

Inventflow: Grundfos A-partner

Grundfos TPE 40-270/2 S-A-F-A-BQQE-HAB

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-40-270-2-s-a-f-a-bqqe-hab>

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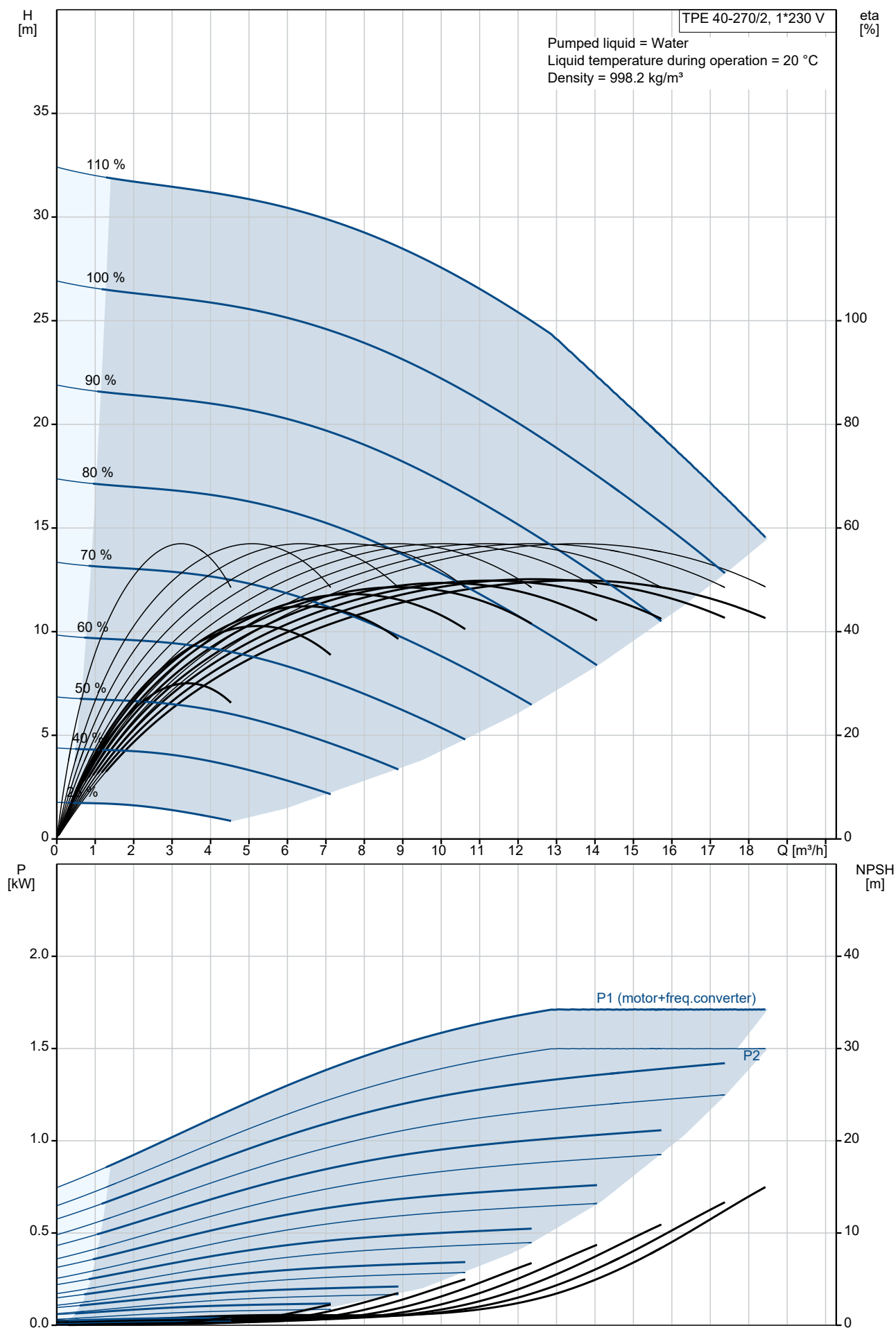
Datasheet



