

Inventflow: Grundfos A-partner

Grundfos TPE 150-250/4 NC-A-F-A-BQQE-QX3

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-150-250-4-nc-a-f-a-bqqe-qx3>

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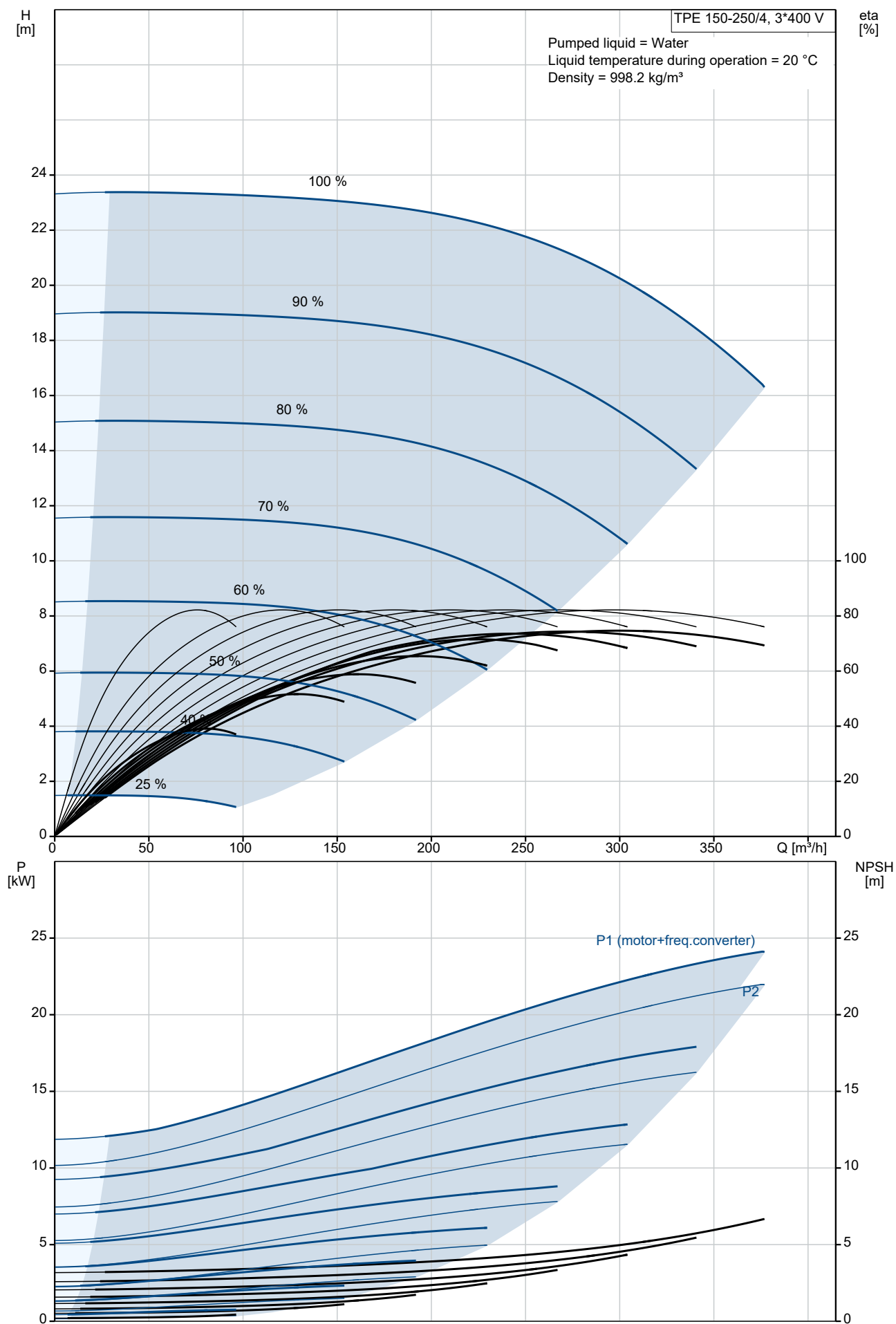
Datasheet



Qty.	Description
1	TPE 150-250/4 NC-A-F-A-BQQE-QX3  Note! Product picture may differ from actual product Product No.: 99473965 Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework. The pump is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Flange standard: Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled asynchronous motor. The pump includes a frequency converter and PI controller. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. Controls: VFD product number: 99448797 Frequency converter: Built-in Type of frequency converter: CUE 3X380-500V IP55 RUG 22KW Appr. for VFD: CE, CULUS, C-TICK 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: 1465 rpm Rated flow: 296 m³/h Rated head: 20.4 m Actual impeller diameter: 266 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

