

## 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:	

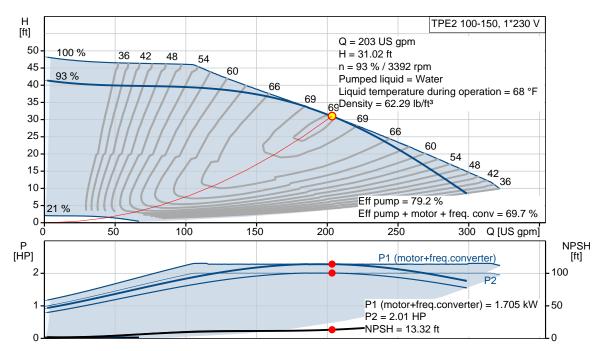


### TPE2 100-150 N-A-G-I-BQQE-HAB

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

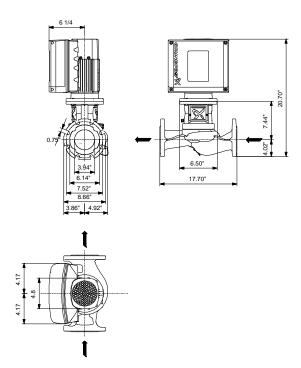
Product photo could vary from the actual product

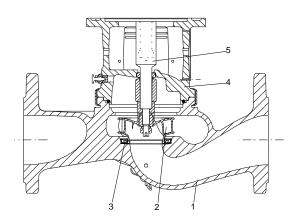
Conditions of Service		Pump Data	Motor Data		
Flow:	203 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	2 HP
Head:	31.02 ft	Maximum ambient temperature:	122 °F	Rated voltage:	200-240 V
Efficiency:	69.7 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 100	Number of poles:	0
Temperature:	68 °F	Product number:	98817846	Enclosure class:	IP55
NPSH required:	13.32 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	90C
				Motor_efficiency:	87.4 %





