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:	

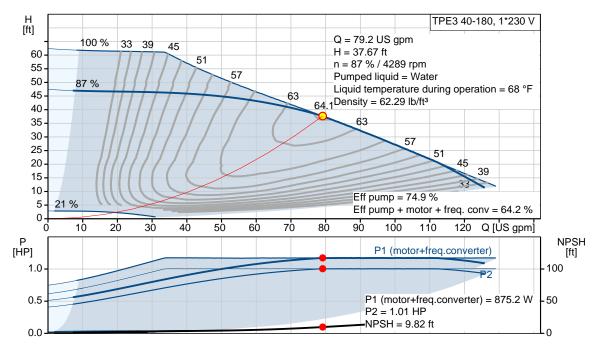


TPE3 40-180 S-A-G-I-BQQE-FAC

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

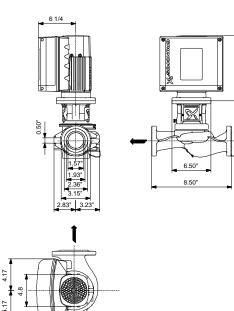
Product photo could vary from the actual product

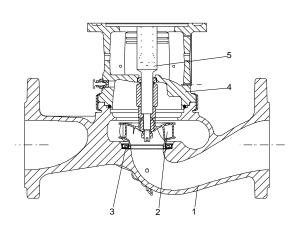
Conditions of Service		Pump Data		Motor Data	
Flow:	79.2 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	1 HP
Head:	37.67 ft	Maximum ambient temperature:	122 °F	Rated voltage:	200-240 V
Efficiency:	64.2 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 40	Number of poles:	0
Temperature:	68 °F	Product number:	98819521	Enclosure class:	IP55
NPSH required:	9.82 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	80A
				Motor_efficiency:	85.7 %





Submittal Data





Materials:

7 40"

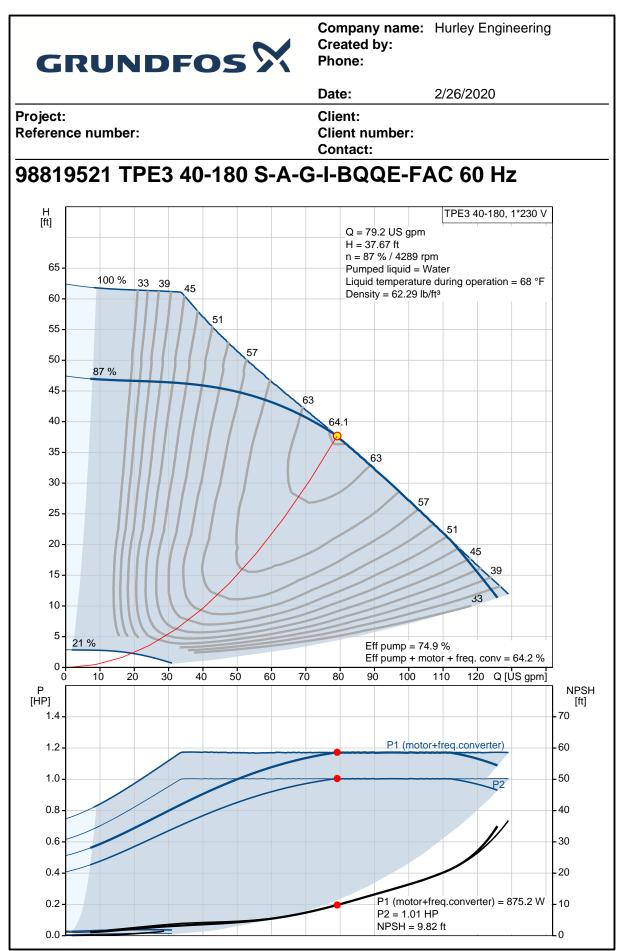
6.38"

