

Inventflow: Grundfos A-partner

Grundfos TPE 80-700/2 SC-A-F-A-BQQE-RX1

Find the pump here:

<https://inventflow.nl/en/pompenfilter/tpe/grundfos-tpe-80-700-2-sc-a-f-a-bqqe-rx1>

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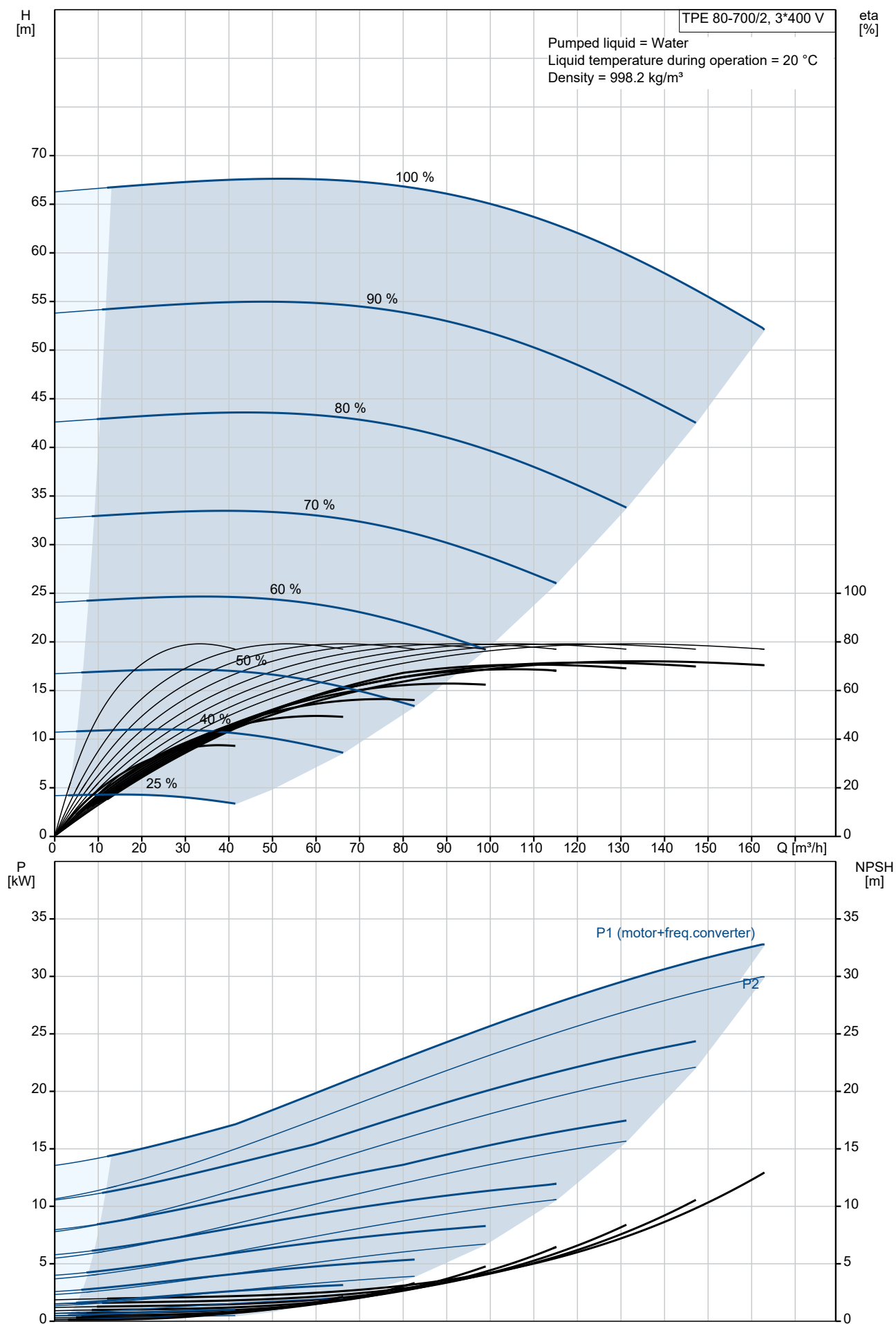
Datasheet