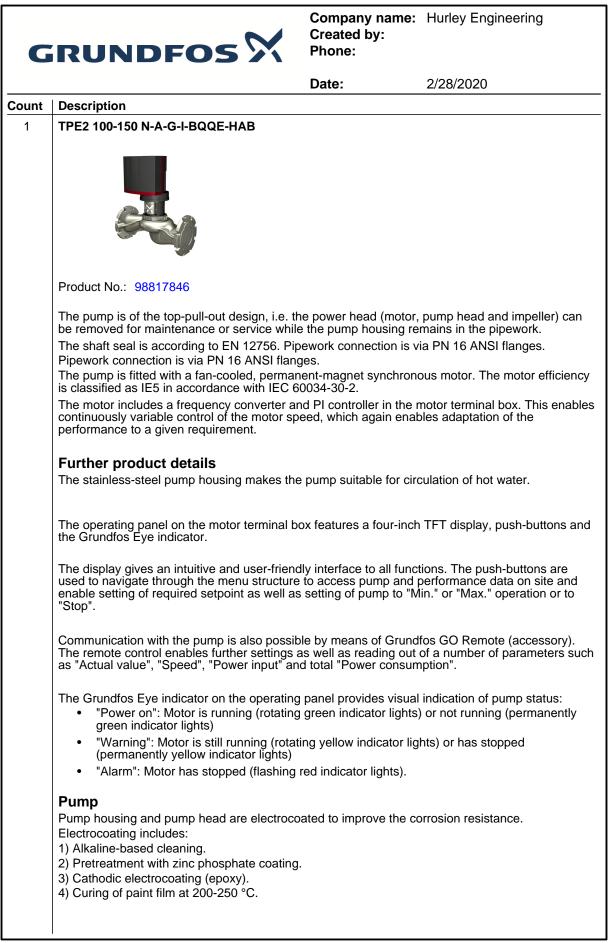
# Submittal Data





#### Materials:

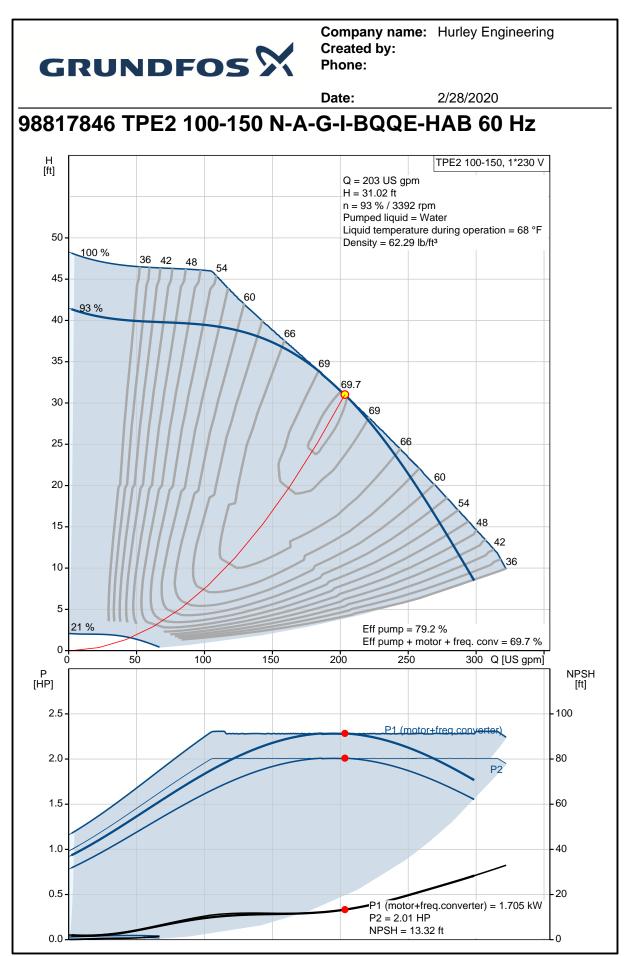
Pump housing:	Stainless steel ASTM CF8
Impeller:	Composite PES/PP 30% GF
Material code:	I



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			Date:	2/28/2020	
ount	Description				
	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 a movement is not prevented by deposits on the shaft.				
	Primary seal: • Rotating seal ring materia	al: silicon cart	oide (SiC)		
	<ul> <li>Stationary seat material: This material pairing is used why this material pairing offers good Secondary seal material: EPDM</li> </ul>	ere higher co resistance ag	rrosion resistar jainst abrasive	•	
	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 princi EC 60034.	pal dimensions to IEC and DIN	
	The motor efficiency is classified <b>Technical data</b>	d as IE5 in ac	cordance with	IEC 60034-30-2.	
	Controls:				
	Frequency converter:	Built-in			
	Liquid: Pumped liquid:	Water			
	Liquid temperature range:	-13 248 °F			
	Selected liquid temperature:	68 °F			
	Density:	62.29 lb/ft3			
	Technical:				
	Pump speed on which pump dat		•		
	Actual calculated flow: Resulting head of the pump:	203 US gpm 31.02 ft	1		
	Actual impeller diameter:	3.54 in			
	Code for shaft seal:	BQQE			
	Curve tolerance:	ISO9906:20	12 3B2		
	Materials:	<b>e</b>			
	Pump housing:	Stainless ste ASTM CF8	eel		
		EN 1.4308			
	Impeller:		PES/PP 30% 0	€F	
	Installation:				
	Range of ambient temperature:				
	Maximum operating pressure:	PN 16 bar			
	Type of connection:	ANSI DN 400			
	Pipe connection: Pressure rating for pipe connect	DN 100			
	Flange size for motor:	56C			
	Electrical data:				





