

Submittal Data

PROJECT:	TPE3 READY TO SHIP	UNIT TAG:		QUANTITY:	1
		TYPE OF SERVICE:			
REPRESENTATIVE:	Hurley Engineering	SUBMITTED BY:	Devin Carle	DATE:	2/10/2020
ENGINEER:		APPROVED BY:		DATE:	
CONTRACTOR:	To Be Determined	ORDER NO.:		DATE:	

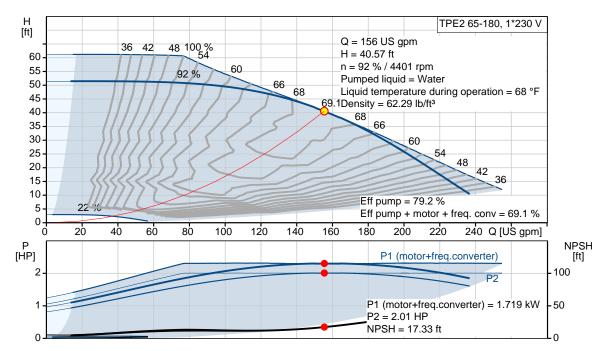


TPE2 65-180 N-A-G-I-BQQE-HAC

Single-stage stainless steel in-line pumps with frequency converters

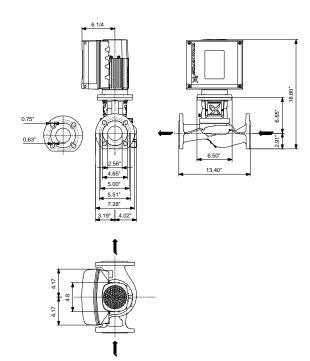
Product photo could vary from the actual product

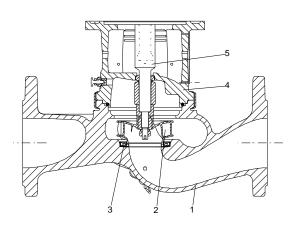
Conditions of Service		Pump Data	Motor Data		
Flow:	156 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	2 HP
Head:	40.57 ft	Maximum ambient temperature:	122 °F	Rated voltage:	200-240 V
Efficiency:	69.1 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 65	Number of poles:	0
Temperature:	68 °F	Product number:	98817757	Enclosure class:	IP55
NPSH required:	17.33 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	90B
				Motor_efficiency:	87.5 %





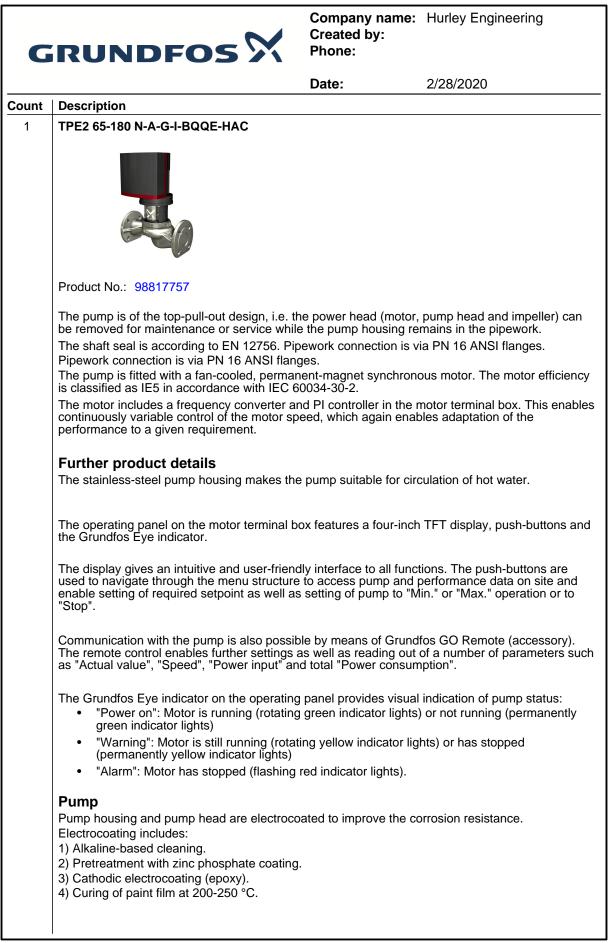
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Materials:

Pump housing:	Stainless steel ASTM CF8
Impeller:	Composite PES/PP 30% GF
Material code:	I



