

GRUNDFUS		
	Date:	15/06/2022
Description TPD 100-70/4 A-F-A-BQQE-HX3		
	te! Product picture may differ fron	n actual product
Product No.: 96384316		
Single-stage, close-coupled, volute twir twin-head pump is designed with two p	n-head pump with in-line suc arallel power-heads.	tion and discharge ports of identical diameter. The
The pump is of the top-pull-out design, maintenance or service while the pump	i.e. the power head (motor, p housing remains in the pipe	pump head and impeller) can be removed for work.
Each power head is fitted with an unba	lanced rubber bellows seal.	
The shaft seal is according to EN 1275	6. Pipework connection is via	a PN 16 DIN flanges (EN 1092-2 and ISO 7005-2).
Each power head is fitted with a fan-co The product's minimum efficiency index considered as an indicative benchmark 2013.	(MEI) is greater or equal to	indentical size. 0.70. This is by the Commission Regulation (EU) ump available on the market as from 1 January
Cast-iron parts have an epoxy-based c high-quality dip-painting process where a thin, well-controlled layer on the surfa	an electrical field around the	ectro-deposition (CED) process. CED is a e products ensures deposition of paint particles as
Pump		
1: Pump housing 2: Impeller 3: Stub shaft 4: Pump head/motor stool 5: Wear rings		
The twin-head pump is designed with this opened by the flow of the pumped liq. The pump housing is provided with a re-	uid and prevents backflow o eplaceable brass neck ring to	non-return flap valve in the common discharge port if liquid into the idle pump head. o reduce the amount of liquid running from the
outlet side of the impeller to the inlet sid The impeller is secured to the shaft with		
The pump is fitted with an unbalanced	rubber bellows seal with torg	ue transmission across the spring and around the he axial movement is not prevented by deposits
Seal faces:Rotating seal ring material: silico	on carbide (SiC)	



15/06/2022

Qty. | Description

• Stationary seat material: silicon carbide (SiC)

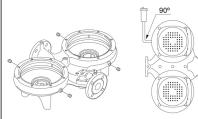
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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 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

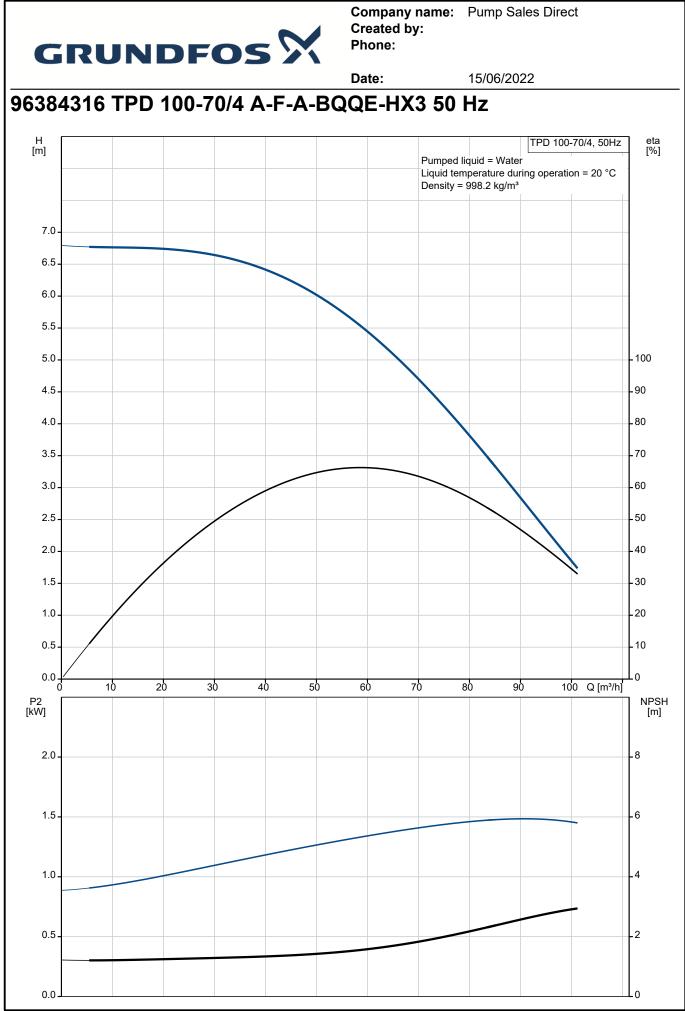
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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: 1445 rpm 58 m³/h 5.4 m 150 mm BQQE ISO9906:2012 3B2



