

Inventflow: Grundfos A-partner

Grundfos TPE 100-130/4 A-F-A-BQQE-KDA

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-100-130-4-a-f-a-bqqe-kda>

Contact

info@inventflow.nl

+31 (0) 546 45 80 72

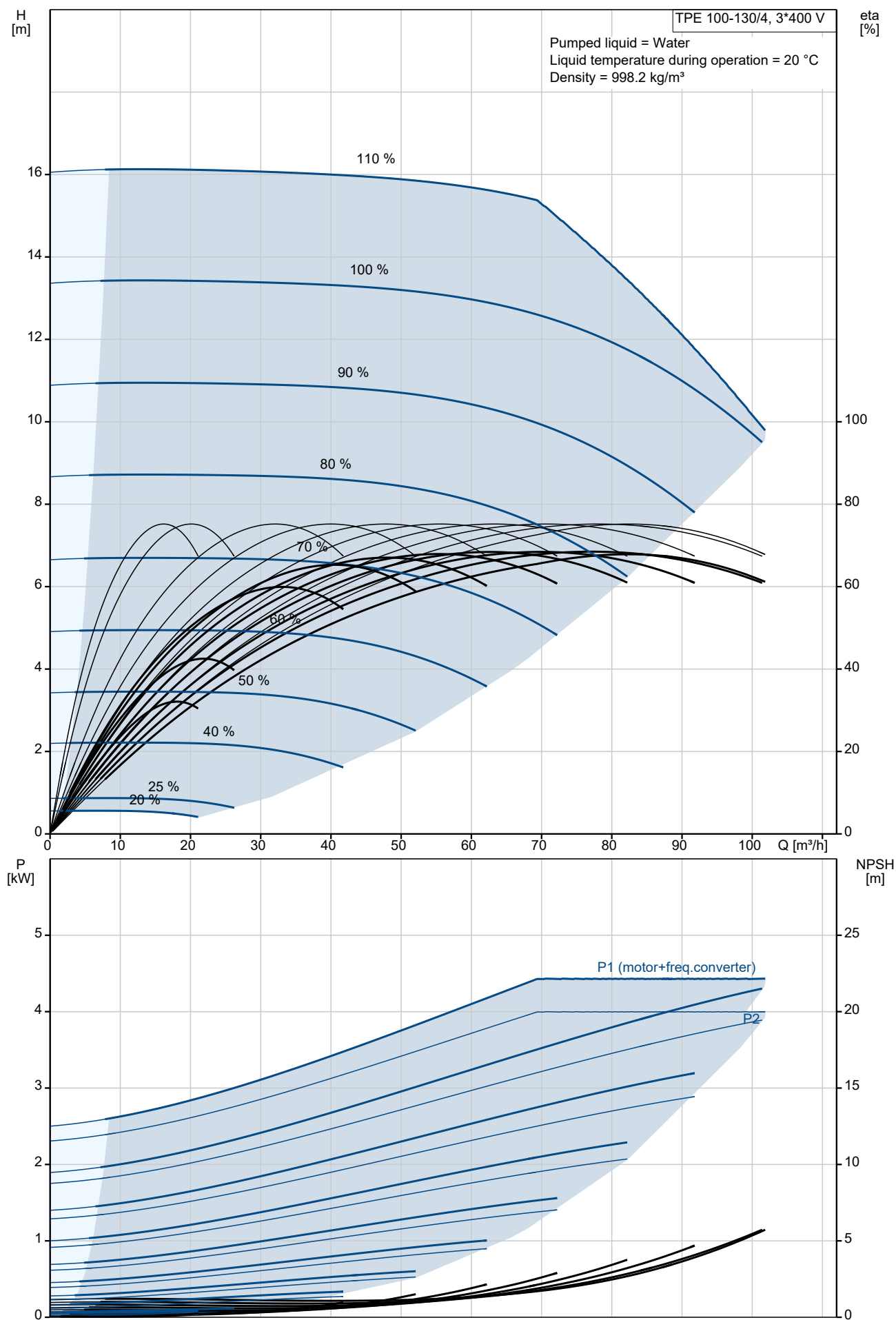
Datasheet



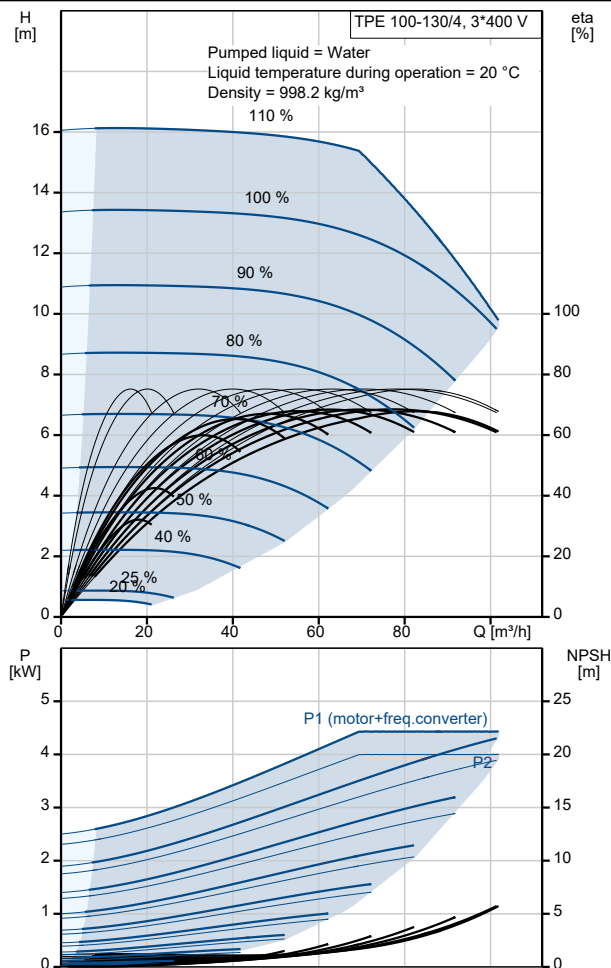
Qty.	Description
1	TPE 100-130/4 A-F-A-BQQE-KDA  Note! Product picture may differ from actual product Product No.: 99113705 Single-stage, centrifugal volute in-line, single-head pump. The in-line design with opposite suction and discharge ports enables mounting in pipework or on a concrete foundation. 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 (potential-free contact), - potential-free fault signal relay with changeover contact,

Qty.	Description
	- 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: 1455 rpm Rated flow: 78.2 m³/h Rated head: 12.2 m Actual impeller diameter: 200 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 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 .. 50 °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: FF215 Electrical data: Motor type: 112ME IE Efficiency class: IE5 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 7.70-6.00 A Cos phi - power factor: 0.92-0.87 Rated speed: 180-2200 rpm Efficiency: 90.3% Motor efficiency at full load: 90.3 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971183 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 130 kg Gross weight: 149 kg Shipping volume: 0.39 m³ Finnish LVI No.: 4616495 Norwegian NRF no.: 9043657 Country of origin: HU Custom tariff no.: 84137051

