

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:	

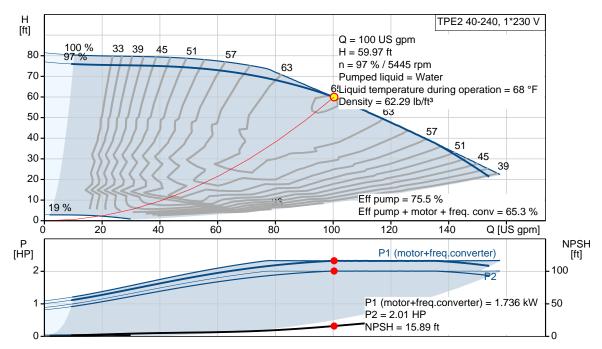


TPE2 40-240 N-A-G-I-BQQE-HAC

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

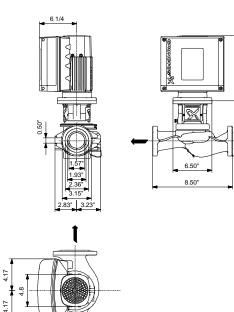
Product photo could vary from the actual product

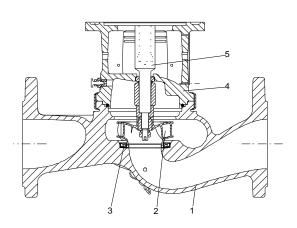
Conditions of Service		Pump Data		Motor Data	
Flow:	100 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	2 HP
Head:	59.97 ft	Maximum ambient temperature:	122 °F	Rated voltage:	200-240 V
Efficiency:	65.3 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 40	Number of poles:	0
Temperature:	68 °F	Product number:	98817706	Enclosure class:	IP55
NPSH required:	15.89 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	90B
				Motor_efficiency:	87.5 %





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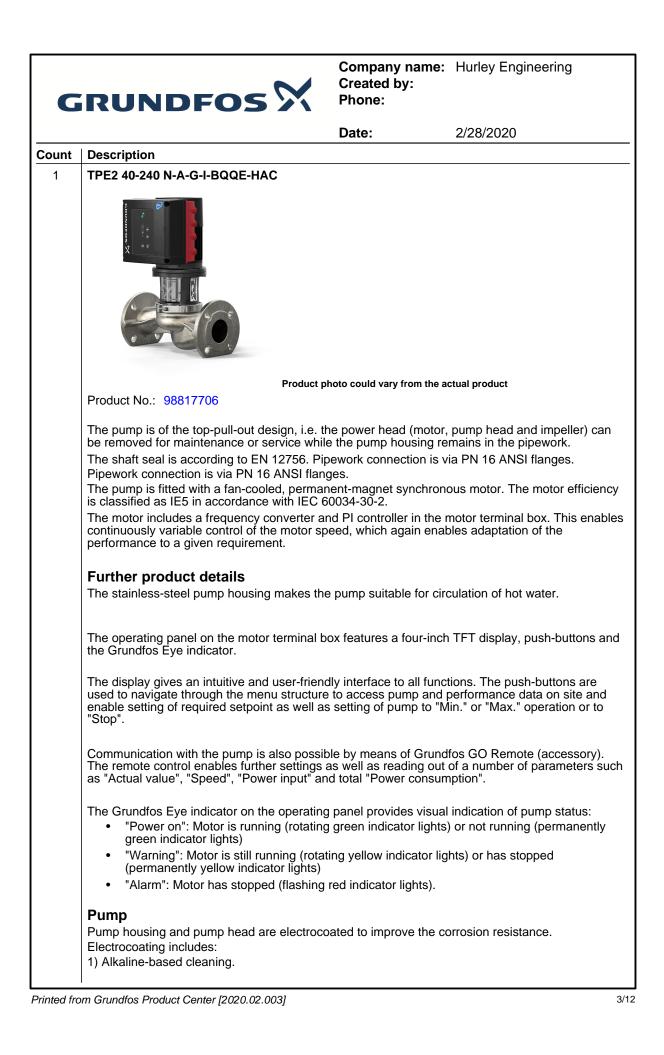


