

# 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:	



#### Product photo could vary from the actual product

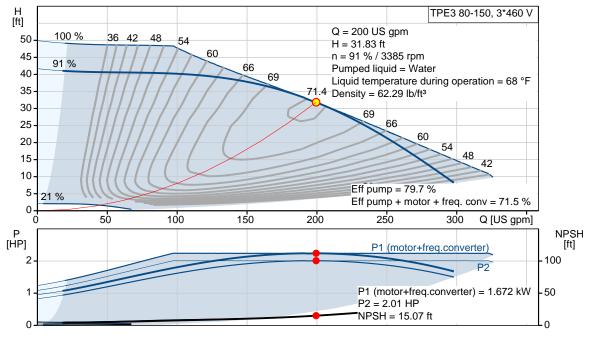
### TPE3 80-150 S-A-G-I-BQQE-HCB

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

Conditions of Service			
Flow:	200 US gpm		
Head:	31.83 ft		
Efficiency:	71.5 %		
Liquid:	Water		
Temperature:	68 °F		
NPSH required:	15.07 ft		
Viscosity:			
Specific Gravity:	1.000		

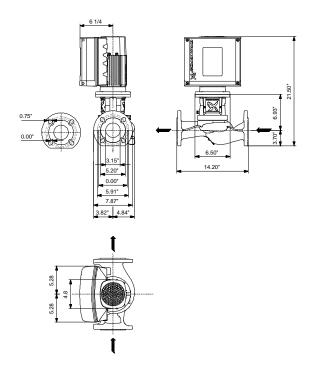
	Pump Data	
Ī	Liquid temperature range:	-13 248 °F
	Maximum ambient temperature:	122 °F
	Shaft seal:	BQQE
	Pipe connection:	DN 80
١	Product number:	98819910
1		

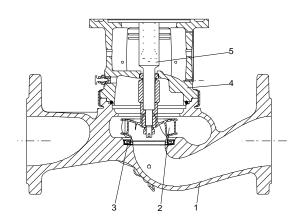
Motor Data		
Rated power - P2:	2 HP	
Rated voltage:	440-480 V	
Main frequency:	60 Hz	
Number of poles:	0	
Enclosure class:	IP55	
Insulation class:	F	
Motor protection:	YES	
Motor type:	90C	
Motor_efficiency:	89.4 %	





# Submittal Data





#### Materials:

Pump housing: Stainless steel

ASTM CF8

Composite PES/PP 30% GF Impeller:

Material code:



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**Date:** 2/26/2020

Project:

Client:

Reference number:

Client number: Contact:

Count 1

#### Description

#### TPE3 80-150 S-A-G-I-BQQE-HCB



Product No.: 98819910

The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.

The shaft seal is according to EN 12756. Pipework connection is via PN 16 ANSI flanges.

Pipework connection is via PN 16 ANSI flanges.

The pump is fitted with a fan-cooled, permanent-magnet synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

Controls:

Frequency converter: Built-in

Liquid:

Pumped liquid: Water
Liquid temperature range: -13 .. 248 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Pump speed on which pump data is based: 3400 rpm

Actual calculated flow: 200 US gpm
Resulting head of the pump: 31.83 ft
Actual impeller diameter: 3.54 in
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Stainless steel

ASTM CF8 EN 1.4308

Impeller: Composite PES/PP 30% GF

Installation:

Range of ambient temperature: -4 .. 122 °F Maximum operating pressure: PN 16 bar Type of connection: ANSI



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Contact:

Count | Description

Pipe connection: DN 80
Pressure rating for pipe connection: PN 16
Flange size for motor: 56C

Electrical data:

Motor type: 90C
IE Efficiency class: IE5
Rated power - P2: 2 HP
Main frequency: 60 Hz

Rated voltage: 3 x 440-480 V

Rated current: 2.65 A
Cos phi - power factor: 0.87

Rated speed: 360-4000 rpm IE efficiency: 89.4%

Motor efficiency at full load: 89.4 % Number of poles: 0
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor Number: 99630348

Others:

DOE Pump Energy Index VL: 0.42
Net weight: 71.4 lb
Gross weight: 90.6 lb
Country of origin: HU

