

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:	

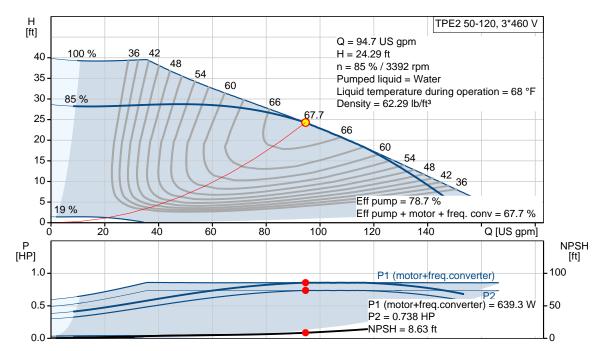


TPE2 50-120 N-A-G-I-BQQE-ECB

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

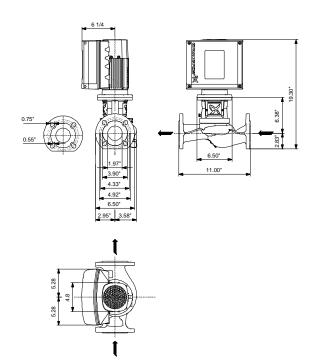
Product photo could vary from the actual product

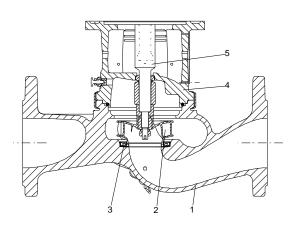
Conditions of Service		Pump Data		Motor Data	
Flow:	94.7 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	0.75 HP
Head:	24.29 ft	Maximum ambient temperature:	122 °F	Rated voltage:	440-480 V
Efficiency:	67.7 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 50	Number of poles:	0
Temperature:	68 °F	Product number:	98817742	Enclosure class:	IP55
NPSH required:	8.63 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	71A
				Motor_efficiency:	85.7 %





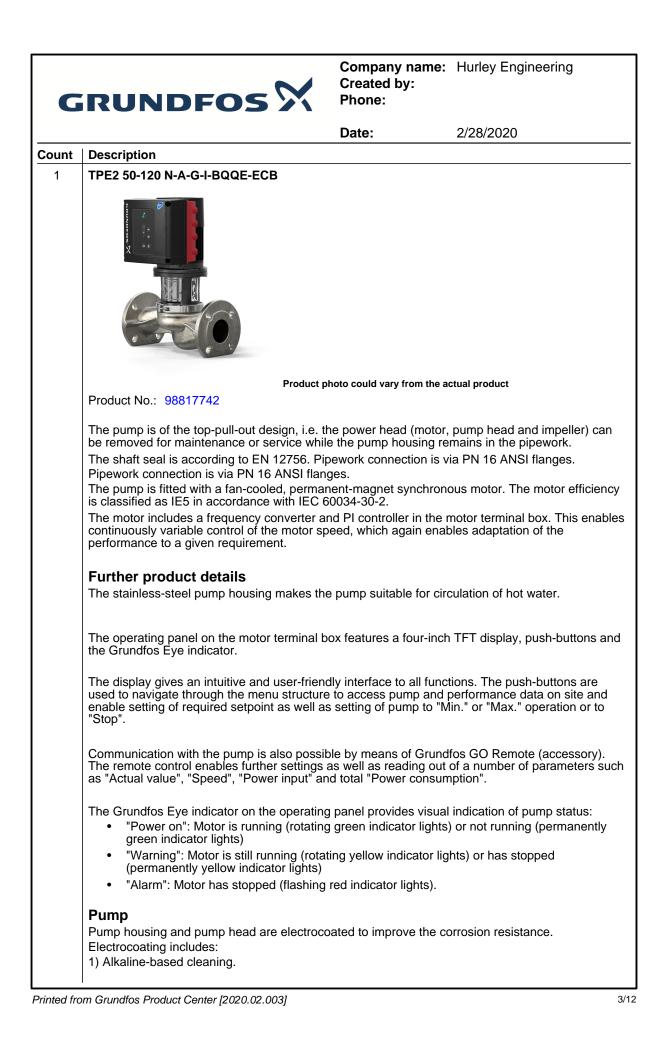
Submittal Data





Materials:

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

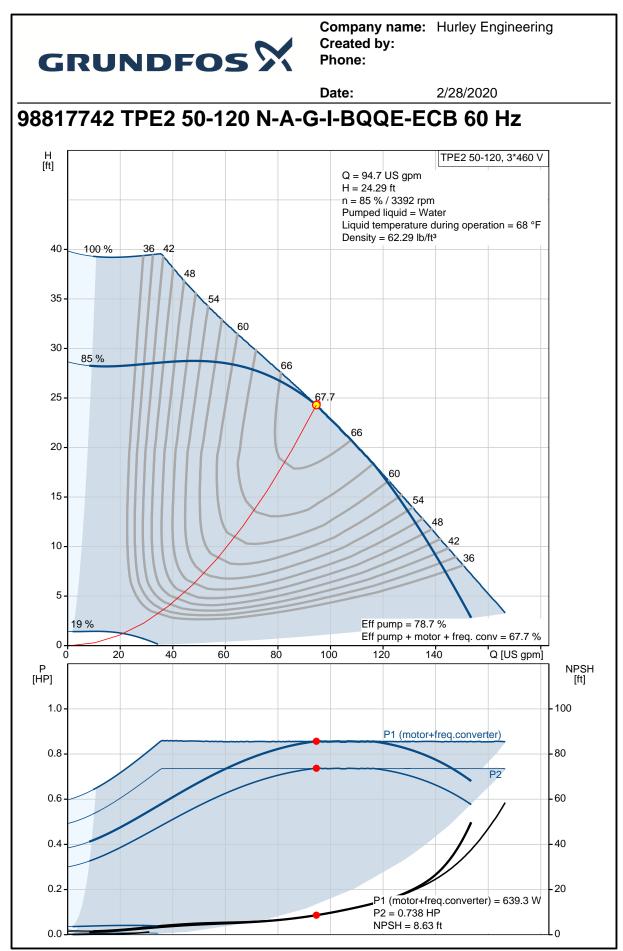




		Date:	2/28/2020
Count	Description		
	 Pretreatment with zinc phosp Cathodic electrocoating (epox Curing of paint film at 200-250 	(y).	
	spring and around the bellows. I movement is not prevented by d	Due to the bellows, the sea	l with torque transmission across the al does not wear the shaft, and the axial
	Primary seal: • Rotating seal ring material • Stationary seat material:	silicon carbide (SiC)	and is required. The high hardware of
	 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 duct of the air vent screw ensures lubrication and cooling of the shaft seal. 		
	Motor The motor is a totally enclosed, standards. Electrical tolerances	fan-cooled motor with prin comply with IEC 60034.	cipal dimensions to IEC and DIN
	The motor efficiency is classified Technical data	l as IE5 in accordance wit	h 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: Actual impeller diameter: Code for shaft seal: Curve tolerance:	a is based: 3430 rpm 94.7 US gpm 24.29 ft 2.91 in BQQE ISO9906:2012 3B2	
	Materials: Pump housing:	Stainless steel ASTM CF8	
	Impeller:	EN 1.4308 Composite PES/PP 30%	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 50	
	Pressure rating for pipe connect		
	Flange size for motor:	56C	
		000	
	Electrical data:		
	Motor type:	71A	
	IE Efficiency class:	IE5	
	Rated power - P2:	0.75 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 440-480 V	
	Rated current:	1.35 A	
	Cos phi - power factor:	0.68	
	Rated speed:	360-4000 rpm	
	IE efficiency:	85.7%	
	Motor efficiency at full load:	85.7 %	
	Number of poles:	0	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor Number:	99630336	
	Others: Net weight:	60.9 lb	
	Gross weight:	76.7 lb	



