

## 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:	

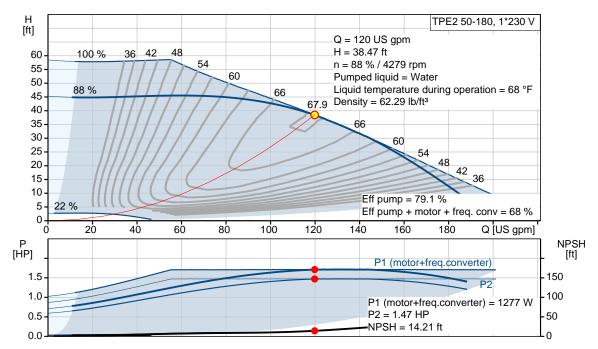


### TPE2 50-180 N-A-G-I-BQQE-GAC

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

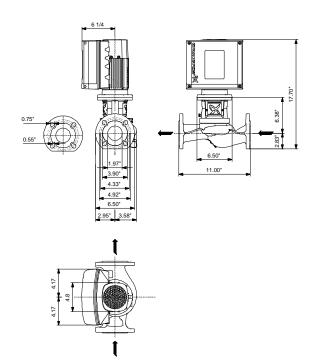
Product photo could vary from the actual product

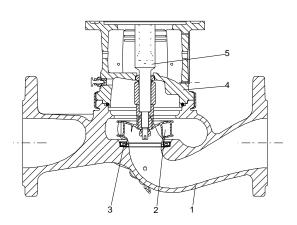
Conditions	of Service	Pump Data		Motor Da	ata
Flow:	120 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	1.5 HP
Head:	38.47 ft	Maximum ambient temperature:	122 °F	Rated voltage:	200-240 V
Efficiency:	68 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 50	Number of poles:	0
Temperature:	68 °F	Product number:	98817731	Enclosure class:	IP55
NPSH required:	14.21 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	80A
				Motor_efficiency:	85.7 %





