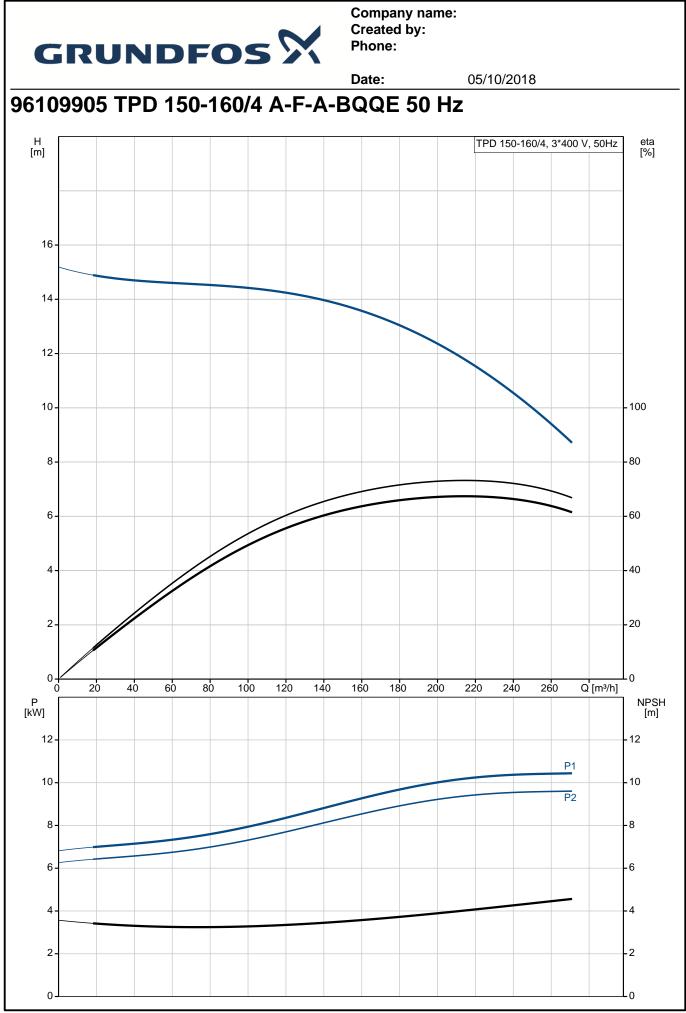
G		UNDFOS	Created by:	Company name: Created by: Phone:					
			Date:	05/10/2018					
Position	Qty.	Description							
	1	TPD 150-160/4 A-F-A-BQQE							
		Product No.: 96109905	ite twin bood pump with it	line suction and discharge parts of identical					
		Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identica 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.							
		Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during opera Density:	Water -25 120 °C tion: 20 °C 998.2 kg/m³						
		Technical: Rated flow: Rated head: Actual impeller diameter: Primary shaft seal: Curve tolerance:	206 m³/h 12.4 m 220 mm BQQE ISO9906:2012 3B						
		Materials: Pump housing: Impeller:	Cast iron EN-JL1040 ASTM A48-40 B Cast iron EN-JL1030 ASTM A48-30 B						
		Installation: Range of ambient temperature: Maximum operating pressure: Flange standard: Pipe connection: Pump inlet: Pump outlet: Pressure rating: (@): Flange size for motor:							
		Electrical data: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	160MA IE3 2 x 11 kW 11 kW 50 Hz						



Company name: Created by: Phone:





Company name: Created by: Phone:

		Date:		0/2018		
Description	Value	H [m]		TPD 150-1	60/4, 3*400	V, 50Hz
General information:						
Product name:	TPD 150-160/4 A-F-A-BQQE					
Product No:	96109905	16 -				
EAN number:	5700396988900					
Technical:		14				
Rated flow:	206 m³/h					
Rated head:	12.4 m	12 -				
Head max:	160 dm	12 -				
Actual impeller diameter:	220 mm	10 -				
Primary shaft seal:	BQQE	10-				
Curve tolerance:	ISO9906:2012 3B					
Pump version:	A	8 -				
Model:	A					\geq
	A	6 -				
Materials:		-				
Pump housing:	Cast iron	4 -				
	EN-JL1040					
	ASTM A48-40 B	2				
Impeller:	Cast iron					
	EN-JL1030	0 <u>/</u>	50 100	150 20		0 [#-2/1]
	ASTM A48-30 B	0 5 P	50 100	150 20	0	Q [m³/h]
Material code:	A	[kW]				
Installation:		1				P1
Range of ambient temperature:	-30 60 °C	10 -				
Maximum operating pressure:	16 bar					P2
Flange standard:	DIN	8-				
Pipe connection:	DN 150	6-				
Pump inlet:	DN 150	, , , , , , , , , , , , , , , , , , ,				
Pump outlet:	DN 150	4-				_
Pressure rating:	PN 16	2-				
(@)	800 mm	2-				
Flange size for motor:	FF300	0				
Connect code:	F					
Liquid:	•					
Pumped liquid:	Water					
Liquid temperature range:	-25 120 °C					
Liquid temperature during operation:						
Density:	998.2 kg/m³					
Electrical data:						
Motor type:	160MA					
IE Efficiency class:	IE3					
Rated power - P2:	2 x 11 kW					
Power (P2) required by pump:	11 kW					
Mains frequency:	50 Hz					
Rated voltage:	3 x 380-415D/660-690Y V					
Rated current:	21,2-20,4/12,2-12,0 A					
Starting current:	710-810 %					
Cos phi - power factor:	0.86-0.81					
Rated speed:	1470-1475 rpm					
Efficiency:	IE3 91,4%					
Motor efficiency at full load:	91.4 %					
Motor efficiency at 3/4 load:	92.1 %					
Motor efficiency at 1/2 load:	91.6 %					
Number of poles:	4					
Enclosure class (IEC 34-5):	55 Dust/Jetting					
Insulation class (IEC 85):	F					
Motor protec:	PTC					
Motor No:	87420031					



Company name: Created by: Phone:

		Date:	05/10/2018			
Description	Value					
Others:						
Minimum efficiency index, MEI :	0.65					
ErP status:	EuP Standalone/Prod.					
Net weight:	666 kg					
Gross weight:	774 kg					
Shipping volume:	1.52 m ³					

