## **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:	

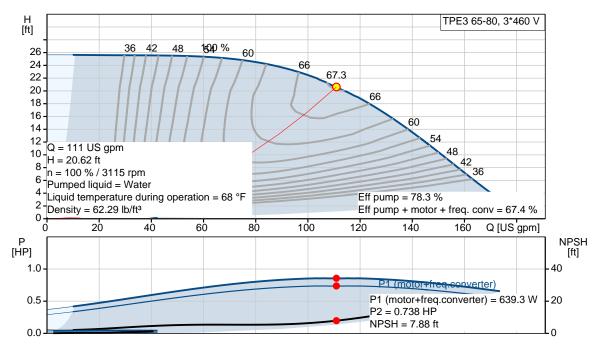


#### TPE3 65-80 S-A-G-I-BQQE-ECB

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

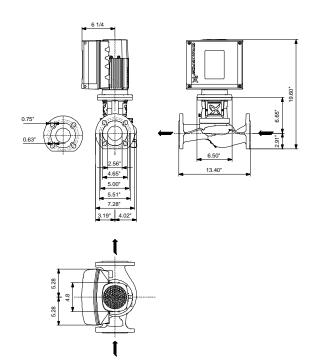
Product photo could vary from the actual product

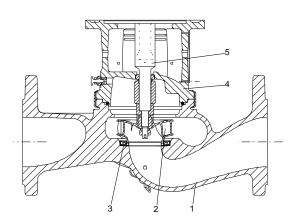
Conditions of Service		Pump Data		Motor Data	
Flow:	111 US gpm	Liquid temperature range:	-13 248 °F	Rated power - P2:	0.75 HP
Head:	20.62 ft	Maximum ambient temperature:	122 °F	Rated voltage:	440-480 V
Efficiency:	67.4 %	Shaft seal:	BQQE	Main frequency:	60 Hz
Liquid:	Water	Pipe connection:	DN 65	Number of poles:	0
Temperature:	68 °F	Product number:	98819729	Enclosure class:	IP55
NPSH required:	7.88 ft			Insulation class:	F
Viscosity:				Motor protection:	YES
Specific Gravity:	1.000			Motor type:	71A
				Motor_efficiency:	85.7 %





### Submittal Data





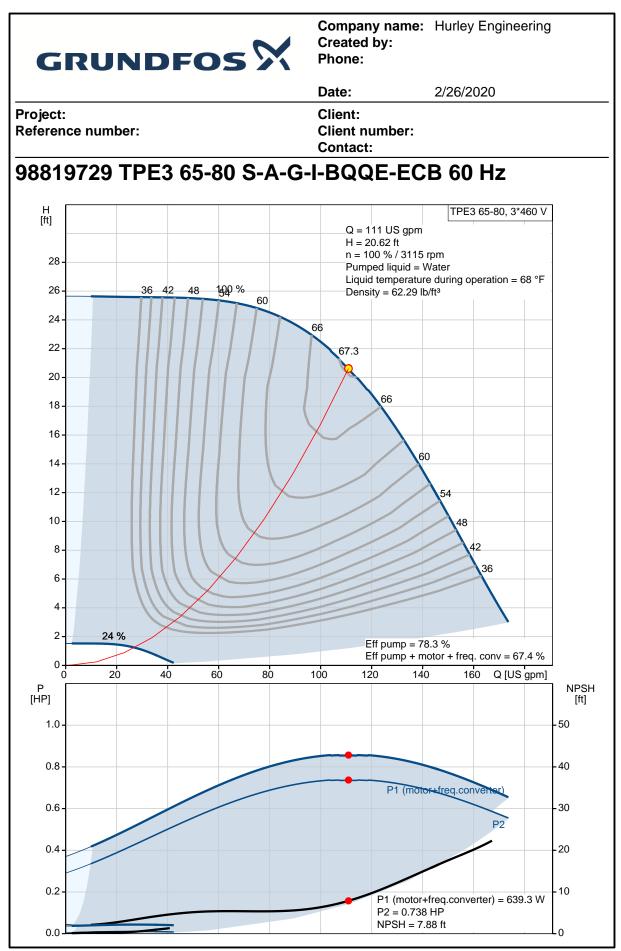
#### Materials:

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

G	GRUNDFOS		npany name: ated by: one:	Hurley Engineering		
_		Dat	e:	2/26/2020		
Projec Refere	t: nce number:		ent: ent number: ntact:			
Count	Description					
1	TPE3 65-80 S-A-G-I-BQQE-EC	В				
	Product No.: 98819729					
	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 accordance The motor includes a frequency continuously variable control of performance to a given requirem	service while the p N 12756. Pipework 6 ANSI flanges. bled, permanent-m e with IEC 60034- converter and PI o the motor speed, v	oump housing re connection is v agnet synchron 30-2. controller in the r	mains in the pipework. ia PN 16 ANSI flanges. ous motor. The motor efficiency notor 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 <sup>3</sup>				
	Technical:					
	Pump speed on which pump dat Actual calculated flow: Resulting head of the pump: Actual impeller diameter: Code for shaft seal: Curve tolerance:	ta is based: 3000 111 US gpm 20.62 ft 3.07 in BQQE ISO9906:2012 3I				
	Materials:					
	Pump housing:	Stainless steel ASTM CF8 EN 1.4308				
	Impeller:	Composite PES/	PP 30% GF			
	Installation: Range of ambient temperature: Maximum operating pressure: Type of connection:	-4 122 °F PN 16 bar ANSI				

<b>GRUNDFOS</b>
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		Dat		
Project: Reference number:		Clie	ent: ent number:	
Count	Description	Col	ntact:	
Jount	Description	DN 65		
	Pipe connection: Pressure rating for pipe conne Flange size for motor:	DN 65 ction: PN 16 56C		
	Electrical data:			
	Motor type:	71A		
	IE Efficiency class:	IE5		
	Rated power - P2:	0.75 HP		
	Main frequency:	60 Hz		
	Rated voltage:	3 x 440-480 V		
	Rated current:	1.35 A		
	Cos phi - power factor:	0.68		
	Rated speed:	360-4000 rpm		
	IE efficiency:	85.7%		
	Motor efficiency at full load:	85.7 %		
	Number of poles:	0		
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor Number:	99630336		
	Others:			
	Net weight:	67 lb		
	Gross weight:	86.2 lb		
	Country of origin:	HU		
	Custom tariff no.:	8413.70.2022		



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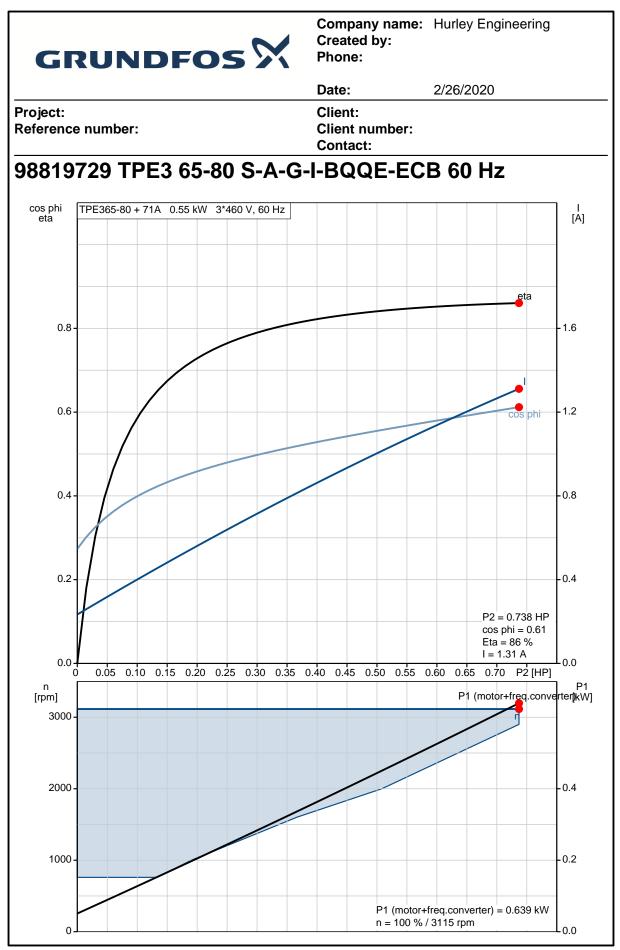