99113705 TPE 100-130/4 A-F-A-BQQE-KDA 50 Hz

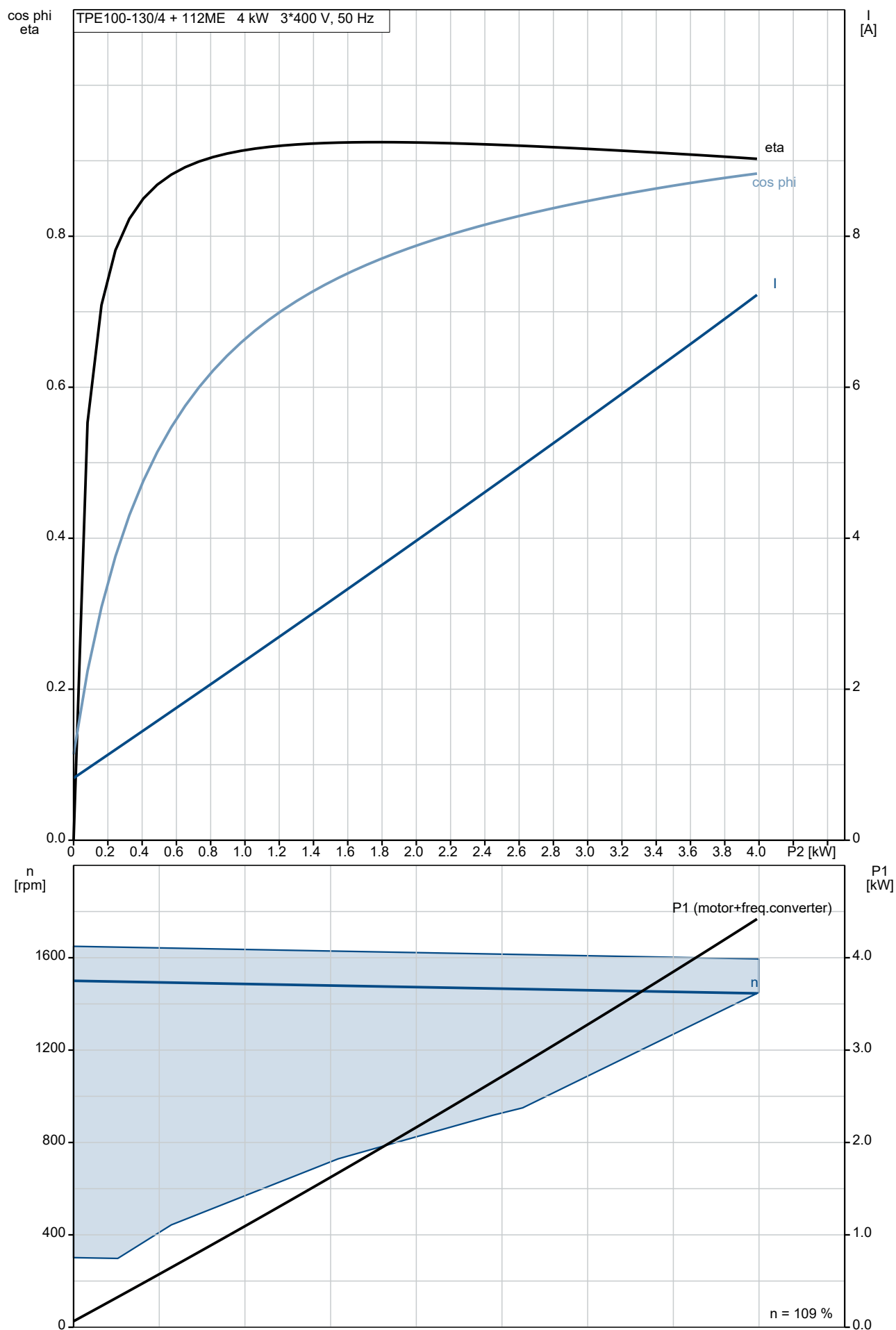


Description	Value
General information:	
Product name:	TPE 100-130/4 A-F-A-BQQE-KDA
Product No:	99113705
EAN number:	5712607014698
Technical:	
Pump speed on which pump data are based:	1455 rpm
Rated flow:	78.2 m³/h
Rated head:	12.2 m
Maximum head:	130 dm
Actual impeller diameter:	200 mm
Code for shaft 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:	Cast iron
Impeller:	EN-GJL-200
Impeller:	ASTM class 30
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 100
Pressure rating for connection:	PN 16
Port-to-port length:	550 mm
Flange size for motor:	FF215
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:	112ME
IE Efficiency class:	IE5
Rated power - P2:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-500 V
Rated current:	7.70-6.00 A
Cos phi - power factor:	0.92-0.87
Rated speed:	180-2200 rpm
Efficiency:	90.3%
Motor efficiency at full load:	90.3 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	ELEC
Motor No:	98971183
Controls:	
Control panel:	HMI200 - Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	130 kg
Gross weight:	149 kg
Shipping volume:	0.39 m³
Config. file no:	99100731