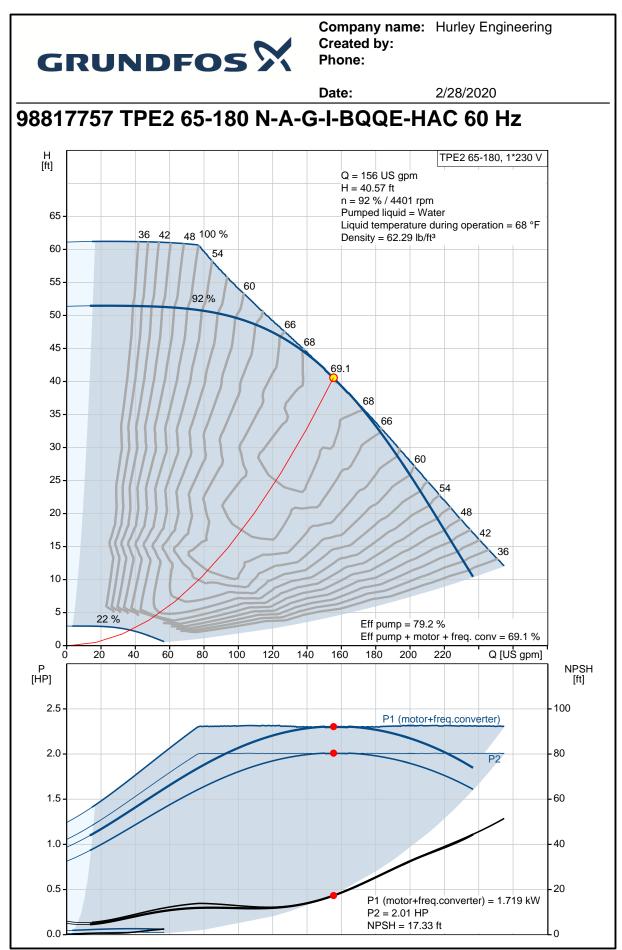
GRUNDFOS

			Date:	2/28/2020
ount	Description			
	The pump is fitted with an unbal spring and around the bellows. I movement is not prevented by c	Due to the bel	llows, the sea	with torque transmission across the I does not wear the shaft, and the axia
	Primary seal:		e shan.	
	 Rotating seal ring materia Stationary seat material: 			
	This material pairing is used wh this material pairing offers good	ere higher cor resistance ag	rosion resista ainst abrasive	•
	Secondary seal material: EPDM EPDM has excellent resistance			
	A circulation of liquid through the shaft seal.	e duct of the a	air vent screw	ensures lubrication and cooling of the
	Motor			
	The motor is a totally enclosed, standards. Electrical tolerances	fan-cooled me comply with I	otor with princ EC 60034.	ipal dimensions to IEC and DIN
	The motor efficiency is classified	d as IE5 in ac	cordance with	IEC 60034-30-2.
	Technical data			
	Controls:			
	Frequency converter:	Built-in		
	Liquid:	NA7		
	Pumped liquid:	Water		
	Liquid temperature range:	-13 248 °F 68 °F		
	Selected liquid temperature: Density:	62.29 lb/ft ³		
	Density.	02.29 ID/II		
	Technical:	(4470	
	Pump speed on which pump da			
	Actual calculated flow: Resulting head of the pump:	156 US gpm 40.57 ft	1	
	Actual impeller diameter:	40.37 ft 3.07 in		
	Code for shaft seal:	BQQE		
	Curve tolerance:	ISO9906:20	12 3B2	
	Materials:			
	Pump housing:	Stainless ste	el	
		ASTM CF8		
	Impeller:	EN 1.4308 Composite F	PES/PP 30%	GF
	Installation:			
	Range of ambient temperature:	-4 122 °F		
	Maximum operating pressure:	PN 16 bar		
	Type of connection:	ANSI		
	Pipe connection:	DN 65		
	Pressure rating for pipe connect	tion: PN 16		
	Flange size for motor:	56C		
	Electrical data:			

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		Date:	2/28/2020
Count	Description		
Count	DescriptionMotor type:IE Efficiency class:Rated power - P2:Main frequency:Rated voltage:Rated current:Cos phi - power factor:Rated speed:IE efficiency:Motor efficiency at full load:Number of poles:Enclosure class (IEC 34-5):Insulation class (IEC 85):Motor Number:Others:DOE Pump Energy Index VL:Net weight:Gross weight:	Date: 90B IE5 2 HP 60 Hz 1 x 200-240 V 9.20-7.60 A 0.99 480-5900 rpm 87.5% 87.5 % 0 IP55 F 99630347 0.39 67.3 lb 67.3 lb	2/28/2020