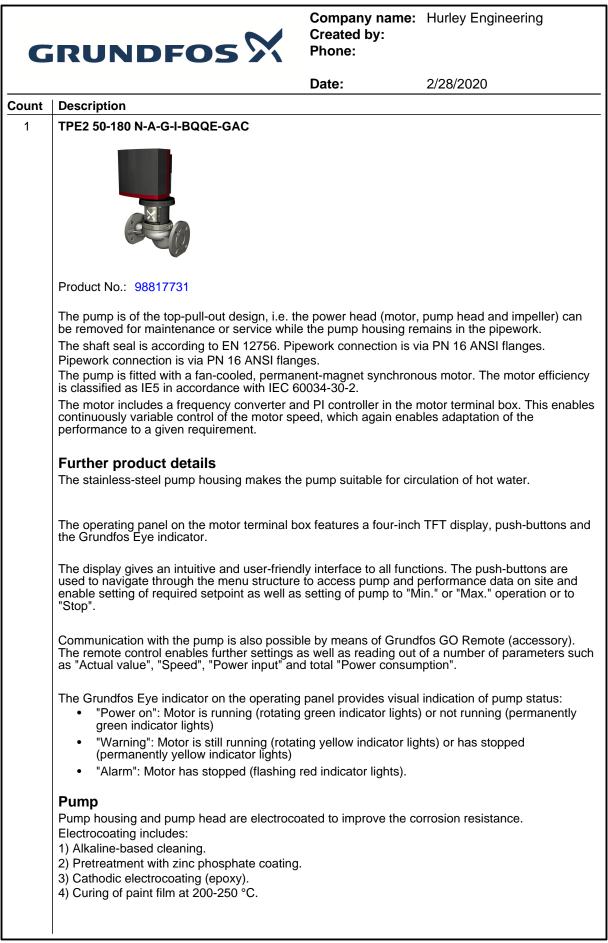
# Submittal Data





#### Materials:

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

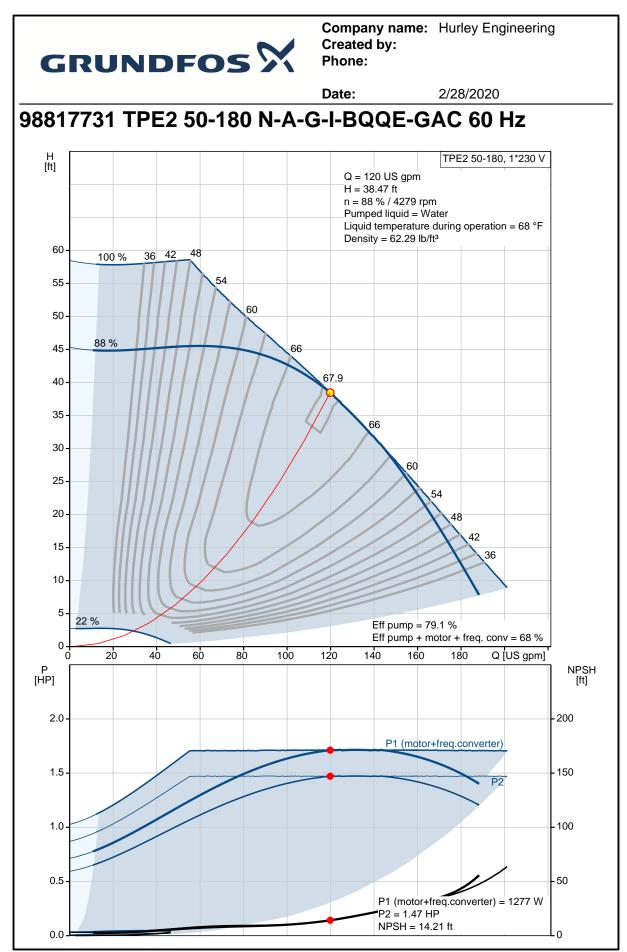


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			Date:	2/28/2020
ount	Description			
	The pump is fitted with an unbal spring and around the bellows. I movement is not prevented by d	Due to the be	llows, the seal	with torque transmission across the I does not wear the shaft, and the axia
	Primary seal: • Rotating seal ring materia	al: silicon carl	oide (SiC)	
	this material pairing offers good	ere higher co resistance aç	rrosion resista gainst abrasive	•
	Secondary seal material: EPDM EPDM has excellent resistance			,
	A circulation of liquid through the shaft seal.	e duct of the	air vent screw	ensures lubrication and cooling of the
	Motor			
	The motor is a totally enclosed, standards. Electrical tolerances	fan-cooled m comply with	otor with princ EC 60034.	ipal 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:	Built-in		
	Frequency converter:	Duiit-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:	120 US gpn 38.47 ft	٦	
	Actual impeller diameter:	2.91 in		
	Code for shaft seal:	BQQE		
	Curve tolerance:	ISO9906:20	12 3B2	
	Materials:			
	Pump housing:	Stainless st	eel	
		ASTM CF8 EN 1.4308		
	Impeller:		PES/PP 30% (	GF
	Installation:			
	Range of ambient temperature:			
	Maximum operating pressure:	PN 16 bar		
	Type of connection: Pipe connection:	ANSI DN 50		
	Pressure rating for pipe connect			
	Flange size for motor:	56C		
	Electrical data:			



		Date:	2/28/2020
Count	Description		
	Motor 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):	80A IE5 1.5 HP 60 Hz 1 x 200-240 V 6.80-5.70 A 0.99 480-5900 rpm 85.7% 85.7 % 0 IP55 F 99630341	
	Motor Number: Others: DOE Pump Energy Index VL: Net weight: Gross weight:	99630341 0.40 57.3 lb 57.3 lb	



