

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:	

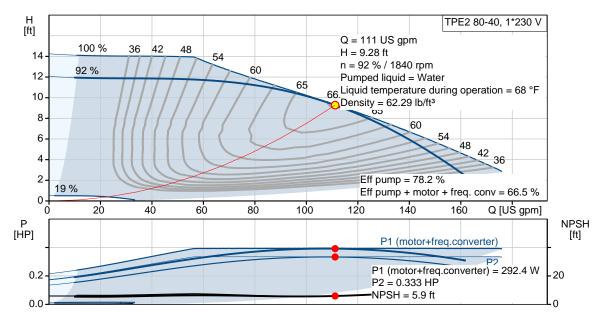


TPE2 80-40 N-A-G-A-BQQE-CAA

Single-stage in-line pumps with frequency converters

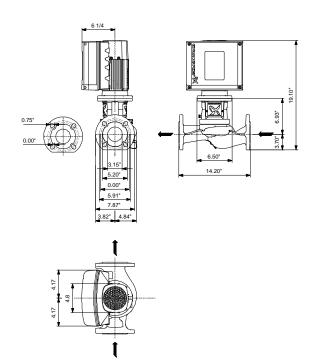
Product photo could vary from the actual product

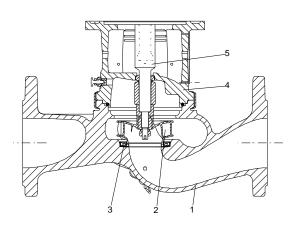
Conditions	of Service	Pump Data		Motor Da	ata
Flow:	111 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	0.33 HP
Head:	9.28 ft	Maximum ambient temperature:	122 °F	Rated voltage:	200-240 V
Efficiency:	66.5 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 80	Number of poles:	0
Temperature:	68 °F	Product number:	98817782	Enclosure class:	IP55
NPSH required:	5.9 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	71A
				Motor_efficiency:	83.4 %





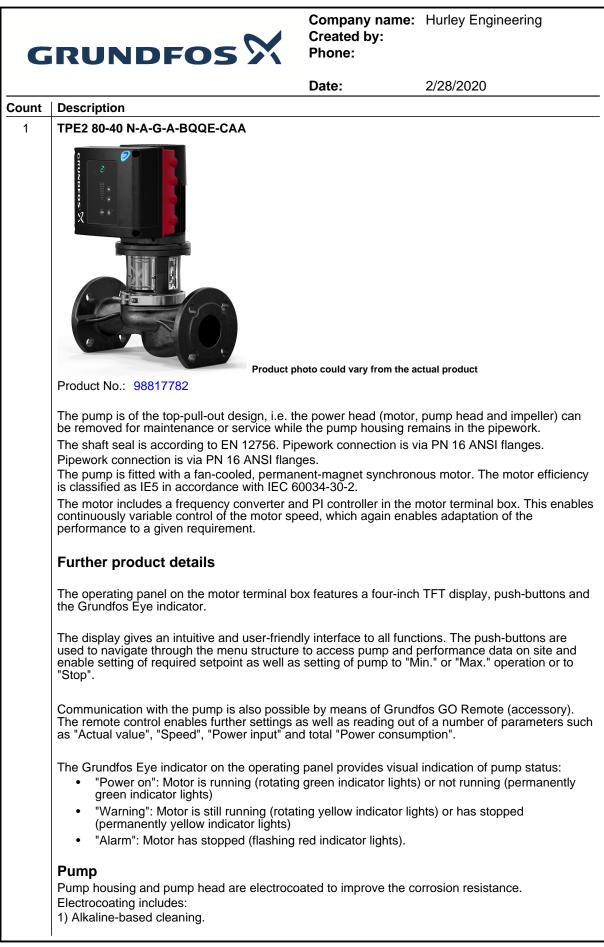
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Materials:

Pump housing:	Cast iron ASTM A48-40 B
Impeller:	Composite PES/PP 30% GF
Material code:	А

