



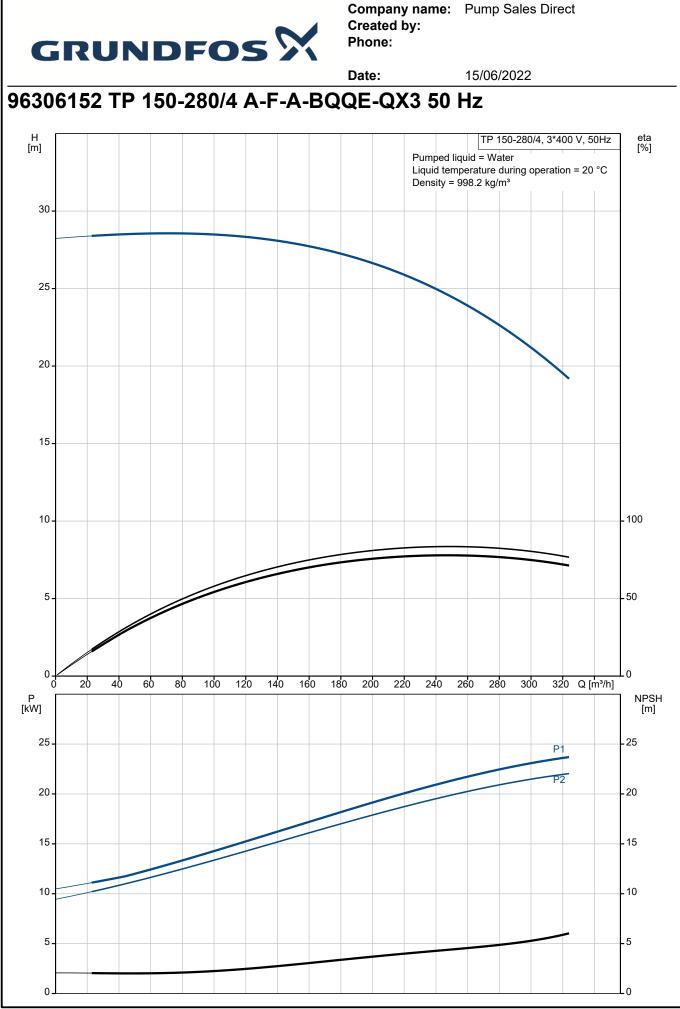
15/06/2022

Date: Qty. Description 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 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: NONE Frequency converter: Liquid: Pumped liquid: Water -25 .. 120 °C Liquid temperature range: Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical rpm

l echnical:	
Pump speed on which pump data	are based: 1465
Rated flow:	249 m³/h
Rated head:	24.5 m
Actual impeller diameter:	290 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Materials:	
Pump housing:	Cast iron
	EN-GJL-250
	ASTM class 35
Impeller:	Cast iron
	EN-GJL-200
	ASTM class 30
Installation:	



			Date:	15/06/2022	
ty.	Description				
	Range of ambient temperature:	-20 55 °C			
	Maximum operating pressure:	16 bar			
	Max pressure at stated temp:	16 bar / 120 °C			
	Type of connection:	DIN			
	Size of connection:	DN 150			
	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:	22 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-420D/660-72	5Y V		
	Rated current:	41/24 A			
	Starting current:	680-680 %			
	Cos phi - power factor:	0.83			
	Rated speed:	1470 rpm			
	Efficiency:	IE3 93%			
	Motor efficiency at full load:	93-93 %			
	Motor efficiency at 3/4 load:	93.6-93.6 %			
	Motor efficiency at 1/2 load:	93.6-93.6 %			
	Number of poles:	4			
		4 IP55			
	Enclosure class (IEC 34-5):	F			
	Insulation class (IEC 85):				
	Motor No:	99032118			
	Others:	0.70			
	Minimum efficiency index, MEI ≥:				
	Net weight:	407 kg			
	Gross weight:	445 kg			
	Shipping volume:	1.12 m ³			
	Danish VVS No.:	381718280			
	Finnish LVI No.:	4616157			