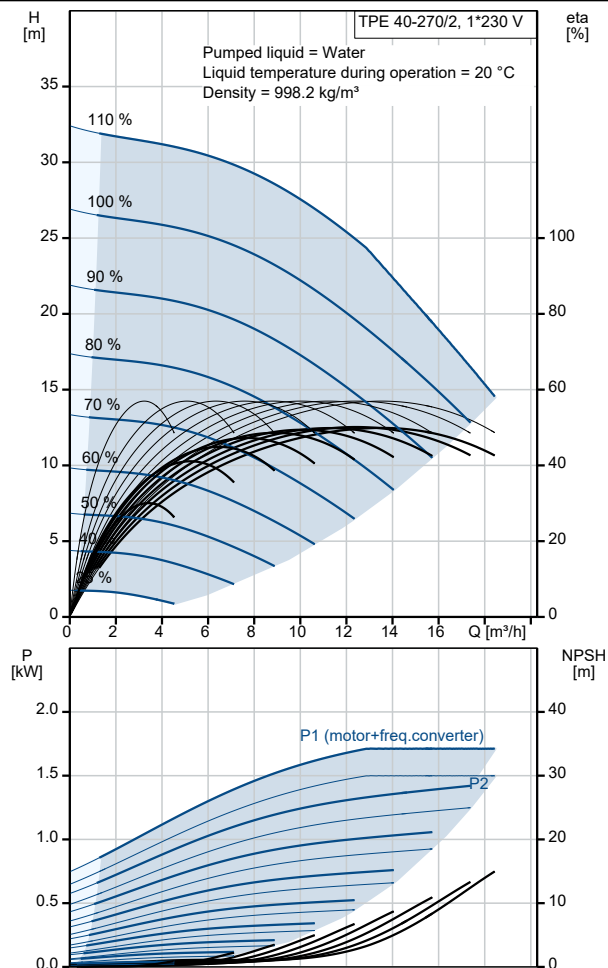
Qty.	Description
1	TPE 40-270/2 S-A-F-A-BQQE-HAB  Note! Product picture may differ from actual product Product No.: 99134456 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. The shaft seal is a corrosion resistant maintenance-free mechanical seal. The pump is fitted with an IEC-flanged single-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 - 10 V, 0(4) - 20 mA, - 10 V voltage supply for setpoint potentiometer, I_{max} = 5 mA, - pressure sensor factory-fitted. - input for forced control to MIN, MAX, External fault or Flowswitch (potential-free contact), - potential-free fault signal relay with changeover contact, - RS485 GENIbus.

Qty.	Description
	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: 2880 rpm Rated flow: 12.5 m³/h Rated head: 19.9 m Actual impeller diameter: 145 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Materials: Pump housing: Cast iron EN-GJL-250 ASTM class 35 Impeller: Stainless steel EN 1.4301 AISI 304 Installation: Range of ambient temperature: -20 .. 50 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C Type of connection: DIN Size of connection: DN 40 Pressure rating for connection: PN 16 Port-to-port length: 320 mm Flange size for motor: FT115 Electrical data: Motor type: 90SC IE Efficiency class: IE5 Rated power - P2: 1.5 kW Mains frequency: 50 Hz Rated voltage: 1 x 200-240 V Rated current: 9.10-7.60 A Cos phi - power factor: 0.99 Rated speed: 360-4000 rpm Efficiency: 87.4% Motor efficiency at full load: 87.4 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98362278 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 33.3 kg Gross weight: 45 kg Shipping volume: 0.16 m³ Country of origin: HU Custom tariff no.: 84137051