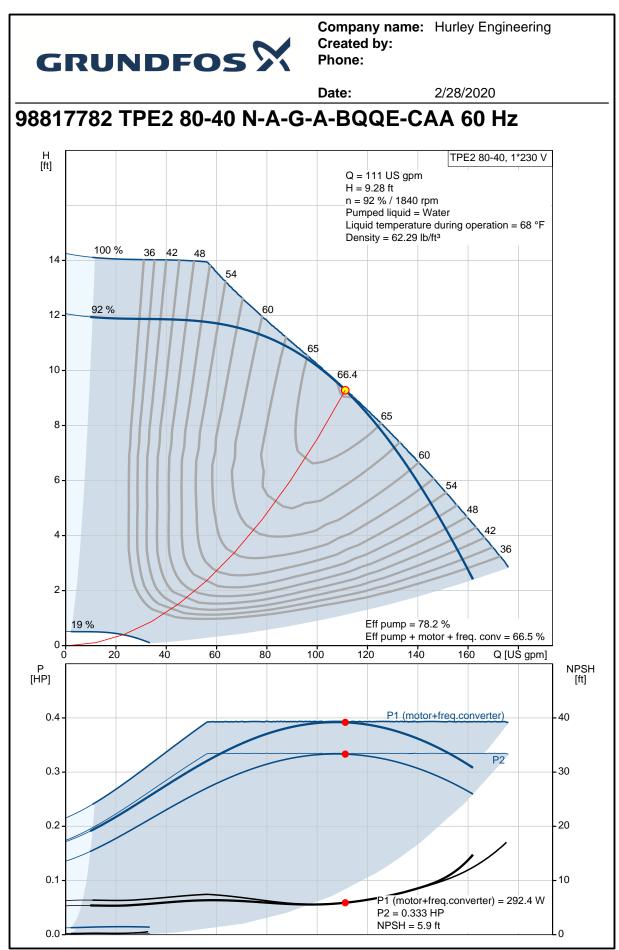




		Date:	2/28/2020
Count	Description		
	 Pretreatment with zinc phosp Cathodic electrocoating (epose) Curing of paint film at 200-250 	(y).	
	spring and around the bellows. I movement is not prevented by d	Due to the bellows, the seal of	ith torque transmission across the does not wear the shaft, and the axial
	Primary seal: • Rotating seal ring materia • Stationary seat material:	silicon carbide (SiC)	· · · ·
	this material pairing is used who this material pairing offers good Secondary seal material: EPDM EPDM has excellent resistance	resistance against abrasive (ethylene-propylene rubber)	
	A circulation of liquid through the shaft seal.	e duct of the air vent screw e	nsures lubrication and cooling of the
	Motor The motor is a totally enclosed, standards. Electrical tolerances	fan-cooled motor with princip comply with IEC 60034.	al dimensions to IEC and DIN
	The motor efficiency is classified Technical data	as IE5 in accordance with I	EC 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: Actual impeller diameter: Code for shaft seal:	111 US gpm 9.28 ft 3.54 in	
	Code for shaft seal: Curve tolerance:	BQQE ISO9906:2012 3B2	
	Materials: Pump housing:	Cast iron ASTM A48-40 B EN 1561 EN-GJL-250	
	Impeller:	Composite PES/PP 30% G	F
	Installation: Range of ambient temperature: Maximum operating pressure:	-4 122 °F PN 16 bar	



ount	Description		
	Type of connection:	ANSI	
	Pipe connection:	DN 80	
	Pressure rating for pipe conne		
	Flange size for motor:	56C	
	Thange size for motor.	566	
	Electrical data:		
	Motor type:	71A	
	IE Efficiency class:	IE5	
	Rated power - P2:	0.33 HP	
	Main frequency:	60 Hz	
	Rated voltage:	1 x 200-240 V	
	Rated current:	1.65-1.40 A	
	Cos phi - power factor:	0.95	
	Rated speed:	180-2000 rpm	
	IE efficiency:	83.4%	
		83.4 %	
	Motor efficiency at full load:	83.4 % 0	
	Number of poles:		
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor Number:	99630321	
	Others:		
	Net weight:	73.6 lb	
	Gross weight:	73.6 lb	



