

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:	

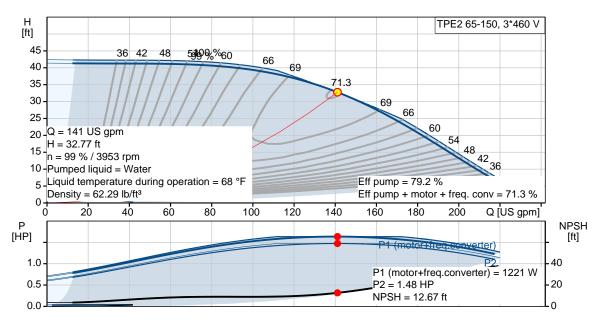


TPE2 65-150 N-A-G-A-BQQE-GCB

Single-stage in-line pumps with frequency converters

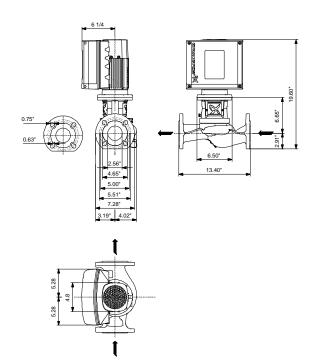
Product photo could vary from the actual product

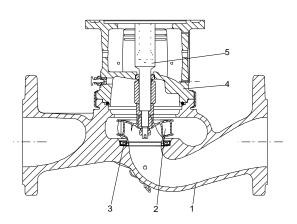
Conditions of Service		Pump Data		Motor Data	
Flow:	141 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	1.5 HP
Head:	32.77 ft	Maximum ambient temperature:	122 °F	Rated voltage:	440-480 \
Efficiency:	71.3 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 65	Number of poles:	0
Temperature:	68 °F	Product number:	98817763	Enclosure class:	IP55
NPSH required:	12.67 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	80B
				Motor_efficiency:	89.6 %





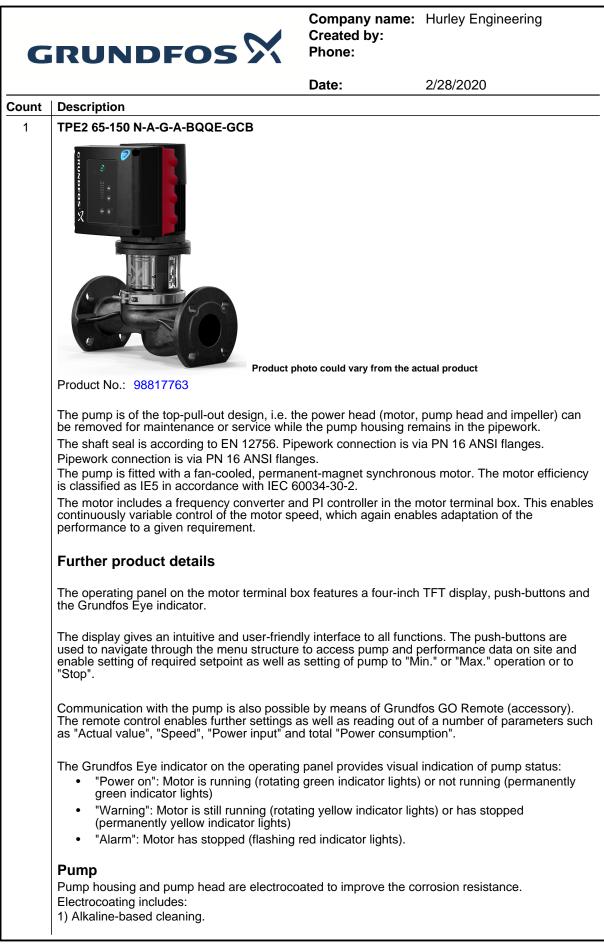
Submittal Data





Materials:

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

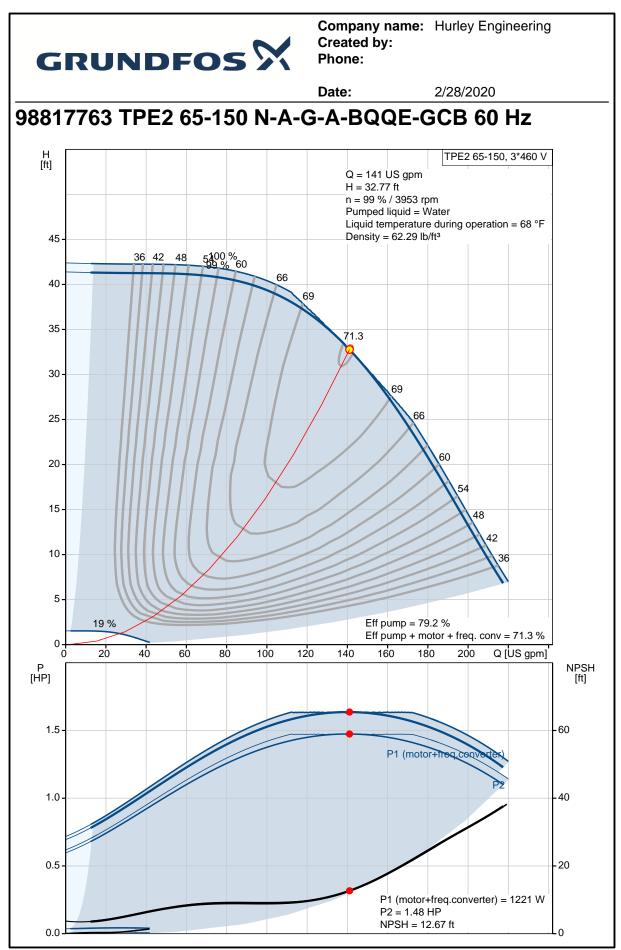




		Date:	2/28/2020			
Count	Description					
	 Pretreatment with zinc phosp Cathodic electrocoating (epose) Curing of paint film at 200-250 	(y).				
	The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axi movement is not prevented by deposits on the shaft.					
	 Primary seal: Rotating seal ring material: silicon carbide (SiC) Stationary seat material: silicon carbide (SiC) This material pairing is used where higher corrosion resistance is required. The high hardness of 					
	this material pairing offers good Secondary seal material: EPDM EPDM has excellent resistance	resistance against abrasive pa (ethylene-propylene rubber)	articles.			
	A circulation of liquid through the shaft seal.	e duct of the air vent screw en	sures lubrication and cooling of the			
	Motor The motor is a totally enclosed, standards. Electrical tolerances	fan-cooled motor with principa comply with IEC 60034.	I dimensions to IEC and DIN			
	The motor efficiency is classified Technical data	as IE5 in accordance with IE	C 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:	a is based: 4000 rpm 141 US gpm 32.77 ft 3.07 in BQQE				
	Curve tolerance:	ISO9906:2012 3B2				
	Pump housing:	Cast iron ASTM A48-40 B EN 1561 EN-GJL-250				
	Impeller:	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 65	
	Pressure rating for pipe connec		
	Flange size for motor:	56C	
	Electrical data:		
	Motor type:	80B	
	IE Efficiency class:	IE5	
	Rated power - P2:	1.5 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 440-480 V	
	Rated current:	2.05 A	
	Cos phi - power factor:	0.84	
	Rated speed:	360-4000 rpm	
	IE efficiency:	89.6%	
	Motor efficiency at full load:	89.6 %	
	Number of poles:	0	
	Enclosure class (IEC 34-5):	IP55	
		F	
	Insulation class (IEC 85):		
	Motor Number:	99630343	
	Others:		
	DOE Pump Energy Index VL:	0.39	
	Net weight:	67.5 lb	
	Gross weight:	86.7 lb	
1			