Qty.	Description
	ASTM class 30
	Installation:
	Range of ambient temperature: -20 .. 55 °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: SIEMENS
	IE Efficiency class: IE3
	Rated power - P2: 22 kW
	Mains frequency: 50 Hz
	Rated voltage: 3 x 380-420D/660-725Y V
	Rated current: 42,5-40,5/24,6-23,6 A
	Starting current: 680-680 %
	Cos phi - power factor: 0.8
	Rated speed: 1470 rpm
	Efficiency: IE3 93,0%
	Motor efficiency at full load: 93.0-93.0 %
	Motor efficiency at 3/4 load: 93.7-93.7 %
	Motor efficiency at 1/2 load: 93.7-93.7 %
	Number of poles: 4
	Enclosure class (IEC 34-5): IP55
	Insulation class (IEC 85): F
	Motor No: 99454134
	Others:
	Minimum efficiency index, MEI ≥: 0.65
	Net weight: 454 kg
	Gross weight: 599 kg
	Shipping volume: 1.76 m³
	Country of origin: HU
	Custom tariff no.: 84137051

99473965 TPE 150-250/4 NC-A-F-A-BQQE-QX3 50 Hz



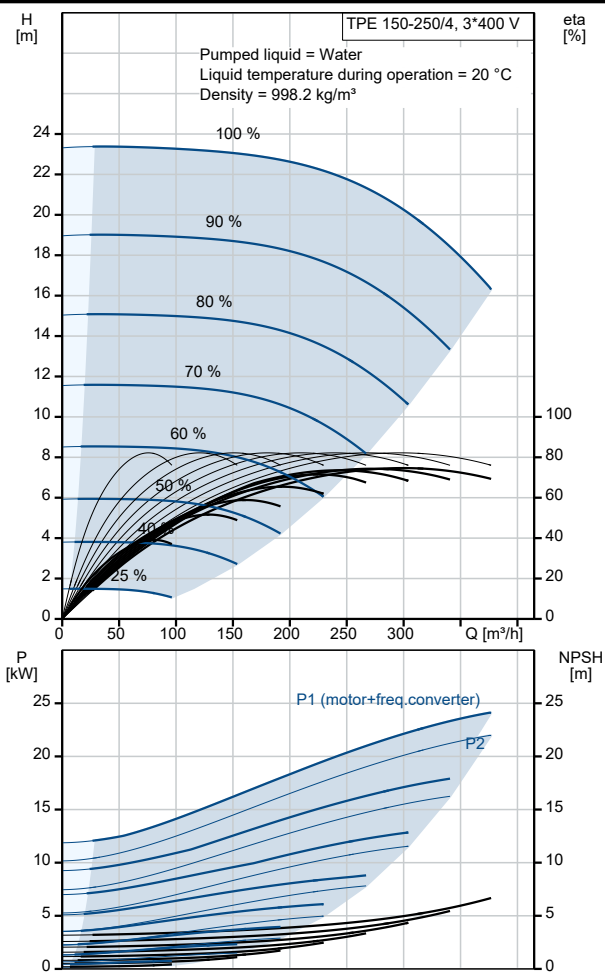
Description	Value	H [m]	eta [%]
General information:			
Product name:	TPE 150-250/4 NC-A-F-A-BQQE-QX3		
Product No:	99473965		
EAN number:	5713829699618		
Technical:			
Pump speed on which pump data are based:	1465 rpm		
Rated flow:	296 m³/h		
Rated head:	20.4 m		
Maximum head:	250 dm		
Actual impeller diameter:	266 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 .. 55 °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:	SIEMENS		
IE Efficiency class:	IE3		
Rated power - P2:	22 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-420D/660-725Y V		
Rated current:	42,5-40,5/24,6-23,6 A		
Starting current:	680-680 %		
Cos phi - power factor:	0.8		
Rated speed:	1470 rpm		
Efficiency:	IE3 93,0%		
Motor efficiency at full load:	93.0-93.0 %		
Motor efficiency at 3/4 load:	93.7-93.7 %		
Motor efficiency at 1/2 load:	93.7-93.7 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	99454134		
Controls:			
VFD product number:	99448797		
Frequency converter:	Built-in		
Type of frequency converter:	CUE 3X380-500V IP55 RUG 22KW		
Appr. for VFD:	CE, CULUS, C-TICK		
Others:			
Minimum efficiency index, MEI ≥:	0.65		

