

Qty.

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Company name: Created by: Phone:

Date: 16/06/2022 Description TPD 125-190/4 A-F-A-BQQE-NX3 Note! Product picture may differ from actual product Product No.: On request 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)

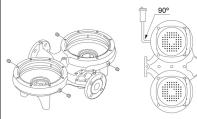
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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.

The pump is mounted with a base plate.

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 temperature range: Selected liquid temperature:	Water -25 120 °C 20 °C 998.2 kg/m³	
Technical: Pump speed on which pump data Rated flow:	are based: 143 m³/h	1470 rpm



		U	ate:	16/06/2022	
	Description				
	Rated head:	16 m			
	Actual impeller diameter:	240 mm			
	Code for shaft seal:	BQQE			
	Curve tolerance:	ISO9906:2012 3B			
	Materials:				
l	Pump housing:	Cast iron			
l	1 5	EN-GJL-250			
l		ASTM class 35			
l	Impeller:	Cast iron			
l		EN-GJL-200			
		ASTM class 30			
	Installation:				
	Range of ambient temperature:	-20 55 °C			
	Maximum operating pressure:	16 bar			
l	Max pressure at stated temp:	16 bar / 120 °C			
l	Type of connection:	DIN			
	Size of connection:	DN 125			
	Pressure rating for connection:	PN 16			
	Port-to-port length:	800 mm			
	Flange size for motor:	FF300			
	Electrical data:				
	Motor type:	SIEMENS			
	IE Efficiency class:	IE3			
	Rated power - P2:	11 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-420D/660-725Y	V		
	Rated current:	20.5/12 A			
	Starting current:	680-680 %			
	Cos phi - power factor:	0.84			
	Rated speed:	1475 rpm			
	Efficiency:	IE3 91,4%			
	Motor efficiency at full load:	91.4-91.4 %			
	Motor efficiency at 3/4 load:	91.9-91.9 %			
	Motor efficiency at 1/2 load:	91.4-91.4 %			
	Number of poles:	4			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	99032129			
	Others: Minimum efficiency index, MEI ≥:	: 0.70			
	Net weight:	528 kg			
	Gross weight:				
l		591 kg			
	Shipping volume:	1.87 m³			
	Country of origin:	HU			
	Custom tariff no.:	84137065			
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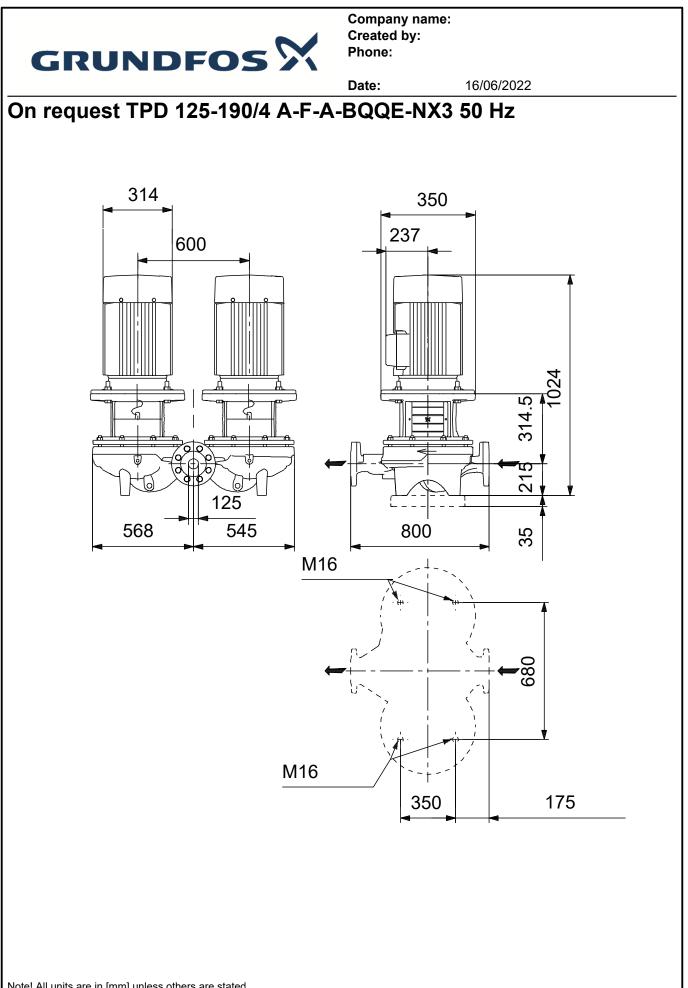


