

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:	

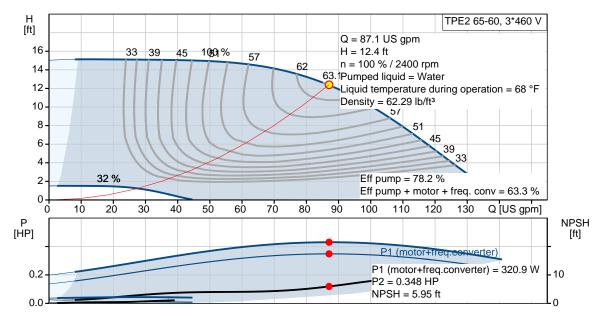


TPE2 65-60 N-A-G-A-BQQE-DCB

Single-stage in-line pumps with frequency converters

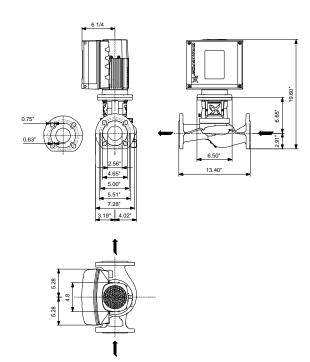
Product photo could vary from the actual product

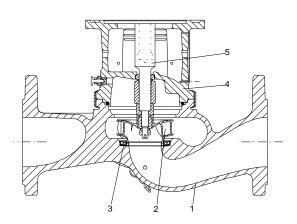
Conditions of Service		Pump Data		Motor Data	
Flow:	87.1 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	0.5 HP
Head:	12.4 ft	Maximum ambient temperature:	122 °F	Rated voltage:	440-480 \
Efficiency:	63.3 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 65	Number of poles:	0
Temperature:	68 °F	Product number:	98817758	Enclosure class:	IP55
NPSH required:	5.95 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	71A
				Motor_efficiency:	82.9 %





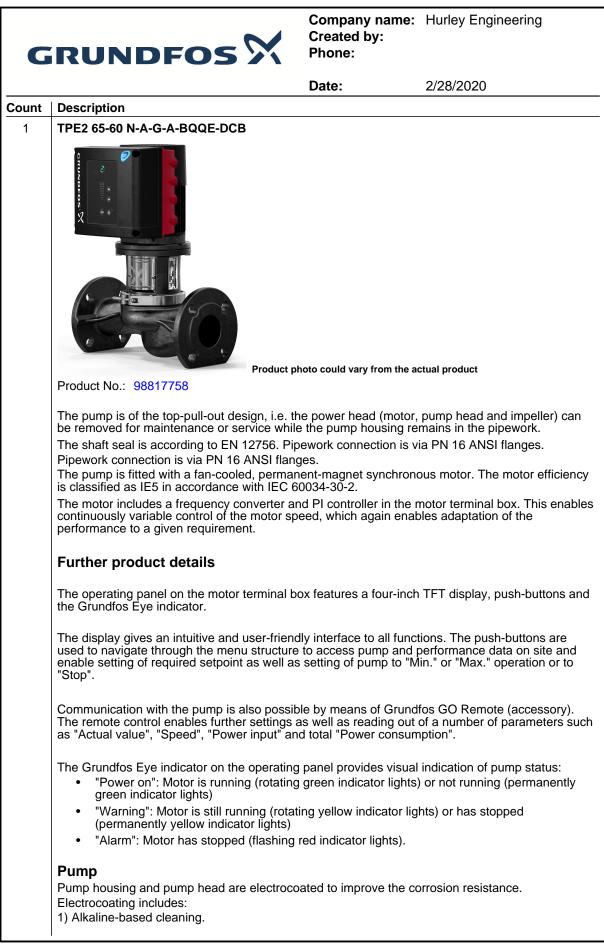
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Materials:

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

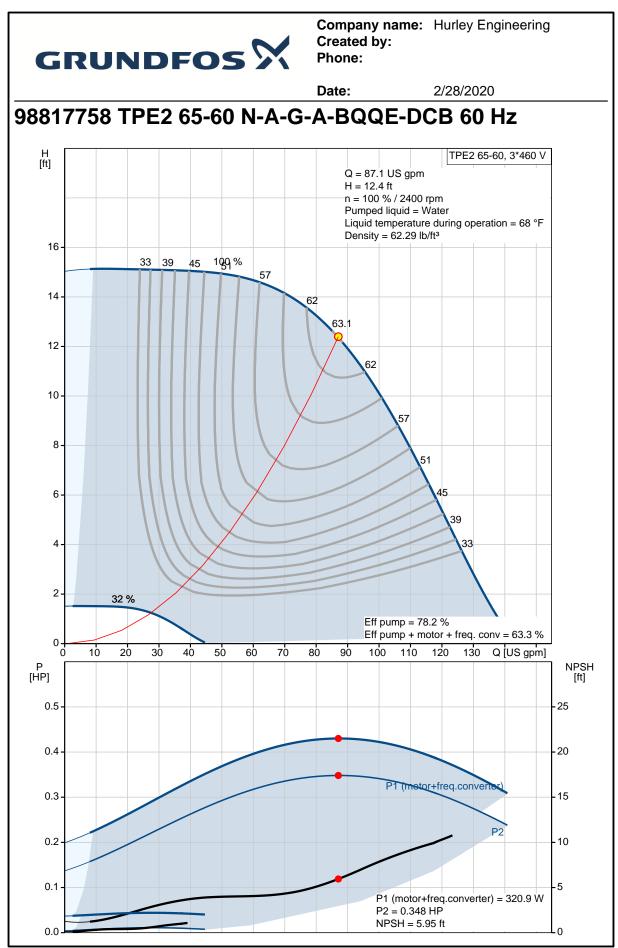




		Date:	2/28/2020	
Count	Description			
	 Pretreatment with zinc phosp Cathodic electrocoating (epo) Curing of paint film at 200-250 	(y).		
	The pump is fitted with an unbal spring and around the bellows. I movement is not prevented by d	Due to the bellows, the seal d	ith torque transmission across the loes not wear the shaft, and the axial	
	 Primary seal: Rotating seal ring material: silicon carbide (SiC) Stationary seat material: silicon carbide (SiC) 			
	This material pairing is used who this material pairing offers good Secondary seal material: EPDM	resistance against abrasive p	ce is required. The high hardness of particles.	
	EPDM has excellent resistance	to hot water. EPDM is not su	itable for mineral oils.	
	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:	Water		
	Liquid temperature range: Selected liquid temperature: Density:	-13 248 °F 68 °F 62.29 lb/ft³		
	Technical: Pump speed on which pump dat			
	Actual calculated flow: Resulting head of the pump: Actual impeller diameter:	87.1 US gpm 12.4 ft 3.07 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% GI	F	
	Installation:			
	Range of ambient temperature: Maximum operating pressure:	-4 122 °F PN 16 bar		



		Date:	2/28/2020
ount	Description		
	Type of connection:	ANSI	
	Pipe connection:	DN 65	
	Pressure rating for pipe conne		
	Flange size for motor:	56C	
		000	
	Electrical data:		
	Motor type:	71A	
	IE Efficiency class:	IE5	
	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 Number:	99630335	
	Others:		
	Net weight:	65.7 lb	
	Gross weight:	84.9 lb	