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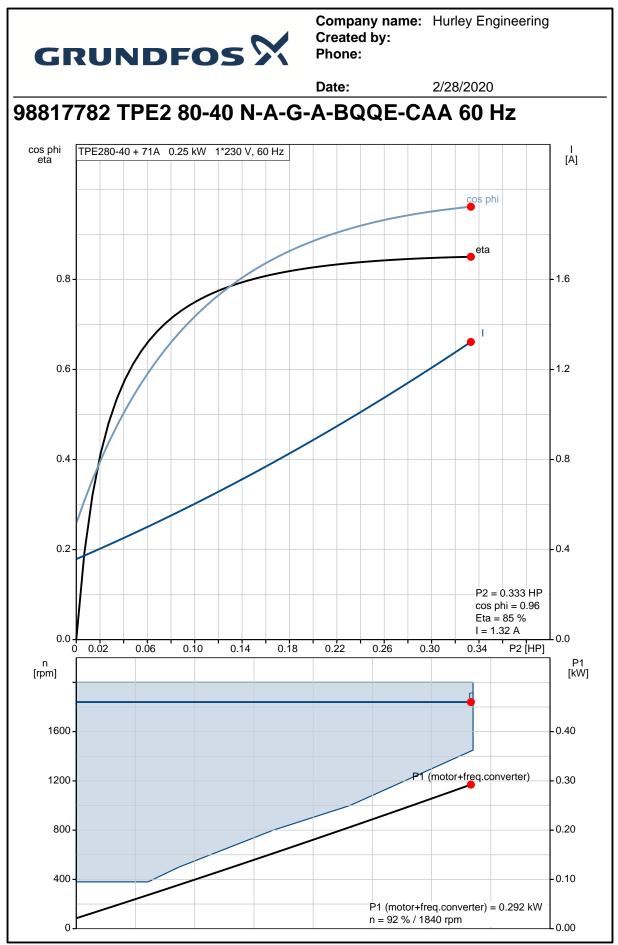


		Date:	2/28/2020
Description	Value	H [ft]	TPE2 80-40, 1*230 V
General information:	Value		Q = 111 US gpm
Product name:	TPE2 80-40 N-A-G-A-BQQE-CAA	14 -	H = 9.28 ft n = 92 % / 1840 rpm 100 [°] Pumped liquid = Water
Product No.:	98817782		Liquid temperature during operation = 68 °F Density = 62.29 lb/ft ³
EAN:	5712601811163	12 -	92 % 60
	5712601811163		65
Technical:		10 -	66.4
Pump speed on which pump data is based:	1860 rpm	8-	65
Actual calculated flow:	111 US gpm		60
Resulting head of the pump:	9.28 ft	6-	54
Head max:	13.12 ft		48
Actual impeller diameter:	3.54 in	4 -	42 36
Code for shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B2	2-	Eff pump = 78.2 %
Pump version:	A	0	$\frac{19\%}{\text{Eff pump + motor + freq. conv} = 66.5\%}$
Materials:		0-0	50 100 Q [US gpm]
Pump housing:	Cast iron	P [HP]	NPSH [ft]
	ASTM A48-40 B	[i ii]	[1]
	EN 1561 EN-GJL-250	0.4 -	P1 (motor+freq.converter)40
Impeller:	Composite PES/PP 30% GF	0.4 -	P2
Material code:	A	_	
Installation:		0.2 -	20
Range of ambient temperature:	-4 122 °F		P1 (motor+freq.converter) = 292.4 W P2 = 0.333 HP NPSH = 5.9 ft
Maximum operating pressure:	PN 16 bar	0.0	
Type of connection:	ANSI		
Pipe connection:	DN 80		<u>a 514 a</u>
Pressure rating for pipe connection:	PN 16		
Flange size for motor:	56C		
Connect code:	G		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-13 248 °F		227 4.64
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³	5	
Electrical data:		11 ⁴	
Motor type:	71A		t
IE Efficiency class:	IE5		
Rated power - P2:	0.33 HP		
Main frequency:	60 Hz		
Rated voltage:	1 x 200-240 V		<u> </u>
Rated current:	1.65-1.40 A		
Cos phi - power factor:	0.95		
Rated speed:	180-2000 rpm		
IE efficiency: Motor efficiency at full load:	83.4% 83.4 %	F	
Number of poles:	83.4 % 0		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F	e	
Motor protection:	YES		V 1 400ms v 3 00ms k 1 00m 1 000
Motor Number:	99630321		
	55050021		

