



POMPTeCHNIEK • SERVICE • ONDERHOUD

Inventflow: Grundfos A-partner

Grundfos TPE 150-450/4 SC-A-F-A-BQQE-TX3

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-150-450-4-sc-a-f-a-bqqe-tx3>

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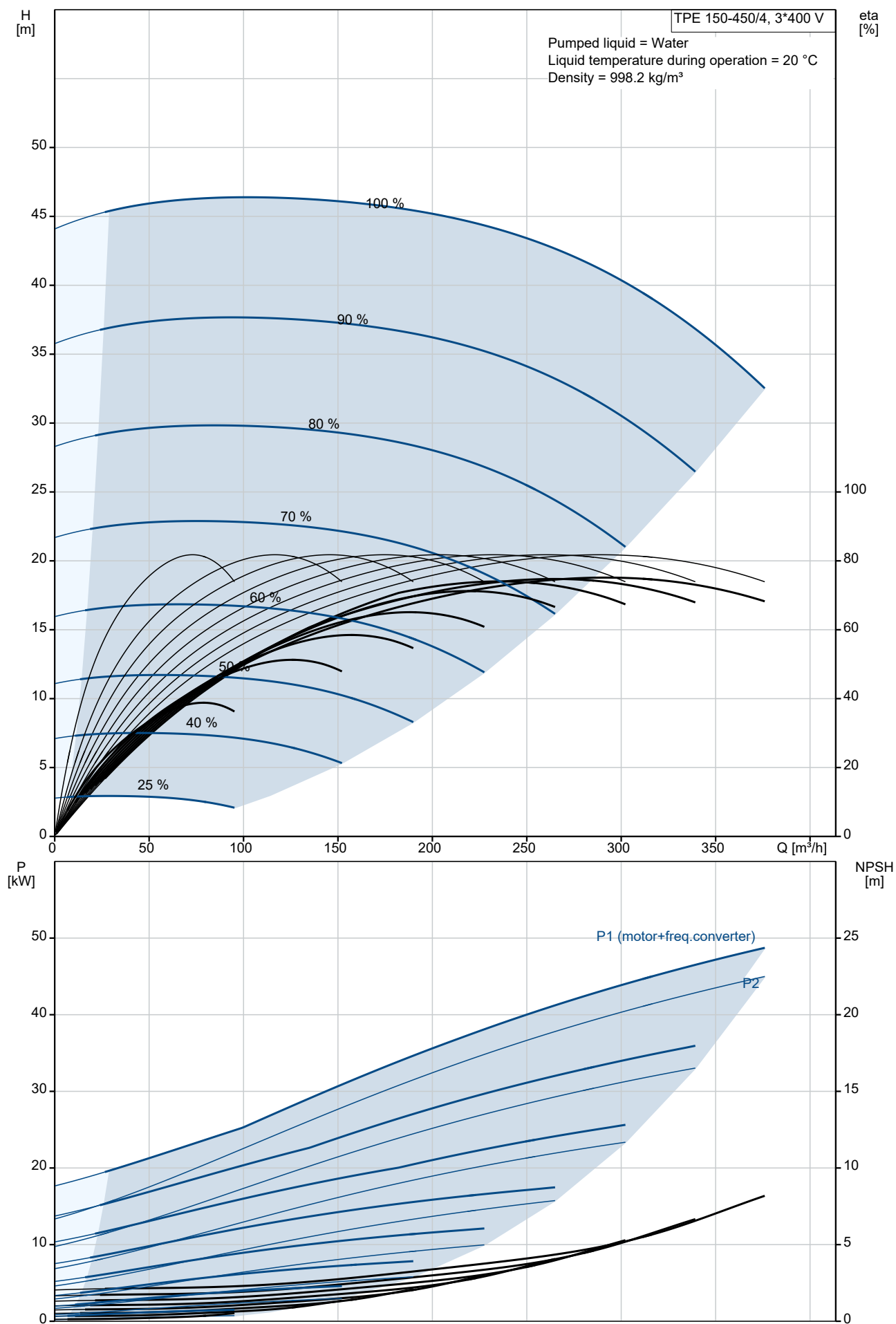
Datasheet