99134456 TPE 40-270/2 S-A-F-A-BQQE-HAB 50 Hz

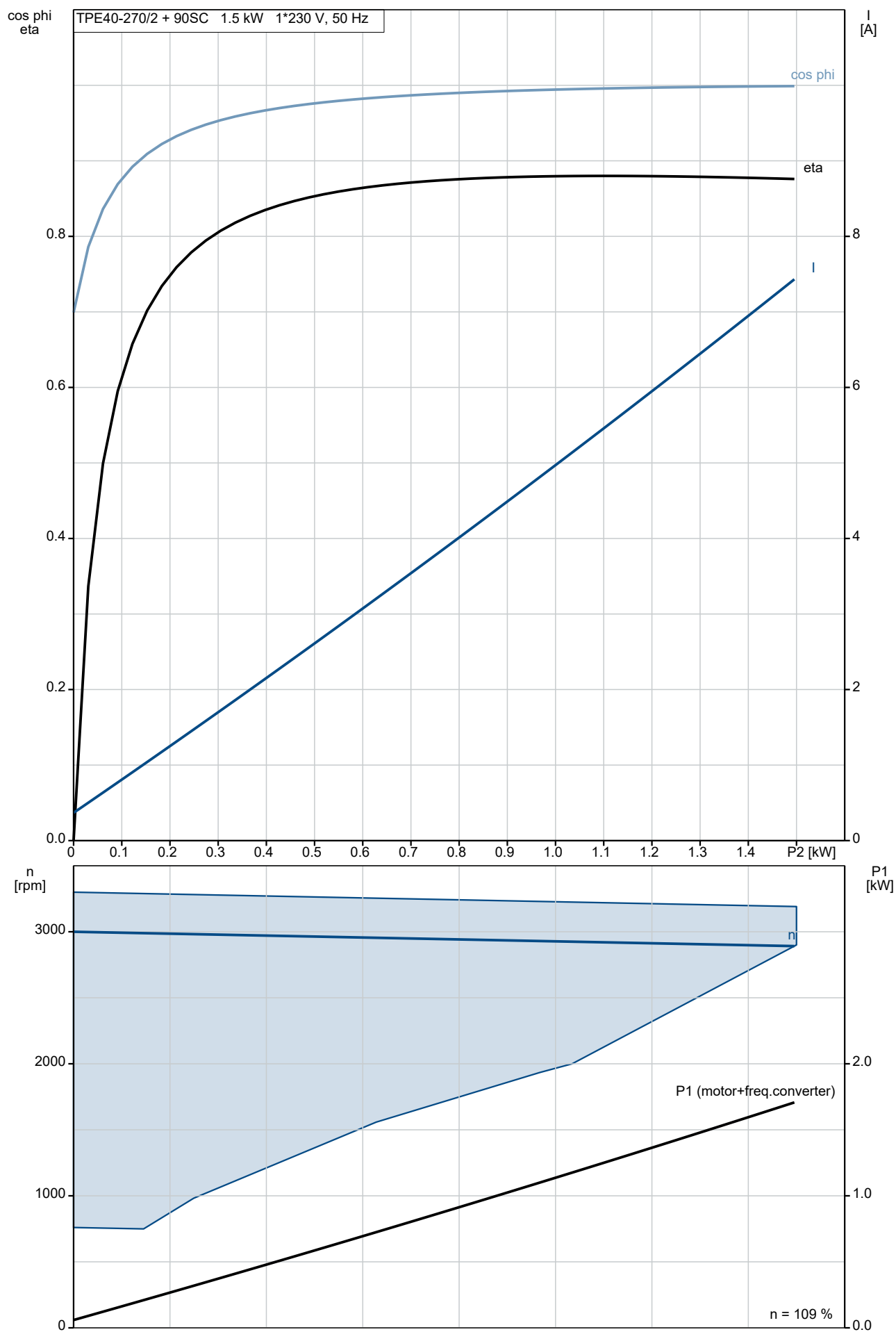


Description	Value
General information:	
Product name:	TPE 40-270/2 S-A-F-A-BQQE-HAB
Product No:	99134456
EAN number:	5712607383251
Technical:	
Pump speed on which pump data are based:	2880 rpm
Rated flow:	12.5 m³/h
Rated head:	19.9 m
Maximum head:	270 dm
Actual impeller diameter:	145 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
Pump version:	A
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM class 35
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Installation:	
Range of ambient temperature:	-20 .. 50 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Type of connection:	DIN
Size of connection:	DN 40
Pressure rating for connection:	PN 16
Port-to-port length:	320 mm
Flange size for motor:	FT115
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:	90SC
IE Efficiency class:	IE5
Rated power - P2:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 200-240 V
Rated current:	9.10-7.60 A
Cos phi - power factor:	0.99
Rated speed:	360-4000 rpm
Efficiency:	87.4%
Motor efficiency at full load:	87.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	ELEC
Motor No:	98362278
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	33.3 kg
Gross weight:	45 kg
Shipping volume:	0.16 m³
Config. file no:	99145774