Materials:

18.20

6.38"

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

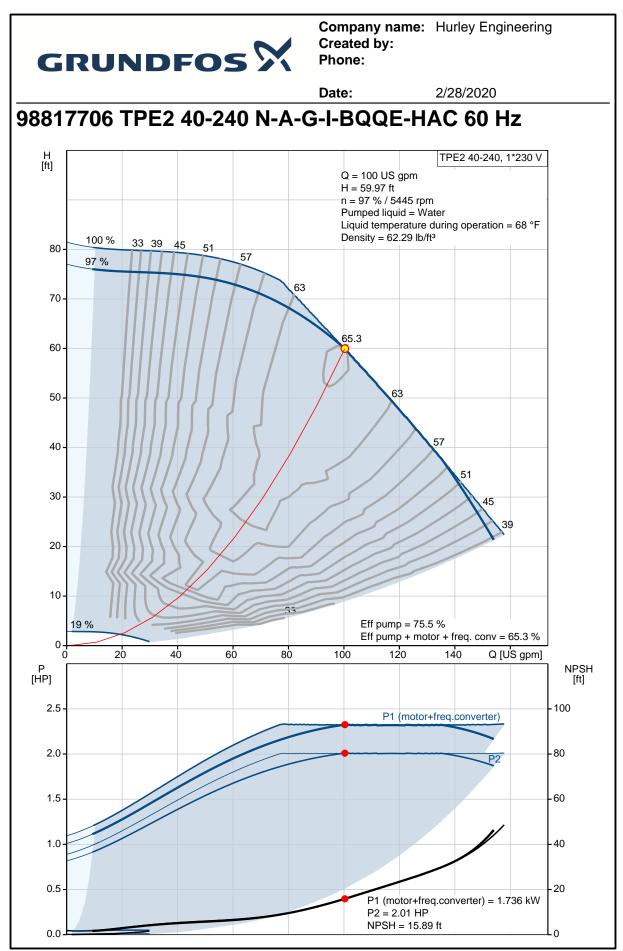




		Date:	2/28/2020
Count	Description		
	 Pretreatment with zinc phospl Cathodic electrocoating (epox Curing of paint film at 200-250 	(y).	
	spring and around the bellows. I movement is not prevented by d	Due to the bellows, the	eal with torque transmission across the seal does not wear the shaft, and the axial
	 Primary seal: Rotating seal ring material: silicon carbide (SiC) 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. 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 shaft seal.	e duct of the air vent sc	rew ensures lubrication and cooling of the
	Motor The motor is a totally enclosed, to standards. Electrical tolerances	an-cooled motor with p comply with IEC 60034	principal dimensions to IEC and DIN
	The motor efficiency is classified Technical data	as IE5 in accordance	with IEC 60034-30-2.
	Controls: Frequency converter:	Built-in	
	Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -13 248 °F 68 °F 62.29 lb/ft ³	
	Technical: Pump speed on which pump dat Actual calculated flow: Resulting head of the pump:	a is based: 5500 rpm 100 US gpm 59.97 ft	
	Actual impeller diameter: Code for shaft seal: Curve tolerance:	2.91 in BQQE ISO9906:2012 3B2	
	Materials: Pump housing:	Stainless steel ASTM CF8 EN 1.4308	
	Impeller:	Composite PES/PP 3	0% GF
	Installation: Range of ambient temperature: Maximum operating pressure:	-4 122 °F PN 16 bar	



		Date:	2/28/2020
Count	Description		
	Type of connection:	ANSI	
	Pipe connection:	DN 40	
	Pressure rating for pipe connect		
	Flange size for motor:	56C	
	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 Number:	99630347	
	Others:		
	DOE Pump Energy Index VL:	0.37	
	Net weight:	50.3 lb	
	Gross weight:	66.2 lb	
	l		