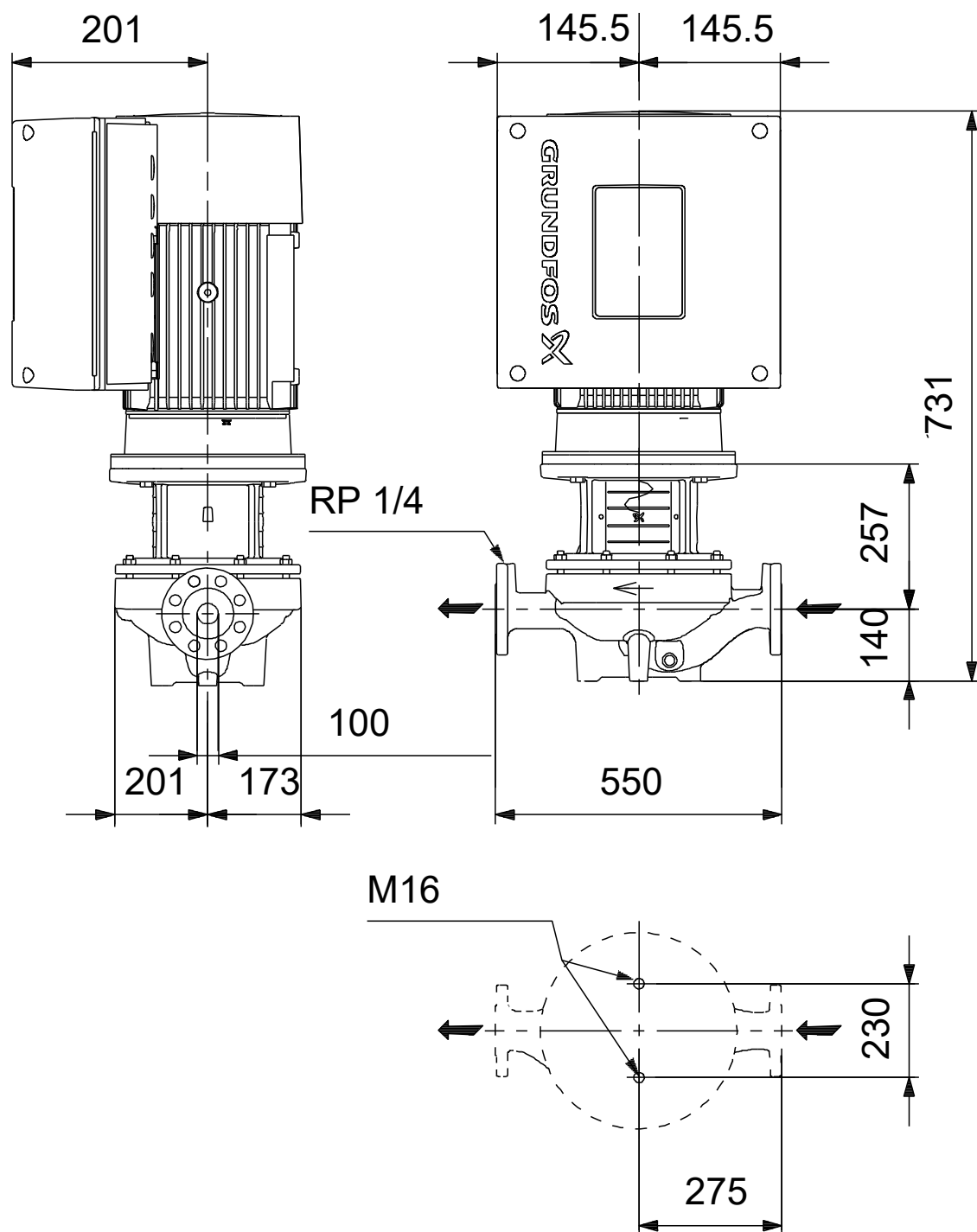


Description	Value
Finnish LVI No.:	4616495
Norwegian NRF no.:	9043657
Country of origin:	HU
Custom tariff no.:	84137051