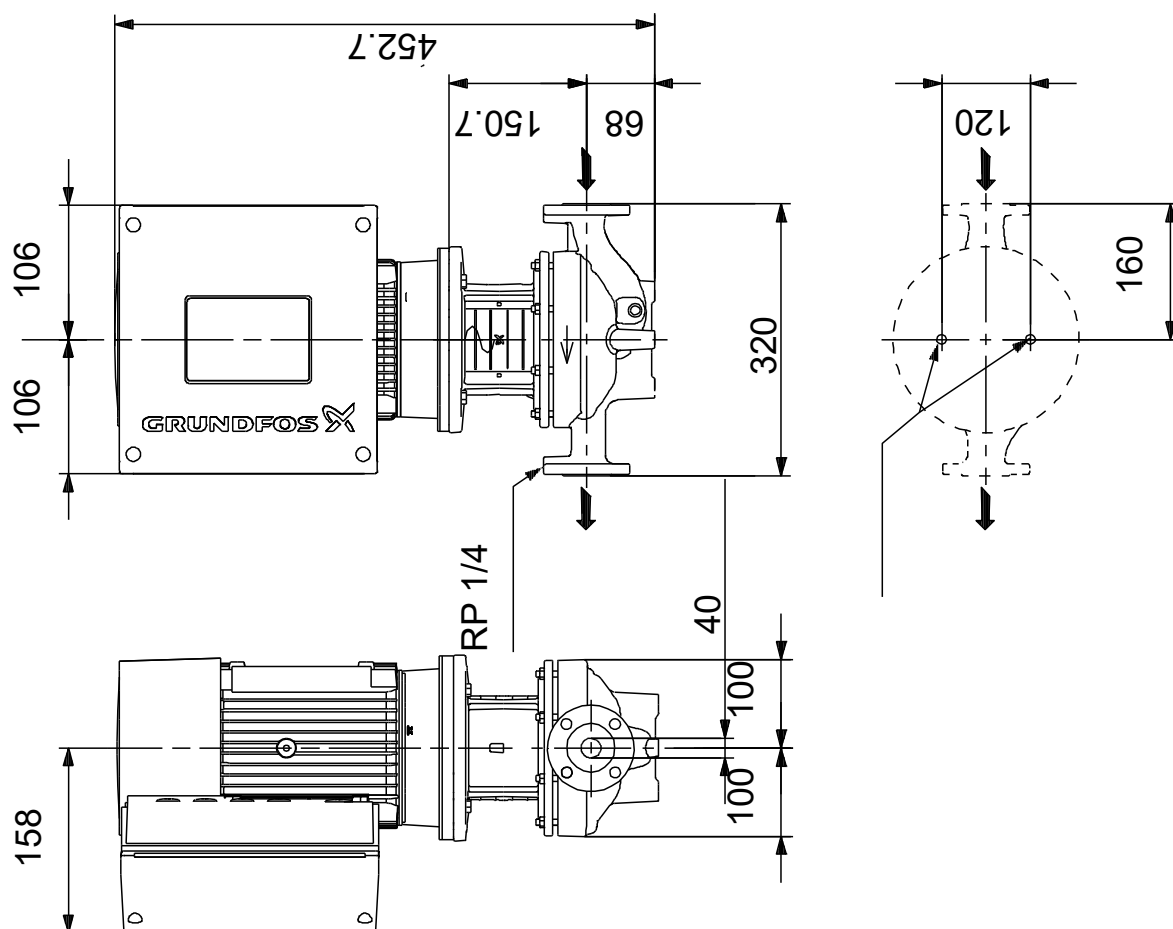


Description	Value
Country of origin:	HU
Custom tariff no.:	84137051

99134456 TPE 40-270/2 S-A-F-A-BQQE-HAB 50 Hz



99134456 TPE 40-270/2 S-A-F-A-BQQE-HAB 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 40-270/2, Product No. 99134456
Produced After 1811 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bracket			99184283	1	pcs
	Pan head thread forming screw				1	
	Bracket				1	
152	Cross recess countersunk screw				1	
-	Kit, capillary tubes			99184237	1	pcs
508	Tube				1	
509	Capillary tube.				1	
-	Kit, coupling			00339124	1	pcs
9	Hex socket head cap screw	Designation: DIN 912			4	
		Length (mm): 25				
		Thread: M8				
10a	Coupling half				2	
10	Shaft pin	Diameter: 5			1	
		Length (mm): 26				
-	Kit, sensor			99184269	1	pcs
	Housing				1	
	Clip				1	
	Fitting				2	
7a	Pan washer head screw				2	
501	Sensor				1	
510	Mounting bush.				2	
530	Cable				1	
-	Kit, shaft seal			98313337	1	pcs
	Plug				2	
72a	O-ring	Diameter: 154			1	
		Material type: EPDM				
		Thickness: 4				
72a	O-ring				1	
105	Shaft seal				1	
-	Shaft w/impeller cpl.			98313247	1	pcs
49b	Split cone nut			96547794	1	
49b	Split cone			96547795	1	
51	Pump shaft			96547792	1	
-	Motor				1	pcs
-	Kit, adapter			98345796	1	
- 252a	Adapter set					1
	Adapter					
	Adapter					
167	Cable gland					
-	Kit, bearing cpl.			98330605	1	
111	Ball bearing	Designation: 6204.2Z.C3.SYN			1	
154	Ball bearing				1	
156d	Gasket	Internal diameter: 114,80			1	
		Outer diameter: 121,20				
		Thickness: 0,25				
156c	Seal ring				1	
