

	Date: 15/06/2022
'.	Description
	TPD 40-530/2 A-F-A-BQQE-MX1
	Freduct No.: 98743245
	Product No.: 98743245
	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
	 Pump housing Impeller Stub shaft Pump head/motor stool Wear rings The twin-head pump is designed with two parallel power-heads. A non-return flap value in the common discharge port is generated by the flags of the number of liquid and prevents head flags of liquid into the idle number head.
	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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Qty. | Description

• Stationary seat material: silicon carbide (SiC)

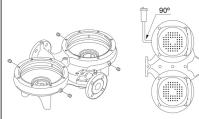
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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 efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Further product details

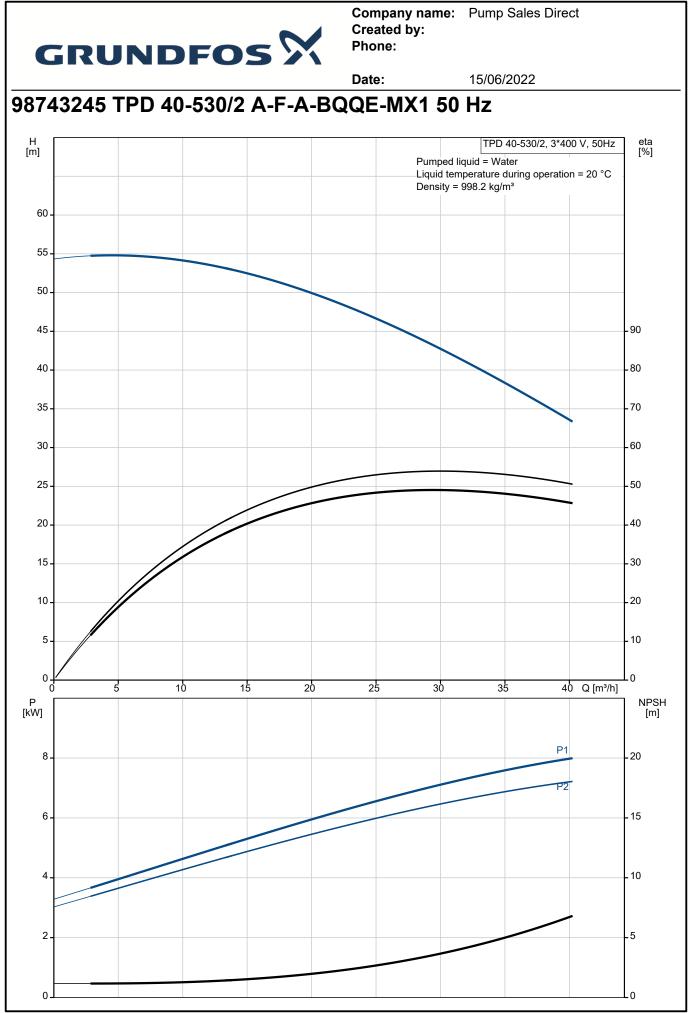
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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:	are based: 30.9 m³/h 41.2 m	2930 rpm



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ļ	Description			
	Actual impeller diameter:	202 mm		
	Code for shaft seal:	BQQE		
	Curve tolerance:	ISO9906:2012 3B2		
	Materials:			
	Pump housing:	Cast iron		
l		EN-GJL-250		
		ASTM class 35		
	Impeller:	Cast iron		
		EN-GJL-200		
		ASTM class 30		
	Installation:			
	Range of ambient temperature:	-30 60 °C		
	Maximum operating pressure:	16 bar		
	Max pressure at stated temp:	16 bar / 120 °C		
	Type of connection:	DIN		
	Size of connection:	DN 40		
	Pressure rating for connection:	PN 16		
	Port-to-port length:	440 mm		
	Flange size for motor:	FF265		
	Electrical data:			
L	Motor type:	132SB		
	IE Efficiency class:	IE3		
	Rated power - P2:	7.5 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 380-415D/660-690	ΥV	
	Rated current:	14,4-14,0/8,30-8,10 A	i v	
	Starting current:	780-910 %		
	Cos phi - power factor:	0.88-0.86		
	Rated speed:	2910-2920 rpm		
	Efficiency:	IE3 90,1% - IE3 90,4%		
	Motor efficiency at full load:	90.1-90.4 %		
	Motor efficiency at 3/4 load:	90.8 %		
	Motor efficiency at 1/2 load:	90.8 %		
	Number of poles:	2		
	Enclosure class (IEC 34-5):	55 Dust/Jetting		
	Insulation class (IEC 85):	F		
	Motor No:	87370232		
	Others:			
	Minimum efficiency index, MEI ≥:	0.70		
	Net weight:	200 kg		
	Gross weight:	219 kg		
	Shipping volume:	0.457 m ³		



