GRUNDFOS

Submittal Data

PROJECT:	Hurley Engineering-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:	

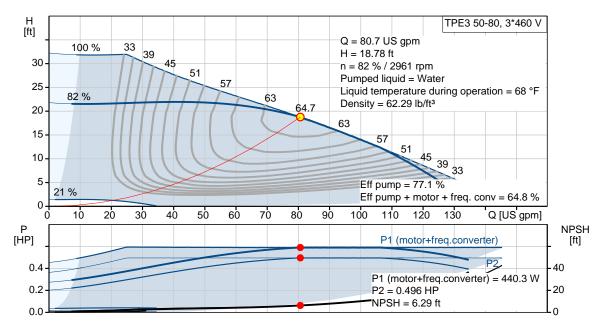


TPE3 50-80 S-A-G-A-BQQE-DCB

Single-stage in-line pumps with frequency converters

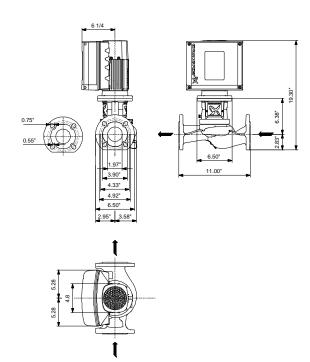
Product photo could vary from the actual product

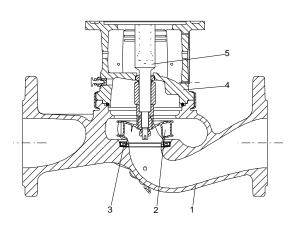
Conditions of Service		Pump Data	Motor Data		
Flow: Head: Efficiency: Liquid: Temperature: NPSH required: Viscosity: Specific Gravity:	80.7 US gpm 18.78 ft 64.8 % Water 68 °F 6.29 ft 1.000	Liquid temperature range: Maximum ambient temperature: Shaft seal: Pipe connection: Product number:	-13 248 °F 122 °F BQQE DN 50 98819626	Rated power - P2: Rated voltage: Main frequency: Number of poles: Enclosure class: Insulation class: Motor protection: Motor type:	0.5 HP 440-480 V 60 Hz 0 IP55 F YES 71A





Submittal Data





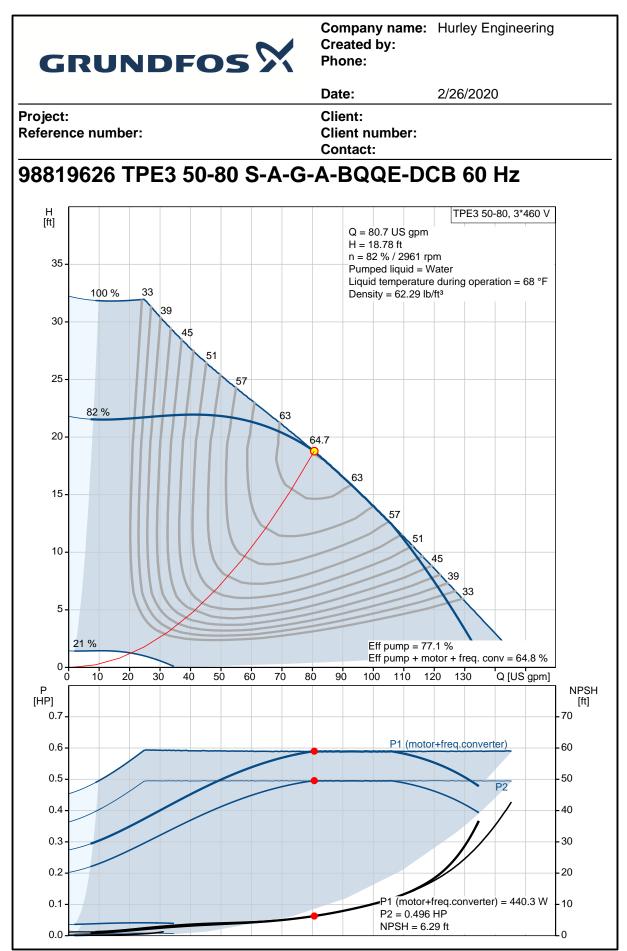
Materials:

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

G	RUNDFOS	- ()	ed by:	Hurley Engineering	
		Date:		2/26/2020	
Projec Refere	t: nce number:	Client Client Conta	number:		
Count	Description				
1	TPE3 50-80 S-A-G-A-BQQE-D	СВ			
		r service while the purr N 12756. Pipework co 16 ANSI flanges. ooled, permanent-mag ce with IEC 60034-30- / converter and PI con the motor speed, whice	head (motor, p housing re nnection is v net synchron 2. troller in the i	pump head and impeller) can mains in the pipework. via PN 16 ANSI flanges. ous motor. The motor efficiency motor terminal box. This enables	
	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 data is based: 3000 rpmActual calculated flow:80.7 US gpmResulting head of the pump:18.78 ftActual impeller diameter:2.91 inCode for shaft seal:BQQECurve tolerance:ISO9906:2012 3B2				
	Materials: Pump housing:	Cast iron ASTM A48-40 B			



		Date:	2/26/2020
Project: Reference number:		Client: Client numb Contact:	er:
Count	Description		
	Impeller:	EN 1561 EN-GJL-250 Composite PES/PP 30% Gł	=
	Impeller: Installation: Range of ambient temperature: Maximum operating pressure: Type of connection: Pipe connection: Pressure rating for pipe connecti Flange size for motor: Electrical data: Motor type: IE Efficiency class: Rated power - P2: Main frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: IE efficiency:	-4 122 °F PN 16 bar ANSI DN 50	_
	Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor Number:	82.9 % 0 IP55 F 99630335	
	Others: Net weight: Gross weight: Country of origin: Custom tariff no.:	60.2 lb 76.1 lb HU 8413.70.2022	



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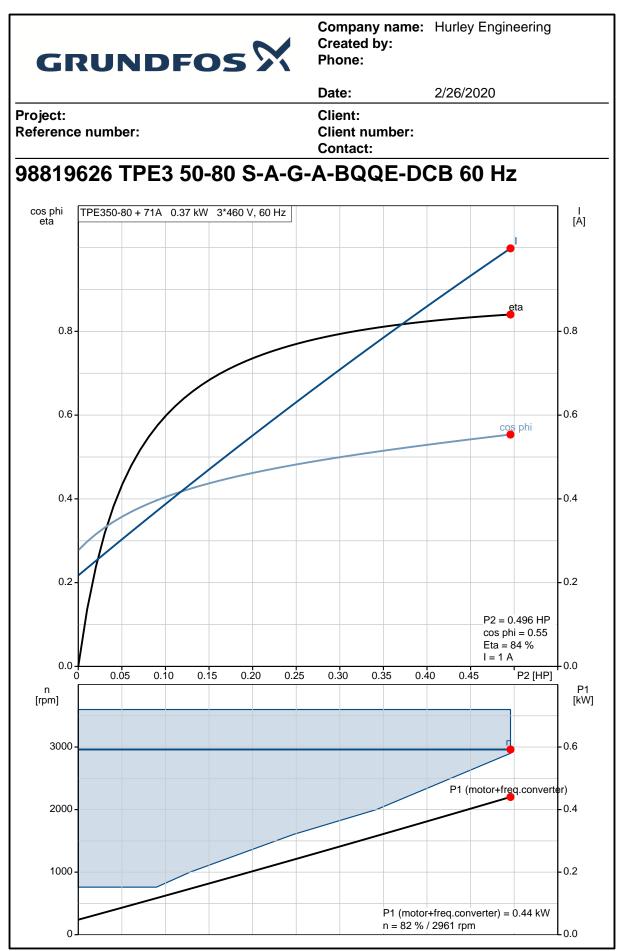


