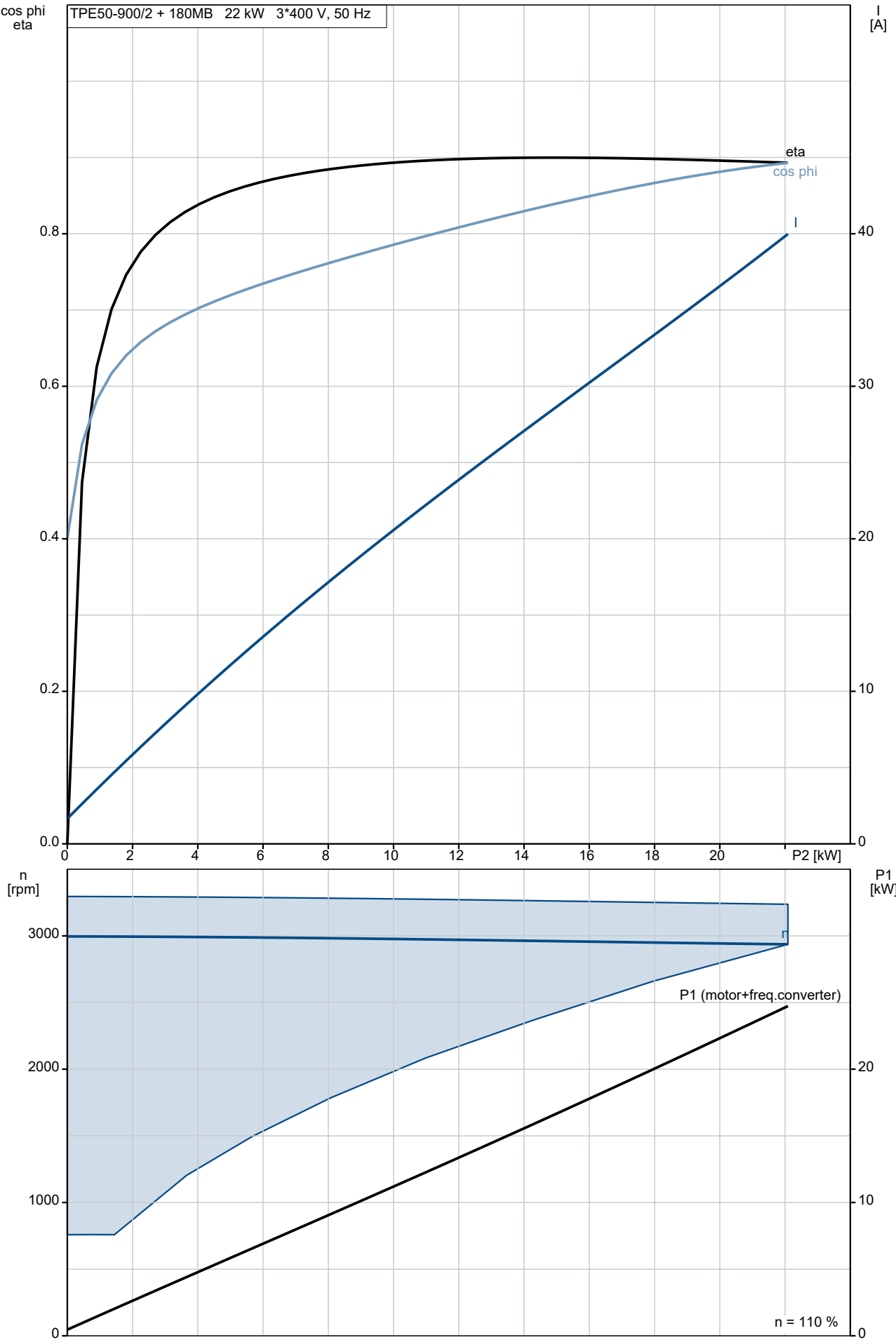


Description	Value
General information:	
Product name:	TPE 50-900/2 A-F-A-BQQE-QX1
Product No:	96096442
EAN number:	5700395797473
Technical:	
Pump speed on which pump data are based:	2945 rpm
Rated flow:	61.1 m³/h
Rated head:	74.7 m
Maximum head:	900 dm
Actual impeller diameter:	255 mm
Code for shaft 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:	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:	85901227
Controls:	
Control panel:	Standard
Function Module:	PUMP I/O
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	225 kg
Gross weight:	262 kg
Shipping volume:	0.56 m³
Config. file no:	95139406