156c	Seal ring				1	
157	O-ring	Diameter: 47			1	
		Material type: NBR				
		Thickness: 3				
158	Waved washer				1	
-	Kit, Blanking plug			98334761	1	
252b	Plug cpl.				4	
-	Kit, cable gland			98337336	1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
- 293	Cable glands set			98271484	1	
167	Cable gland					
167	Cable gland					
-	Kit, connector plugs			98403113	1	
266	Connector plug 10-pole				1	
266	Connector plug 2-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
-	Kit, control box			98606008	1	
152	Pan head thread forming screw				1	
178	Pan head thread forming screw				4	
251d	Pan head thread forming screw				4	
251b	Control box				1	
251a	Control box				1	
252b	Plug cpl.				4	
268a	Base				1	
268	Pan head screw				1	
273b	Battery				1	
273	Funct. Module cpl.				1	
275a	Pin				1	
277a	Cross recess Pan head screw				5	
277a	Cross recess Pan head screw				1	
277a	Cross recess Pan head screw				1	
277	Isolation cover				1	
286	Spacer				1	
287	Cover				1	
288b	Retaining ring				6	
288a	Pan head thread forming screw				6	
288	Wire clamp				3	
289	Wire clamp				1	
290	Control panel, cpl.				1	
-	Kit, Control box upper			98334768	1	
251d	Pan head thread forming screw				4	
251b	Control box				1	
-	Kit, Control panel			98939971	1	
290	Control panel, cpl.				1	
-	Kit, cover			98330622	1	
287	Cover				1	
-	Kit, fan			98290124	1	
152	Pan head thread forming screw				4	
156c	Seal ring				1	
156	Fan				1	
-	Kit, flange (DE)			98290128	1	
156d	Gasket		Internal diameter: 114,80		1	
			Outer diameter: 121,20			
			Thickness: 0,25			