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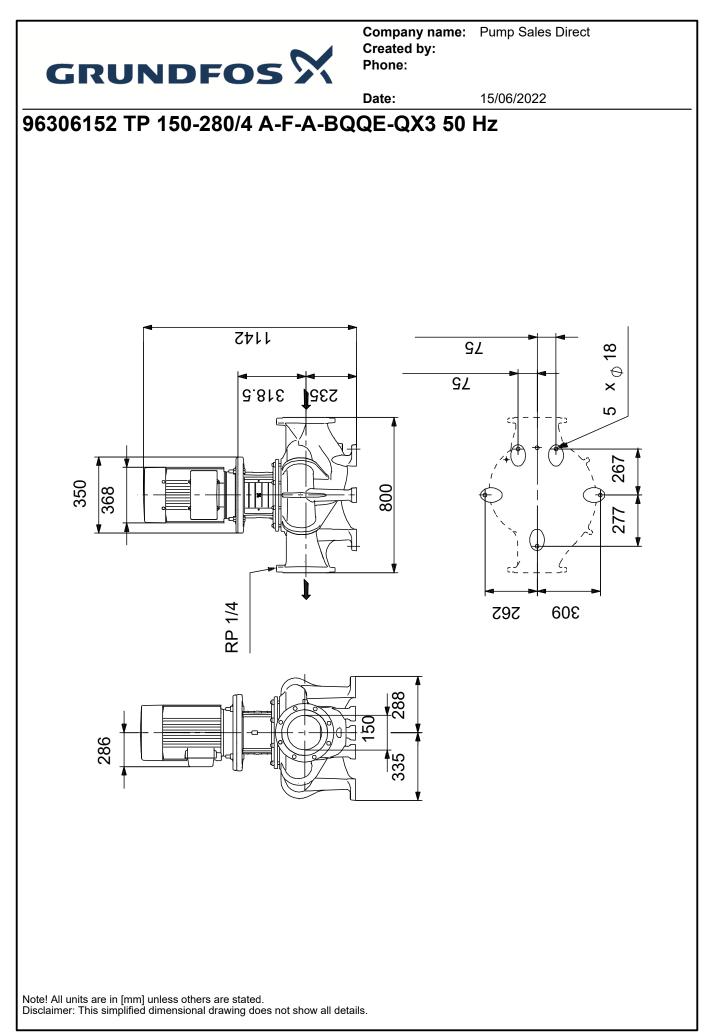


