

08/08/2022

Qty. | Description

1

TPD 40-140/4 A-F-A-BQQE-GX3



Note! Product picture may differ from actual product

Product No.: 98760138

Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads.

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.

Each power head is fitted with an unbalanced rubber bellows seal.

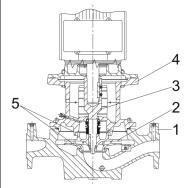
The shaft seal is according to EN 12756. Pipework connection is via PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).

Each power head is fitted with a fan-cooled asynchronous motor of indentical size.

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 twin-head pump is designed with two parallel power-heads. A non-return flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head.

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)



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• Stationary seat material: silicon carbide (SiC)

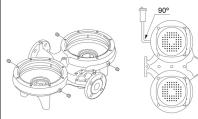
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Date:

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 pump housing has four Rp 1/8 tappings for mounting of automatic air vents. Fit an air vent to the upper pump housing if the twin-head pump is to be installed in a horizontal pipeline with horizontal pump shaft.



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 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

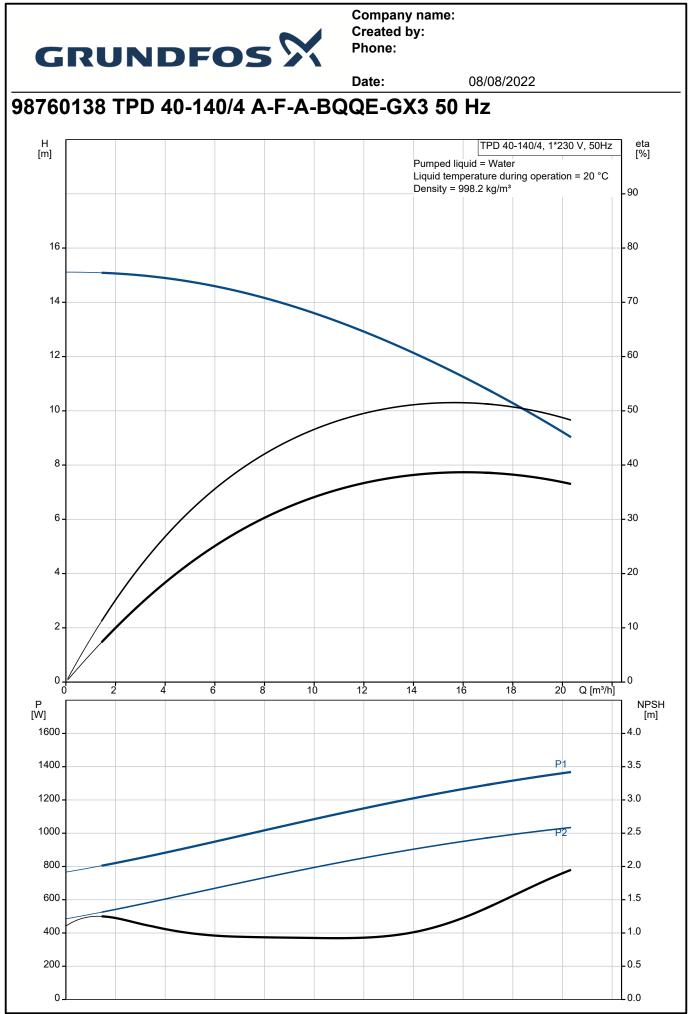
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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: 1440 rpm 15.7 m³/h 11.4 m 212 mm BQQE ISO9906:2012 3B2



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		Date:	08/08/2022	
Description				
Materials: Pump housing:	Cast iron EN-GJL-250 ASTM class 35			
Impeller:	Cast iron EN-GJL-200 ASTM class 30			
Installation:				
Range of ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	-30 40 °C 16 bar 16 bar / 120 °C DIN			
Size of connection: Pressure rating for connection: Port-to-port length: Flange size for motor:	DN 40			
Fiange size for motor.	FF 105			
Electrical data:				
Motor type: Rated power - P2:	90LB 1.1 kW			
Mains frequency:	50 Hz			
Rated voltage:	1 x 220-230 V			
Rated current:	7 A			
Starting current:	390 %			
Cos phi - power factor:	0.96			
Rated speed:	1420-1430 rpm			
Motor efficiency at full load:	75-76 %			
Number of poles: Enclosure class (IEC 34-5):	4 55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor No:	87200343			
Others:				
Minimum efficiency index, MEI				
Net weight:	120 kg			
Gross weight:	138 kg			
Shipping volume:	0.39 m³			
Country of origin: Custom tariff no.:	HU 84137065			
	64137003			





