

## 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:	

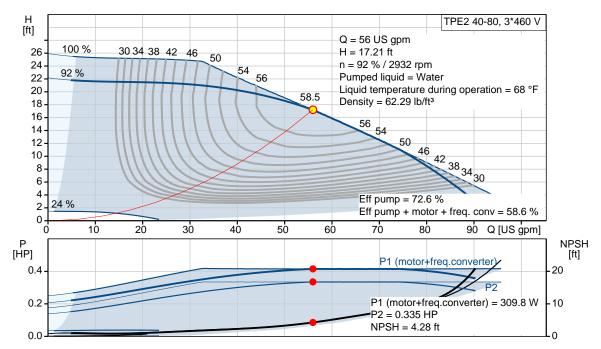


### TPE2 40-80 N-A-G-I-BQQE-CCB

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

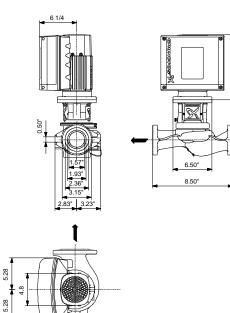
Product photo could vary from the actual product

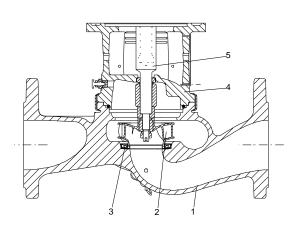
Conditions of Service		Pump Data		Motor Data	
Flow:	56 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	0.33 HP
Head:	17.21 ft	Maximum ambient temperature:	122 °F	Rated voltage:	440-480 V
Efficiency:	58.6 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 40	Number of poles:	0
Temperature:	68 °F	Product number:	98817713	Enclosure class:	IP55
NPSH required:	4.28 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	71A
				Motor_efficiency:	78.3 %





# Submittal Data



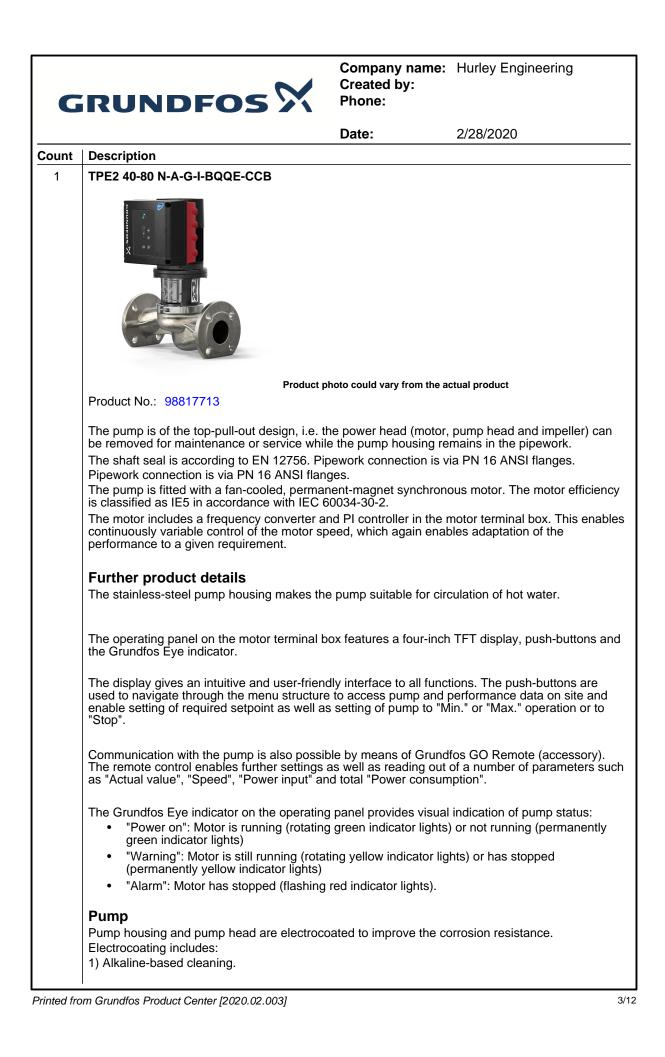


#### Materials:

19.00"

6.38"