Custom tariff no.: 8413.70.2022



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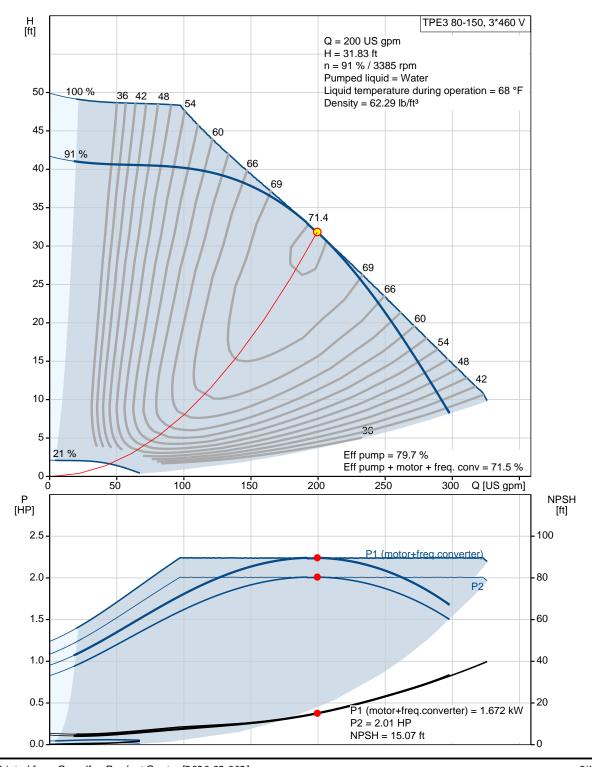
**Date:** 2/26/2020

Project: Client:

Reference number: Client number:

Contact:

### 98819910 TPE3 80-150 S-A-G-I-BQQE-HCB 60 Hz





Created by: Phone:

**Date:** 2/26/2020

Project:

Reference number:

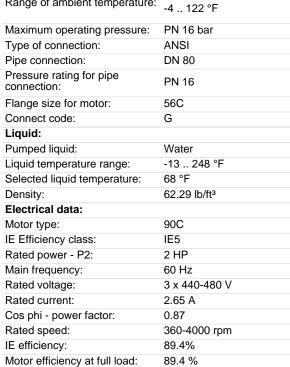
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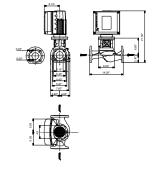
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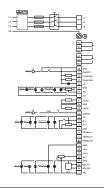
Contact:

Description	Value
Description General information:	Value
General information:	TDF0 00 450
Product name:	TPE3 80-150 S-A-G-I-BQQE-HCB
Product No.:	98819910
EAN:	5712601849005
	5712601849005
Technical:	
Pump speed on which pump data is based:	3400 rpm
Actual calculated flow:	200 US gpm
Resulting head of the pump:	31.83 ft
Head max:	49.22 ft
Actual impeller diameter:	3.54 in
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
Pump version:	A
Materials:	
Pump housing:	Stainless steel
	ASTM CF8
	EN 1.4308
Impeller:	Composite PES/PP 30% GF
Material code:	
Installation:	
Range of ambient temperature:	-4 122 °F

H [ft]	TPE3 80-150, 3*460 V				
50	Q = 200 US gpm H = 31.83 ft				
50 -	100 %n = 91 % / 3385 rpm				
45 <b>-</b>	Pumped liquid = Water Liquid temperature during operation = 68 °F  91 % Density = 62.29 lb/ft³				
40 -	69 69				
35 -	71.4				
30 -	69				
25 -	66				
20 -	60				
15 -	48 42				
10 -					
5 -	21 % Eff pump = 79.7 %				
0 -	Eff pump + motor + freq. conv = 71.5 %				
0	50 100 150 200 250 Q [US gpm]				
P [HP]	NPSH [ft]				
	P1 (motor+freq.converter)				
2 -	P2 -100				
	, r2				
1 -	50				
	P1 (motor+freq.converter) = 1.672 kW P2 = 2.01 HP				
0-	NPSH = 15.07 ft				







0

Number of poles:



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**Date:** 2/26/2020

Project:

Reference number:

Client:

Client number:

Contact:

Description	Value
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protection:	YES
Motor Number:	99630348
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	
DOE Pump Energy Index VL:	0.42
Net weight:	71.4 lb
Gross weight:	90.6 lb
Config. file no:	98484792
Country of origin:	HU
Custom tariff no.:	8413.70.2022



Created by: Phone:

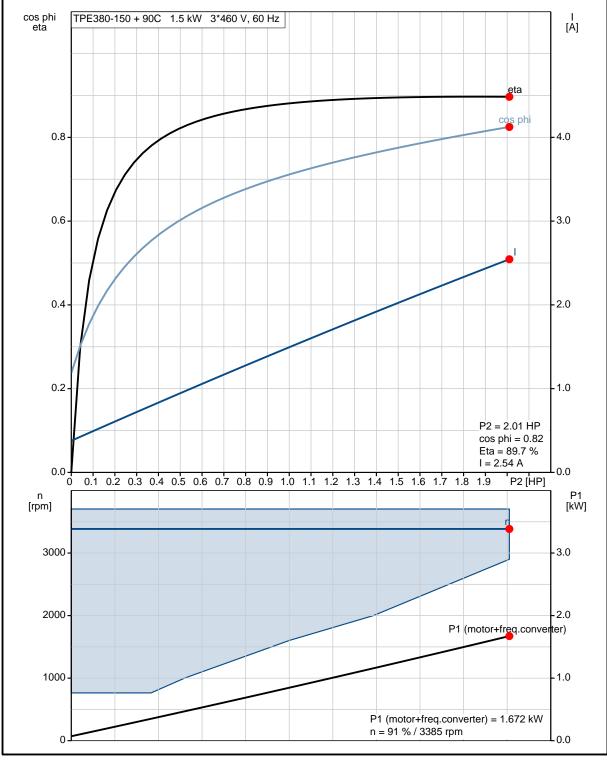
**Date:** 2/26/2020

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Reference number: Client number:

Contact:

### 98819910 TPE3 80-150 S-A-G-I-BQQE-HCB 60 Hz





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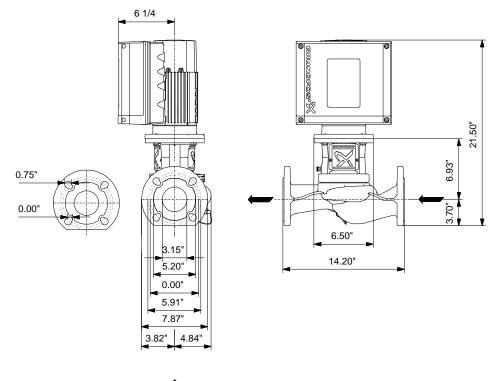
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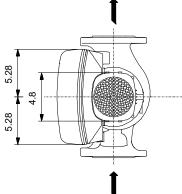
Project: Client:

Reference number: Client number:

Contact:

# 98819910 TPE3 80-150 S-A-G-I-BQQE-HCB 60 Hz





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



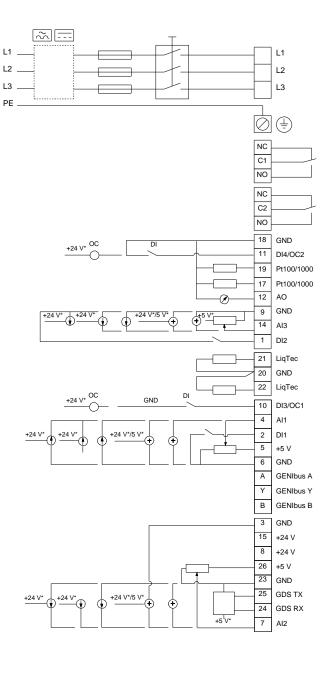
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**Date:** 2/26/2020

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Reference number: Client number: Contact:

# 98819910 TPE3 80-150 S-A-G-I-BQQE-HCB 60 Hz



All units are [in] unless otherwise presented.



Created by: Phone:

**Date:** 2/26/2020

Project:

Client:

Reference number:

Client number: Contact:

**Order Data:** 

Product name: TPE3 80-150 S-A-G-I-BQQE-HCB

Amount: 1

Product No.: 98819910

Total: Price on request