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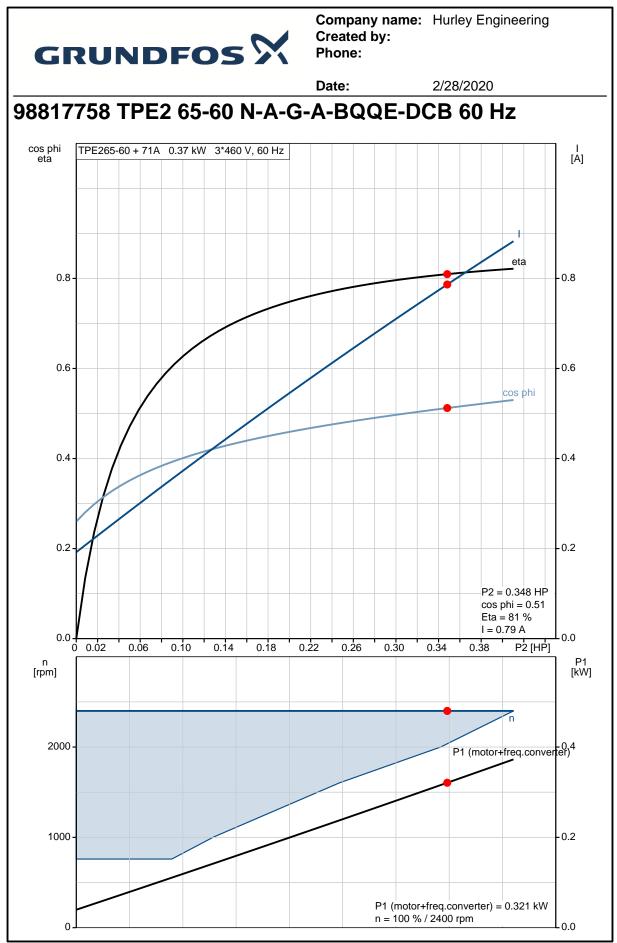


		Date:	2/28/2020
Description	Value	H [ft]	TPE2 65-60, 3*460 V
General information:	- Tuluo		Q = 87.1 US gpm
Product name:	TPE2 65-60 N-A-G-A-BQQE-DCB	16 -	H = 12.4 ft n = 100 % / 2400 rpm Pumped liquid = Water
Product No.:	98817758	-	Liquid temperature during operation = 68 °F Density = 62.29 lb/ft ³
EAN:	5712601810876	14 -	02
	5712601810876	12 -	63.1
Technical:		- 12	62
Pump speed on which pump data is based:	2400 rpm	10 -	57
Actual calculated flow:	87.1 US gpm	8-	51
Resulting head of the pump:	12.4 ft		45
Head max:	19.69 ft	6-	39
Actual impeller diameter:	3.07 in	4 -	33
Code for shaft seal:	BQQE	_	
Curve tolerance:	ISO9906:2012 3B2	2-	32 % Eff pump = 78.2 %
Pump version:	A		Eff pump + motor + freq. conv = 63.3%
Materials:		0	20 40 60 80 100 Q [US gpm]
Pump housing:	Cast iron	P	NPSH
	ASTM A48-40 B	[HP]	[ft]
	EN 1561 EN-GJL-250		
Impeller:	Composite PES/PP 30% GF	0.4 -	Pt (motor+tree-convertes)
Material code:	A	_	
Installation:		0.2	P2 10
Range of ambient temperature:	-4 122 °F	1	P1 (motor+freq.converter) = 320.9 W P2 = 0.348 HP NPSH = 5.95 ft
Maximum operating pressure:	PN 16 bar	0.0	
Type of connection:	ANSI		
Pipe connection:	DN 65		. 614 .
Pressure rating for pipe connection:	PN 16	, i i i i i i i i i i i i i i i i i i i	
Flange size for motor:	56C	a	
Connect code:	G		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-13 248 °F		<u>- 100</u>
Selected liquid temperature:	68 °F		
Density:	62.29 lb/ft ³	8	
Electrical data:		5.23	
Motor type:	71A		
IE Efficiency class:	IE5		
Rated power - P2:	0.5 HP		
Main frequency:	60 Hz		<u>= ₽</u>
Rated voltage:	3 x 440-480 V		
Rated current:	1.05 A		
Cos phi - power factor:	0.60		
Rated speed:	360-4000 rpm	Ö	
IE efficiency:	82.9%	an Barr	
Motor efficiency at full load:	82.9 %		
Number of poles:	0		
Enclosure class (IEC 34-5):	IP55	سوسو م	
Insulation class (IEC 85):	F		7 88%A7 2 88%A7 3 88%A8 3 00
Motor protection:	YES		
Motor Number:	99630335		