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		Date:	2/28/2020
Description	Value	— H [ft]	TPE2 50-120, 3*460 V
General information:	Tuluo .		Q = 94.7 US gpm
Product name:	TPE2 50-120 N-A-G-I-BQQE-ECB	40 -	H = 24.29 ft n = 85 % / 3392 rpm 100 %Pumped liquid = Water
Product No.:	98817742	05	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft ³
EAN:	5712601810456	35 -	60
	5712601810456	30 -	
Technical:			
Pump speed on which pump data is based:	3430 rpm	25 -	67.7
Actual calculated flow:	94.7 US gpm	20 -	
Resulting head of the pump:	24.29 ft	15 -	60
Head max:	39.37 ft	10-	48
Actual impeller diameter:	2.91 in	10 -	42
Code for shaft seal:	BQQE		500
Curve tolerance:	ISO9906:2012 3B2	5 -	Eff pump = 78.7 %
Pump version:	Α	0 -	19 % Eff pump + motor + freq. conv = 67.7 %
Materials:		-0) 50 100 Q [US gpm]
Pump housing:	Stainless steel	P [HP]	
	ASTM CF8	[· · ·]	
	EN 1.4308	1.0 -	
Impeller:	Composite PES/PP 30% GF	1.0	P1 (motor+freq.converter)
Material code:		0.5 -	YFZ /
Installation:		0.5 -	
Range of ambient temperature:	-4 122 °F	_	P1 (motor+freq.converter) = 639.3 W P2 = 0.738 HP NPSH = 8.63 ft
Maximum operating pressure:	PN 16 bar	0.0 -	
Type of connection:	ANSI		
Pipe connection:	DN 50		μ <u>ε 514 μ</u>
Pressure rating for pipe connection:	PN 16		
Flange size for motor:	56C	_	
Connect code:	G		
Liquid:			
Pumped liquid:	Water		4.337 6.557
Liquid temperature range:	-13 248 °F		<u>aw</u> , aw,
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³	5.28	
Electrical data:		6.01	
Motor type:	71A		t
IE Efficiency class:	IE5		
Rated power - P2:	0.75 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 440-480 V	PE PE	
Rated current:	1.35 A		
Cos phi - power factor:	0.68		
Rated speed:	360-4000 rpm		
IE efficiency:	85.7%		
Motor efficiency at full load:	85.7 %		
Number of poles:	0		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		I BRMAN I GOC II OV
Motor protection:	YES		
Motor Number:	99630336		<u>ŢŢŢŢŢĹĹġ</u> ġġĸ

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NPSH [ft]