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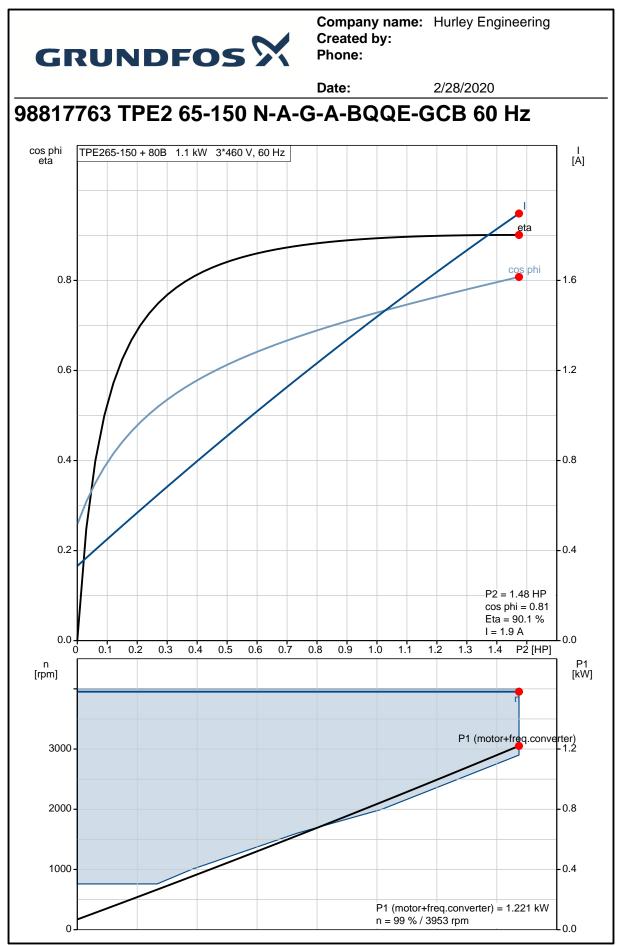


		Date:	2/28/2020
Description	Value	H [ft]	TPE2 65-150, 3*460 V
General information:			_Q = 141 US gpm H = 32.77 ft
Product name:	TPE2 65-150	45 -	n = 99 % / 3953 rpm
Product No.:	N-A-G-A-BQQE-GCB		Pumped liquid = Water Liquid temperature during operation = 68 °F
EAN:	98817763	40 -	Density = 62.29 lb/ft ³
EAN.	5712601810968 5712601810968	35 -	71.3
Technical:	5712001010900		
Pump speed on which pump data is based:	4000 rpm	30 - 25 -	69 66
Actual calculated flow:	141 US gpm		60
Resulting head of the pump:	32.77 ft	20-	54
Head max:	49.22 ft	15 -	48
Actual impeller diameter:	3.07 in	_	42
Code for shaft seal:	BQQE	10-	36
Curve tolerance:	ISO9906:2012 3B2	5-	W
Pump version:	A	19 %	Eff pump = 79.2 % Eff pump + motor + freq. conv = 71.3 %
Materials:		- 0	50 100 150 Q [US gpm]
Pump housing:	Cast iron	P	NPSH
	ASTM A48-40 B	[HP]	[ft]
	EN 1561 EN-GJL-250	1.5 -	-60
Impeller:	Composite PES/PP 30% GF	1.0 -	P1 (motor+freq.converter) P2 40
Material code:	A	1.0	+0
Installation:		_	
Range of ambient temperature:	-4 122 °F	0.5 -	P1 (motor+freq.converter) = 1221 W P2 = 1.48 HP NPSH = 12.67 ft
Maximum operating pressure:	PN 16 bar	0.0	0
Type of connection:	ANSI		
Pipe connection:	DN 65	5 14	
Pressure rating for pipe connection:	PN 16		
Flange size for motor:	56C		
Connect code:	G		
Liquid:			
Pumped liquid:	Water	5.	
Liquid temperature range:	-13 248 °F	3.107	<u>acc</u>
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³		
Electrical data:	000	E C	Ř.
Motor type:	80B		t
IE Efficiency class:	IE5		
Rated power - P2:	1.5 HP		
Main frequency:	60 Hz		₽ <u>+</u> ====================================
Rated voltage:	3 x 440-480 V		
Rated current:	2.05 A		
Cos phi - power factor:	0.84		
Rated speed: IE efficiency:	360-4000 rpm		
Motor efficiency at full load:	89.6% 89.6 %		
Number of poles:	0		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	YES		1 0000.4 0 1 000 1 00 1 00V 1 00V
Motor Number:	99630343	ardand dama	
	0000070		