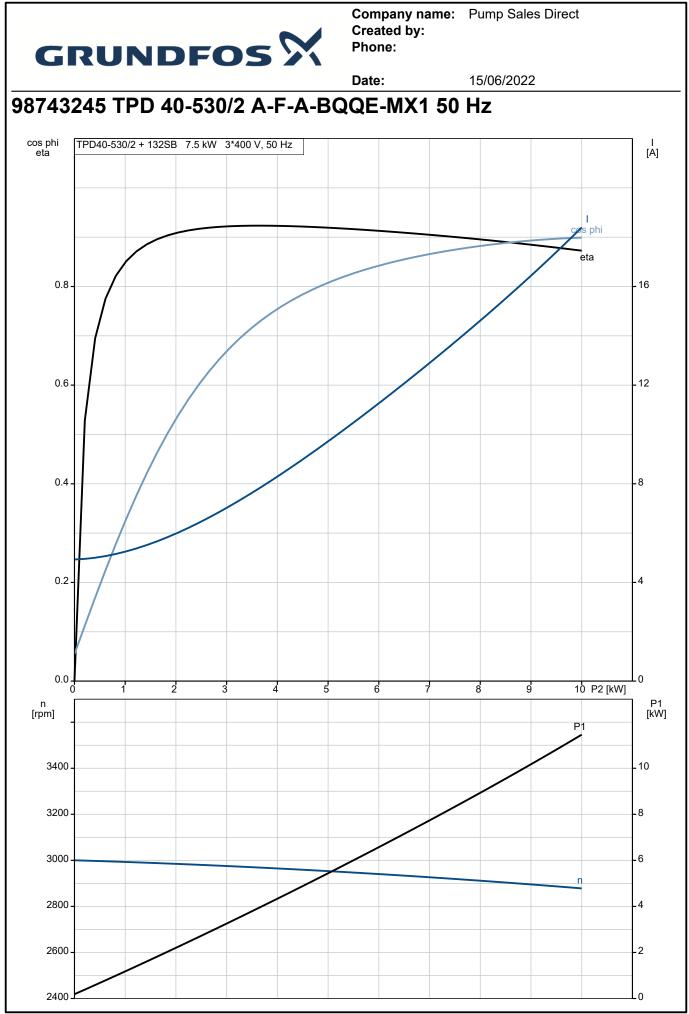


		н	TPD 40-530/2, 3*400 V, 50Hz	eta
Description	Value	[m]		[%]
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	TPD 40-530/2 A-F-A-BQQE-MX1	60 -	Density = 998.2 kg/m ³	
Product No:	98743245			
EAN number:	5712600819665	50 -		
Technical:		45		- 90
Pump speed on which pump data are based:	2930 rpm	40 -		- 80
Rated flow:	30.9 m³/h	35 -		- 70
Rated head:	41.2 m	30 -		- 60
Maximum head:	530 dm			
Actual impeller diameter:	202 mm	25 -		- 50
Code for shaft seal:	BQQE	20 -		- 40
Curve tolerance:	ISO9906:2012 3B2	15		- 30
Pump version:	A			
Materials:		10		- 20
Pump housing:	Cast iron	5		- 10
Pump housing:	EN-GJL-250	0		_0
Pump housing:	ASTM class 35	0 5	10 15 20 25 30 35 Q [m³/h]	-
Impeller:	Cast iron	P [kW]		NPSH [m]
Impeller:	EN-GJL-200	8	P1	_ 20
Impeller:	ASTM class 30	~ ~ 1		- 20
Material code:	A	6 -	P2	- 15
Installation:		Ť		10
Range of ambient temperature:	-30 60 °C	4		- 10
Maximum operating pressure:	16 bar			_ 10
Max pressure at stated temp:	16 bar / 120 °C	2		- 5
Type of connection:	DIN	_		_ 0
Size of connection:	DN 40	0		Lo
Pressure rating for connection:	PN 16	h		
Port-to-port length:	440 mm	260	300	
Flange size for motor:	FF265	355	159	
Connect code:	F			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m ³	325 32	25 440	
Electrical data:			M16	
Motor type:	132SB			
IE Efficiency class:	IE3			
Rated power - P2:	7.5 kW			
Mains frequency:	50 Hz		M16	
Rated voltage:	3 x 380-415D/660-690Y V		175 105	
Rated current:	14,4-14,0/8,30-8,10 A	-		
Starting current:	780-910 %		~	
Cos phi - power factor:	0.88-0.86	-	Ť	
Rated speed:	2910-2920 rpm			
Efficiency:	IE3 90,1% - IE3 90,4%	- ₿** ■ ₿**	· ■ ₽·· ■	
Motor efficiency at full load:	90.1-90.4 %			
Motor efficiency at 3/4 load:	90.8 %			
Motor efficiency at 1/2 load:	90.8 %	TO AMPLIFIER RELAY		
Number of poles:	2	-		
Enclosure class (IEC 34-5):	2 55 Dust/Jetting			
Insulation class (IEC 85):	F	k∏+⊤ 1 k∏+⊺		
Built-in motor protection:	PTC			
Motor No:	87370232			
Controls:	01310232			
Frequency converter:	NONE	RELAY L1		