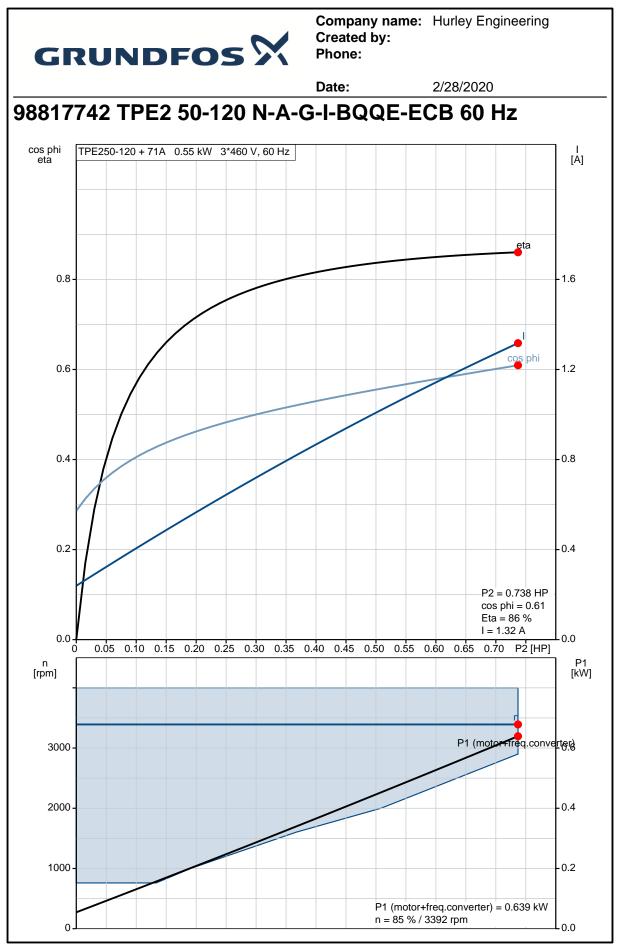
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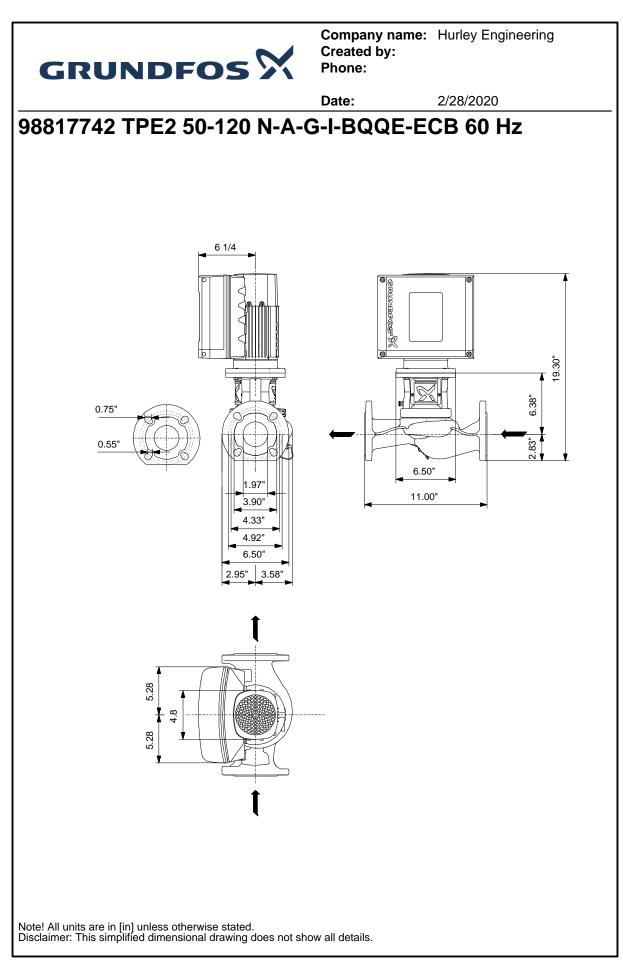
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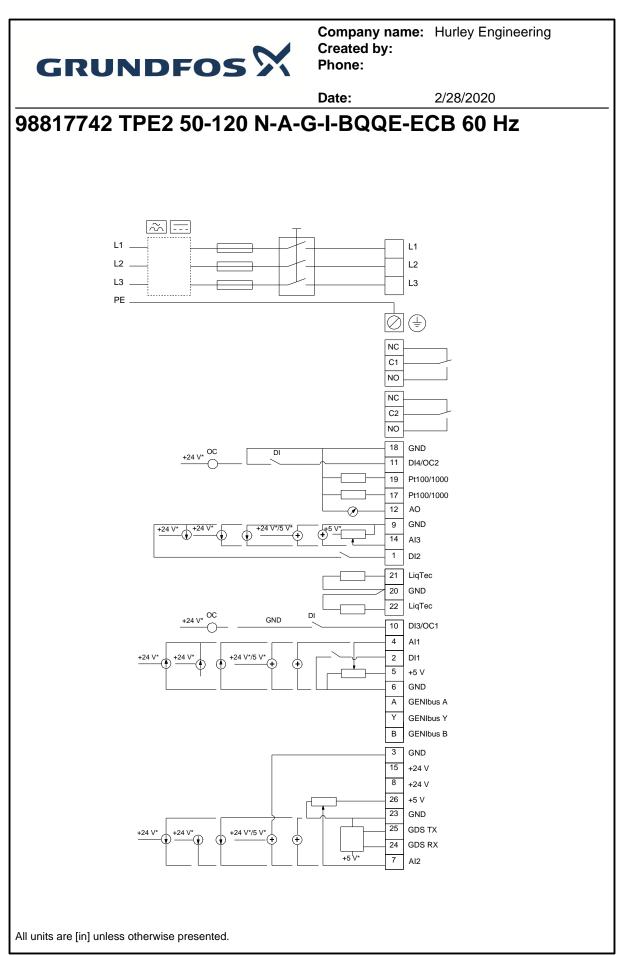
		Date:	2/28/2020
Description	Value		
Controls:			
Control panel:	HMI300 - Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
Net weight:	60.9 lb		
Gross weight:	76.7 lb		
Config. file no:	98819285		



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2/28/2020

Date:

Order	Data:
0.00	Pata.

Product name: TPE2 50-120 N-A-G-I-BQQE-ECB Amount: 1 Product No.: 98817742

Total: Price on request