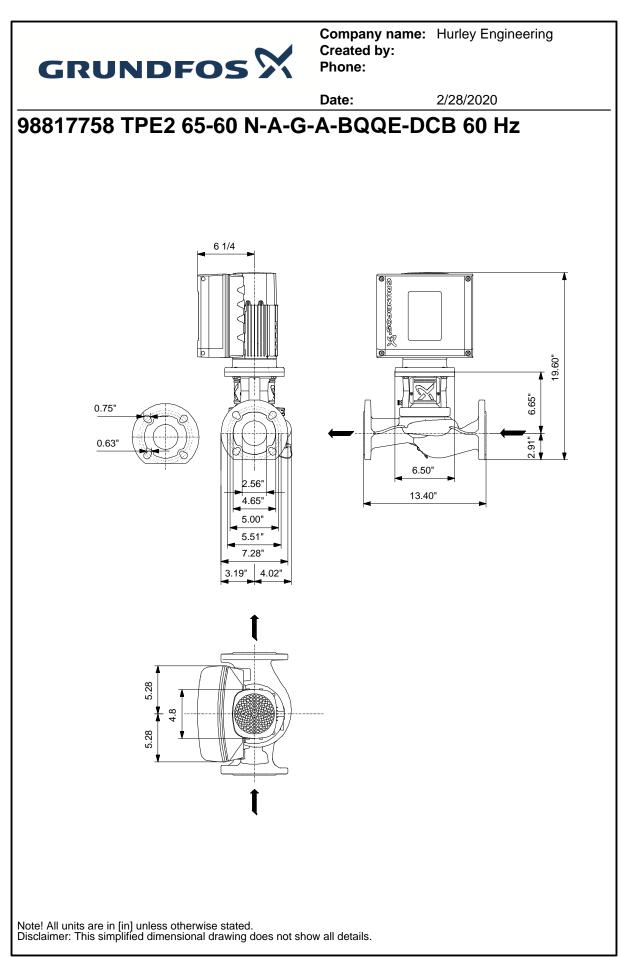
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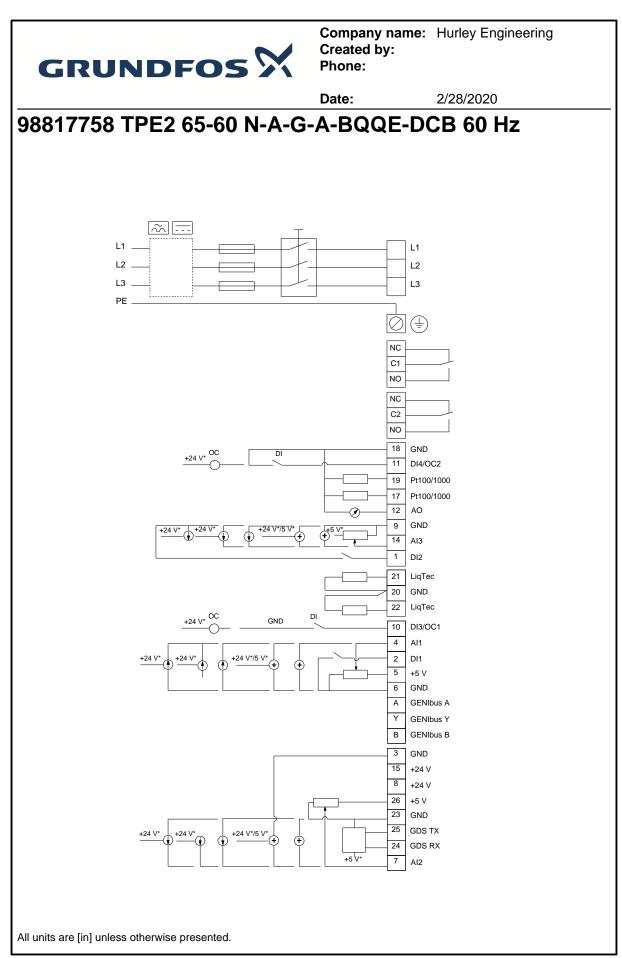


		Date:	2/28/2020
Description	Value		
Controls:			
Control panel:	HMI300 - Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
Net weight:	65.7 lb		
Gross weight:	84.9 lb		
Config. file no:	98819262		



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2/28/2020

Date:

Order D	Data:

Product name: TPE2 65-60 N-A-G-A-BQQE-DCB Amount: 1 Product No.: 98817758

Total: Price on request