

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 50-240 S-A-G-A-BQQE-ICC

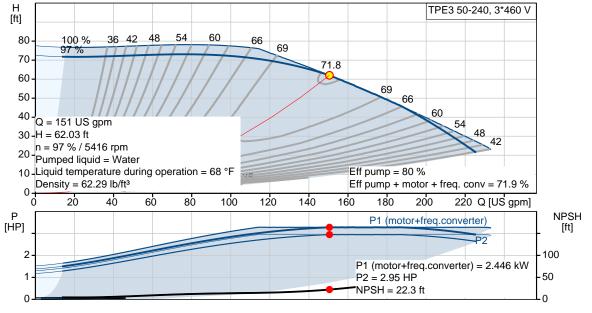
Single-stage in-line pumps with frequency converters

Product photo could vary from the actual product

Conditions of Service		
Flow:	151 US gpm	
Head:	62.03 ft	
Efficiency:	71.9 %	
Liquid:	Water	
Temperature:	68 °F	
NPSH required:	22.3 ft	
Viscosity:		
Specific Gravity:	1.000	

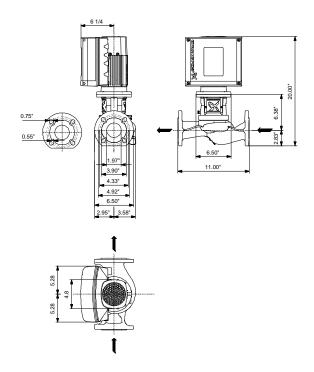
Pump Data			
Liquid temperature range:	-13 248 °F		
Maximum ambient temperature:	122 °F		
Shaft seal:	BQQE		
Pipe connection:	DN 50		
Product number:	98819631		

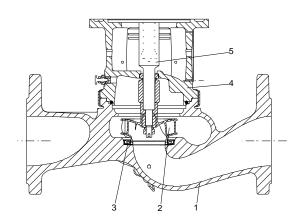
Motor Data		
Rated power - P2:	3 HP	
Rated voltage:	440-480 V	
Main frequency:	60 Hz	
Number of poles:	0	
Enclosure class:	IP55	
Insulation class:	F	
Motor protection:	YES	
Motor type:	90C	
Motor_efficiency:	89.2 %	





Submittal Data





Materials:

Pump housing: Cast iron

ASTM A48-40 B

Composite PES/PP 30% GF Impeller:

Material code:



Created by: Phone:

Date: 2/26/2020

Project:

Client:

Reference number:

Client number: Contact:

Count

Description

TPE3 50-240 S-A-G-A-BQQE-ICC



Product photo could vary from the actual product

Product No.: 98819631

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: 5500 rpm

Actual calculated flow: 151 US gpm
Resulting head of the pump: 62.03 ft
Actual impeller diameter: 2.91 in
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Cast iron

ASTM A48-40 B



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Count | Description

EN 1561 EN-GJL-250

Impeller: Composite PES/PP 30% GF

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

Electrical data:

Motor type: 90C
IE Efficiency class: IE5
Rated power - P2: 3 HP
Main frequency: 60 Hz

Rated voltage: 3 x 440-480 V

Rated current: 4 A Cos phi - power factor: 0.87

Rated speed: 480-5900 rpm IE efficiency: 89.2% Motor efficiency at full load: 89.2 % Number of poles: 0

Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F

Motor Number: 99630351

Others:

DOE Pump Energy Index VL: 0.35
Net weight: 66.2 lb
Gross weight: 82 lb
Country of origin: HU

Custom tariff no.: 8413.70.2022



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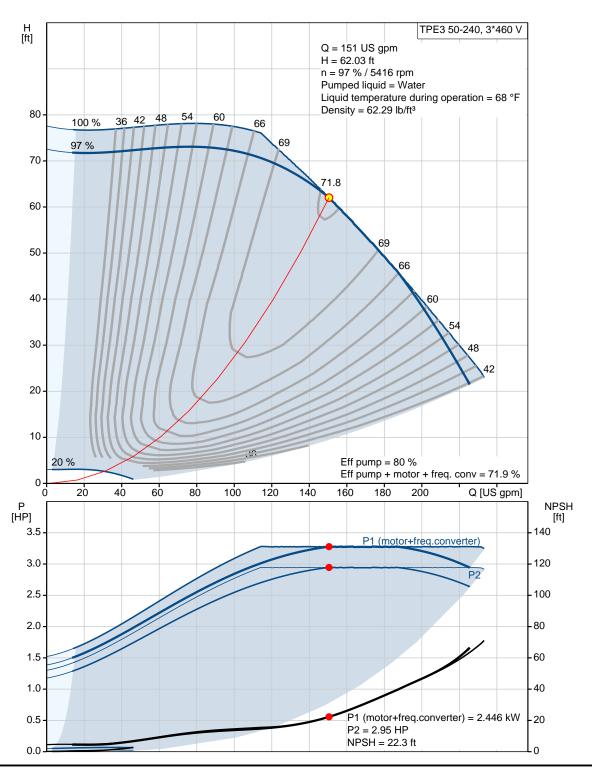
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Project: Client: Reference number: Client

Client number:

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98819631 TPE3 50-240 S-A-G-A-BQQE-ICC 60 Hz





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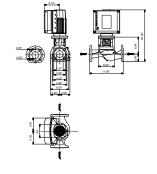
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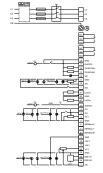
Contact:

Description	Value
General information:	
Product name:	TPE3 50-240 S-A-G-A-BQQE-ICC
Product No.:	98819631
EAN:	5712601843973
	5712601843973
Technical:	
Pump speed on which pump data is based:	5500 rpm
Actual calculated flow:	151 US gpm
Resulting head of the pump:	62.03 ft
Head max:	78.74 ft
Actual impeller diameter:	2.91 in
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron
	ASTM A48-40 B
	EN 1561 EN-GJL-250
Impeller:	Composite PES/PP 30% GF
Material code:	Α
Installation:	
Range of ambient temperature:	-4 122 °F

• • • • • • • • • • • • • • • • • • • •		
H [ft]	TPE3 50-240, 3*460 V	
1.41	Q = 151 US gpm	
	H = 62.03 ft	
	n = 97 % / 5416 rpm	
80 -	100 %Pumped liquid = Water	
	97 % Liquid temperature during operation = 68 °F	
70 -	Density = 62.29 lb/ft ³	
70-	71.8	
60 -		
50 -	69	
00	66	
40 -	60	
	54	
30 -	48	
00	42	
	42	
20 -		
10 -		
10 -	20 % Eff pump = 80 %	
	Eff pump + motor + freq. conv = 71.9 %	
0 -		
C	50 100 150 Q [US gpm]	
Р		NPSH
[HP]	P1 (motor+freg.converter)	[ft]
3 -	The state of the s	- 150
3-	P2	- 150
	4	
2 -		- 100
1 -	P1 (motor+freq.converter) = 2.446 kW	- 50
	P2 = 2.95 HP	
	NPSH = 22.3 ft	
0 -	NP3N = 22.3 II	- 0

Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 50 Pressure rating for pipe connection: PN 16 56C Flange size for motor: Connect code: G Liquid: Pumped liquid: Water -13 .. 248 °F Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90C IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 4 A Cos phi - power factor: 0.87 Rated speed: 480-5900 rpm IE efficiency: 89.2% Motor efficiency at full load: 89.2 %







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Date: 2/26/2020

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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:	99630351
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	
DOE Pump Energy Index VL:	0.35
Net weight:	66.2 lb
Gross weight:	82 lb
Config. file no:	98484796
Country of origin:	HU
Custom tariff no.:	8413.70.2022



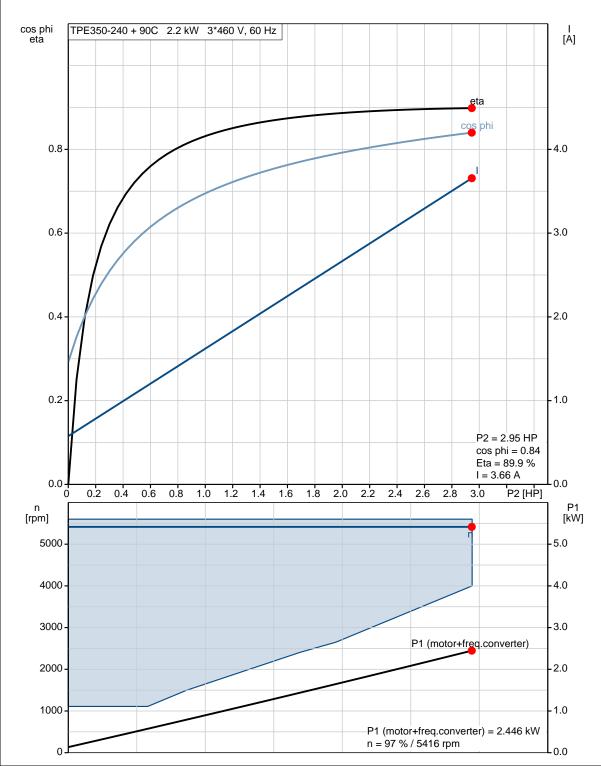
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98819631 TPE3 50-240 S-A-G-A-BQQE-ICC 60 Hz





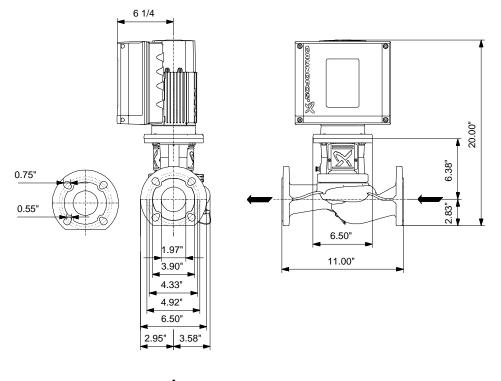
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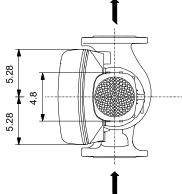
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98819631 TPE3 50-240 S-A-G-A-BQQE-ICC 60 Hz





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



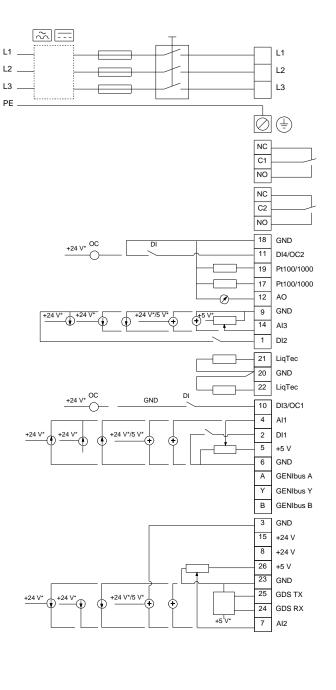
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98819631 TPE3 50-240 S-A-G-A-BQQE-ICC 60 Hz



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 50-240 S-A-G-A-BQQE-ICC

Amount: 1

Product No.: 98819631

Total: Price on request