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

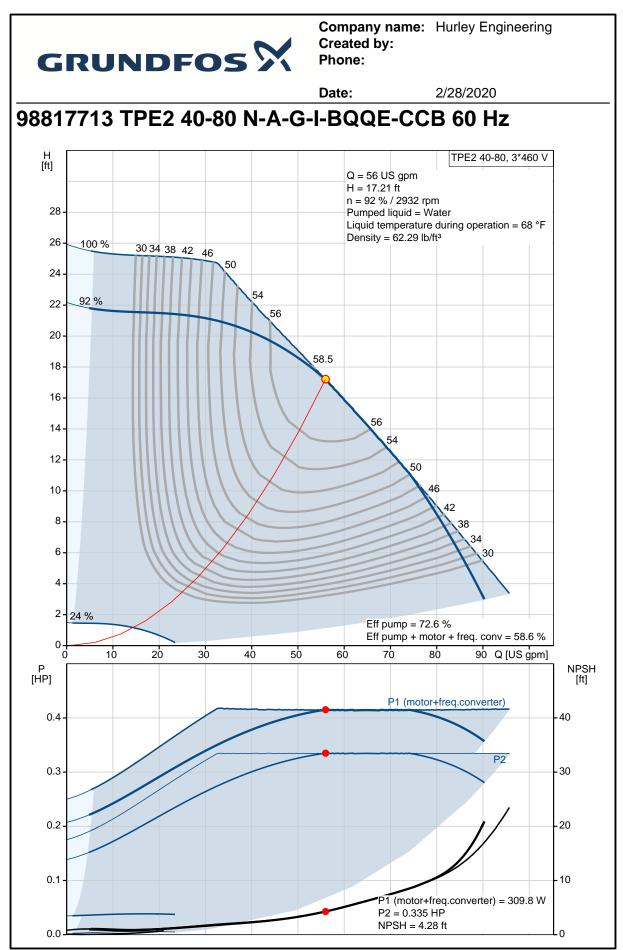




	Date:	2/28/2020	
Description			
3) Cathodic electrocoating (epo>	(y).		
spring and around the bellows.	Due to the bellows, the seal d	th torque transmission across the oes not wear the shaft, and the axial	
Primary seal: • Rotating seal ring material: silicon carbide (SiC) • Stationary seat material: silicon carbide (SiC)			
this material pairing offers good Secondary seal material: EPDM	resistance against abrasive p (ethylene-propylene rubber)	particles.	
A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.			
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 <sup>3</sup>		
Technical:			
Actual calculated flow: Resulting head of the pump: Actual impeller diameter: Code for shaft seal: Curve tolerance:	56 US gpm 17.21 ft 2.91 in BQQE ISO9906:2012 3B2		
<b>Materials:</b> Pump housing:	Stainless steel ASTM CF8 EN 1.4308		
Impeller:	Composite PES/PP 30% GF	:	
Installation:			
	-4 122 °F PN 16 bar		
	<ul> <li>2) Pretreatment with zinc phospl</li> <li>3) Cathodic electrocoating (epox</li> <li>4) Curing of paint film at 200-250</li> <li>The pump is fitted with an unball spring and around the bellows. In movement is not prevented by deprimary seal: <ul> <li>Rotating seal ring materia</li> <li>Stationary seat material:</li> </ul> </li> <li>This material pairing is used whethis material pairing offers good Secondary seal material: EPDM has excellent resistance</li> <li>A circulation of liquid through the shaft seal.</li> </ul> Motor The motor is a totally enclosed, standards. Electrical tolerances The motor efficiency is classified Technical data Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Technical: Pump speed on which pump data Actual calculated flow: Resulting head of the pump: Actual impeller diameter: Code for shaft seal: Curve tolerance: Materials: Pump housing: Impeller: Installation: Range of ambient temperature:	Description         2) Pretreatment with zinc phosphate coating.         3) Cathodic electrocoating (epoxy).         4) Curing of paint film at 200-250 °C.         The pump is fitted with an unbalanced rubber bellows seal with spring and around the bellows. Due to the bellows, the seal of movement is not prevented by deposits on the shaft.         Primary seal:       • Rotating seal ring material: silicon carbide (SiC)         • Stationary seat material: silicon carbide (SiC)       • Stationary seat material: silicon carbide (SiC)         This material pairing offers good resistance against abrasive p       Secondary seal material: EPDM (ethylene-propylene rubber)         EPDM has excellent resistance to hot water. EPDM is not sui       A circulation of liquid through the duct of the air vent screw er shaft seal.         Motor       The motor is a totally enclosed, fan-cooled motor with principies standards. Electrical tolerances comply with IEC 60034.         The motor efficiency is classified as IE5 in accordance with IE       Technical data         Controls:       Frequency converter:       Built-in         Liquid temperature range:       -13 248 °F       Selected liquid temperature:       68 °F         Density:       62.29 lb/ft <sup>3</sup> Technical:       Pumpe diaueter:       2.91 in         Code for shaft seal:       BQQE       Curve tolerance:       ISO9906:2012 3B2         Materials:       Pump housing:       S	



