

10/09/2021

Qty. Description TP 65-60/4 A-F-A-BQQE-EX3 1 Note! Product picture may differ from actual product Product No.: 98957994 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. Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled asynchronous motor. 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. Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. Pump 5 3 2 1 1: Pump housing 2: Impeller 3: Shaft 4: Coupling 5: Pump head The pump housing is provided with a replaceable stainless steel/PTFE neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side. The impeller is secured with a split cone with nut. The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft. Primary seal: Printed from Grundfos Product Centre [2021.23.003] 1/8



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Qty. | Description
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• Rotating seal ring material: silicon carbide (SiC)

• Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.

The flanges have tappings for mounting of pressure gauges.

The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring.

The central part of the motor stool is provided with guards for protection against the shaft and coupling. Motor and pump shaft are connected via a shell coupling.

## Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

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 (Code II).

The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

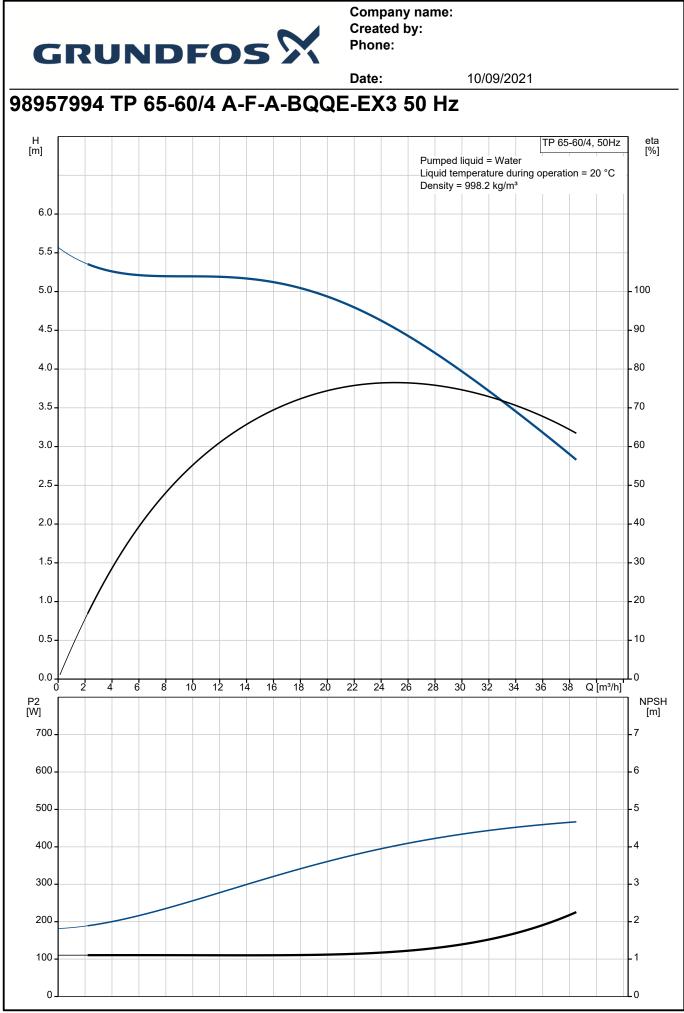
## Further product details

## Technical data

Controls: Frequency converter:	NONE
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump dat Rated flow: Rated head: Actual impeller diameter: Code for shaft seal: Curve tolerance:	a are based: 1420 rpm 25.1 m³/h 4.52 m 128 mm BQQE ISO9906:2012 3B2
Materials: Pump housing: Impeller:	Cast iron EN-GJL-250 ASTM class 35 Stainless steel EN 1.4301 AISI 304
Installation: Range of ambient temperature: Maximum operating pressure: Max pressure at stated temp:	-30 40 °C 10 bar 10 bar / 120 °C



Date:  10/09/2021    Description  IV    Type of connection:  DN 65    Pressure rating for connection:  PN 6/10    Port-to-port length:  340 mm    Flange size for motor:  FT100    Electrical data:	GRUNDFO	$\mathbf{DS}$	Phone:	
Type of connection:DINSize of connection:DN 65Pressure rating for connection:PN 6/10Port-to-port length:340 mmFlange size for motor:FT100Electrical data:Motor type:Motor type:80BRated power - P2:0.55 kWMains frequency:50 HzRated voltage:1 x 220-230 VRated outrent:4 AStarting current:260 %Cos phi - power factor:0.97Rated speed:1350-1370 rpmMotor efficiency at full load:66-64 %Number of poles:4Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 35):FMotor No:86215103Others:0.70Metwight:36.3 kgGross weight:41 kg			Date:	10/09/2021
Size of connection:DN 65Pressure rating for connection:PN 6/10Port-to-port length:340 mmFlange size for motor:FT100Electrical data:	-			
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Motor No: $86215103$ Others:	Enclosure class (IEC 34-5):	55 Dust/Jetting		
Motor No: $86215103$ Others:	Insulation class (IEC 85):	F		
Minimum efficiency index, MEI ≥:0.70Net weight:36.3 kgGross weight:41 kg	Motor No:	86215103		
Net weight:36.3 kgGross weight:41 kg	Others:			
Gross weight: 41 kg	Minimum efficiency index, MEI ≥	: 0.70		
Gross weight: 41 kg	Net weight:	36.3 kg		