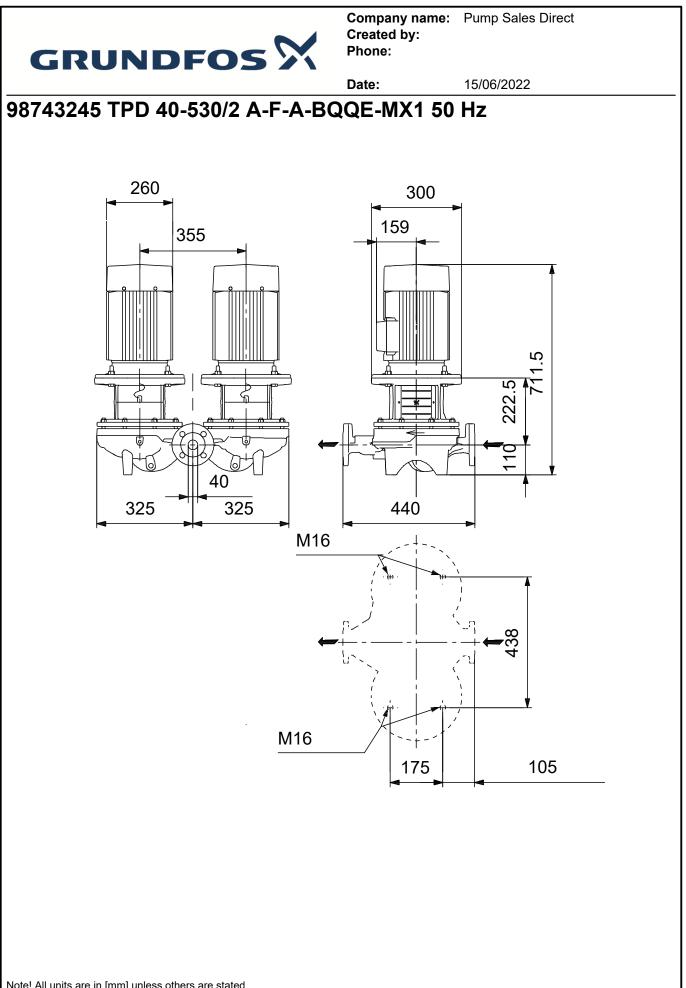
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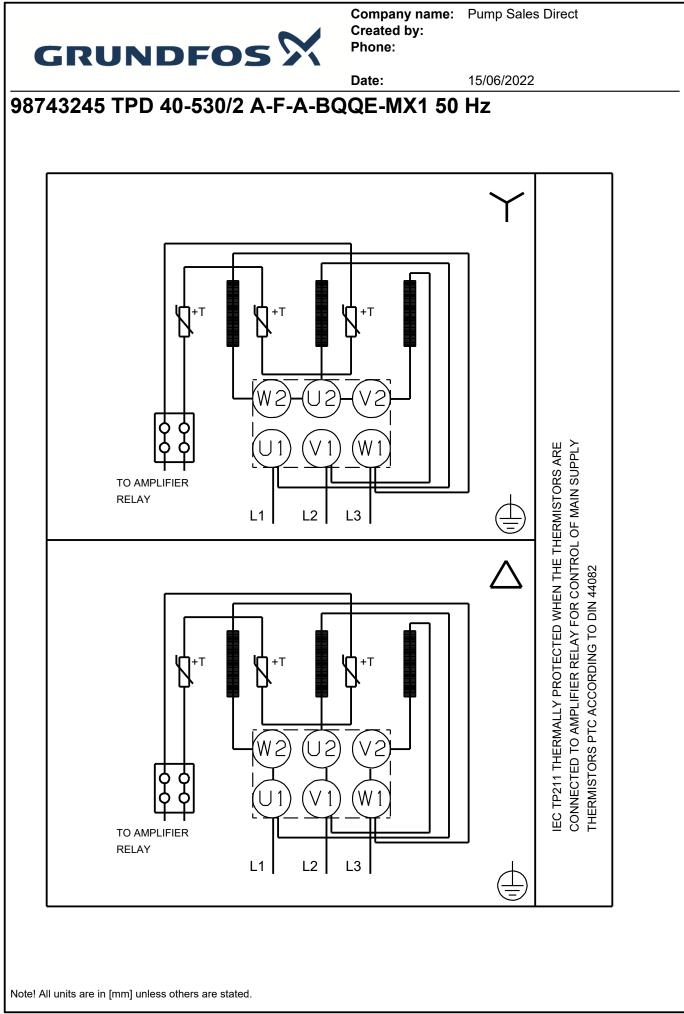
		Date:	15/06/2022
Description	Value		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	200 kg		
Gross weight:	219 kg		
Shipping volume:	0.457 m³		



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Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.





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Order Data:

Product name: TPD 40-530/2 Amount: 1 Product No: 98743245

Total: Price on request