

20/08/2019

Qty. | Description

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TPE 40-80/2 A-F-A-BQQE



Note! Product picture may differ from actual product

Product No.: 98112571

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.

TPE 40-80/2 A-F-A-BQQEThe pump is fitted with an unbalanced rubber bellows seal. TPE 40-80/2 A-F-A-BQQETPE 40-80/2 A-F-A-BQQETPE 40-80/2 A-F-A-BQQEThe shaft seal is according to EN 12756. Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2).

Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2).

The pump is fitted with a fan-cooled, permanent-magnet synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

Further product details

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 the Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

Pump

Pump housing and pump head are electrocoated to improve the corrosion resistance.

Electrocoating includes:

1) Alkaline-based cleaning.

2) Pretreatment with zinc phosphate coating.



	Date	e: 20/08/2019
	Description	
	3) Cathodic electrocoating (epoxy).	
	4) Curing of paint film at 200-250 °C.	
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	3	
	1: Pump housing 2: Impeller	
	3: Shaft	
	4: Coupling	
	5: Pump head	
	The pump housing is provided with a replaceable stainles st	teel/PTFE neck ring to reduce the amount of liquid
	running from the discharge side of the impeller to the suction	n side. The impeller is secured with a split cone
	pressed onto the shaft.	
	The pump is fitted with an unbalanced rubber bellows seal v	vith torque transmission across the spring and arou
	the bellows. Due to the bellows, the seal does not wear the deposits on the shaft.	shaft, and the axial movement is not prevented by
	 Primary seal: Rotating seal ring material: silicon carbide (SiC) 	
	 Rotating seal ring material: silicon carbide (SiC) Stationary seat material: silicon carbide (SiC) 	
	This material pairing is used where higher corrosion resistar	ace is required. The high hardness of this material
	pairing offers good resistance against abrasive particles.	ice is required. The high hardness of this material
	Secondary seal material: EPDM (ethylene-propylene rubber	.)
	EPDM has excellent resistance to hot water. EPDM is not s	
		ensures lubrication and expline of the shoft and
	A circulation of liquid through the duct of the air vent screw of	
	The flanges have tappings for mounting of pressure gauges	·•
	The motor stool forms connection between the pump housir	a and the motor, and is equipped with a manual ai
	vent screw for venting of the pump housing and the shaft se	al chamber. The sealing between motor stool and
	pump housing is an O-ring or a flat gasket.	3
	The central part of the motor stool is provided with guards for	or protection against the shaft and coupling. Motor
	pump shaft are connected via a shell coupling.	
	Motor	not dimensions to ICO and DIN stars by the Electric
	The motor is a totally enclosed, fan-cooled motor with princi tolerances comply with IEC 60034.	pal dimensions to IEC and DIN standards. Electrica
	The motor is flange-mounted with tapped-hole flange (FT).	
	Motor-mounting designation in accordance with IEC 60034-	7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (C
	II).	,,
	The motor efficiency is classified as IE5 in accordance with	
1	The motor requires no external motor protection. The motor	control unit incorporates protection against slow- a
	quick-rising temperatures, e.g. constant overload and stalled	d conditions.
l	TPE 40-80/2 A-F-A-BQQEThe terminal box holds terminals	for these connections:
	one dedicated digital input	F \ (
	 two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3 	-5 V
	 5 V voltage supply to potentiometer and sensor 	