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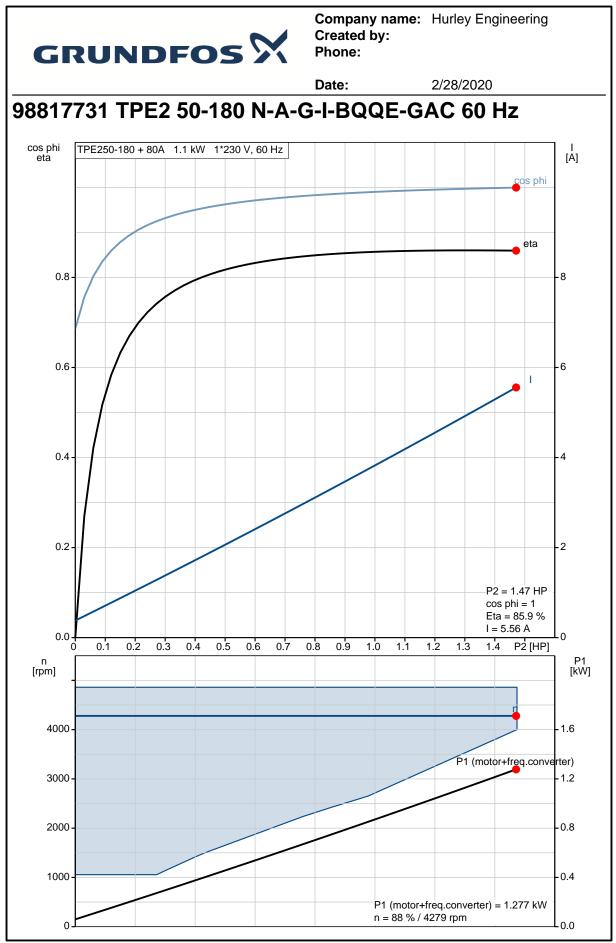
# Company name: Hurley Engineering Created by: Phone:

		Date:	2/28/2020
Description	Value	— H [ft]	TPE2 50-180, 1*230 V
General information:			Q = 120 US gpm
Product name:	TPE2 50-180 N-A-G-I-BQQE-GAC	60 -	H = 38.47 ft n = 88 % / 4279 rpm 100Pumped liquid = Water
Product No.:	98817731	55 <b>-</b>	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft <sup>3</sup>
EAN:	5712601810234	50 -	60
	5712601810234	45 -	88 % 66
Technical:		40 -	67.9
Pump speed on which pump data is based:	4360 rpm	40 <b>-</b> 35 <b>-</b>	66
Actual calculated flow:	120 US gpm	30 -	60
Resulting head of the pump:	38.47 ft	25 -	54
Head max:	59.06 ft	20 -	48
Actual impeller diameter:	2.91 in	15 -	42
Code for shaft seal:	BQQE	10 -	50
Curve tolerance:	ISO9906:2012 3B2	5-	Eff pump = $70.1\%$
Pump version:	А		22 % Eff pump = 79.1 % Eff pump + motor + freq. conv = 68 %
Materials:		0-0	50 100 150 Q [US gpm]
Pump housing:	Stainless steel	P [HP]	NPSH
	ASTM CF8		[ft] - 200
	EN 1.4308		P1 (motor+freq.converter)
Impeller:	Composite PES/PP 30% GF	1.5 -	P2 150
Material code:		1.0 -	100
Installation:			
Range of ambient temperature:	-4 122 °F	0.5 -	P1 (motor+freq.converter) = 1277 W - 50 P2 = 1.47 HP NPSH = 14.21 ft
Maximum operating pressure:	PN 16 bar	0.0	
Type of connection:	ANSI		
Pipe connection:	DN 50		<del>1 514 - 1</del>
Pressure rating for pipe connection:	PN 16		
Flange size for motor:	56C		
Connect code:	G	<u></u>	
Liquid:			
Pumped liquid:	Water		<u>137</u> <u>497</u> 637
Liquid temperature range:	-13 248 °F		
Selected liquid temperature:			
Density:	62.29 lb/ft <sup>3</sup>	417	
Electrical data:	004	4.17	
Motor type:	80A		t
IE Efficiency class:	IE5		
Rated power - P2:	1.5 HP		
Main frequency:	60 Hz		
Rated voltage:	1 x 200-240 V		<u>l ⊢ — L'I — L</u> I Ø©
Rated current:	6.80-5.70 A		
Cos phi - power factor:	0.99 480 5000 rpm		
Rated speed:	480-5900 rpm		
IE efficiency: Motor officiency at full load:	85.7%	2	
Motor efficiency at full load:	85.7 % 0		
Number of poles:			
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	YES		
Motor Number:	99630341		