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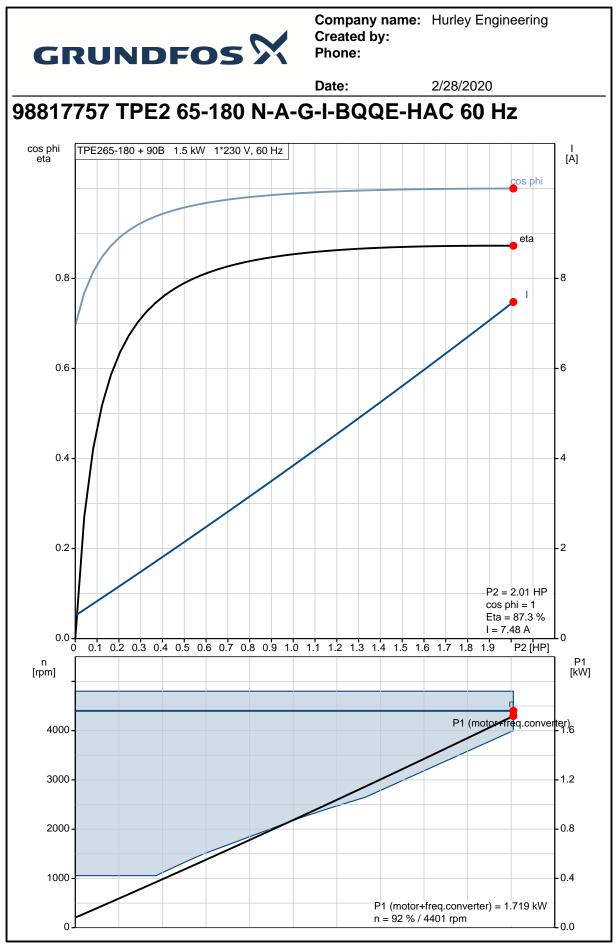


		Date: 2/28/2020
Description	Value	H TPE2 65-180, 1*230 V
Description General information:	Value	[ft] Q = 156 US gpm
	TPE2 65-180	65 – H = 40.57 ft (n = 92 % / 4401 rpm
Product name:	N-A-G-I-BQQE-HAC	60 - Pumped liquid = Water Liquid temperature during operation = 68 °F
Product No.:	98817757	55 - Density = 62.29 lb/ft ³
EAN:	5712601810852	50 <u>66</u> 68
Technical	5712601810852	45 - 69.1
Technical: Pump speed on which pump data is based:	4470 rpm	40 - 68 66 66
Actual calculated flow:	156 US gpm	30 - 60
Resulting head of the pump:	40.57 ft	25 - 54
Head max:	59.06 ft	20 - 48
Actual impeller diameter:	3.07 in	42
Code for shaft seal:	BQQE	
Curve tolerance:	ISO9906:2012 3B2	10-
Pump version:	Α	5 - 22 % Eff pump = 79.2 % Eff pump + motor + freq. conv = 69.1 %
Materials:		0 50 100 150 200 Q [US gpm]
Pump housing:	Stainless steel	P NPSH
	ASTM CF8	[HP] [ft]
	EN 1.4308	P1 (moor+freq.converter)
Impeller:	Composite PES/PP 30% GF	2- P2 100
Material code:	1	
Installation:		1-50
Range of ambient temperature:	-4 122 °F	P1 (motor+freq.converter) = 1.719 kW P2 = 2.01 HP NPSH = 17.33 ft
Maximum operating pressure:	PN 16 bar	
Type of connection:	ANSI	
Pipe connection:	DN 65	<u>= 6 th</u>
Pressure rating for pipe connection:	PN 16	
Flange size for motor:	56C	
Connect code:	G	
Liquid:		
Pumped liquid:	Water	<u>5007</u> <u>5007</u> 7207
Liquid temperature range:	-13 248 °F	
Selected liquid temperature:		
Density:	62.29 lb/ft ³	
Electrical data:		
Motor type:	90B	
IE Efficiency class:	IE5	
Rated power - P2:	2 HP	
Main frequency:	60 Hz	
Rated voltage:	1 x 200-240 V	
Rated current:	9.20-7.60 A	
Cos phi - power factor:	0.99	
Rated speed:	480-5900 rpm	
IE efficiency:	87.5%	
Motor efficiency at full load:	87.5 %	
Number of poles:	0	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Motor protection:	YES	
Motor Number:	99630347	