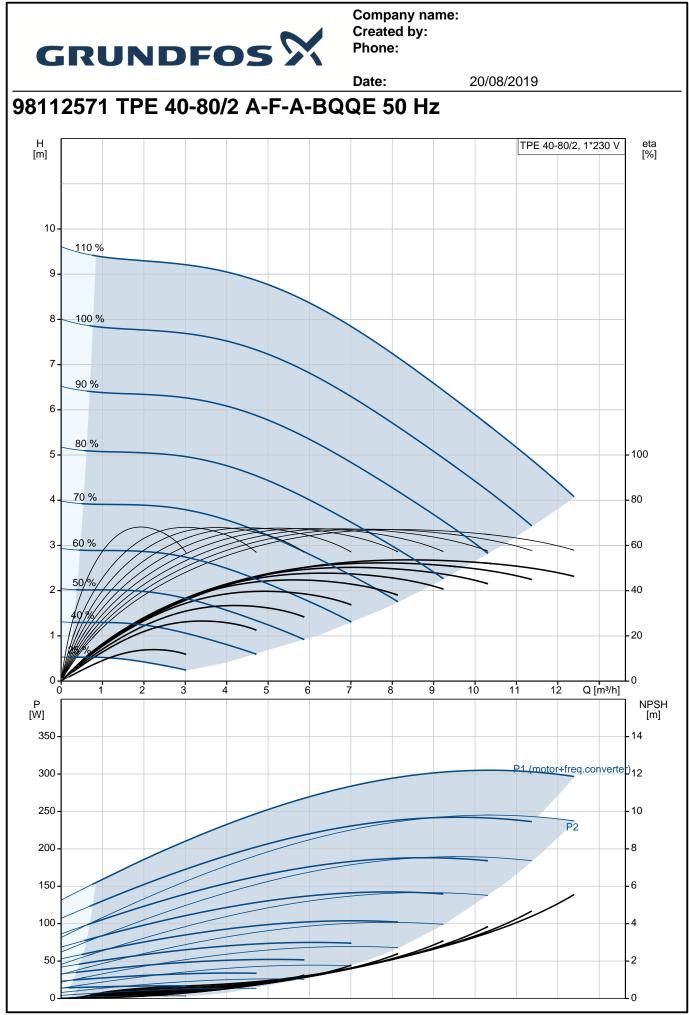
Company name:

GRUND		Created by: Phone:		
		Date:	20/08/2019	
y. Description				
 Grundfos Digital Se 24 V voltage supply two signal-relay out GENIbus connection 	outs (potential-free cor	ntacts)		
 5 V voltage supply t one configurable dig Grundfos Digital Se 24 V voltage supply two signal relay out the two power head 	Il input (4)-20 mA, 0-5 V, 0-10 o potentiometer and se jital input or open-colle nsor input and output) V, 0.5 - 3.5 V ensor ector output ntacts) eless GENIair or win		
Technical data				
Controls: Frequency converter:	Built-in			
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature Density at selected liquid te		/m³		
Technical: Pump speed on which pum Rated flow: Rated head: Actual impeller diameter: Primary shaft seal: Curve tolerance:	np data are based: 28 8.01 m³/h 5.49 m 79 mm BQQE ISO9906:2012 3			
Materials:				
Pump housing:	Cast iron EN-JL1030 ASTM A48-30 E	3		
Impeller:	Composite PES	/PP 30% GF		
Installation: Range of ambient tempera Maximum operating pressu Flange standard: Pipe connection: Pressure rating: Port-to-port length: Flange size for motor:				
Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current:	71A IE5 0.25 kW 50 Hz 1 x 200-240 V 1.75-1.50 A			



Company name: Created by:

	GRUNDF	osX	Phone:		
			Date:	20/08/2019	
Qty.	Description				
	Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No:	0.95 360-4000 rpm 81.1% 81.1 % IP55 F 98690315			
	Motor No: Others: Minimum efficiency index, MEI ErP status: Net weight: Gross weight: Shipping volume:		Irod.		