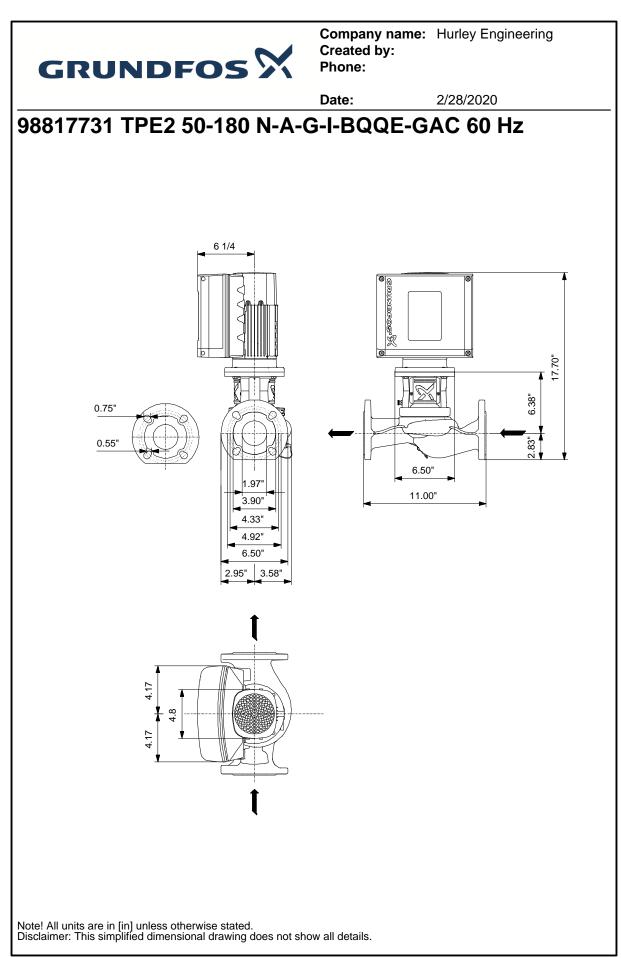
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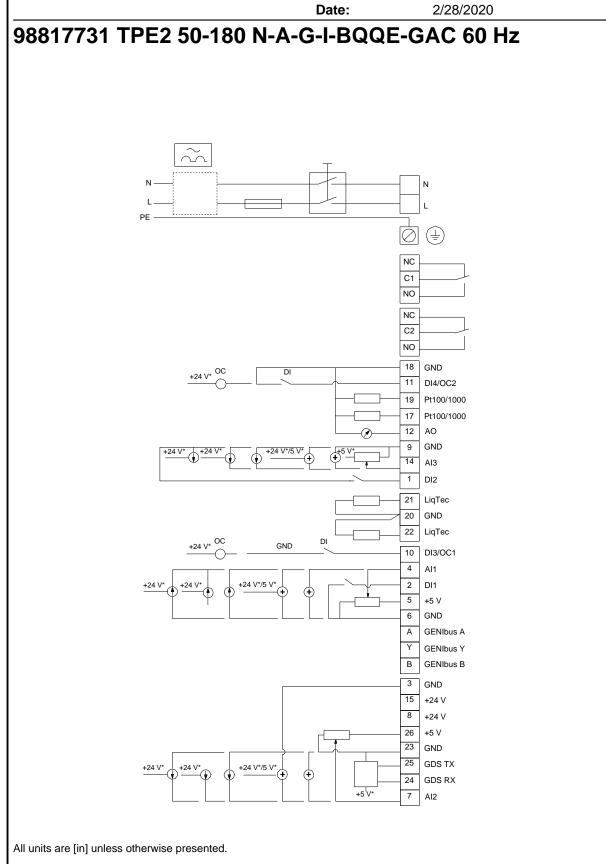
		Date:	2/28/2020
Description	Value		
Controls:		-	
Control panel:	HMI300 - Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
DOE Pump Energy Index VL:	0.40		
Net weight:	57.3 lb		
Gross weight:	57.3 lb		
Config. file no:	98819177		



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2/28/2020

Date:

Order Data:
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Product name: TPE2 50-180 N-A-G-I-BQQE-GAC Amount: 1 Product No.: 98817731

Total: Price on request