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

G	RUNDFOS	**	Company name: Created by: Phone:	Hurley Engineering	
			Date:	2/26/2020	
	roject: eference number:		Client: Client number: Contact:		
ount	Description				
1	TPE3 40-180 S-A-G-I-BQQE-FA	AC			
	Product No.: 98819521				
	The pump is of the top-pull-out of be removed for maintenance or The shaft seal is according to El Pipework connection is via PN 1 The pump is fitted with a fan-coo is classified as IE5 in accordanc The motor includes a frequency continuously variable control of t performance to a given requirem Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range:	service while N 12756. Pip 6 ANSI flang bled, perman e with IEC 6 converter ar the motor sp	e the pump housing re ework connection is v ges. ent-magnet synchrond 0034-30-2. nd PI controller in the r eed, which again enab	mains in the pipework. ia PN 16 ANSI flanges. ous motor. The motor efficiency notor terminal box. This enables	
	Selected liquid temperature: Density:	68 °F 62.29 lb/ft ³			
	Technical: Pump speed on which pump data is based: 4350 rpm				
	Actual calculated flow:	79.2 US gp	-		
	Resulting head of the pump: Actual impeller diameter:	37.67 ft 2.91 in			
	Code for shaft seal:	BQQE			
	Curve tolerance:	ISO9906:20	012 3B2		
	Materials:				
	Pump housing:	Stainless st ASTM CF8 EN 1.4308			
	Impeller:		PES/PP 30% GF		
	Installation:				
	Range of ambient temperature:				
	Maximum operating pressure:	PN 16 bar ANSI			
	Type of connection:	ANOI			

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			2/26/2020
Project: Reference number:		Client: Client numl Contact:	ber:
Count	Description	Contact.	
	Pipe connection: Pressure rating for pipe connec Flange size for motor:	DN 40 ction: PN 16 56C	
	Electrical data: Motor type: IE Efficiency class: Rated power - P2: Main frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: IE efficiency: Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor Number: Others: DOE Pump Energy Index VL: Net weight: Gross weight: Country of origin: Custom tariff no.:	80A IE5 1 HP 60 Hz 1 x 200-240 V 4.70-4.00 A 0.98 480-5900 rpm 85.7% 85.7 % 0 IP55 F 99630340 0.36 46.3 lb 62.2 lb HU 8413.70.2022	



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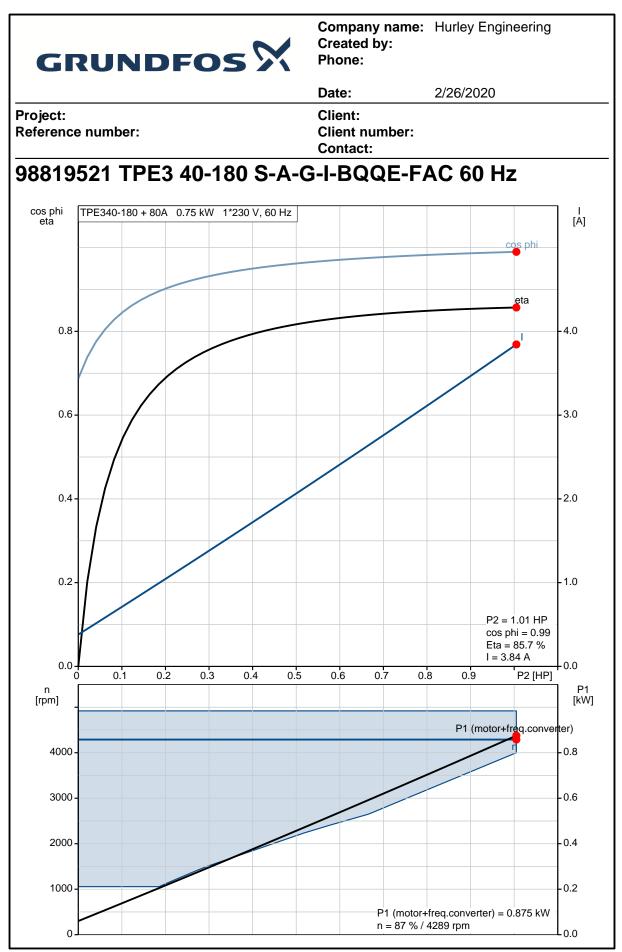