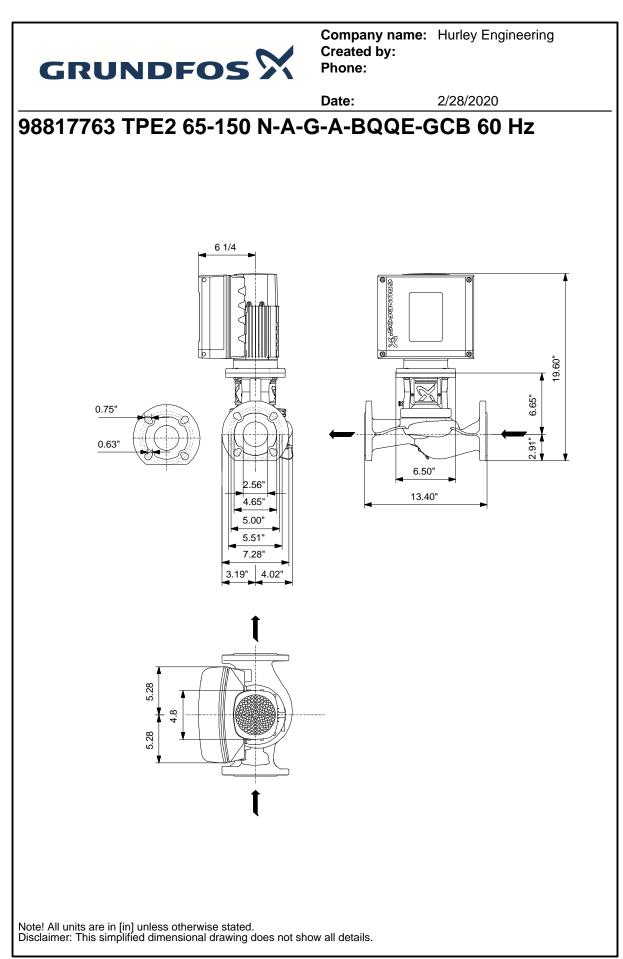
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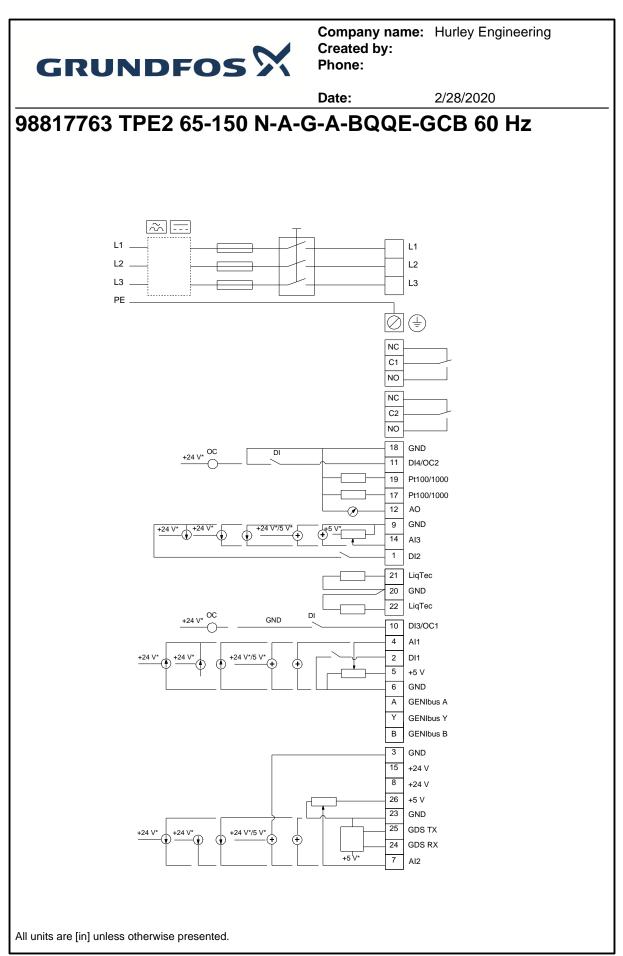


		Date:	2/28/2020	
Description	Value			
Controls:				
Control panel:	HMI300 - Graphical			
Function Module:	FM300 - Advanced			
Frequency converter:	Built-in			
Others:				
DOE Pump Energy Index VL:	0.39			
Net weight:	67.5 lb			
Gross weight:	86.7 lb			
Config. file no:	98819266			



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2/28/2020

Date:

Product name: TPE2 65-150 N-A-G-A-BQQE-GCB Amount: 1 Product No.: 98817763

Total: Price on request