		Date: 2/26/2020
Project: Reference number:		Client: Client number: Contact:
Description	Value	H [ft] TPE3 65-80, 3*460 V
General information:	Value	Q = 111 US gpm
	TPE3 65-80	H = 20.62  ft 26 - n = 100 % / 3115  rpm
Product name:	S-A-G-I-BQQE-ECB	Pumped liquid = Water 24 Liquid temperature during operation = 68 °F
Product No.:	98819729	$22 - Density = 62.29 \text{ lb/ft}^3$
EAN:	5712601845816	20-
	5712601845816	18 - 66
Technical:		16-
Pump speed on which pump data is based:	3000 rpm	14-
Actual calculated flow:	111 US gpm	
Resulting head of the pump:	20.62 ft	
Head max:	26.25 ft	° ]36
Actual impeller diameter:	3.07 in	6-
Code for shaft seal:	BQQE	2 24 % Eff pump = 78.3 %
Curve tolerance:	ISO9906:2012 3B2	$\begin{array}{c} 2 \\ 0 \\ \end{array}$
Pump version:	A	0 50 100 Q [US gpm]
Materials:		P NPSH [HP]
Pump housing:	Stainless steel	[]
	ASTM CF8	1.0 - 40
	EN 1.4308	
Impeller:	Composite PES/PP 30% GF	0.5 - P2 - 20
Material code:	1	P1 (motor+freq.converter) = 639.3 W
Installation:		P2 = 0.738 HP NPSH = 7.88 ft
Range of ambient temperature:	-4 122 °F	
Maximum operating pressure:	PN 16 bar	
Type of connection:	ANSI	<b>F</b> 4 14.
Pipe connection:	DN 65	
Pressure rating for pipe connection:	PN 16	
Flange size for motor:	56C	
Connect code:	G	
Liquid:		= <u>420</u> 
Pumped liquid:	Water	ţ
Liquid temperature range:	-13 248 °F	
Selected liquid temperature:	68 °F	
Density:	62.29 lb/ft <sup>3</sup>	
Electrical data:	74.4	
Motor type:	71A	
IE Efficiency class:	IE5	
Rated power - P2:	0.75 HP	
Main frequency:	60 Hz	
Rated voltage: Rated current:	3 x 440-480 V	
	1.35 A	
Cos phi - power factor:	0.68	
Rated speed: IE efficiency:	360-4000 rpm 85.7%	
Motor efficiency at full load:	85.7 % 85.7 %	
Number of poles:	85.7 % 0	annar Bhara D an
Enclosure class (IEC 34-5):	IP55	
LICUSULE CIASS (IEC 34-3).	11 33	

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		Date:	2/26/2020
Project: Reference number:		Client: Client number: Contact:	
Description	Value		
Insulation class (IEC 85):	F		
Motor protection:	YES		
Motor Number:	99630336		
Controls:			
Control panel:	HMI300 - Graphical		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			
Net weight:	67 lb		
Gross weight:	86.2 lb		
Config. file no:	98484786		
Country of origin:	HU		
Custom tariff no .:	8413.70.2022		



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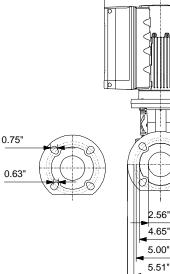
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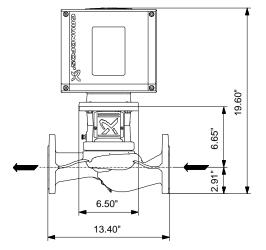
Project: Reference number: Date:

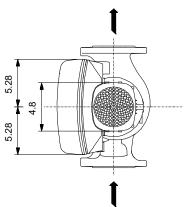
Client: Client number: Contact:

## 98819729 TPE3 65-80 S-A-G-I-BQQE-ECB 60 Hz

6 1/4







7.28"

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

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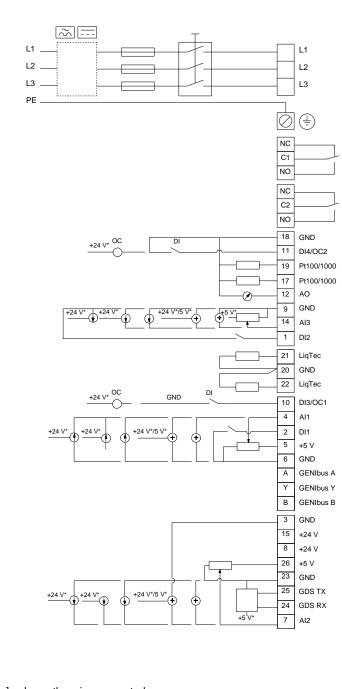


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Project: Reference number: Date:

Client: Client number: Contact:

# 98819729 TPE3 65-80 S-A-G-I-BQQE-ECB 60 Hz



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		Date:	2/26/2020
Project: Reference number:		Client: Client number: Contact:	
Order Data:			
Product name: Amount: Product No.:	TPE3 65-80 S-A-G-I-BQ0 1 98819729	QE-ECB	
Total: Price on r	request		