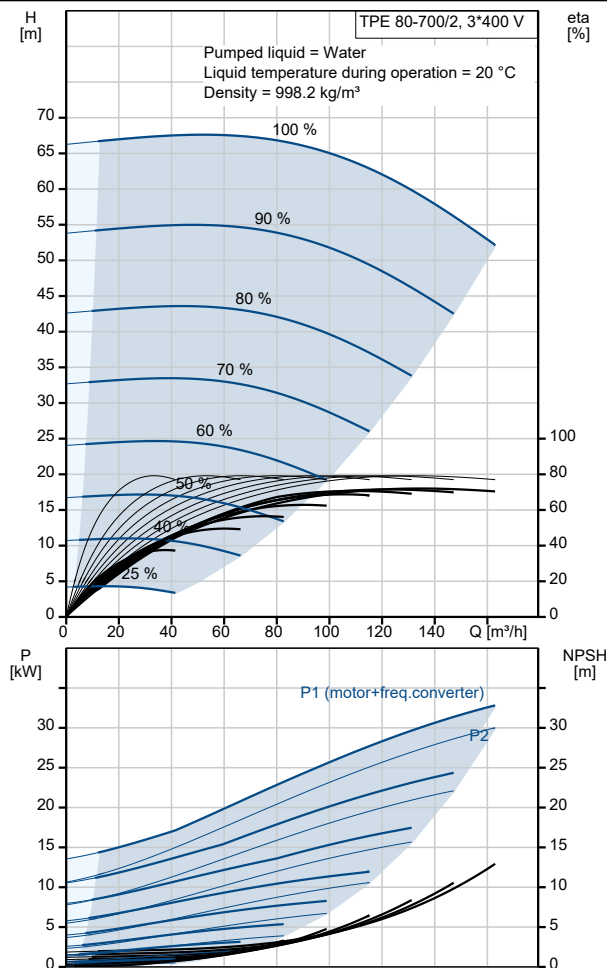
Qty.	Description																																
1	TPE 80-700/2 SC-A-F-A-BQQE-RX1  Note! Product picture may differ from actual product Product No.: 99474585 Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. The pump is of the top-pull-out design, 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>99448799</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 30KW</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>2950 rpm</td></tr> <tr> <td>Rated flow:</td><td>132 m³/h</td></tr> <tr> <td>Rated head:</td><td>59.7 m</td></tr> <tr> <td>Actual impeller diameter:</td><td>219 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</td></tr> </table>	VFD product number:	99448799	Frequency converter:	Built-in	Type of frequency converter:	CUE 3X380-500V IP55 RUG 30KW	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:	2950 rpm	Rated flow:	132 m ³ /h	Rated head:	59.7 m	Actual impeller diameter:	219 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
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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 80
	Pressure rating for connection: PN 16
	Port-to-port length: 500 mm
	Flange size for motor: FF350
	Electrical data:
	Motor type: SIEMENS
	IE Efficiency class: IE3
	Rated power - P2: 30 kW
	Mains frequency: 50 Hz
	Rated voltage: 3 x 380-420D/660-725Y V
	Rated current: 56,0-51,0/32,0-29,5 A
	Starting current: 660-660 %
	Cos phi - power factor: 0.86
	Rated speed: 2955 rpm
	Efficiency: IE3 93,3%
	Motor efficiency at full load: 93.3-93.3 %
	Motor efficiency at 3/4 load: 93.6-93.6 %
	Motor efficiency at 1/2 load: 93.4-93.4 %
	Number of poles: 2
	Enclosure class (IEC 34-5): IP55
	Insulation class (IEC 85): F
	Motor No: 99454131
	Others:
	Minimum efficiency index, MEI ≥: 0.70
	Net weight: 353 kg
	Gross weight: 496 kg
	Shipping volume: 1.28 m³
	Country of origin: HU
	Custom tariff no.: 84137051

