

## 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:	

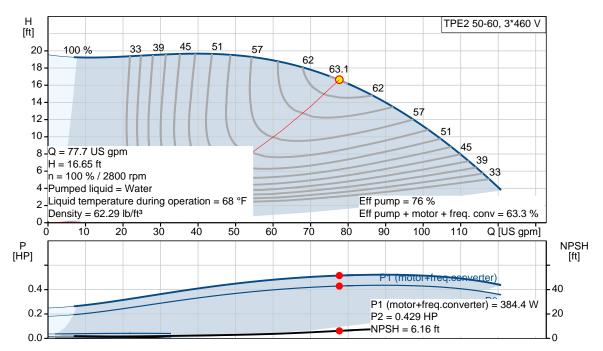


### TPE2 50-60 N-A-G-I-BQQE-DCB

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

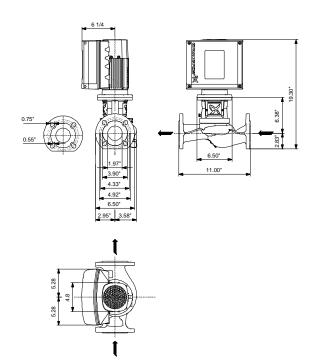
Product photo could vary from the actual product

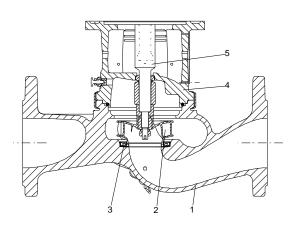
Conditions of Service		Pump Data		Motor Data	
Flow:	77.7 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	0.5 HP
Head:	16.65 ft	Maximum ambient temperature:	122 °F	Rated voltage:	440-480 V
Efficiency:	63.3 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 50	Number of poles:	0
Temperature:	68 °F	Product number:	98817739	Enclosure class:	IP55
NPSH required:	6.16 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	71A
				Motor_efficiency:	82.9 %





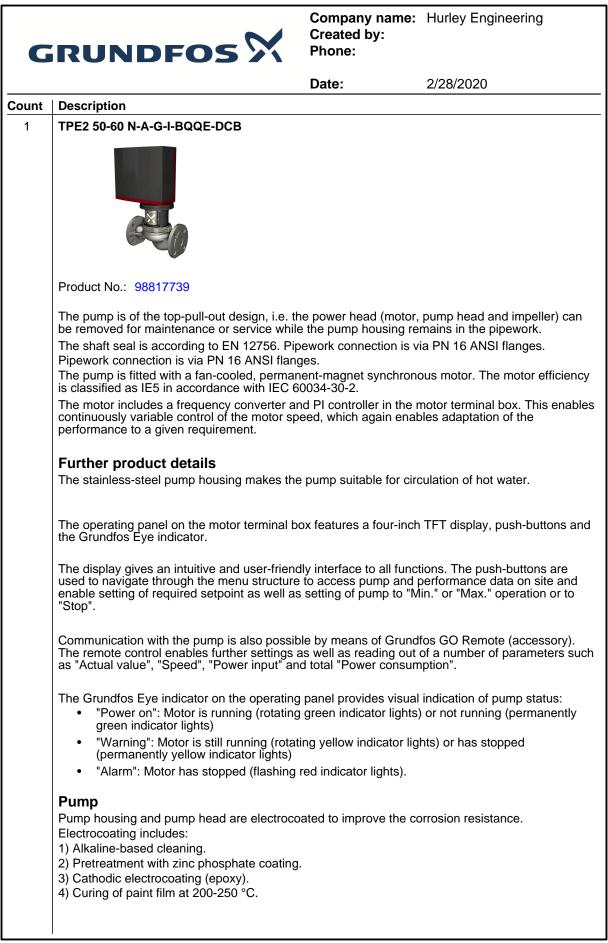
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#### Materials:

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

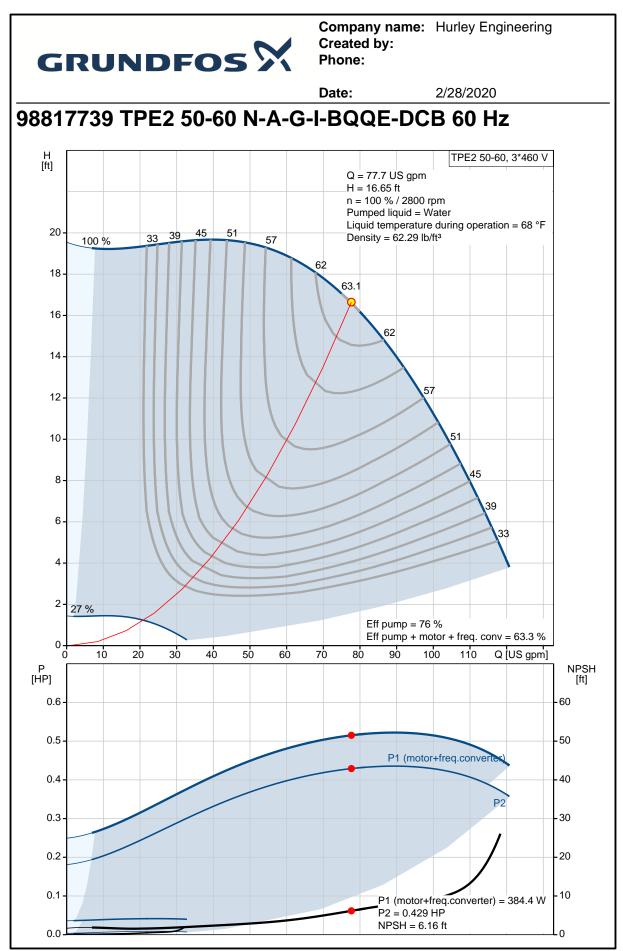


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			Date:	2/28/2020		
Count	Description					
	The pump is fitted with an unbal spring and around the bellows. I movement is not prevented by d	Due to the be	llows, the seal	with torque transmission across the does not wear the shaft, and the axia		
	<ul> <li>Primary seal:</li> <li>Rotating seal ring material: silicon carbide (SiC)</li> <li>Stationary seat material: silicon carbide (SiC)</li> </ul>					
		ere higher co resistance ag	rrosion resista jainst abrasive	•		
	EPDM has excellent resistance	· · ·		,		
	A circulation of liquid through the shaft seal.	e duct of the a	air vent screw	ensures lubrication and cooling of the		
	Motor					
	The motor is a totally enclosed, standards. Electrical tolerances	fan-cooled m comply with I	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: Frequency converter:	Built-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:	77.7 US gpr 16.65 ft	n			
	Actual impeller diameter:	2.91 in				
	Code for shaft seal:	BQQE				
	Curve tolerance:	ISO9906:20	12 3B2			
	Materials:					
	Pump housing:	Stainless ste	eel			
		ASTM CF8 EN 1.4308				
	Impeller:		PES/PP 30% (	GF		
	Installation:					
	Range of ambient temperature:	-4 122 °F				
	Maximum operating pressure:	PN 16 bar				
	Type of connection:	ANSI				
	Pipe connection: Pressure rating for pipe connect	DN 50				
	Flange size for motor:	56C				
	Electrical data:					



		Date:	2/28/2020
Count	Description		
	Motor type:	71A IE5	
	IE Efficiency class: Rated power - P2:	0.5 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 440-480 V	
	Rated current: Cos phi - power factor:	1.05 A 0.60	
	Rated speed:	360-4000 rpm	
	IE efficiency:	82.9%	
	Motor efficiency at full load: Number of poles:	82.9 % 0	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor Number:	99630335	
	Others: Net weight:	60.9 lb	
	Gross weight:	76.7 lb	