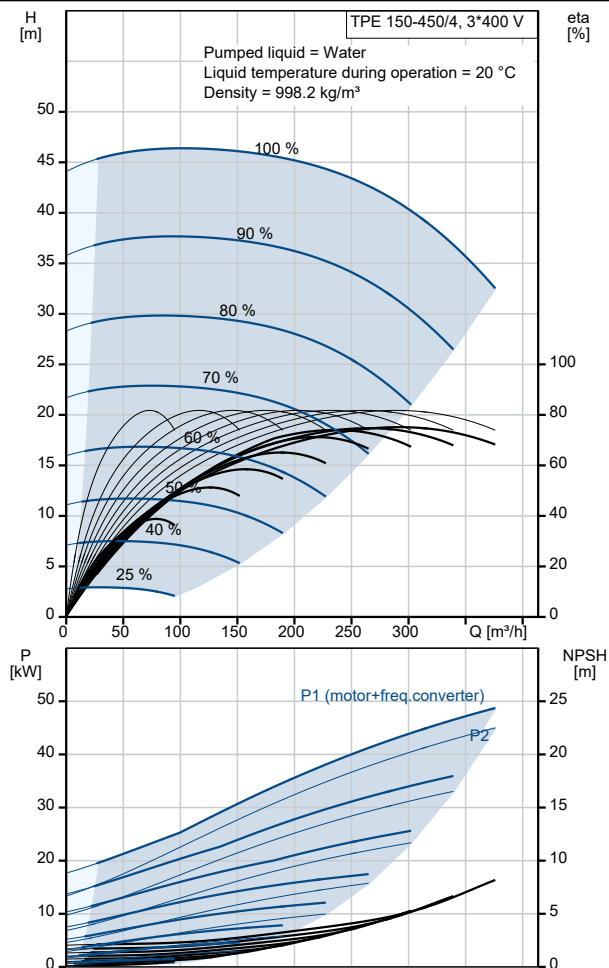
Qty.	Description																																
1	TPE 150-450/4 SC-A-F-A-BQQE-TX3  Note! Product picture may differ from actual product Product No.: 99474594 Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, 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. The pump is fitted with a differential-pressure sensor. Controls: <table> <tr> <td>VFD product number:</td><td>99448801</td></tr> <tr> <td>Frequency converter:</td><td>Built-in</td></tr> <tr> <td>Type of frequency converter:</td><td>CUE 3X380-500V IP55 RUG 45KW</td></tr> <tr> <td>Appr. for VFD:</td><td>CE, CULUS, C-TICK</td></tr> </table> Liquid: <table> <tr> <td>Pumped liquid:</td><td>Water</td></tr> <tr> <td>Liquid temperature range:</td><td>-25 .. 120 °C</td></tr> <tr> <td>Selected liquid temperature:</td><td>20 °C</td></tr> <tr> <td>Density:</td><td>998.2 kg/m³</td></tr> </table> Technical: <table> <tr> <td>Pump speed on which pump data are based:</td><td>1480 rpm</td></tr> <tr> <td>Rated flow:</td><td>290 m³/h</td></tr> <tr> <td>Rated head:</td><td>41 m</td></tr> <tr> <td>Actual impeller diameter:</td><td>358 mm</td></tr> <tr> <td>Code for shaft seal:</td><td>BQQE</td></tr> <tr> <td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr> </table> Materials: <table> <tr> <td>Pump housing:</td><td>Cast iron EN-GJL-250 ASTM class 35</td></tr> <tr> <td>Impeller:</td><td>Cast iron EN-GJL-200 ASTM class 30</td></tr> </table>	VFD product number:	99448801	Frequency converter:	Built-in	Type of frequency converter:	CUE 3X380-500V IP55 RUG 45KW	Appr. for VFD:	CE, CULUS, C-TICK	Pumped liquid:	Water	Liquid temperature range:	-25 .. 120 °C	Selected liquid temperature:	20 °C	Density:	998.2 kg/m ³	Pump speed on which pump data are based:	1480 rpm	Rated flow:	290 m ³ /h	Rated head:	41 m	Actual impeller diameter:	358 mm	Code for shaft seal:	BQQE	Curve tolerance:	ISO9906:2012 3B	Pump housing:	Cast iron EN-GJL-250 ASTM class 35	Impeller:	Cast iron EN-GJL-200 ASTM class 30
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Qty.	Description
	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: 1000 mm Flange size for motor: FF400 Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 45 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 83,0-77,0/48,0-44,5 A Starting current: 640-640 % Cos phi - power factor: 0.9 Rated speed: 1480 rpm Efficiency: IE3 94,2% Motor efficiency at full load: 94.2-94.2 % Motor efficiency at 3/4 load: 94.9-94.9 % Motor efficiency at 1/2 load: 95.1-95.1 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 99454137 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 835 kg Gross weight: 966 kg Shipping volume: 2.38 m³ Country of origin: HU Custom tariff no.: 84137051