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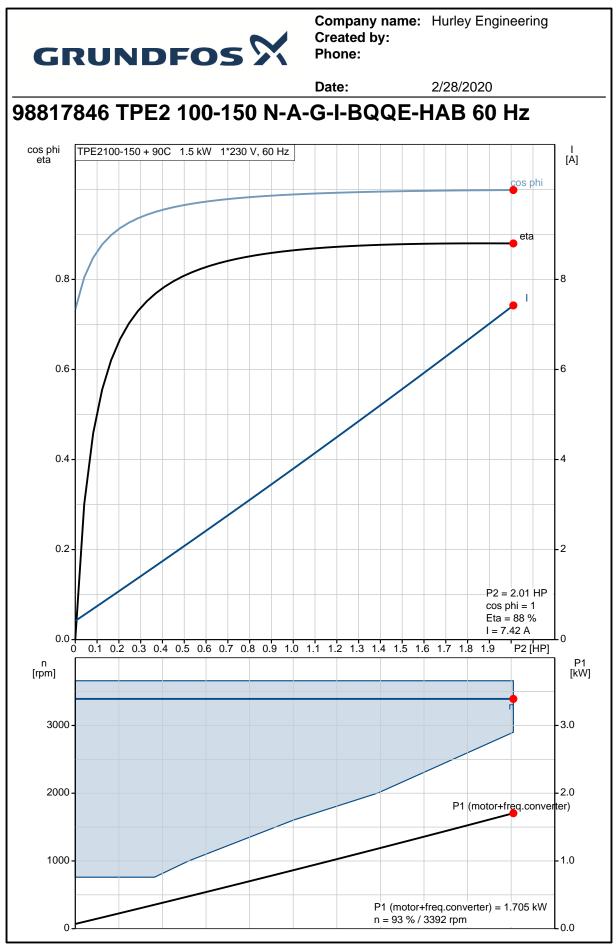


		Date:	2/28/2020
Description	Value	H [ft]	TPE2 100-150, 1*230 V
General information:	Value		Q = 203 US gpm
Product name:	TPE2 100-150 N-A-G-I-BQQE-HAB	50 -	H = 31.02 ft n = 93 % / 3392 rpm 100 % Pumped liquid = Water
Product No.:	98817846	45 -	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft <sup>3</sup>
EAN:	5712601812573	40 -	93 %
	5712601812573		66
Technical:		35 -	69 69.7
Pump speed on which pump data is based:	3410 rpm	30 -	69
Actual calculated flow:	203 US gpm	25 -	
Resulting head of the pump:	31.02 ft	20 -	60
Head max:	49.22 ft	15 -	48
Actual impeller diameter:	3.54 in		42
Code for shaft seal:	BQQE	10 -	
Curve tolerance:	ISO9906:2012 3B2	5 -	1 % Eff pump = 79.2 %
Pump version:	A	0	1 % Eff pump + motor + freq. conv = 69.7 %
Materials:		0	50 100 150 200 250 Q [US gpm]
Pump housing:	Stainless steel	– [HP]	NPSH [ft]
	ASTM CF8		P1 (moter+freq.converter)
	EN 1.4308	2-	- 100
Impeller:	Composite PES/PP 30% GF	2	P2
Material code:	Ι		
Installation:		1_	-50
Range of ambient temperature:	-4 122 °F		P1 (motor-freq.converter) = 1.705 kW P2 = 2.01 HP NPSH = 13.32 ft
Maximum operating pressure:	PN 16 bar	0	
Type of connection:	ANSI		
Pipe connection:	DN 100		<u>  € 814 - </u>
Pressure rating for pipe connection:	PN 16		
Flange size for motor:	56C		
Connect code:	G		
Liquid:			5 50 5 50 17.70°
Pumped liquid:	Water		
Liquid temperature range:	-13 248 °F		t
Selected liquid temperature:	68 °F		
Density: Electrical data:	62.29 lb/ft <sup>3</sup>	- 5	
Motor type:	90C		<u> </u>
IE Efficiency class:	IE5		l l
Rated power - P2:	2 HP		
Main frequency:	60 Hz		
Rated voltage:	1 x 200-240 V	м—	
Rated current:	9.10-7.60 A		
Cos phi - power factor:	0.99		
Rated speed:	360-4000 rpm		
IE efficiency:	87.4%		
Motor efficiency at full load:	87.4 %	[	
Number of poles:	0		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	YES		
Motor Number:	99630346	-317	

