

Date:

08/08/2022

TP 40-110/4 A-F-A-BQQE-FX3



Note! Product picture may differ from actual product

Product No.: 98743357

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.

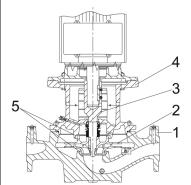
The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).

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



- 1: Pump housing
- 2: Impeller
- 3: Stub shaft
- 4: Pump head/motor stool
- 5: Wear rings

The pump housing is provided with a replaceable brass neck ring to reduce the amount of liquid running from the outlet side of the impeller to the inlet side.

The impeller is secured to the shaft with a 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.

Seal faces:

- 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.



Description

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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. The pump shaft is fastened directly on the motor shaft with key and set screws.

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 free-hole flange (FF). Motor-mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (Code II).

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1. The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (11/1).

Further product details

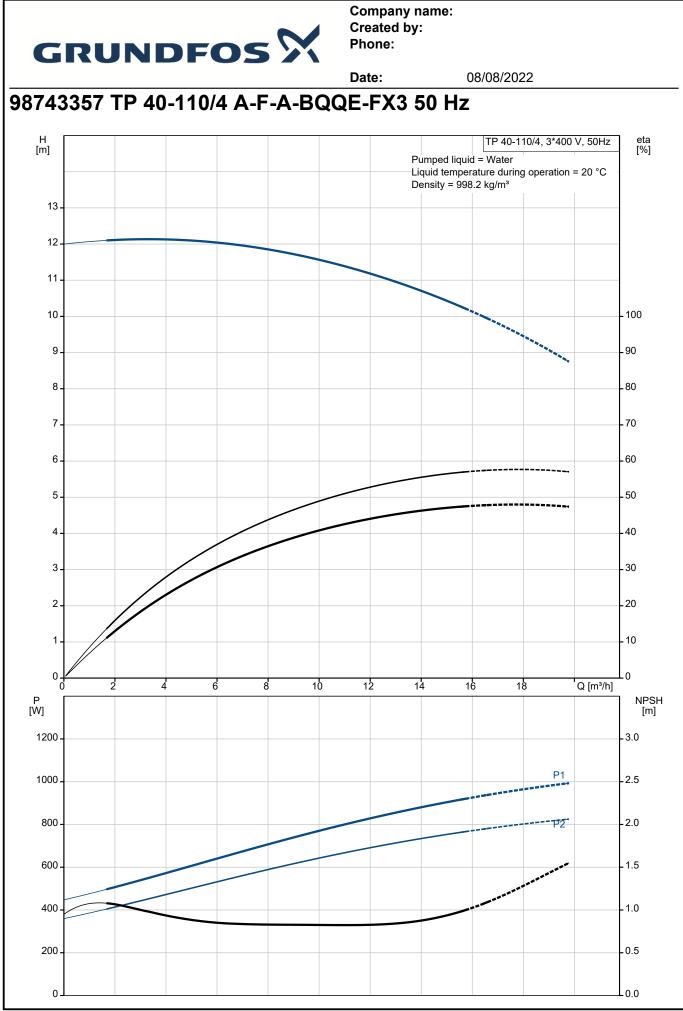
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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 data Rated flow: Rated head: Actual impeller diameter: Code for shaft seal: Curve tolerance:	are based: 1410 rpm 17 m³/h 8.93 m 190 mm BQQE ISO9906:2012 3B2
Materials: Pump housing: Impeller:	Cast iron EN-GJL-250 ASTM class 35 Cast iron EN-GJL-200 ASTM class 30
Installation: Range of ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	-20 55 °C 16 bar 16 bar / 120 °C DIN



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.	Description		
	Size of connection: Pressure rating for connection: Port-to-port length: Flange size for motor:	DN 40 PN 16 440 mm FF165	
	Flange size for motor.	FF 105	
	Electrical data: Motor type:	SIEMENS	
	IE Efficiency class: Rated power - P2: Mains frequency:	IE3 0.75 kW 50 Hz	
	Rated voltage:	3 x 220-240D/380-420Y V	
	Rated current: Starting current:	3.05/1.75 A 710-710 %	
	Cos phi - power factor: Rated speed:	0.75 1450 rpm	
	Efficiency: Motor efficiency at full load:	IE3 82,5% 82.5-82.5 %	
	Motor efficiency at 3/4 load: Motor efficiency at 1/2 load:	82.3-82.3 % 79.3-79.3 %	
	Number of poles: Enclosure class (IEC 34-5):	4 IP55	
	Insulation class (IEC 85): Motor No:	F 83V02204	
	Others:		
	Minimum efficiency index, MEI ≥ Net weight:	: 0.70 53 kg	
	Gross weight: Shipping volume:	65 kg 0.217 m³	
	Danish VVS No.: Finnish LVI No.:	381712110 4616031	
	Norwegian NRF no.: Country of origin:	9043549 HU	
	Custom tariff no.:	84137051	



