

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

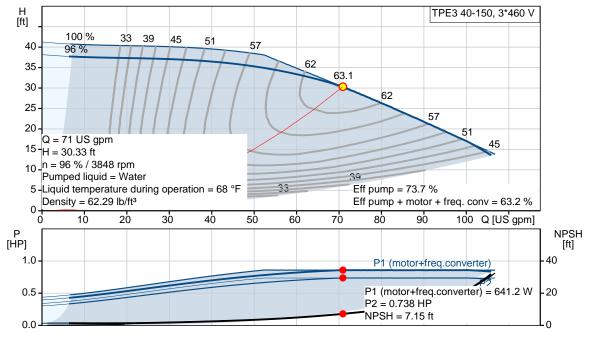
TPE3 40-150 S-A-G-I-BQQE-ECB

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

Conditions	of Service
Flow:	71 US gpm
Head:	30.33 ft
Efficiency:	63.2 %
Liquid:	Water
Temperature:	68 °F
NPSH required:	7.15 ft
Viscosity:	
Specific Gravity:	1.000

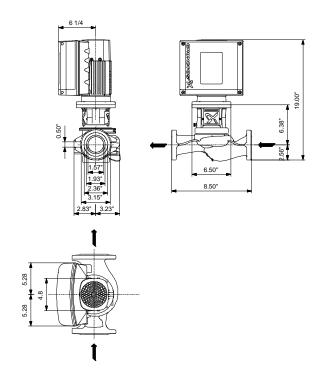
Pump Data	
Liquid temperature range:	-13 248 °F
Maximum ambient temperature:	122 °F
Shaft seal:	BQQE
Pipe connection:	DN 40
Product number:	98819566

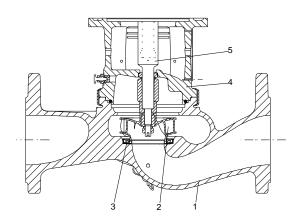
Motor Da	ta
Rated power - P2:	0.75 HP
Rated voltage:	440-480 V
Main frequency:	60 Hz
Number of poles:	0
Enclosure class:	IP55
Insulation class:	F
Motor protection:	YES
Motor type:	71A
Motor_efficiency:	85.7 %





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: Reference number: Client:

Client number:

Contact:

Count | Description

1

TPE3 40-150 S-A-G-I-BQQE-ECB



Product No.: 98819566

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: 3900 rpm

Actual calculated flow: 71 US gpm
Resulting head of the pump: 30.33 ft
Actual impeller diameter: 2.91 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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Client:

Count | Description

Pipe connection: DN 40
Pressure rating for pipe connection: PN 16
Flange size for motor: 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: 50.1 lb Gross weight: 66.6 lb Country of origin: HU

Custom tariff no.: 8413.70.2022



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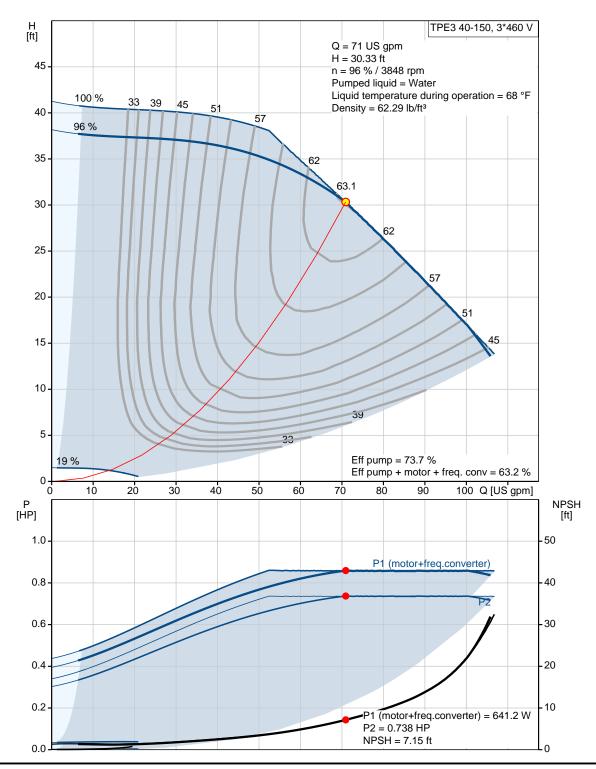
Date: 2/26/2020

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Reference number: Client number:

Contact:

98819566 TPE3 40-150 S-A-G-I-BQQE-ECB 60 Hz





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Project:

Reference number:

Client:

Client number:

Contact:

Description	Value
General information:	
Product name:	TPE3 40-150 S-A-G-I-BQQE-ECB
Product No.:	98819566
EAN:	5712601842624
	5712601842624
Price:	\$ 7,225.00
Technical:	
Pump speed on which pump data is based:	3900 rpm
Actual calculated flow:	71 US gpm
Resulting head of the pump:	30.33 ft
Head max:	49.22 ft
Actual impeller diameter:	2.91 in
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
Pump version:	Α
Materials:	
Pump housing:	Stainless steel
	ASTM CF8
	EN 1.4308
Impeller:	Composite PES/PP 30% GF
Material code:	I
Installation:	
Range of ambient temperature:	-4 122 °F

Ountai	711
H [ft]	TPE3 40-150, 3*460 V
-	Q = 71 US gpm
40 -	H = 30.33 ft 100 %n = 96 % / 3848 rpm 96 % Pumped liquid = Water Liquid temperature during operation = 68 °F
35 -	Density = 62.29 lb/ft ³
30 -	63.1
25 -	
20 -	57
15 -	45
10 -	339
5-	33
	19 % Eff pump = 73.7 % Eff pump + motor + freq. conv = 63.2 %
0-	
P [HP]	NPSH [ft]
1.0 -	P1 (motor±freq.converter) -40
0.5 -	20
	P1 (motor+freq.converter) = 641.2 W P2 = 0.738 HP NPSH = 7.15 ft
0.0 -	NPSH = 7.15 IL

Maximum operating pressure: PN 16 bar Type of connection: **ANSI** Pipe connection: DN 40 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: 68 °F Selected liquid temperature: Density: 62.29 lb/ft3 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

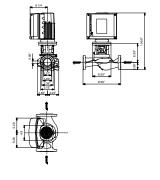
1.35 A

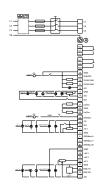
85.7%

85.7 %

360-4000 rpm

0.68





Rated current:

Rated speed:

IE efficiency:

Cos phi - power factor:

Motor efficiency at full load:



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Description	Value
Number of poles:	0
Enclosure class (IEC 34-5):	IP55
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:	50.1 lb
Gross weight:	66.6 lb
Config. file no:	98484775
Country of origin:	HU
Custom tariff no.:	8413.70.2022



Created by: Phone:

Date: 2/26/2020

Project: Client:

Reference number: Client number: Contact: 98819566 TPE3 40-150 S-A-G-I-BQQE-ECB 60 Hz TPE340-150 + 71A 0.55 kW 3*460 V, 60 Hz [A] eta 1.6 8.0 -1.2 0.6 0.8 0.4 0.2 -0.4 P2 = 0.738 HP cos phi = 0.61 Eta = 85.8 % I = 1.31 A 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70 P2[HP] n [rpm] [kW] P1 (motor+freq.converter) 3000 0.6 2000 0.4

1000

-0.2

0.0

P1 (motor+freq.converter) = 0.641 kW

n = 96 % / 3848 rpm



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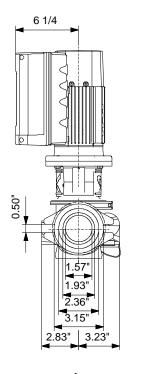
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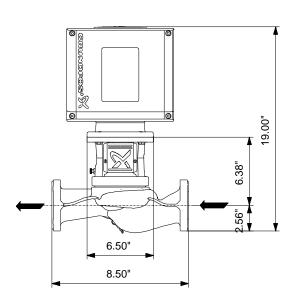
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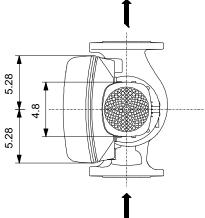
Reference number: Client number:

Contact:

98819566 TPE3 40-150 S-A-G-I-BQQE-ECB 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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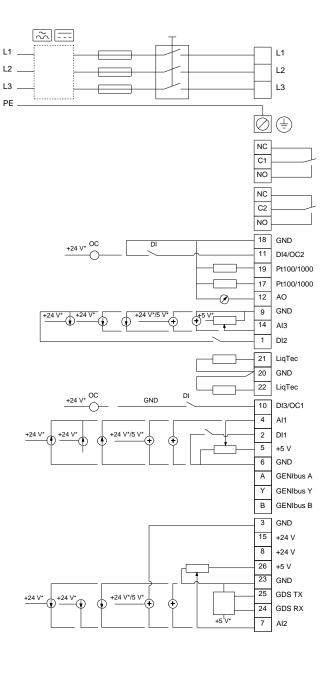
Reference number:

Client number:

Client:

Contact:

98819566 TPE3 40-150 S-A-G-I-BQQE-ECB 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 40-150 S-A-G-I-BQQE-ECB

Amount: 1

Product No.: 98819566 Price: \$7,225.00

Total: \$7,225.00