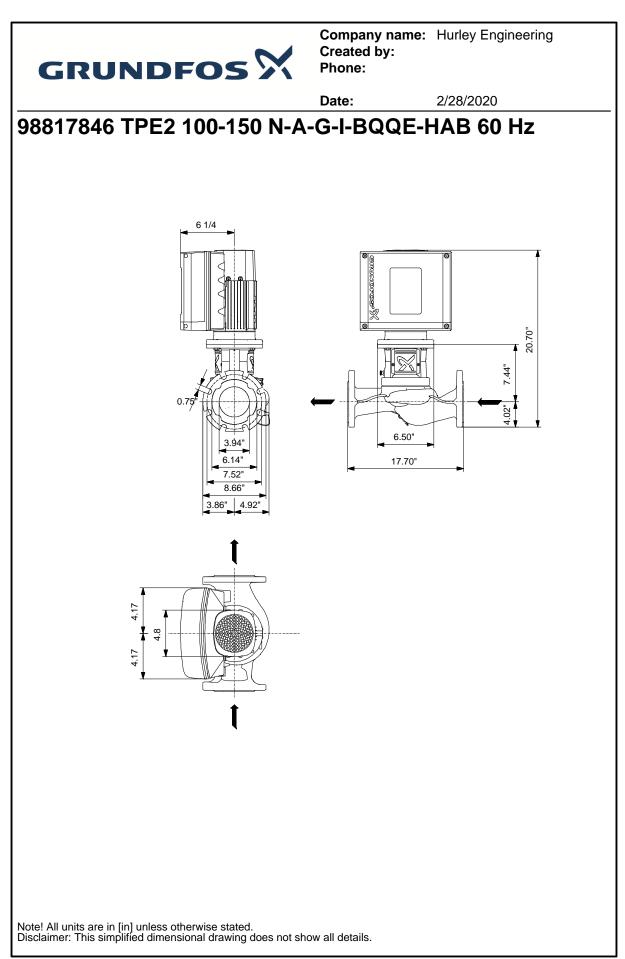
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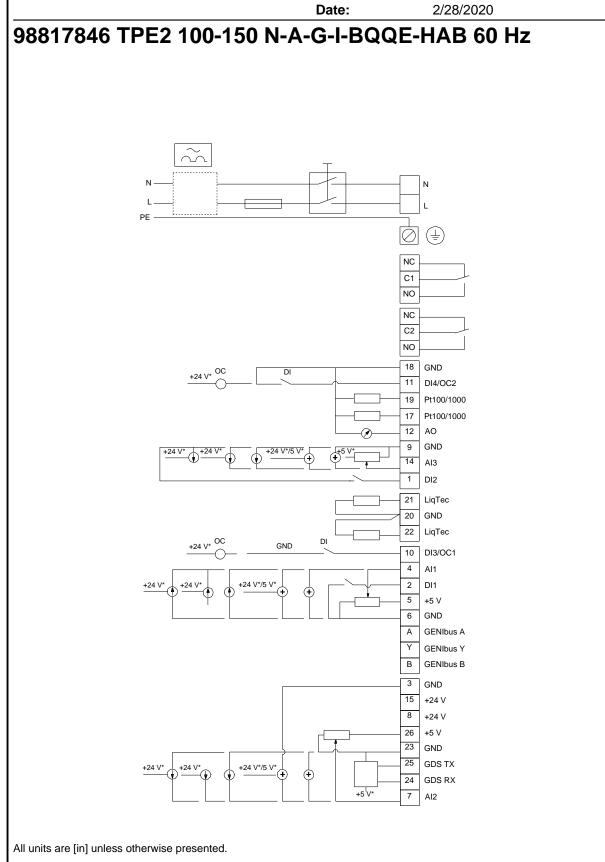
		Date:	2/28/2020	
Description	Value			
Controls:				
Control panel:	HMI300 - Graphical			
Function Module:	FM300 - Advanced			
Frequency converter:	Built-in			
Others:				
DOE Pump Energy Index VL:	0.39			
Net weight:	79.2 lb			
Gross weight:	79.2 lb			
Config. file no:	98819188			



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2/28/2020

Date:

Order Data:	Order	Data:	
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Product name: TPE2 100-150 N-A-G-I-BQQE-HAB Amount: 1 Product No.: 98817846

Total: Price on request