99474585 TPE 80-700/2 SC-A-F-A-BQQE-RX1 50 Hz

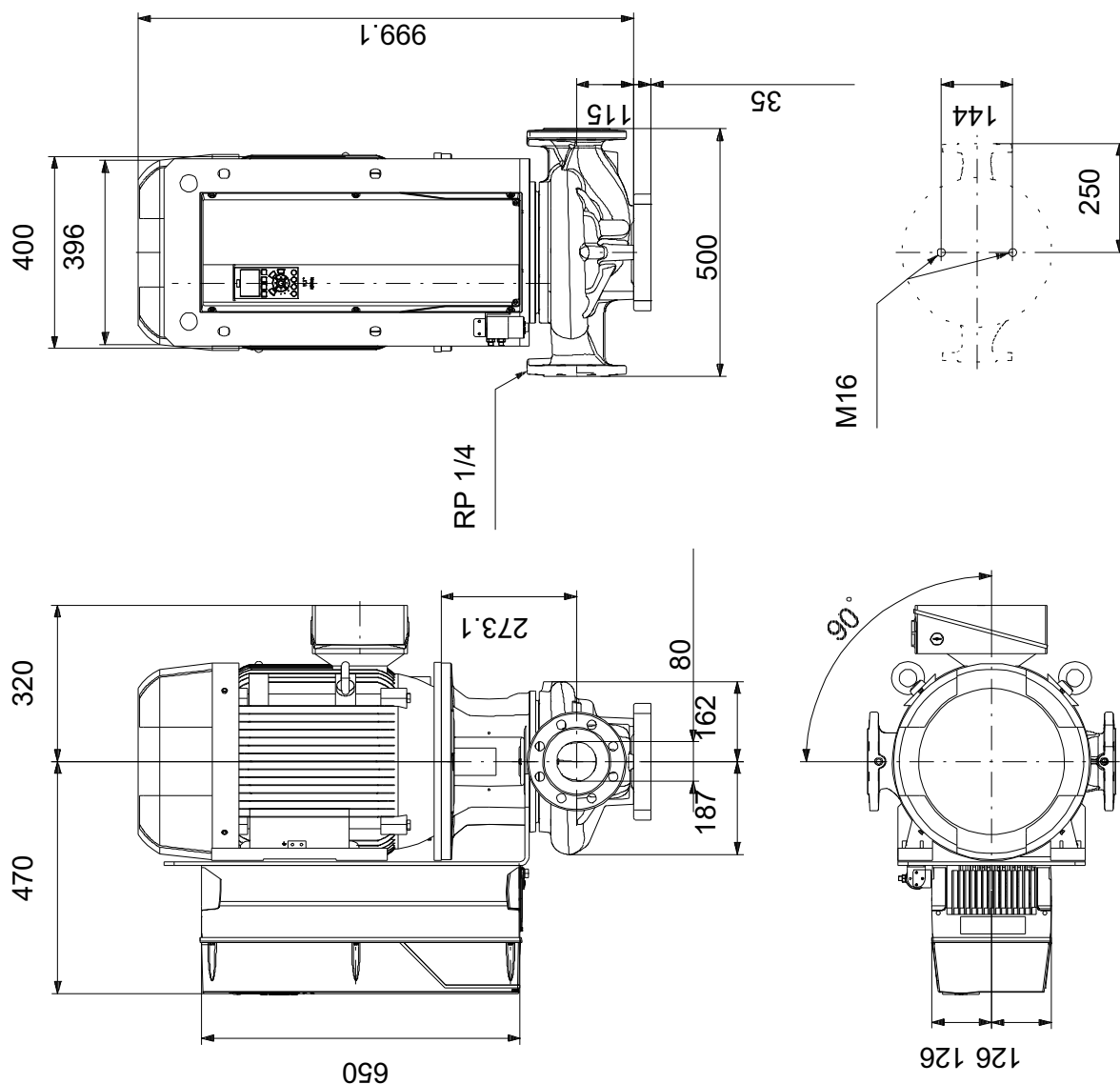


Description	Value
General information:	
Product name:	TPE 80-700/2 SC-A-F-A-BQQE-RX1
Product No:	99474585
EAN number:	5713829711280
Technical:	
Pump speed on which pump data are based:	2950 rpm
Rated flow:	132 m³/h
Rated head:	59.7 m
Maximum head:	700 dm
Actual impeller diameter:	219 mm
Code for shaft 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 80
Pressure rating for connection:	PN 16
Port-to-port length:	500 mm
Flange size for motor:	FF350
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:	30 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	56,0-51,0/32,0-29,5 A
Starting current:	660-660 %
Cos phi - power factor:	0.86
Rated speed:	2955 rpm
Efficiency:	IE3 93,3%
Motor efficiency at full load:	93.3-93.3 %
Motor efficiency at 3/4 load:	93.6-93.6 %
Motor efficiency at 1/2 load:	93.4-93.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	99454131
Controls:	
VFD product number:	99448799
Frequency converter:	Built-in
Type of frequency converter:	CUE 3X380-500V IP55 RUG 30KW
Appr. for VFD:	CE, CULUS, C-TICK
Others:	
Minimum efficiency index, MEI ≥:	0.70



Description	Value
Net weight:	353 kg
Gross weight:	496 kg
Shipping volume:	1.28 m³
Config. file no:	99465278
Country of origin:	HU
Custom tariff no.:	84137051

99474585 TPE 80-700/2 SC-A-F-A-BQQE-RX1 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 80-700/2, Product No. 99474585
Produced After 1339 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, Base plate			00485031	1	pcs
28g	Hex head screw				2	
56	Base plate				1	
-	Kit, capillary tubes			99184237	1	pcs
508	Tube				1	
509	Capillary tube.				1	
-	Kit, sensor			96611550	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			99208818	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			96809728	1	pcs
3	SMPS			96809397	1	pcs
-	Motor				1	pcs
153	Ball bearing			99423034	1	
156	Kit, fan			98062265	1	
151	Kit, fan cover			98062275	1	
164a	Kit, terminal box			98062262	1	
18	Plug			96620482	1	pcs
18	Plug			98164277	1	pcs
26	Staybolt	Length (mm): 45 Thread: M10		97512551	4	pcs
28	Hex head screw	Length (mm): 60 Thread: M16		97506949	4	pcs
36	Hex nut	Thread: M16		96620480	4	pcs
49	Impeller			96591296	1	pcs
-	Pump housing cpl.			98892155	1	pcs
36	Nut	Thread: M10		96620484	8	
56	Base plate			96590430	1	pcs
67	Nut	Thread: M14		92526531	1	pcs
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53		92547617	1	pcs
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53		97511825	1	pcs
72.a	O-ring	Diameter: 221,84 Material type: EPDM Thickness: 3,53		97757671	1	pcs
77a	Pan head screw			99266550	4	pcs
510	Mounting bush.			99079267	2	pcs