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
156b	Flange				1	
185	Cross recess Pan head screw				4	
186	Drain plug				1	
188	Retaining ring				1	
-	Kit, Funct. module			98334777	1	
273a	Cross recess Pan head screw				5	
273	Funct. Module cpl.				1	
275a	Pin				1	
286	Spacer				1	
-	Kit, Isolation cover			98330624	1	
277a	Cross recess Pan head screw				1	
277	Isolation cover				1	
-	Kit, Lower part cpl.			98330615	1	
178	Pan head thread forming screw				4	
251a	Control box				1	
275a	Pin				1	
277a	Cross recess Pan head screw				1	
277	Isolation cover				1	
-	Kit, motor			98293841	1	
	Terminal				3	
99a	Retaining ring				1	
99	Retaining ring				1	
150	Stator				1	
150	Stator housing				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
153	Ball bearing		Designation: 6204.2Z.C3.SYN		1	
154	Ball bearing				1	
156d	Gasket		Internal diameter: 114,80		1	
			Outer diameter: 121,20			
			Thickness: 0,25			
156c	Seal ring				1	
156c	Seal ring				1	
156b	Flange				1	
156	Fan				1	
157	O-ring		Diameter: 47		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
172	Shaft w/rotor				1	
178	Pan head thread forming screw				4	
185	Cross recess Pan head screw				4	
186	Drain plug				1	
203	Terminal plug				1	
289a	Pan head thread forming screw				1	
-	Kit, plug			99369622	1	
	Terminal				3	
203	Terminal plug				1	
205	Pan head thread forming screw				1	
-	Kit, screws			98330627	1	
268a	Base				1	
268	Pan head screw				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
288b	Retaining ring				6	
288a	Pan head thread forming screw				6	
288	Wire clamp				3	
289a	Pan head thread forming screw				1	
289	Wire clamp				1	
	Pan head thread forming screw			99598708	4	
111	Ball bearing		Designation: 6204.2Z.C3.SYN	97914979	1	
152	Pan head thread forming screw			99834207	4	
152	Pan head thread forming screw			99814578	4	
156d	Gasket		Internal diameter: 114,80	99406425	1	
			Outer diameter: 121,20			
			Thickness: 0,25			
156	Fan			96591801	1	
159a	Seal ring			97689816	1	
186	Drain plug			99980519	1	
251d	Pan head thread forming screw			98995460	4	
7a	Pan head screw			96536492	4	pcs
7	Coupling guard			96590459	2	pcs
10	Shaft pin		Diameter: 5	96536473	1	pcs
			Length (mm): 26			
10	Shaft pin		Diameter: 5	96587588	1	pcs
			Length (mm): 26			
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
26	Hex head screw		Length (mm): 25	97506945	8	pcs
			Thread: M10			
28	Hex head screw		Length (mm): 20	99932722	4	pcs
			Thread: M8			
- 50	Pump housing cpl.			98313163	1	pcs
45	Neck ring			98996813	1	
72a	O-ring		Diameter: 154	98163015	1	pcs
			Material type: EPDM			
			Thickness: 4			
510	Mounting bush.			99079267	2	pcs