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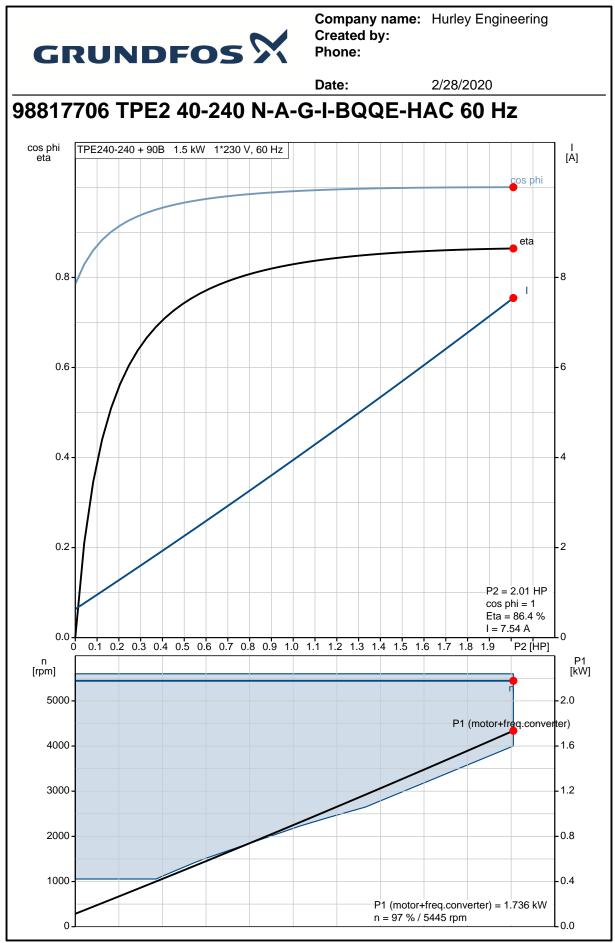


		Date:	2/28/2020
Description	Value	H [ft]	TPE2 40-240, 1*230 V
Description General information:	Value		Q = 100 US gpm
Product name:	TPE2 40-240 N-A-G-I-BQQE-HAC	80 -	H = 59.97 ft 100 % n = 97 % / 5445 rpm Pumped liquid = Water 7 %
Product No.:	98817706		Promped induid = water Liquid temperature during operation = 68 °F Density = 62.29 lb/ft ⁹
EAN:	5712601809634	70 -	
	5712601809634	60 -	65.3
Technical: Pump speed on which pump data is based:	5500 rpm	50 -	63
Actual calculated flow:	100 US gpm	40 -	57
Resulting head of the pump:	59.97 ft	-	51
Head max:	78.74 ft	30 -	45
Actual impeller diameter:	2.91 in	20 -	N39
Code for shaft seal:	BQQE	20	
Curve tolerance:	ISO9906:2012 3B2	10 -	
Pump version:	A		6% Eff pump = 75.5 % Eff pump + motor + freq. conv = 65.3 %
Materials:		0	50 100 Q [US gpm]
Pump housing:	Stainless steel	P	NPSH
	ASTM CF8	[HP]	[ft] [ft]
	EN 1.4308		
Impeller:	Composite PES/PP 30% GF	2-	H2 100
Material code:			
Installation:		1-	50
Range of ambient temperature:	-4122 F		P1 (motor+freq.converter) = 1.736 kW P2 = 2.01 HP NPSH = 15.89 ft
Maximum operating pressure:	PN 16 bar		
Type of connection:	ANSI		
Pipe connection:	DN 40	-	
Pressure rating for pipe connection:	PN 16	b	
Flange size for motor:	56C	61	
Connect code:	G	050	
Liquid:	147.7		457 1971 2971 297
Pumped liquid:	Water		
Liquid temperature range:	-13 248 °F		<u>t</u>
Selected liquid temperature: Density:	68 °F	- : A	
Electrical data:	62.29 lb/ft ³	- 5	
Motor type:	90B	_ •	
IE Efficiency class:	IE5		l de la constante de
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 %	-20	
Number of poles:	0		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	YES		1 (30)000 1 (00) 1 (02) 1 (02) 1 (02)
Motor Number:	99630347		
		- T	