		Date:	16/06/2022	
Description	Value	H [m]	TPD 125-190/4, 3*400 V, 50Hz	eta [%]
General information:	Taido		Pumped liquid = Water	
Product name:	TPD 125-190/4 A-F-A-BQQE-NX3	22 -	Liquid temperature during operation = 20 °C Density = 998.2 kg/m ³	
Product No:	On request	20 -		
EAN number:	On request	- 10		
Technical:	Onrequest	18 -		
Pump speed on which pump data are based:	1470 rpm	16 -		
Rated flow:	143 m³/h	14		
Rated head:	16 m	12		
Maximum head:	190 dm	10 -		00
Actual impeller diameter:	240 mm		· · · · · · · · · · · · · · · · ·	00
Code for shaft seal:	BQQE	8 -	- 8	0
Curve tolerance:	ISO9906:2012 3B	6 -	6	0
Pump version:	A			
Materials:	~	4-	4	-0
Pump housing:	Cast iron	2		0
Pump housing:	EN-GJL-250	/		
Pump housing:	ASTM class 35	0	50 100 150 Q [m³/h])
Impeller:	Cast iron	P [kW]		NPSH
Impeller:	EN-GJL-200	[KVV]		[m]
Impeller:	ASTM class 30		P1	
Material code:	ASTM Class 50	10 -	P2 1	0
Installation:	R	8 -	-8	;
Range of ambient temperature:	-20 55 °C	6 -	6	
	16 bar	- °	ľ	
Maximum operating pressure: Max pressure at stated temp:	16 bar / 120 °C	4		
Type of connection:	DIN	2	2	
Size of connection:	DN 125			
Pressure rating for connection:	PN 16	0	L0	
Port-to-port length:	800 mm	314		
Flange size for motor:	FF300		350	
Connect code:	F			
Liquid:	F			
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C	HG 125		
Density:	998.2 kg/m ³			
Electrical data:	990.2 kg/m	568 54		
Motor type:	SIEMENS			
IE Efficiency class:	IE3			
Rated power - P2:	11 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V		M16 350 175	
Rated current:	20.5/12 A		leolle	
Starting current:	680-680 %	_	Υ	
Cos phi - power factor:	0.84			
Rated speed:	1475 rpm	\$\vee \begin{array}{c} & & & & & & & & & & & & & & & & & & &	₿ ⁺ * 	
Efficiency: Motor officiency at full load:	IE3 91,4%			
Motor efficiency at full load:	91.4-91.4 %			
Motor efficiency at 3/4 load:	91.9-91.9 %	TO AMPLIFIER RELAY		
Motor efficiency at 1/2 load:	91.4-91.4 %	L1		
Number of poles:	4	_		
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F	\ \ \ \ \ \ \ \ \ \		
Built-in motor protection:	PTC			
Motor No:	99032129			
Controls:	Nous	TO AMPLIFIER RELAY		
Frequency converter:	NONE			

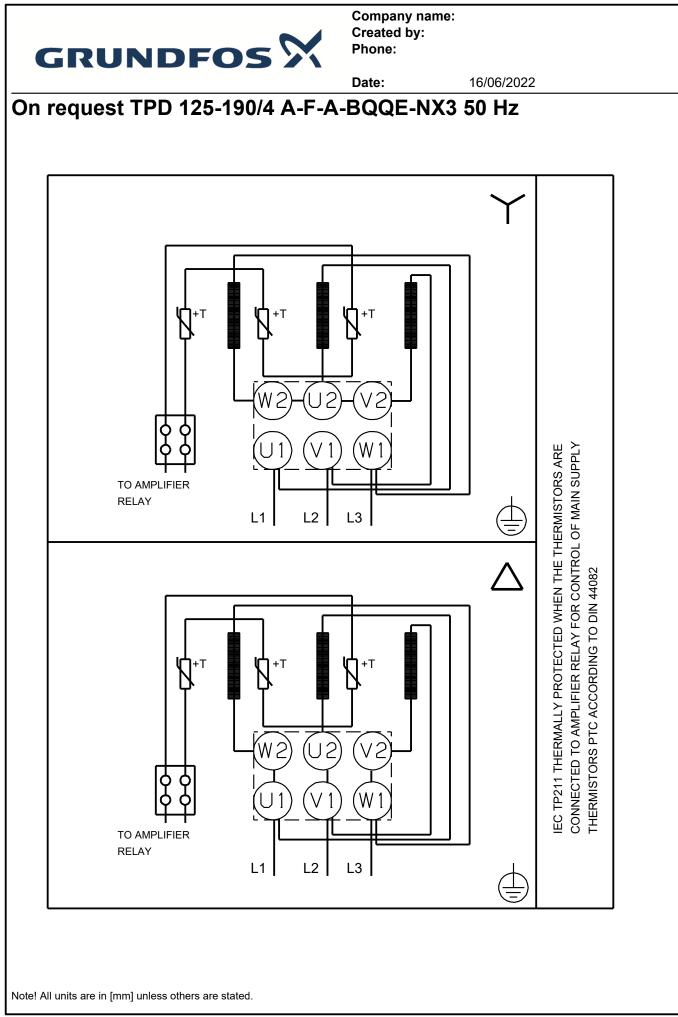
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		Date:	16/06/2022
Description	Value		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	528 kg		
Gross weight:	591 kg		
Shipping volume:	1.87 m³		
Country of origin:	HU		
Custom tariff no.:	84137065		



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





16/06/2022

Order Data:

Product name:TPD 125-190/4Amount:1Product No:On request

Total: Price on request