		Date:	2/28/2020
Count	Description		
	Type of connection:	ANSI	
	Pipe connection:	DN 40	
	Pressure rating for pipe conne		
	Flange size for motor:	56C	
		000	
	Electrical data:		
	Motor type:	71A	
	IE Efficiency class:	IE5	
	Rated power - P2:	0.33 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 440-480 V	
	Rated current:	0.85 A	
		0.52	
	Cos phi - power factor:		
	Rated speed:	360-4000 rpm	
	IE efficiency:	78.3%	
	Motor efficiency at full load:	78.3 %	
	Number of poles:	0	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor Number:	99630334	
	Others:		
	Net weight:	50.3 lb	
	Gross weight:	66.8 lb	
	Gioss weight.	0.00	



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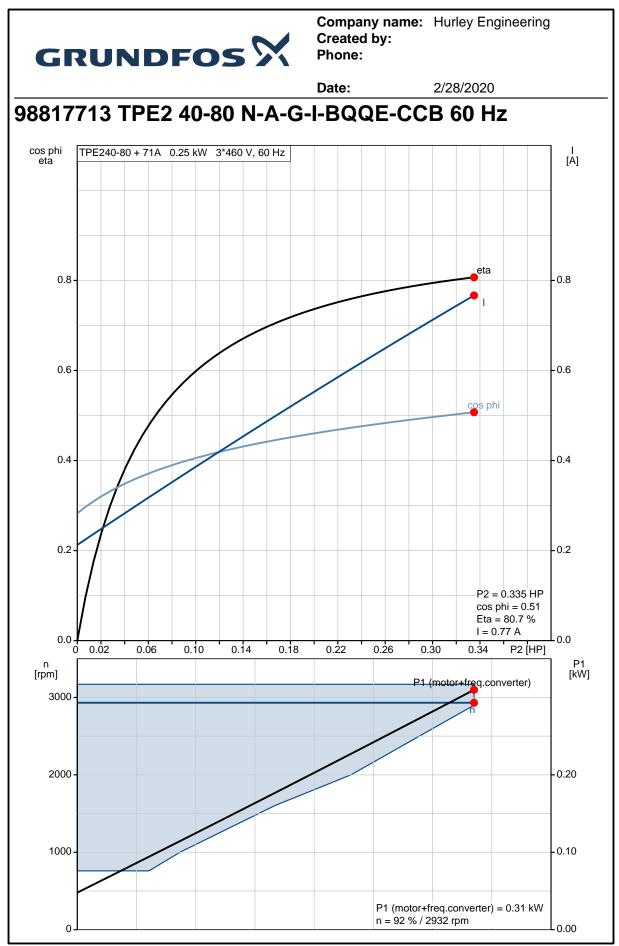


		Date:	2/28/2020
Description	Value	H [ft]	TPE2 40-80, 3*460 V
General information:			Q = 56 US gpm
Product name:	TPE2 40-80 N-A-G-I-BQQE-CCB	28 - 26 -	H = 17.21 ft n = 92 % / 2932 rpm 100 % Pumped liquid = Water
Product No.:	98817713	24 -	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft <sup>3</sup>
EAN:	5712601809771	22 -	92 % Derisity = 02.29 ib/it*
EAN.	5712601809771	20 -	
Technical:	3712001003771	18-	58.5
Pump speed on which pump data is based:	2970 rpm	16 - 14 -	56
Actual calculated flow:	56 US gpm	12 -	54
Resulting head of the pump:	17.21 ft	10 -	30
Head max:	26.25 ft	8-	42
Actual impeller diameter:	2.91 in		38 34 30
Code for shaft seal:	BQQE	6-	,30
Curve tolerance:	ISO9906:2012 3B2	4 -	
Pump version:	A	2 -	24 % Eff pump = 72.6 % Eff pump + motor + freq. conv = 58.6 %
Materials:		- 0-	
Pump housing:	Stainless steel	P	NPSH
	ASTM CF8	[HP]	[ft]
	EN 1.4308		P1 (motor+freq.converter)
	Composite PES/PP 30%	0.4 -	20
Impeller:	GF		+2
Material code:	I		
Installation:		0.2 -	10
Range of ambient temperature:			P1 (motor+freq.converter) = 309.8 W P2 = 0.335 HP
Maximum operating pressure:	PN 16 bar		NPSH = 4.28 ft
Type of connection:	ANSI	0.0 -	0
Pipe connection:	DN 40		
Pressure rating for pipe connection:	PN 16	٩	
Flange size for motor:	56C		
Connect code:	G		
Liquid:		050	
Pumped liquid:	Water		
Liquid temperature range:	-13 248 °F		227 227
Selected liquid temperature:	68 °F		t
Density:	62.29 lb/ft <sup>3</sup>		
Electrical data:			
Motor type:	71A	55 <b>(</b>	
IE Efficiency class:	IE5		t
Rated power - P2:	0.33 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 440-480 V	- <b>A</b>	
Rated current:	0.85 A		
Cos phi - power factor:	0.52		
Rated speed:	360-4000 rpm		
IE efficiency:	78.3%		
Motor efficiency at full load:	78.3 %	_	
Number of poles:	0		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	YES		E TRANSA A E TRANSA A E TRANSA Y E TRANSA Y
Motor Number:	99630334		
Controls:	000000		
		_	