TPE 150-250/4, 3*400 V

Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³

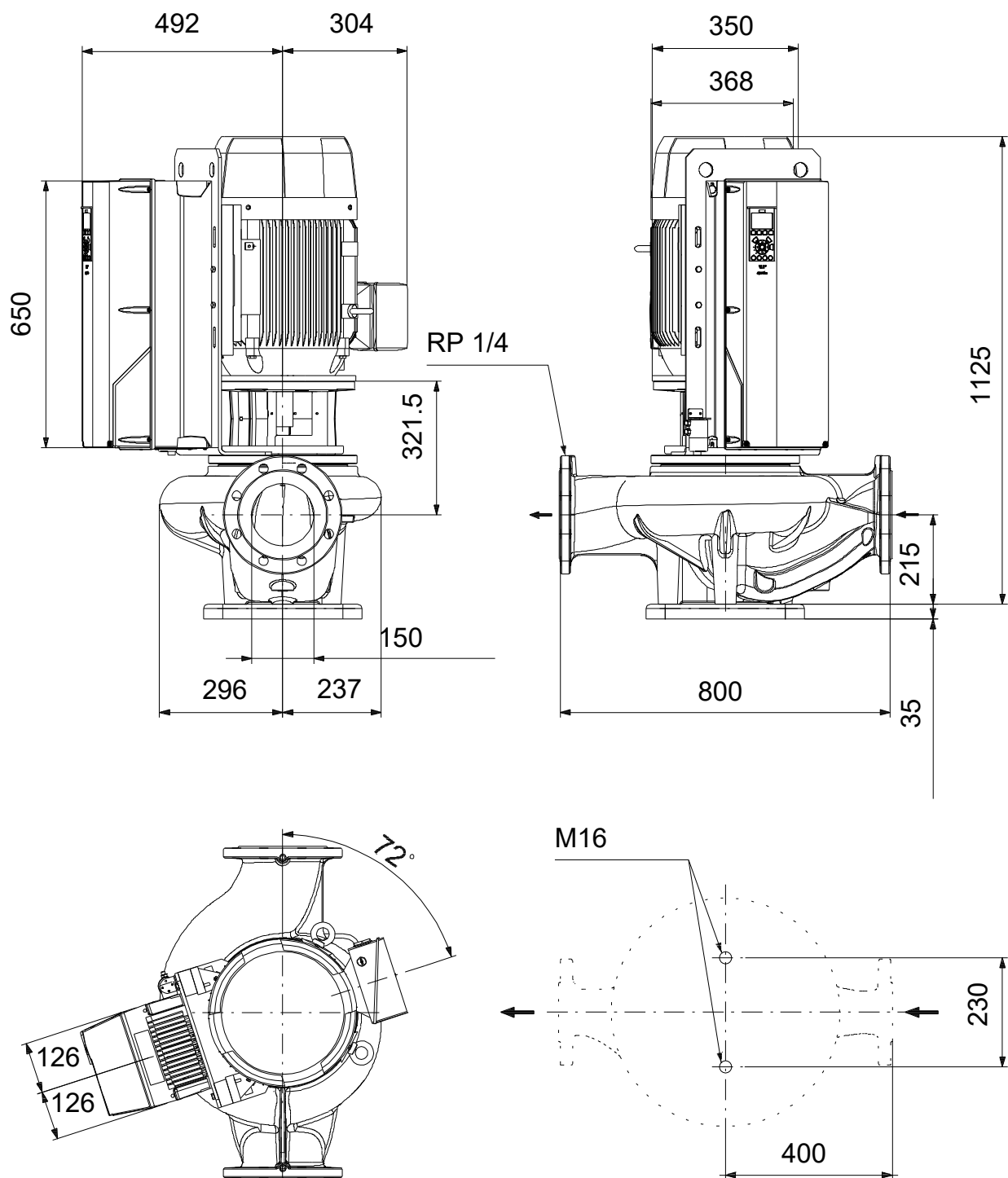
P1 (motor+freq.converter)

P2



Description	Value
Net weight:	454 kg
Gross weight:	599 kg
Shipping volume:	1.76 m ³
Config. file no:	99465434
Country of origin:	HU
Custom tariff no.:	84137051

99473965 TPE 150-250/4 NC-A-F-A-BQQE-QX3 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 150-250/4, Product No. 99473965
Produced After 1339 (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	
-	Spare, wear ring			99208792	1	pcs
45	Wear ring				1	
	Control card			99590986	1	pcs
	Control panel			99591437	1	pcs
4	Fan, internal			96901612	1	pcs
6	Fan, main			96809605	1	pcs
5	Power card			96809725	1	pcs
3	SMPS			96809376	1	pcs
-	Motor				1	pcs
- 153	Ball bearing			99510992	1	
153	Ball bearing				1	
156	Kit, fan			98507819	1	
151	Kit, fan cover			98920945	1	
- 1a	Motor stool cpl.			99449574	1	pcs
77a	Pan head screw			99266550	4	
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
19	Plug			98163028	2	pcs
26	Staybolt	Length (mm): 65		97512562	4	pcs
		Thread: M12				
28	Hex head screw			96620478	4	pcs
36	Hex nut	Thread: M16		96620480	4	pcs
36	Nut	Thread: M12		96620479	4	pcs
36	Nut	Thread: M10		96620484	8	pcs
49	Impeller			98296691	1	pcs
56	Base plate			99788464	1	pcs
67	Nut	Thread: M18		92526535	1	pcs
72.a	O-ring	Diameter: 278,99		92547634	1	pcs
		Material type: EPDM				
		Thickness: 3,53				
72.a	O-ring	Diameter: 278,99		92526510	1	pcs
		Material type: EPDM				
		Thickness: 3,53				
72.a	O-ring	Diameter: 278,99		97511839	1	pcs
		Material type: EPDM				
		Thickness: 3,53				
72.a	O-ring	Diameter: 278,99		97757673	1	pcs
		Material type: EPDM				
		Thickness: 3,53				