

PROJECT:	TPE3 READY TO SHIP	UNIT TAG:	_____	QUANTITY:	1
REPRESENTATIVE:	Hurley Engineering	TYPE OF SERVICE:	_____	DATE:	2/10/2020
ENGINEER:	_____	SUBMITTED BY:	Devin Carle	DATE:	_____
CONTRACTOR:	To Be Determined	APPROVED BY:	_____	DATE:	_____
		ORDER NO.:	_____	DATE:	_____

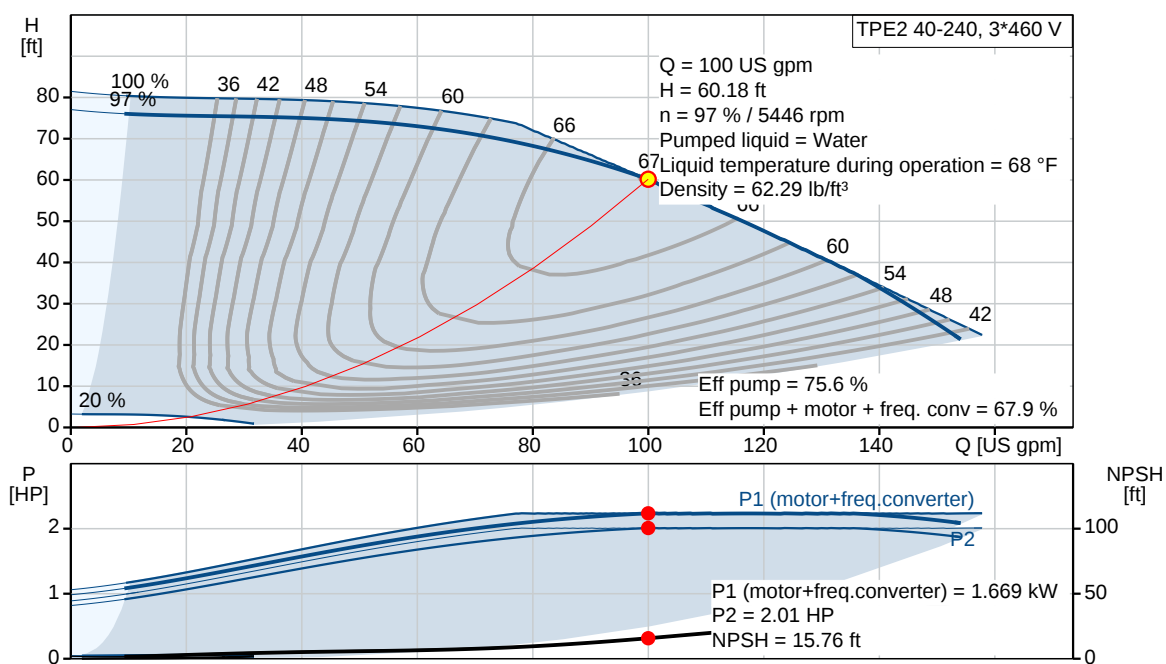


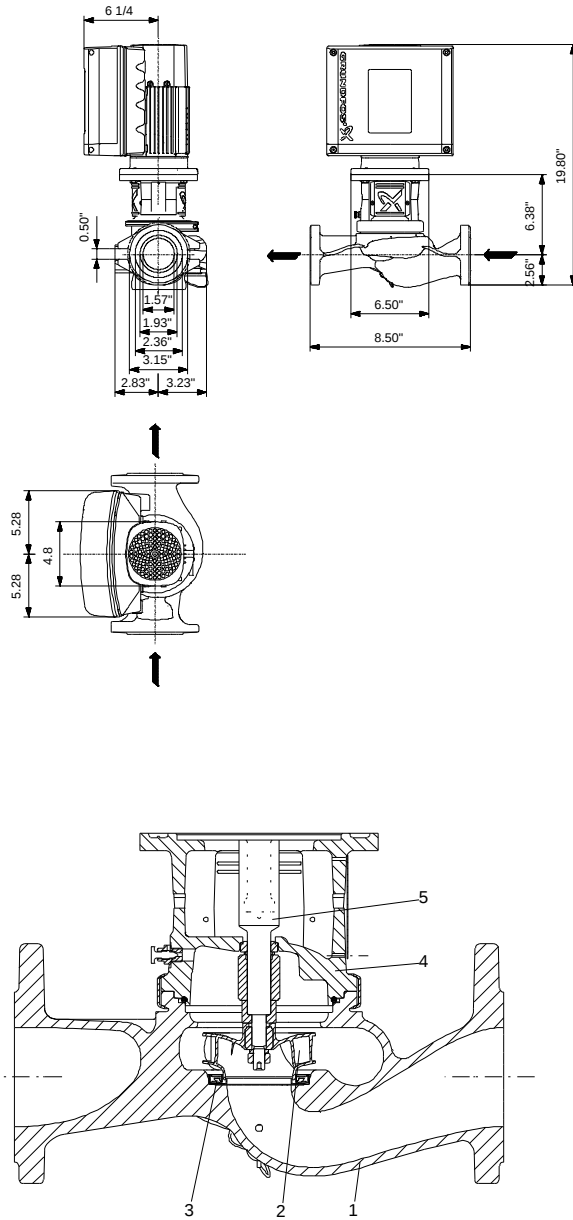
TPE2 40-240 N-A-G-I-BQQE-HCC

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: 100 US gpm	Liquid temperature range: -13 .. 248 °F	Rated power - P2: 2 HP
Head: 60.18 ft	Maximum ambient temperature: 122 °F	Rated voltage: 440-480 V
Efficiency: 67.9 %	Shaft seal: BQQE	Main frequency: 60 Hz
Liquid: Water	Pipe connection: DN 40	Number of poles: 0
Temperature: 68 °F	Product number: 98817718	Enclosure class: IP55
NPSH required: 15.76 ft		Insulation class: F
Viscosity: _____		Motor protection: YES
Specific Gravity: 1.000		Motor type: 90B
		Motor_efficiency: 88.4 %