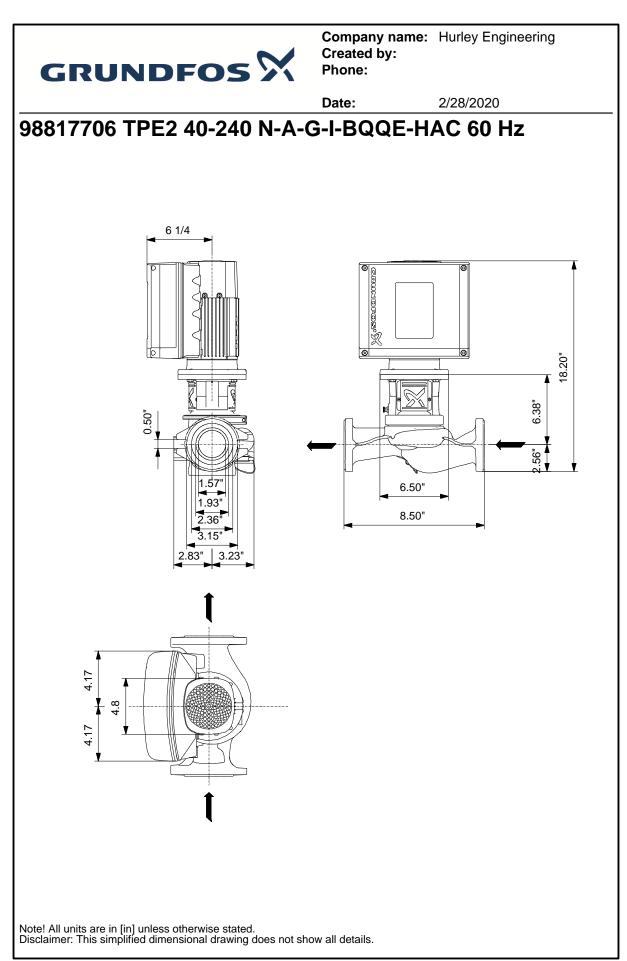
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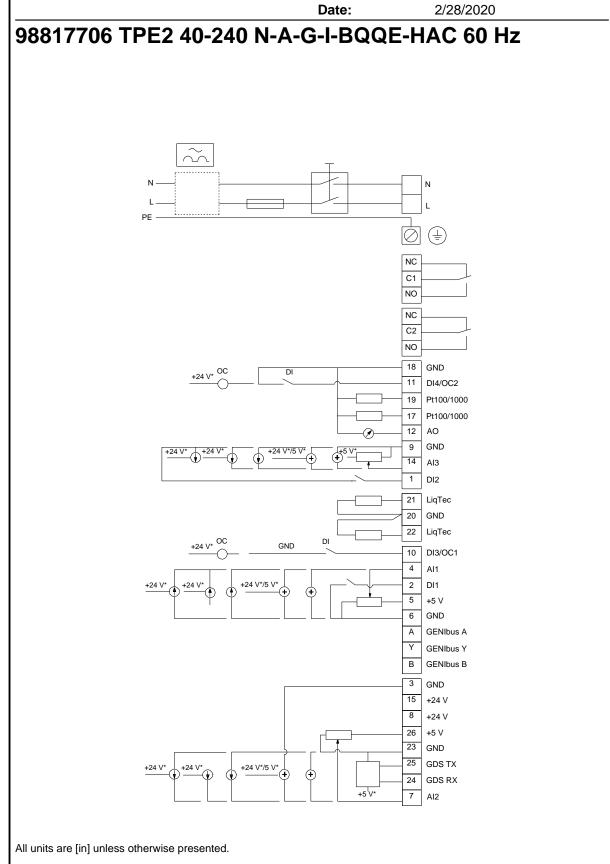
		Date:	2/28/2020
Description	Value		
Controls:		-	
Control panel:	HMI300 - Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
DOE Pump Energy Index VL:	0.37		
Net weight:	50.3 lb		
Gross weight:	66.2 lb		
Config. file no:	98819173		



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Date:	2/28/2020

Order Data:

Product name: TPE2 40-240 N-A-G-I-BQQE-HAC Amount: 1 Product No.: 98817706

Total: Price on request