99474594 TPE 150-450/4 SC-A-F-A-BQQE-TX3 50 Hz

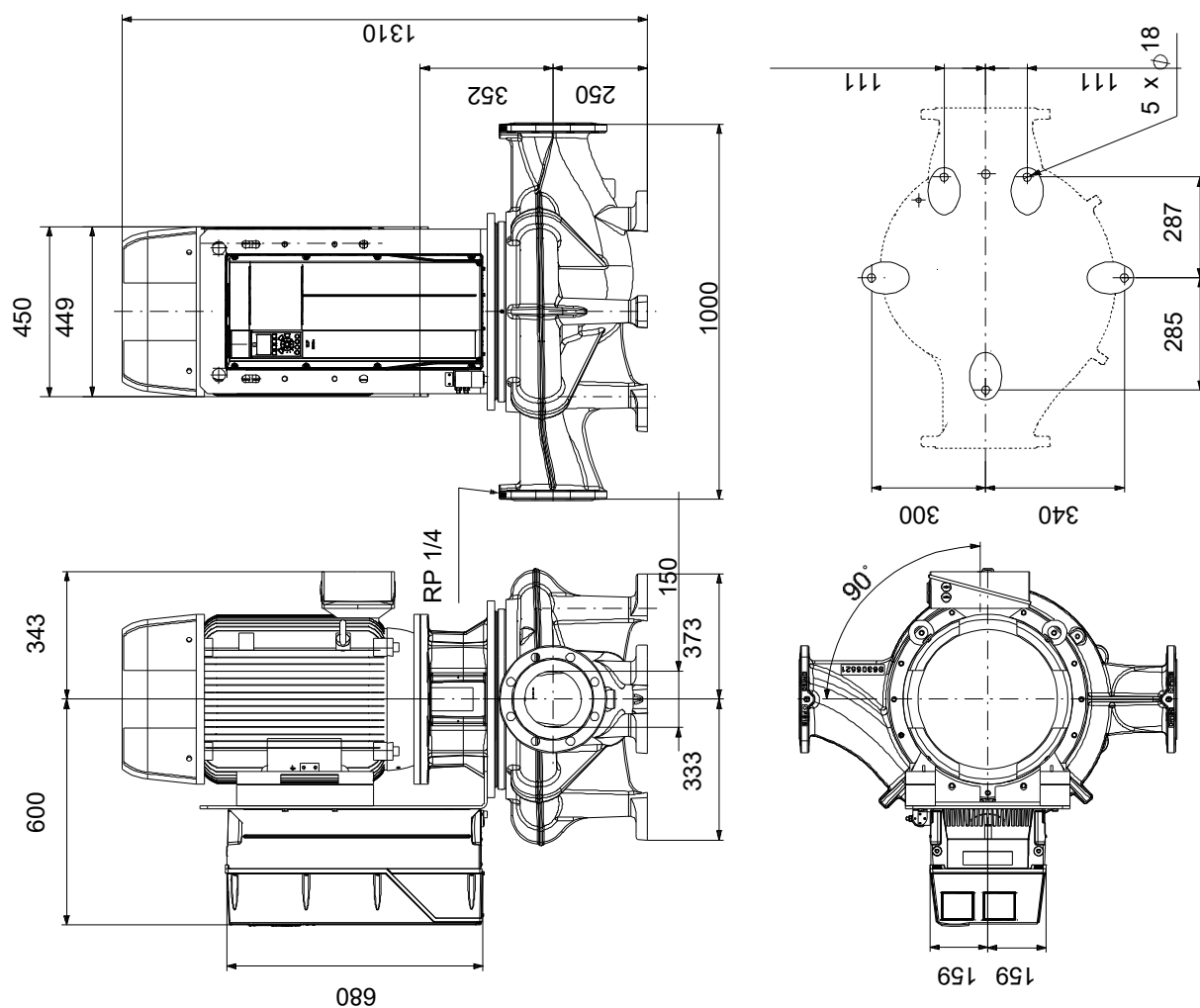


Description	Value
General information:	
Product name:	TPE 150-450/4 SC-A-F-A-BQQE-TX3
Product No:	99474594
EAN number:	5713829711556
Technical:	
Pump speed on which pump data are based:	1480 rpm
Rated flow:	290 m³/h
Rated head:	41 m
Maximum head:	450 dm
Actual impeller diameter:	358 mm
Code for shaft 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:	1000 mm
Flange size for motor:	FF400
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:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	83,0-77,0/48,0-44,5 A
Starting current:	640-640 %
Cos phi - power factor:	0.9
Rated speed:	1480 rpm
Efficiency:	IE3 94,2%
Motor efficiency at full load:	94.2-94.2 %
Motor efficiency at 3/4 load:	94.9-94.9 %
Motor efficiency at 1/2 load:	95.1-95.1 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	99454137
Controls:	
VFD product number:	99448801
Frequency converter:	Built-in
Type of frequency converter:	CUE 3X380-500V IP55 RUG 45KW
Appr. for VFD:	CE, CULUS, C-TICK
Others:	
Minimum efficiency index, MEI ≥:	0.70



Description	Value
Net weight:	835 kg
Gross weight:	966 kg
Shipping volume:	2.38 m³
Config. file no:	99465320
Country of origin:	HU
Custom tariff no.:	84137051

99474594 TPE 150-450/4 SC-A-F-A-BQQE-TX3 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 150-450/4, Product No. 99474594
Produced After 1339 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, capillary tubes			99184237	1	pcs