		Date:	08/08/2022	
Description	Value	H [m]	TPD 40-140/4, 1*230 V, 5	50Hz
General information:			Pumped liquid = Water Liquid temperature during operation = 20	o°C
Product name:	TPD 40-140/4 A-F-A-BQQE-GX3		Density = 998.2 kg/m ³	
Product No:	98760138	16 -		
EAN number:	5712600991231			
Technical:		14		
Pump speed on which pump data are based:	1440 rpm	12 -		
Rated flow:	15.7 m³/h			
Rated head:	11.4 m	10 -		-
Maximum head:	140 dm			
Actual impeller diameter:	212 mm	8-		
Code for shaft seal:	BQQE			
Curve tolerance:	ISO9906:2012 3B2	6 -		
Pump version:	Α			
Materials:		4/		
Pump housing:	Cast iron			
Pump housing:	EN-GJL-250	2		
Pump housing:	ASTM class 35			
Impeller:	Cast iron	0 //	5 10 15 Q	[m³/h]
Impeller:	EN-GJL-200	P [W]		
Impeller:	ASTM class 30	[vv]		
Material code:	Α	1400 -	P1	
Installation:		1200 -		
Range of ambient temperature:	-30 40 °C	1000 -		-
Maximum operating pressure:	16 bar		P2	
Max pressure at stated temp:	16 bar / 120 °C	800 -		-
Type of connection:	DIN	600 -		
Size of connection:	DN 40	400		
Pressure rating for connection:	PN 16	200 -		
Port-to-port length:	440 mm	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/m ³			
Electrical data:	J			
Motor type:	90LB			
Rated power - P2:	1.1 kW			
Mains frequency:	50 Hz			
Rated voltage:	1 x 220-230 V			
Rated current:	7 A			
Starting current:	390 %			
Cos phi - power factor:	0.96			
Rated speed:	1420-1430 rpm			
Motor efficiency at full load:	75-76 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Built-in motor protection:	PTO			
Motor No:	87200343			
Controls:	01200070			
Frequency converter:	NONE			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
-				
-	-			
Net weight: Gross weight:	120 kg 138 kg			

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eta [%]

90

- 80

- 70

- 60

- 50

- 40

- 30

20

- 10

Lo

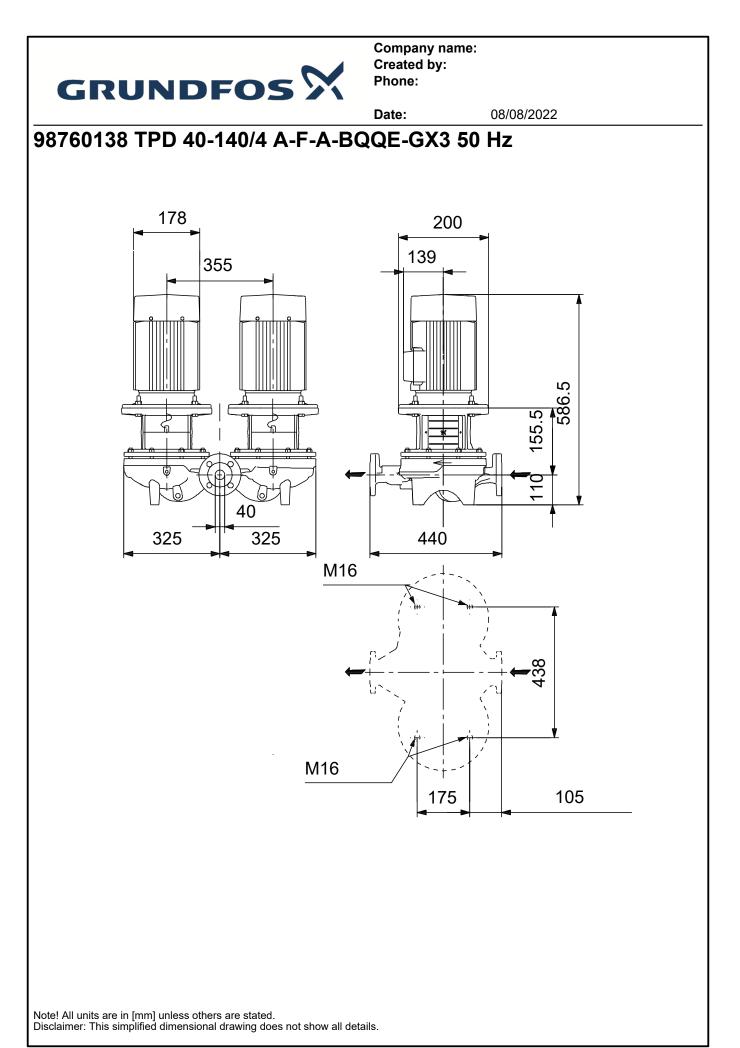
- 3.5 - 3.0 - 2.5

- 2.0 1.5 - 1.0 0.5 $L_{0.0}$

NPSH [m]



DescriptionValueShipping volume:0.39 m³Country of origin:HUCustom tariff no.:84137065





Date: 08/08/2022 98760138 TPD 40-140/4 A-F-A-BQQE-GX3 50 Hz