Project:		Client: Client number:		
Reference number:				
		Contact:		
Description	Malua	H TPE3 40-180, 1*230 V		
Description General information:	Value	[ft] Q = 79.2 US gpm		
General mormation:	TPE3 40-180	$65 - \frac{100}{100}$ n = 87 % / 4289 rpm		
Product name:	S-A-G-I-BQQE-FAC	60 – Pumped liquid = Water		
Product No.:	98819521	55 Liquid temperature during operation = 68 °F Density = 62.29 lb/ft ³		
EAN:	5712601841818	50 - 87 %		
	5712601841818	45 - 63		
Price:	\$ 9,470.00	40-64.1		
Technical:		35 - 63		
Pump speed on which pump data is based:	4350 rpm	30-25-57		
Actual calculated flow:	79.2 US gpm	51		
Resulting head of the pump:	37.67 ft	45		
Head max:	59.06 ft	10 - 33		
Actual impeller diameter:	2.91 in			
Code for shaft seal:	BQQE	5 - 21 % Eff pump = 74.9 % Eff pump + motor + freq. conv = 64.2 %		
Curve tolerance:	ISO9906:2012 3B2	0 20 40 60 80 100 Q [US gpm]		
Pump version:	А	P NPSH [HP]		
Materials:		[HP] [ft] [ft]		
Pump housing:	Stainless steel	1.0		
	ASTM CF8			
	EN 1.4308			
Impeller:	Composite PES/PP 30% GF	0.5 50 P1 (motor+freq.converter) = 875.2 W		
Material code:	I	P2 = 1.01 HP NPSH = 9.82 ft		
Installation:		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
Range of ambient temperature:	-4 122 °F	n ⁶¹⁴ 1		
Maximum operating pressure:	PN 16 bar			
Type of connection:	ANSI			
Pipe connection:	DN 40			
Pressure rating for pipe connection:	PN 16			
Flange size for motor:	56C			
Connect code:	G			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-13 248 °F			
Selected liquid temperature:	68 °F	_		
Density:	62.29 lb/ft ³			
Electrical data:		<u>ج</u>		
Motor type:	80A			
IE Efficiency class:	IE5			
Rated power - P2:	1 HP			
Main frequency:	60 Hz			
Rated voltage:	1 x 200-240 V			
Rated current:	4.70-4.00 A			
Cos phi - power factor:	0.98			
Rated speed:	480-5900 rpm			
IE efficiency:	85.7%			
Motor efficiency at full load:	85.7 %			

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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:	99630340		
Controls:			
Control panel:	HMI300 - Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
DOE Pump Energy Index VL:	0.36		
Net weight:	46.3 lb		
Gross weight:	62.2 lb		
Config. file no:	98481393		
Country of origin:	HU		
Custom tariff no.:	8413.70.2022		



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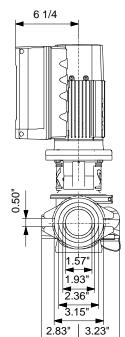


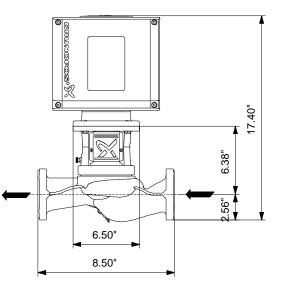
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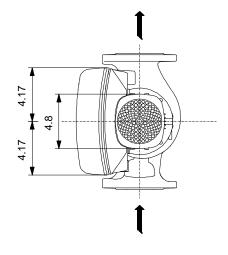
Project: Reference number: Date:

Client: Client number: Contact:

98819521 TPE3 40-180 S-A-G-I-BQQE-FAC 60 Hz







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



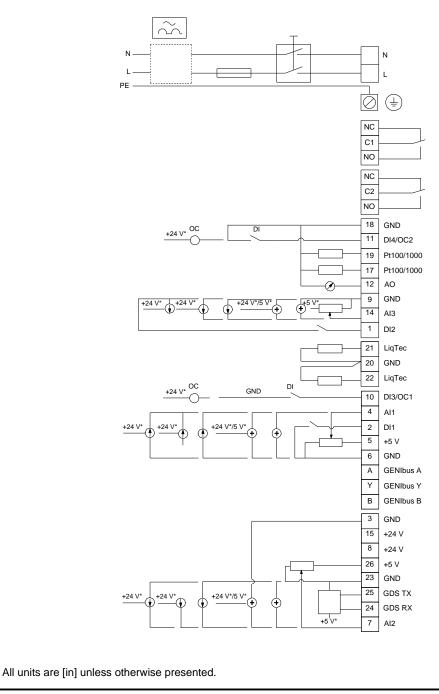
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Project: Reference number: Date:

Client:

Client number: Contact:

98819521 TPE3 40-180 S-A-G-I-BQQE-FAC 60 Hz



GRUNI	DFOSX	Company name: Created by: Phone:	Hurley Engineering
		Date:	2/26/2020
Project: Reference number:		Client: Client number: Contact:	
Order Data:			
Product name: Amount: Product No.: Price: Total: \$ 9,470.0	\$ 9,470.00	QQE-FAC	