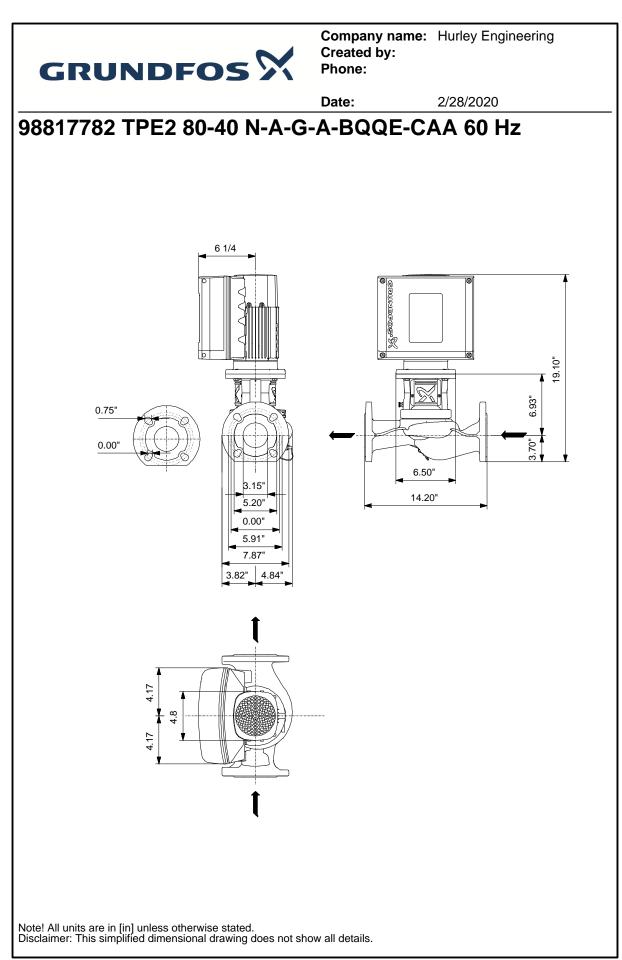
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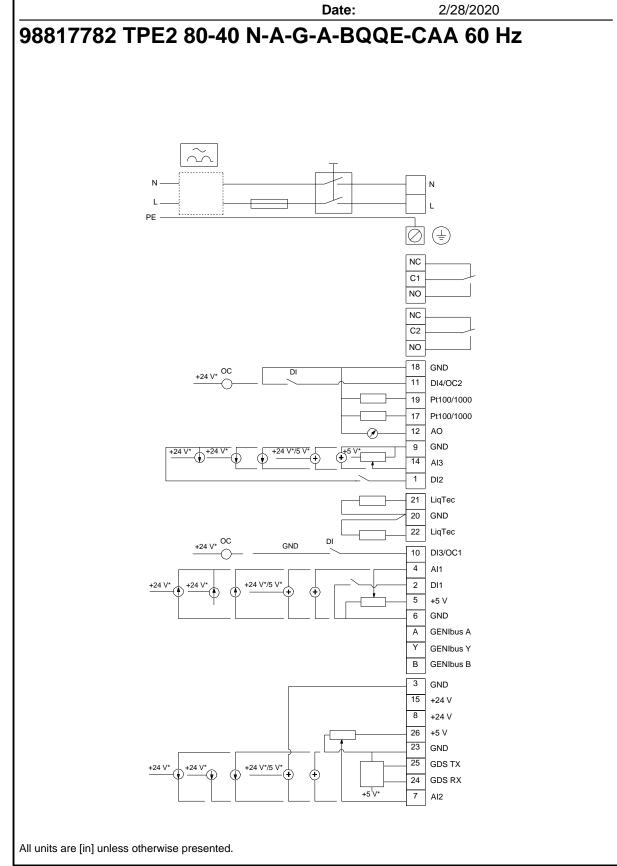
		Date:	2/28/2020	
Description	Value			
Controls:				
Control panel:	HMI300 - Graphical			
Function Module:	FM300 - Advanced			
Frequency converter:	Built-in			
Others:				
Net weight:	73.6 lb			
Gross weight:	73.6 lb			
Config. file no:	98819184			



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Date:	2/28/2020

Order Data:

Product name: TPE2 80-40 N-A-G-A-BQQE-CAA Amount: 1 Product No.: 98817782

Total: Price on request