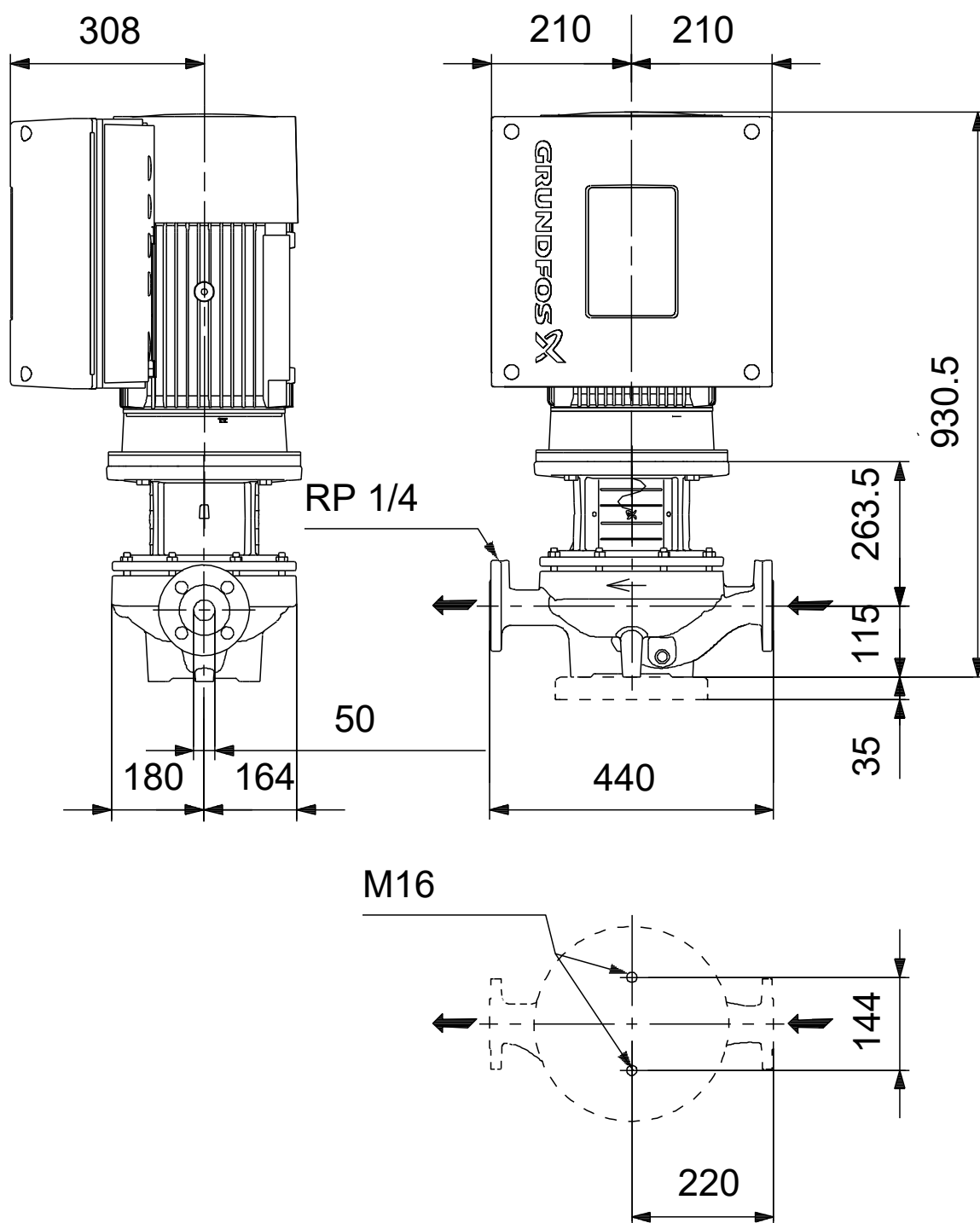


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Danish VVS No.:	382013900
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96096442 TPE 50-900/2 A-F-A-BQQE-QX1 50 Hz



96096442 TPE 50-900/2 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 50-900/2, Product No. 96096442
Produced After 0848 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr	Aanta	Eenhei
	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 Length (mm): 40 Thread: M5				3
-	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
195. a	Grease nipple					1
-	Kit, motor			96844384	1	
	Flex insulation					3

Pos	Omschrijving	Opmerking tekst	Classificatie	Gegevens	Onderdeelnr	Aanta	Eenhei
	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
49	Impeller		Outer diameter: 255		98296683	1	pcs
- 50	Pump housing cpl.				99048206	1	pcs
36	Nut		Thread: M10		96620484	10	
56	Base plate				96590430	1	pcs
67	Nut		Thread: M14		92526531	1	pcs
72a	O-ring		Diameter: 253,6		92547618	1	pcs
			Material type: EPDM				
			Thickness: 3,53				
72a	O-ring		Diameter: 253,6		92526509	1	pcs
			Material type: EPDM				
			Thickness: 3,53				
72a	O-ring		Diameter: 253,6		97511826	1	pcs
			Material type: EPDM				
			Thickness: 3,53				
72a	O-ring		Diameter: 253,6		97757672	1	pcs
			Material type: EPDM				
			Thickness: 3,53				
105	Shaft seal				99380916	1	pcs
105	Shaft seal				99884645	1	pcs