99113705 TPE 100-130/4 A-F-A-BQQE-KDA 50 Hz



99113705 TPE 100-130/4 A-F-A-BQQE-KDA 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 100-130/4, Product No. 99113705
Produced After 1811 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Motor				1	pcs
-	Kit, Ball bearing			98881509	1	
99	Retaining ring				1	
153	Ball bearing		Designation: 6206.2Z.C3.SYN		1	
154	Ball bearing				1	
156c	Seal ring				2	
157	O-ring		Diameter: 62 Material type: NBR Thickness: 3		1	
158	Waved washer				1	
188	Retaining ring				1	
-	Kit, Blanking plug			99052475	1	
252b	Plug cpl.				4	
252b	Blanking plug				1	
-	Kit, cable gland			98736096	1	
293	Cable glands set				1	
-	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			98878612	1	
251d	Pan head thread forming screw				4	
251b	Control box				1	
251a	Control box cpl.				1	
252b	Plug cpl.				4	
252b	Blanking plug				1	
266	Connector plug 10-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	
268a	Base				1	
268	Pan head screw				1	
273b	Battery				1	
273a	Cross recess Pan head screw				3	
273	Funct. Module cpl.				1	
275a	Pin				1	
277b	Spring				4	
277a	Cross recess Pan head screw				1	
277	Cover				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
286	Spacer				1	
287	Cover				1	
288b	Retaining ring				8	
288a	Pan head thread forming screw				8	
288	Wire clamp				4	
289a	Pan head thread forming screw				1	
289	Wire clamp				1	
290	Control panel, cpl.				1	
301	Jumper				1	
-	Kit, Control box upper			98869865	1	
251d	Pan head thread forming screw				4	
251b	Control box				1	
-	Kit, Control panel			98939973	1	
290	Control panel, cpl.				1	
-	Kit, cover			98330622	1	
287	Cover				1	
-	Kit, end shield (NDE)			98869883	1	
156c	Seal ring				1	
156a	End shield NDE				1	
157	O-ring		Diameter: 62 Material type: NBR Thickness: 3		1	
158	Waved washer				1	
206	Pan head thread forming screw				4	
-	Kit, fan			98869879	1	
152	Pan head thread forming screw				4	
156c	Seal ring				1	
156	Fan				1	
-	Kit, fan cover			99957566	1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
-	Kit, flange (DE)			98966316	1	
	Glue				0	
156c	Seal ring				1	
156b	Flange				1	
201c	Drain plug				3	
-	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			98859508	1	
277b	Spring				4	
277a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, Lower part cpl.			98859571	1	
178	Pan head thread forming screw				4	
251a	Control box cpl.				1	
275a	Pin				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
277a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, motor			99010748	1	
	Terminal				3	
99	Retaining ring				1	
111	Ball bearing				1	
111	Ball bearing		Designation: 6206.2Z.C3.SYN		1	
150	Stator w/housing				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
152	Pan head thread forming screw				2	
156d	Seal ring				1	
156c	Seal ring				1	
156b	Flange				1	
156	Fan				1	
157	O-ring		Diameter: 62		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
172a	Parallel key				1	
172	Shaft w/rotor				1	
181	Pan head staybolt				4	
188	Retaining ring				1	
190	Eyebolt				2	
201c	Drain plug				3	
203	Terminal plug				1	
205	Gasket				1	
-	Kit, plug			99028676	1	
152	Pan head thread forming screw				2	
203	Terminal plug				1	
205	Gasket				1	
-	Kit, screws			99028712	1	
268a	Base				1	
268	Pan head screw				1	
288b	Retaining ring				8	
288a	Pan head thread forming screw				8	
288	Wire clamp				4	
289a	Pan head thread forming screw				1	
289	Wire clamp				1	
-	Kit, staybolts			98881543	1	
181	Pan head staybolt				4	
111	Ball bearing			99083449	1	
111	Ball bearing		Designation: 6206.2Z.C3.SYN	99078033	1	
111	Ball bearing		Designation: 6206.2Z.C3.SYN	97501070	1	
152	Pan head thread forming screw			99834207	2	
152	Pan head thread forming screw			99814578	2	
186	Drain plug			99980519	3	
251d	Pan head thread forming screw			98995460	4	
266	Connector plug 3-pole			99421265	1	
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
19	Plug			98163028	2	pcs
49	Impeller			98296637	1	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
- 50	Pump housing cpl.			99211173	1	pcs
36	Nut		Thread: M10	96620484	8	
67	Nut		Thread: M18	92526535	1	pcs
72.a	O-ring		Diameter: 221,84	92547617	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72.a	O-ring		Diameter: 221,84	97511825	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
72.a	O-ring		Diameter: 221,84	97757671	1	pcs
			Material type: EPDM			
			Thickness: 3,53			
77a	Pan head screw			99266550	4	pcs
105b	Spacer			96591277	1	pcs
105	Shaft seal			92514302	1	pcs
105	Shaft seal			98434906	1	pcs