DescriptionMaterials:Pump housing:Cast iron EN-GJL-250 ASTM class 35Impeller:Cast iron EN-GJL-200 ASTM class 30Installation:Range of ambient temperature: Maximum operating pressure:-30 40 °C 16 barMaximum operating pressure: Max pressure at stated temp:-30 40 °C 16 bar / 120 °CType of connection: DIN Size of connection:DIN DN 100 Pressure rating for connection: PN 16 Port-to-port length: FF 165Electrical data: Motor type:90LC 90LC Rated power - P2: 1.5 kW Mains frequency: Stating current: 400 % Cos phi - power factor:Stating current: Ated speed: Number of poles: Enclosure class (IEC 34-5): Sto Dust/Jetting Insulation class (IEC 34-5):Description Head All Head All All PolesPure of class (IEC 34-5): Att and the polesPure of poles: Att and the poles:Pure of poles:	
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Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):F	
Insulation class (IEC 85): F	
Motor No: 87200344	
Others:	
Minimum efficiency index, MEI ≥: 0.70	
Net weight: 192 kg	
Gross weight: 213 kg	
Shipping volume: 0.518 m ³	



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		Date:	15/06/2022	-
Description	Value	H [m]	TPD 100-70/4, 50Hz	eta [%]
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	TPD 100-70/4 A-F-A-BQQE-HX3	7.0 -	Density = 998.2 kg/m ³	_
Product No:	96384316	6.5 -		_
EAN number:	5700832153312	6.0 -		_
Fechnical:		5.5 -		_
Pump speed on which pump data are based:	1445 rpm	5.0 -		- 100 - 90
Rated flow:	58 m³/h			
Rated head:	5.4 m	4.0		- 80
Maximum head:	70 dm	3.5 -		70
Actual impeller diameter:	150 mm	3.0 -		- 60
Code for shaft seal:	BQQE	2.5 -		- 50
Curve tolerance:	ISO9906:2012 3B2	2.0		40
Pump version:	A	1.5		- 30
Materials:		1.0		20
Pump housing:	Cast iron	0.5		10
Pump housing:	EN-GJL-250	0.0		
Pump housing:	ASTM class 35	Ö	20 40 60 80 Q [m³/h]	_ 0
Impeller:	Cast iron	P2 [kW]		NPSH [m]
Impeller:	EN-GJL-200	2.0		- 8
Impeller:	ASTM class 30	2.0 -		F °
Material code:	A	1.5 -		- 6
Installation:		1.5		T°
Range of ambient temperature:	-30 40 °C	1.0		4
Maximum operating pressure:	16 bar	1.0		- 4
Max pressure at stated temp:	16 bar / 120 °C	0.5		_2
Type of connection:	DIN	0.0		- 2
Size of connection:	DN 100	0.0		
Pressure rating for connection:	PN 16	0.0 -		
Port-to-port length:	550 mm	178	200	
Flange size for motor:	FF165	500		
Connect code:	F			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m ³	414 395	550	
Electrical data:			M16	
Motor type:	90LC			
Rated power - P2:	1.5 kW			
Mains frequency:	50 Hz			
Rated voltage:	1 x 220-230 V		M16	
Rated current:	9.9 A		230 110	
Starting current:	400 %			
Cos phimpower factor:	0.97	A		
Rated speed:	1390-1400 rpm		OF ROTATION	
Motor efficiency at full load:	74-73 %	BLUE		
Number of poles:	4		8-1	
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Built-in motor protection:	PTO	BLACK		
Motor No:	87200344		OF ROTATION	
Controls:	51200077	BLUE		
Frequency converter:	NONE	YELLOW		
Others:			8-]	
Minimum efficiency index, MEI ≥:	0.70	WWW ANA		
Net weight:	192 kg	BROWN		
Gross weight:	213 kg	BLACK		

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Scale: 1:1 . Replaced: Replaced by: Drawing No: Page:

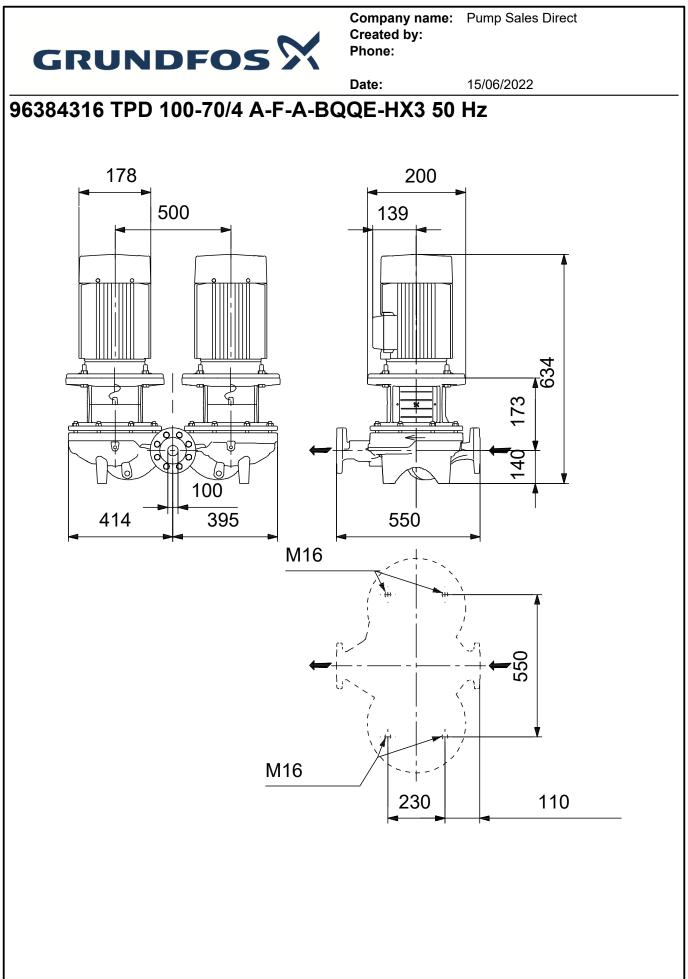


Description Shipping volume: Value

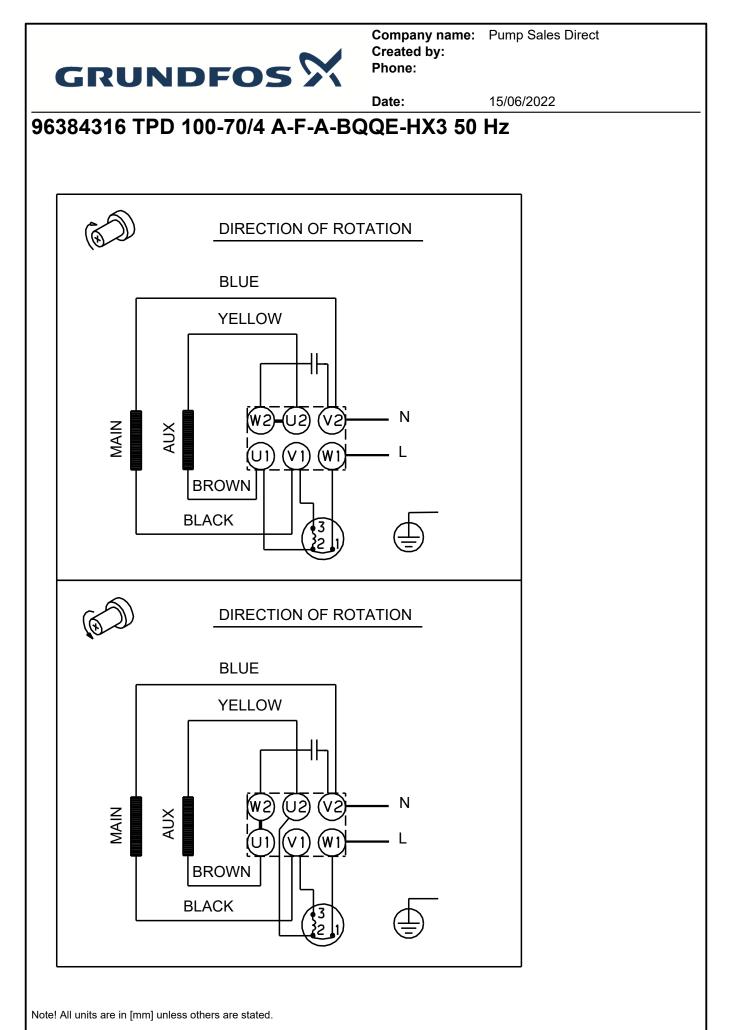
Date:

15/06/2022

0.518 m³



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





15/06/2022

Order Data:

Product name: TPD 100-70/4 Amount: 1 Product No: 96384316

Total: Price on request