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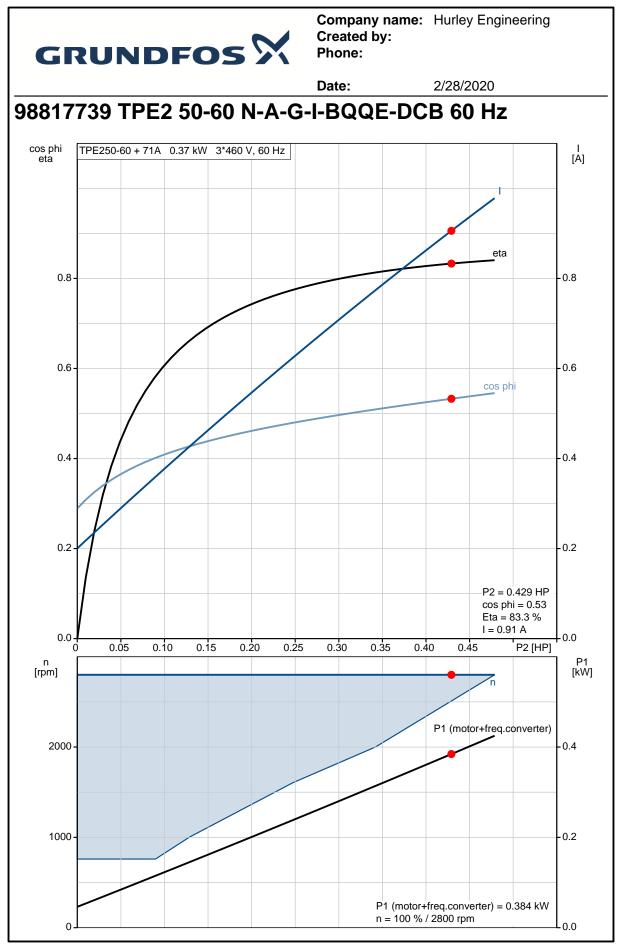


		Date:	2/28/2020
Description	Value	H [ft]	TPE2 50-60, 3*460 V
General information:	Fuido		Q = 77.7 US gpm
	TPE2 50-60	20 -	H = 16.65 ft 100 % n = 100 % / 2800 rpm
Product name:	N-A-G-I-BQQE-DCB		Pumped liquid = water
Product No.:	98817739	18 -	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft <sup>3</sup>
EAN:	5712601810401	16 -	
	5712601810401	_	62
Technical:		14 -	
Pump speed on which pump data is based:	2500 rpm	12 -	57
Actual calculated flow:	77.7 US gpm	- 10 -	
Resulting head of the pump:	16.65 ft	8-	45
Head max:	19.69 ft		39
Actual impeller diameter:	2.91 in	6-	33
Code for shaft seal:	BQQE	4 -	
Curve tolerance:	ISO9906:2012 3B2		
Pump version:	A	2-2	Eff pump = 76 % Eff pump + motor + freq. conv = $63.3$ %
Materials:		- o+	
Pump housing:	Stainless steel	0 P	20 40 60 80 Q [US gpm]
	ASTM CF8	[HP]	[ft]
	EN 1.4308	0.6 -	60
	Composite PES/PP 30%	_	
Impeller: Material code:	GF	0.4 -	PT (motor+freq.convertex) 40
	I		P2
Installation:	4 400 %	0.2	20
Range of ambient temperature:	-4 122 °F	_	P1 (motor+freq.converter) = 384.4 W P2 = 0.429 HP
Maximum operating pressure:	PN 16 bar		NPSH = 6.16 ft
Type of connection:	ANSI	4	·
Pipe connection:	DN 50		
Pressure rating for pipe connection:	PN 16		
Flange size for motor:	56C		
Connect code:	G	- u- A	
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-13 248 °F		420° 420° 530°
Selected liquid temperature:	68 °F		<u>  200   200  </u>
Density:	62.29 lb/ft <sup>3</sup>		
Electrical data:		5 5	
Motor type:	71A	6.23	
IE Efficiency class:	IE5		t
Rated power - P2:	0.5 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 440-480 V		
Rated current:	1.05 A		
Cos phi - power factor:	0.60		
Rated speed:	360-4000 rpm		
IE efficiency:	82.9%		
Motor efficiency at full load:	82.9 %		
Number of poles:	0		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	YES		1 anna r Sona a I an
Motor Number:	99630335		
Controls:			