		Date: 2/26/2020
Project: Reference number:		Client: Client number: Contact:
Description	Value	H [ft] TPE3 50-80, 3*460 V
General information:		Q = 80.7 US gpm 35 H = 18.78 ft
Product name:	TPE3 50-80 S-A-G-A-BQQE-DCB	100 %n = 82 % / 2961 rpm Pumped liquid = Water Liquid temperature during operation = 68 °F
Product No.:	98819626	Density = 62.29 lb/ft ³
EAN:	5712601843874 5712601843874	25 - 57 63
Technical:		82 % 63 20 64.7
Pump speed on which pump data is based:	3000 rpm	63
Actual calculated flow:	80.7 US gpm	15-57
Resulting head of the pump:	18.78 ft	10-51
Head max:	26.25 ft	45
Actual impeller diameter:	2.91 in	5-
Code for shaft seal:	BQQE	F# aure 77.4.0/
Curve tolerance:	ISO9906:2012 3B2	21 % Eff pump = 77.1 % Eff pump + motor + freq. conv = 64.8 %
Pump version:	А	0 20 40 60 80 100 Q [US gpm]
Model:	А	P [HP] NPSH [ft]
Materials:		0.6 - P1 (motor+freq.converter) - 60
Pump housing:	Cast iron	
	ASTM A48-40 B	0.4 P2 40
	EN 1561 EN-GJL-250	0.4
Impeller:	Composite PES/PP 30% GF	0.2 P1 (motor+freq.converter) = 440.3 W -20
Material code:	A	P2 = 0.496 HP NPSH = 6.29 ft
Installation:		
Range of ambient temperature:	-4 122 °F	
Maximum operating pressure:	PN 16 bar	
Type of connection:	ANSI	
Pipe connection:	DN 50	
Pressure rating for pipe connection:	PN 16	
Flange size for motor:	56C	
Connect code:	G	I
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-13 248 °F	
Selected liquid temperature:	68 °F	`
Density:	62.29 lb/ft ³	
Electrical data:	74 ^	
Motor type:	71A	
IE Efficiency class:	IE5	
Rated power - P2:	0.5 HP 60 Hz	
Main frequency: Rated voltage:	3 x 440-480 V	
Rated current:	3 X 440-480 V 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 %	
	02.3 /0	

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		Date:	2/26/2020
Project: Reference number:		Client: Client number: Contact:	
Description	Value		
Number of poles:	0		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protection:	YES		
Motor Number:	99630335		
Controls:			
Control panel:	HMI300 - Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
Net weight:	60.2 lb		
Gross weight:	76.1 lb		
Config. file no:	98484780		
Country of origin:	HU		
Custom tariff no .:	8413.70.2022		



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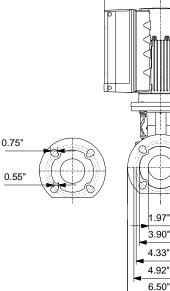
2/26/2020

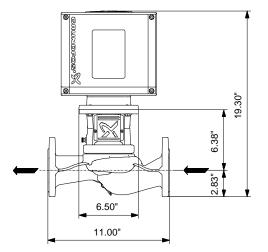
Project: Reference number: Date:

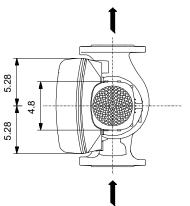
Client: Client number: Contact:

98819626 TPE3 50-80 S-A-G-A-BQQE-DCB 60 Hz

6 1/4







2.95" 3.58"

Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.

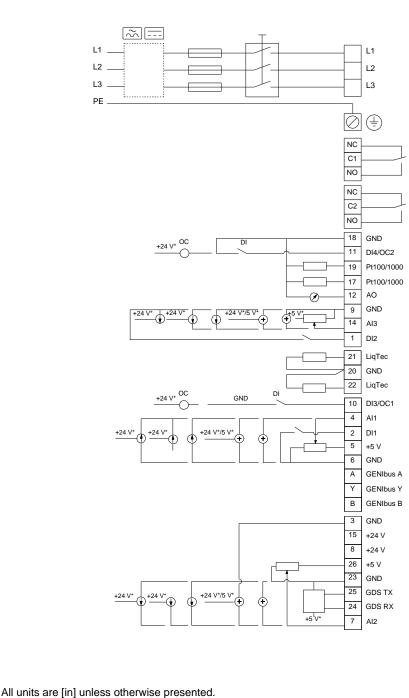


2/26/2020

Project: Reference number: Date:

Client: Client number: Contact:

98819626 TPE3 50-80 S-A-G-A-BQQE-DCB 60 Hz



All drifts are [iii] drifess otherwise presented.

GRUNDFOS X

		Date:	2/26/2020
oject: eference number:		Client: Client number: Contact:	
Order Data:			
Product name: Amount: Product No.:	TPE3 50-80 S-A-G-A-B0 1 98819626	QQE-DCB	
Total: Price on I	request		