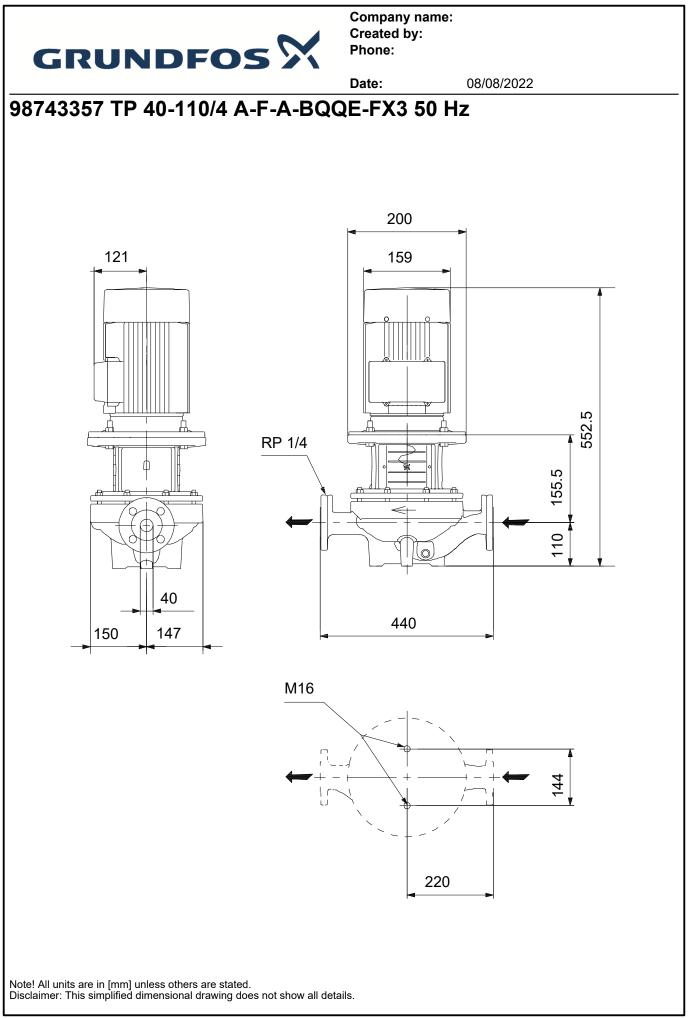
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		Н			10 44011	100 11	z
Description	Value	[m]	Pumper	l liquid = Wat	40-110/4, 3*4	400 V, 50H	z
General information:		13	Liquid te	emperature d	uring operati	ion = 20 °C	;
Product name:	TP 40-110/4 A-F-A-BQQE-FX3	12	Density	= 998.2 kg/n	1 ³		
Product No:	98743357						
EAN number:	5712600820685	11 -					
Technical:		10					10
Pump speed on which pump data are based:	1410 rpm	9 -				**************************************	- 90
Rated flow:	17 m³/h	8 -					- 80
Rated head:	8.93 m	7					70
Maximum head:	110 dm						
Actual impeller diameter:	190 mm	6 -					- 60
Code for shaft seal:	BQQE	5 _					- 50
Curve tolerance:	ISO9906:2012 3B2	4					40
Pump version:	A	4-					- +0
Materials:		3 -					- 30
Pump housing:	Cast iron	2 -					20
Pump housing:	EN-GJL-250						
Pump housing:	ASTM class 35	1-					
Impeller:	Cast iron	٥ ۲	4 6 8	10 12	14 16		
Impeller:	EN-GJL-200	0 2 P	4 6 8	10 12	14 16	Q [m³/	'h]
	ASTM class 30	ເທົ່ງ					
Impeller:		-					
Material code:	Α	1000 -				P1	2.
Installation:							
Range of ambient temperature:	-20 55 °C	800 -				12	- 2.0
Maximum operating pressure:	16 bar	600 -				_	1.
Max pressure at stated temp:	16 bar / 120 °C						···
Type of connection:	DIN	400-	\leq			-	
Size of connection:	DN 40	200 -					0.
Pressure rating for connection:	PN 16	200-					– – 0.,
Port-to-port length:	440 mm	0					0.0
Flange size for motor:	FF165						
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:	0.75 kW						
Mains frequency:	50 Hz						
Rated voltage:	3 x 220-240D/380-420Y V						
Rated current:	3.05/1.75 A						
Starting current:	710-710 %						
Cos phi - power factor:	0.75						
Rated speed:	1450 rpm						
Efficiency:	IE3 82,5%						
Motor efficiency at full load:	82.5-82.5 %						
Motor efficiency at 3/4 load:	82.3-82.3 %						
Motor efficiency at 1/2 load:	79.3-79.3 %						
Number of poles:	4						
Enclosure class (IEC 34-5):	IP55						
Insulation class (IEC 85):	F						
Built-in motor protection:	NONE						
Motor No:	83V02204						
Controls:	50 ¥ 02207						



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		Date:	08/08/2022
Description	Value		
Frequency converter:	NONE		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	53 kg		
Gross weight:	65 kg		
Shipping volume:	0.217 m³		
Danish VVS No.:	381712110		
Finnish LVI No.:	4616031		
Norwegian NRF no.:	9043549		
Country of origin:	HU		
Custom tariff no.:	84137051		





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98743357 TP 40-110/4 A-F-A-BQQE-FX3 50 Hz