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		Date:	10/09/2021	
Description	Value	H [m]		TP 65-60/4, 50Hz
General information:			Pumped liquid = Water Liquid temperature dur	
Product name:	TP 65-60/4 A-F-A-BQQE-EX3	6.0 -	Density = 998.2 kg/m <sup>3</sup>	ing operation – 20°C
Product No:	98957994	5.5 -		
EAN number:	5712604244616	5.0 -		
Fechnical:	57 12004244010	4.5		
Pump speed on which pump data are	4.400	4.5		
ased:	1420 rpm	4.0 -		
Rated flow:	25.1 m³/h	3.5 -		
Rated head:	4.52 m	3.0 -		
/laximum head:	60 dm			
Actual impeller diameter:	128 mm	2.5 -		
Code for shaft seal:	BQQE	2.0 -		
Curve tolerance:	ISO9906:2012 3B2	— /	/	
Pump version:	A	1.5		
Aterials:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.0		
	Cast iron	0.5		
Pump housing:		0.5 -		
Pump housing:	EN-GJL-250	0.0	10 15 20 25	30 35 Q [m³/h]
Pump housing:	ASTM class 35		10 10 20 25	ວບ ວວ ບ [mາ/n]
mpeller:	Stainless steel	P2 [W]		
mpeller:	EN 1.4301			
mpeller:	AISI 304	600 -		
Material code:	A	500 -		
nstallation:		400 -		
Range of ambient temperature:	-30 40 °C			
Maximum operating pressure:	10 bar	300 -		
Max pressure at stated temp:	10 bar / 120 °C	200 -		
Type of connection:	DIN	100		
Size of connection:	DN 65	0		
Pressure rating for connection:	PN 6/10	*		
Port-to-port length:	340 mm			
	FT100		120	
Flange size for motor:				
Connect code:	F			
Liquid:				
Pumped liquid:	Water			
iquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	65		
Electrical data:		122 100	340	
Motor type:	80B		M16	
Rated power - P2:	0.55 kW			
Mains frequency:	50 Hz			
Rated voltage:	1 x 220-230 V		in a start	
Rated current:	4 A		170	
Starting current:	260 %			
Cos phi - power factor:	0.97			
Rated speed:		AUX	<u>, , , , , , , , , , , , , , , , , , , </u>	
	1350-1370 rpm			
Motor efficiency at full load:	66-64 %	MAII		
Number of poles:	4	/ ····	■, i i I	
Enclosure class (IEC 34-5):	55 Dust/Jetting			
nsulation class (IEC 85):	F			
Built-in motor protection:	PTO			
Motor No:	86215103		∋ <u></u>	
Controls:				
Frequency converter:	NONE		j	
Others:				
Minimum efficiency index, MEI ≥:	0.70	—      ĔŽŸ	Ĵ'	
Net weight:	36.3 kg	-		
Gross weight:	41 kg		¥/	

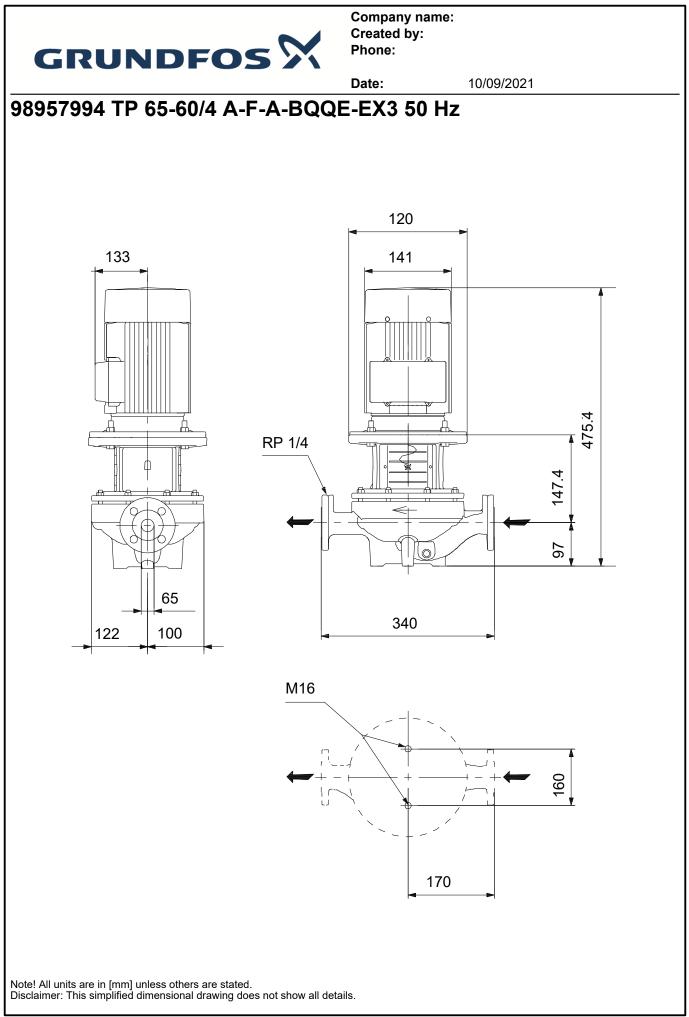
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Date:

10/09/2021

Description Shipping volume: Value 0.09 m<sup>3</sup>





10/09/2021

98957994 TP 65-60/4 A-F-A-BQQE-EX3 50 Hz