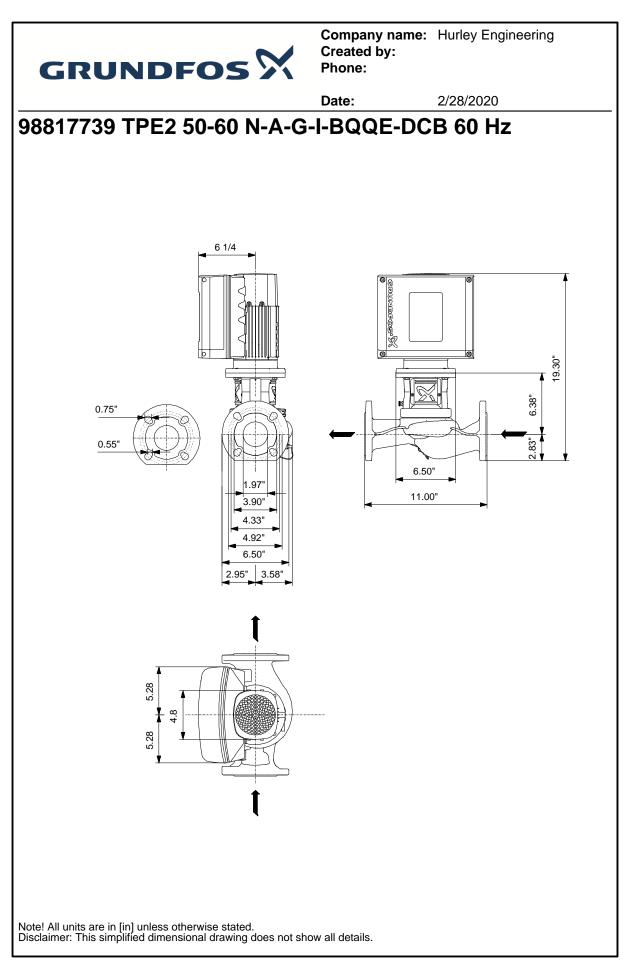
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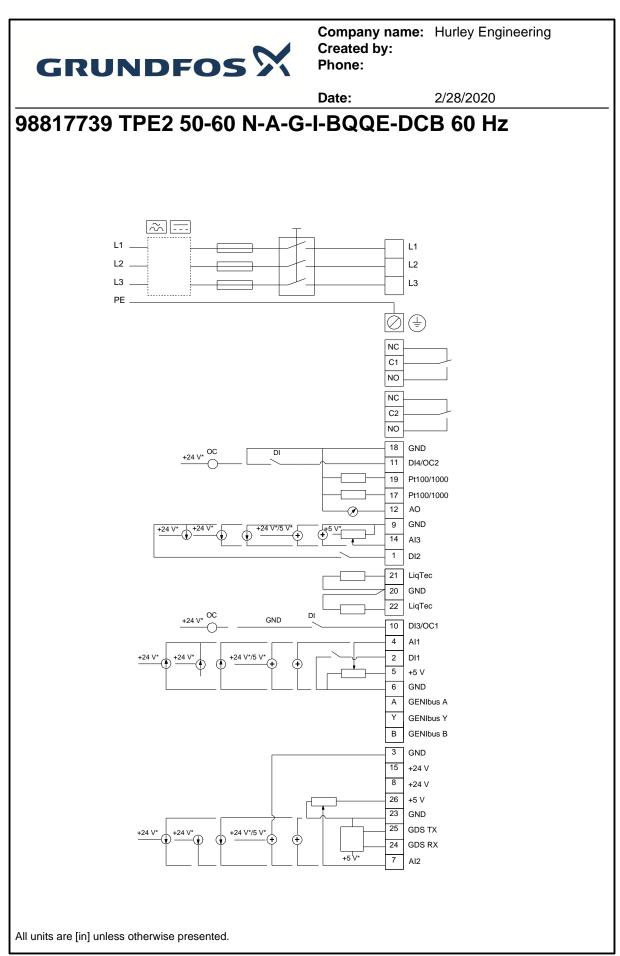
		Date:	2/28/2020
Description	Value		
Control panel:	HMI300 - Graphical	_	
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
Net weight:	60.9 lb		
Gross weight:	76.7 lb		
Config. file no:	98819257		



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2/28/2020

Date:

Order	Data:	

Product name:TPE2 50-60 N-A-G-I-BQQE-DCBAmount:1Product No.:98817739

Total: Price on request