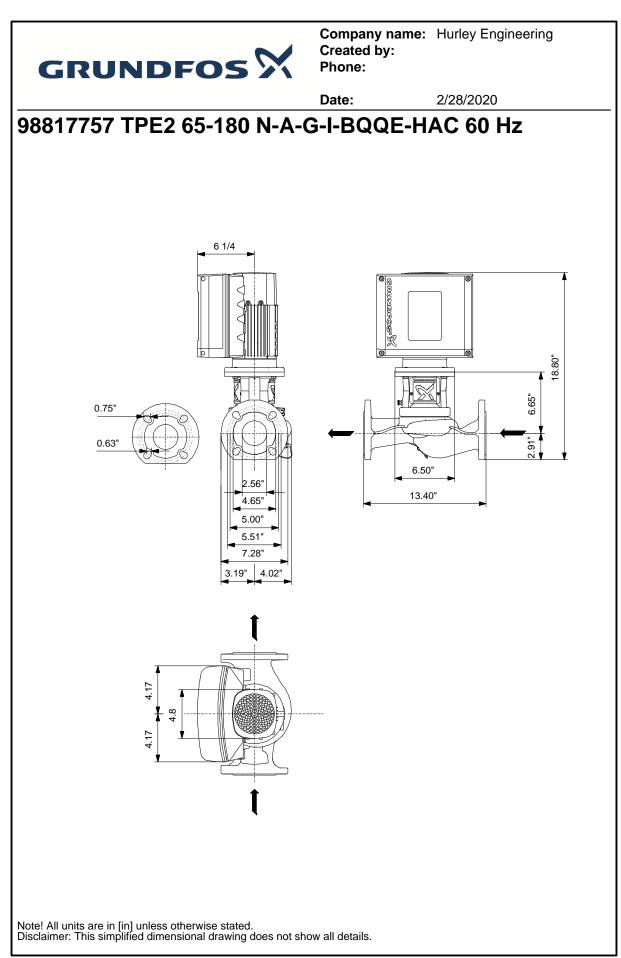
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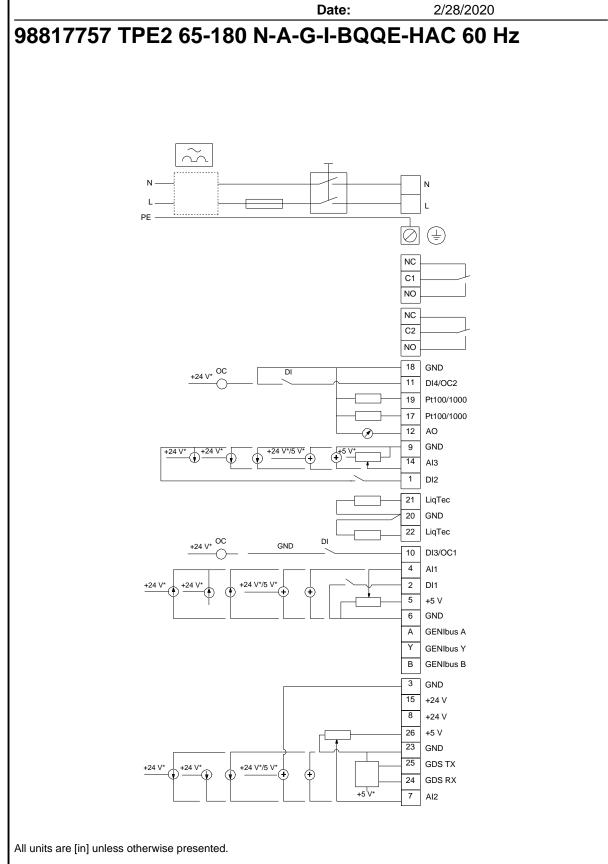
		Date:	2/28/2020
Description	Value		
Controls:		-	
Control panel:	HMI300 - Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
DOE Pump Energy Index VL:	0.39		
Net weight:	67.3 lb		
Gross weight:	67.3 lb		
Config. file no:	98819183		



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Date:	2/28/2020

Order Data:

Product name: TPE2 65-180 N-A-G-I-BQQE-HAC Amount: 1 Product No.: 98817757

Total: Price on request