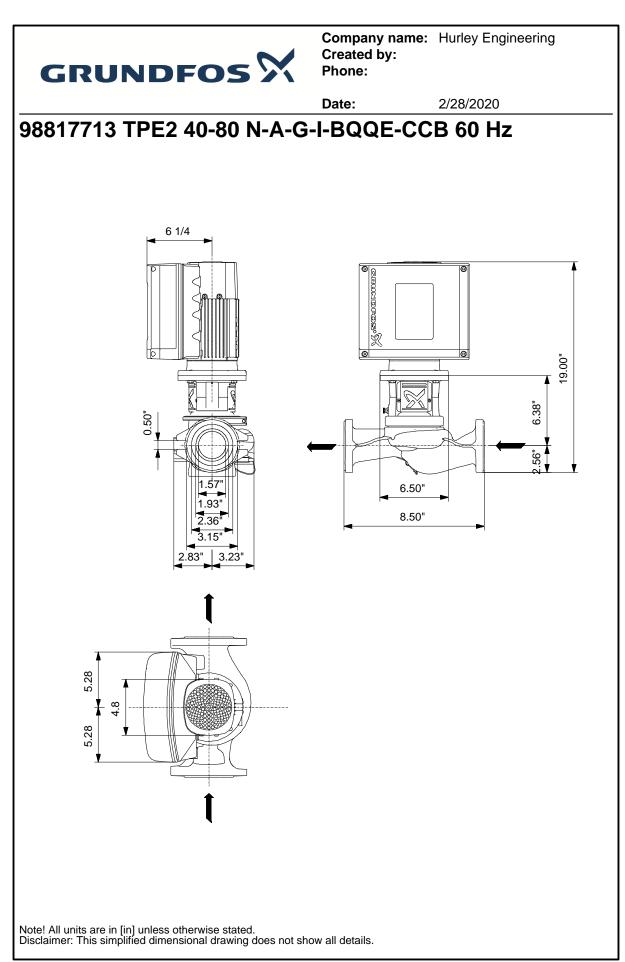
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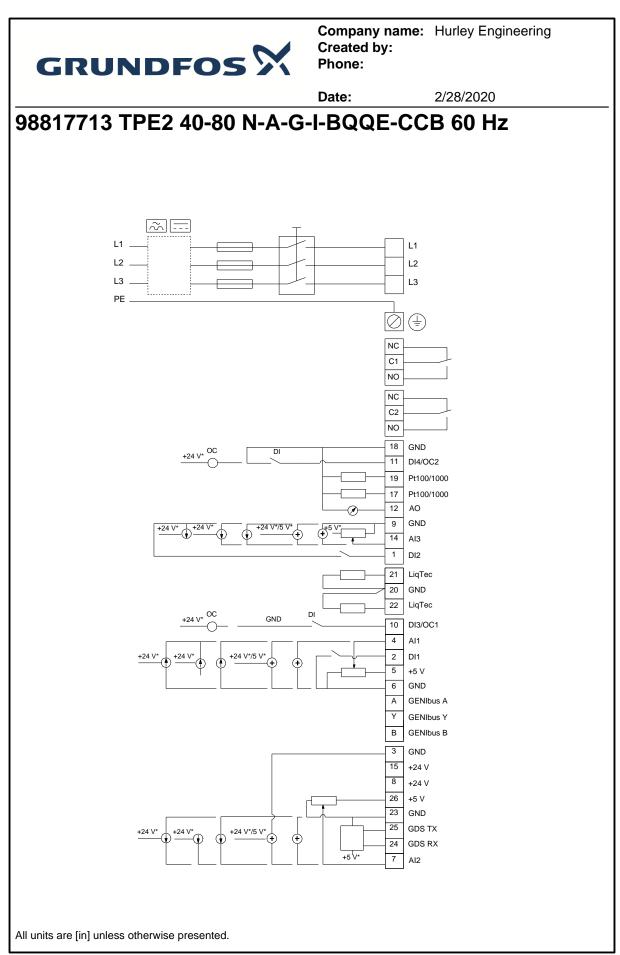


		Date:	2/28/2020
Description	Value		
Control panel:	HMI300 - Graphical	-	
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
Net weight:	50.3 lb		
Gross weight:	66.8 lb		
Config. file no:	98819250		



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2/28/2020

Date:

Product name:TPE2 40-80 N-A-G-I-BQQE-CCBAmount:1Product No.:98817713

Total: Price on request