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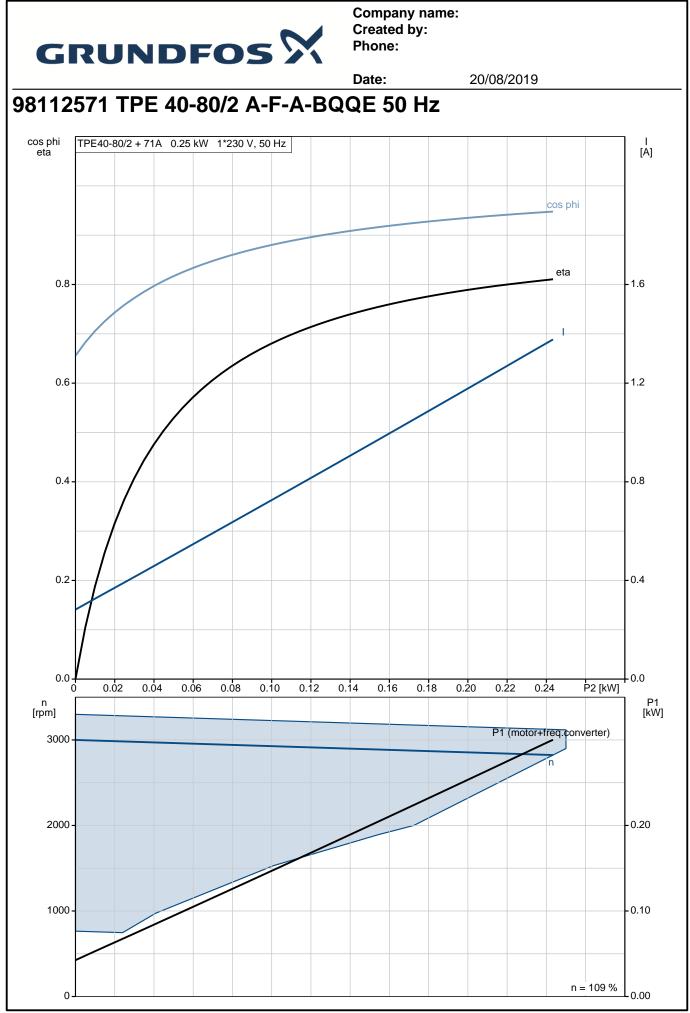


		Date:	20/08/2019
Description	Value	H [m]	TPE 40-80/2, 1*230 V [%]
General information:			
Product name:	TPE 40-80/2 A-F-A-BQQE	10 - 110 %	
Product No:	98112571	9-	
EAN number:	5710629214515	-	
	5710629214515	8 100 %	
Technical:		7 -	
Pump speed on which pump data are	2830 rpm	90 %	
based:	2030 Ipili	6 -	
Rated flow:	8.01 m³/h	5 - 80 %	
Rated head:	5.49 m		
Head max:	80 dm	4 - 70 %	
Actual impeller diameter:	79 mm	3 - 60 %	60
Primary shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B	2 - 50 %	40
Pump version:	Α		20
Model:	В		20
Materials:		0	
Pump housing:	Cast iron	0 2 P	4 6 8 10 Q [m³/h]
	EN-JL1030	ເພົ່າ	[m]
	ASTM A48-30 B	200	P1 (motor+freq.corverter)
Impeller:	Composite PES/PP 30% GF	300 - 250 -	10
Material code:	A	200 -	P2 8
Installation:			
Range of ambient temperature:	-20 50 °C	150 -	6
Maximum operating pressure:	10 bar	100 -	4
Flange standard:	DIN	50 -	2
Pipe connection:	DN 40	0	0
Pressure rating:	PN 6/10	ô,	
Port-to-port length:	250 mm	122	, 106 . 106 .
Flange size for motor:	FT85		
Connect code:	F		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C		
Density at selected liquid temperature:	998.2 kg/m³		
Electrical data:		75 75	⊢ • • • •
Motor type:	71A		
IE Efficiency class:	IE5		Ø
Rated power - P2:	0.25 kW		
Mains frequency:	50 Hz		
Rated voltage:	1 x 200-240 V		_ <u> </u>
Rated current:	1.75-1.50 A		
Cos phi - power factor:	0.95		
Rated speed:	360-4000 rpm		- ft
Efficiency:	81.1%	,	
Motor efficiency at full load:	81.1 %		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F	-38.V. 00-V.86.	
Motor protec:	YES	an the first the	
Motor No:	98690315	<u></u>	
Controls:			
Control panel:	HMI200 - Standard		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:	0.70	-	
Minimum efficiency index, MEI ≥:	0.70	**************************************	

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		Date:	20/08/2019	
Description	Value			
ErP status:	EuP Standalone/Prod.	_		
Net weight:	15.1 kg			
Gross weight:	17.1 kg			
Shipping volume:	0.045 m³			
Config. file no:	98478737			



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