508	Tube				1	
509	Capillary tube.				1	
-	Kit, sensor			96611527	1	pcs
	Cable tie				5	
	Bracket				1	
7a	Combi Slot Torx screw				3	
84c	Disc spring				3	
268	Pan head screw				1	
501	Sensor				1	
505	Bracket	Type: MGE			1	
506	Socket head cap screw				1	
508	Tube				1	
509	Capillary tube.				1	
510	Mounting bush.				2	
511	Cable pin				3	
-	Spare, wear ring			99208792	1	pcs
45	Wear ring				1	
	Control card			99590986	1	pcs
	Control panel			99591437	1	pcs
9	Current sensor			96809465	1	pcs
4	Fan, internal			96809361	1	pcs
6	Fan, main			96809614	1	pcs
8	IGBT			96809410	1	pcs
5	Power card			96809731	1	pcs
7	Rectifier/thyristor			96809429	1	pcs
-	Motor				1	pcs
-	153 Ball bearing			99511025	1	
153	Ball bearing				1	
156	Kit, fan			98671984	1	
151	Kit, fan cover			98062276	1	
164a	Kit, terminal box			98062263	1	
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
28	Hex head screw	Length (mm): 60 Thread: M16		97506949	8	pcs
36	Nut	Thread: M12		96620479	16	pcs
36	Hex nut	Thread: M16		96620480	4	pcs
49	Impeller			98987929	1	pcs
67	Nut	Thread: M25		92526532	1	pcs
72a	O-ring	Diameter: 66 Material type: RUBBER Thickness: 3,53		92547638	1	pcs
72a	O-ring	Diameter: 66 Material type: RUBBER Thickness: 3,53		92526512	1	pcs
72a	O-ring	Diameter: 66 Material type: RUBBER Thickness: 3,53		97511857	1	pcs
72a	O-ring	Diameter: 66 Material type: RUBBER Thickness: 3,53		97757676	1	pcs
77a	Pan head screw			99266550	4	pcs
510	Mounting bush.			99079267	2	pcs