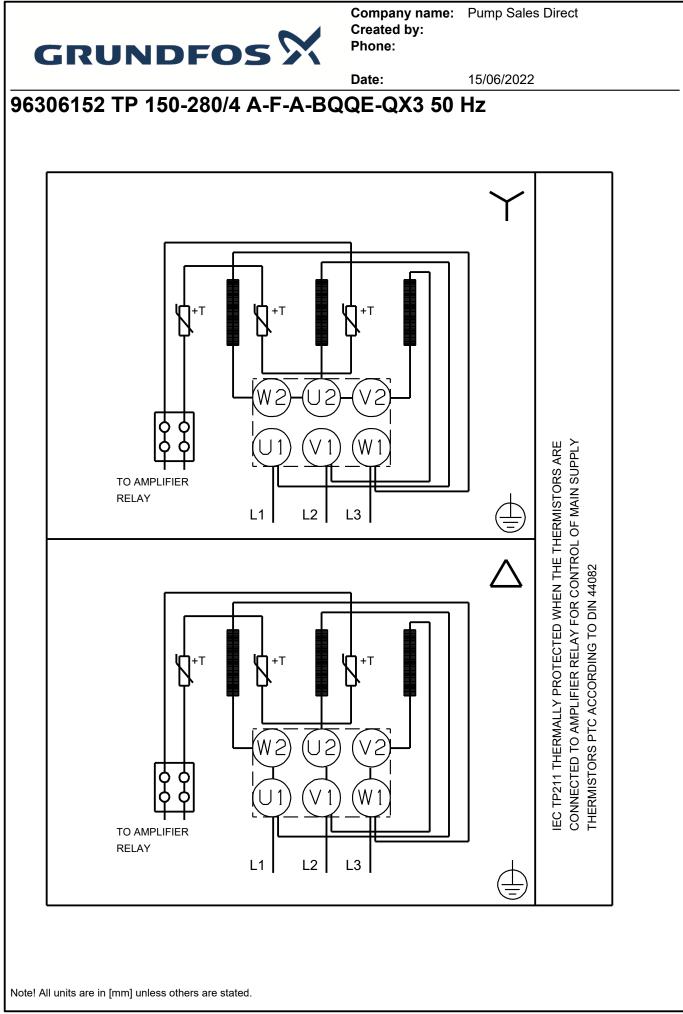
		Date:	15/06/2022	eta
Description	Value	H [m]	TP 150-280/4, 3*400 V, 50Hz	eta [%]
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	TP 150-280/4 A-F-A-BQQE-QX3	30 -	Density = 998.2 kg/m ³	
Product No:	96306152			
EAN number:	5700835125934	25 -		
Technical:		-		
Pump speed on which pump data are based:	1465 rpm	20 -		
Rated flow:	249 m³/h	-		
Rated head:	24.5 m	15		
Maximum head:	280 dm			
Actual impeller diameter:	290 mm			
Code for shaft seal:	BQQE	10		_ 100
Curve tolerance:	ISO9906:2012 3B			
Pump version:	Α			50
Materials:		5		- 50
Pump housing:	Cast iron			
Pump housing:	EN-GJL-250	0		-0
Pump housing:	ASTM class 35	0 50	100 150 200 250 Q [m³/h]	- •
Impeller:	Cast iron	P [kW]		NPSH [m]
Impeller:	EN-GJL-200	25	P1	_25
Impeller:	ASTM class 30	-	P2	
Material code:	A	20 -		- 20
Installation:		15 _		- 15
Range of ambient temperature:	-20 55 °C	-		
Maximum operating pressure:	16 bar	10 -		- 10
Max pressure at stated temp:	16 bar / 120 °C	-		-
Type of connection:	DIN	5 -		- 5
Size of connection:	DN 150	0		_0
Pressure rating for connection:	PN 16	ħ		
Port-to-port length:	800 mm		350	
Flange size for motor:	FF300	286	368	
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:	0	335 288		
Motor type:	SIEMENS		12	
IE Efficiency class:	IE3			
Rated power - P2:	22 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V		277 267	
Rated current:	41/24 A			
Starting current:	680-680 %		~	
Cos phi - power factor:	0.83	-	Y	
Rated speed:	1470 rpm			
Efficiency:	IE3 93%	-	₽ ⁸ ₽	
Motor efficiency at full load:	93-93 %			
Motor efficiency at 3/4 load:	93.6-93.6 %			
Motor efficiency at 1/2 load:	93.6-93.6 %	TO AMPLIFIER RELAY		
Number of poles:	4			
Enclosure class (IEC 34-5):	4 IP55			
Insulation class (IEC 85):	F	- 1,1+T 1,1+T		
Built-in motor protection:	PTC	- ĭ ■ ĭ		
Motor No:	99032118			
Controls:	33032110	- TO AMPLIFIER	Let remain the second sec	

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		Date:	15/06/2022
Description	Value		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	407 kg		
Gross weight:	445 kg		
Shipping volume:	1.12 m³		
Danish VVS No.:	381718280		
Finnish LVI No.:	4616157		







15/06/2022

Order Data:

Product name: TP 150-280/4 Amount: 1 Product No: 96306152

Total: Price on request