Materials:

Pump housing: Stainless steel
ASTM CF8

Impeller: Composite PES/PP 30%
GF

Material code: I

Count	Description
1	TPE2 40-240 N-A-G-I-BQQE-HCC  Product No.: 98817718 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. Further product details The stainless-steel pump housing makes the pump suitable for circulation of hot water. The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator. The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". Communication with the pump is also possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". The Grundfos Eye indicator on the operating panel provides visual indication of pump status: • "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) • "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) • "Alarm": Motor has stopped (flashing red indicator lights). Pump Pump housing and pump head are electrocoated to improve the corrosion resistance. Electrocoating includes: 1) Alkaline-based cleaning. 2) Pretreatment with zinc phosphate coating. 3) Cathodic electrocoating (epoxy). 4) Curing of paint film at 200-250 °C.



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Phone:

Date: 2/28/2020

Count	Description
	The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft. Primary seal: • Rotating seal ring material: silicon carbide (SiC) • Stationary seat material: silicon carbide (SiC) This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles. Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils. A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal. Motor The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2. Technical data 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: 100 US gpm Resulting head of the pump: 60.18 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 Pipe connection: DN 40 Pressure rating for pipe connection: PN 16 Flange size for motor: 56C Electrical data:

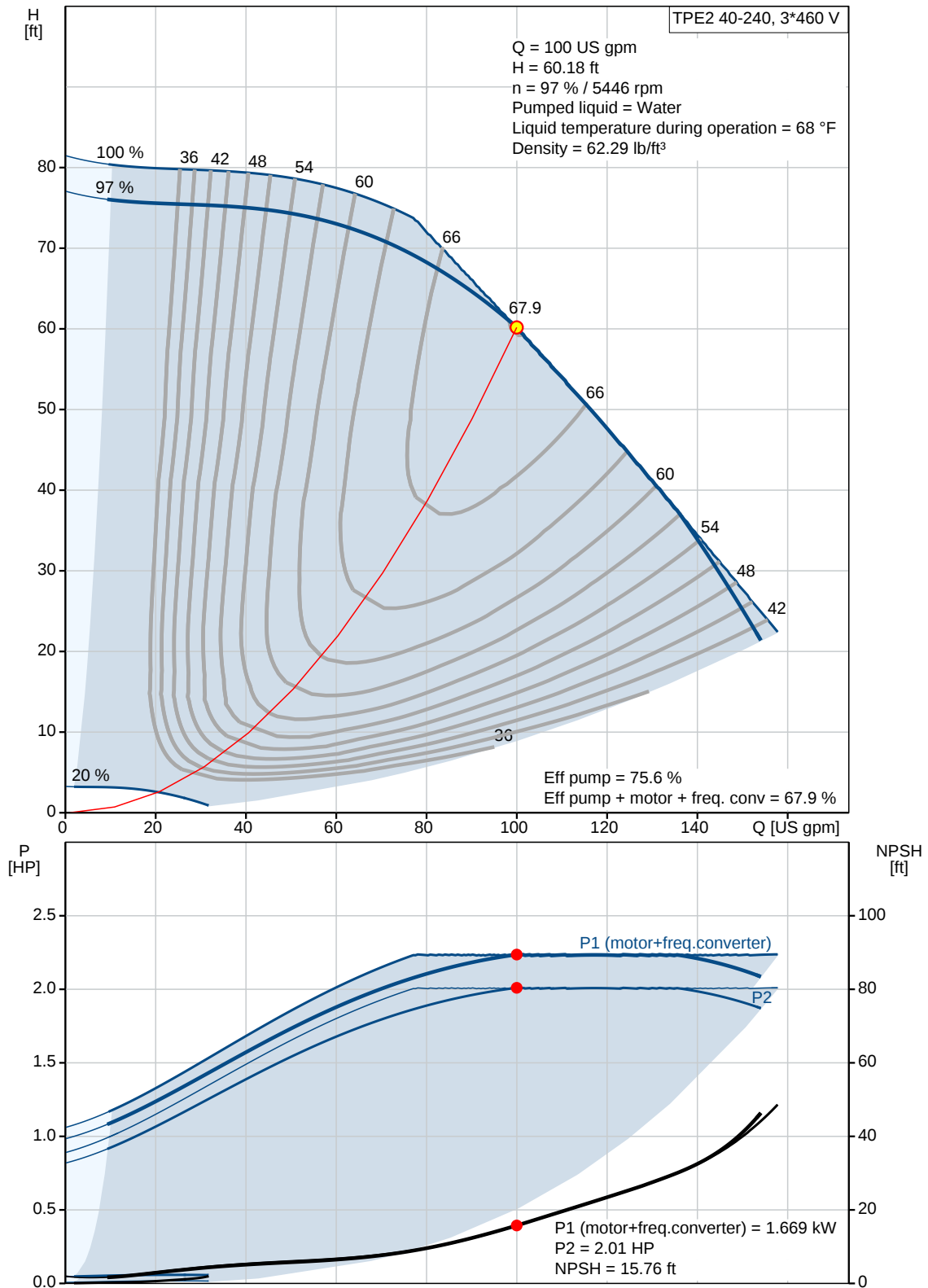


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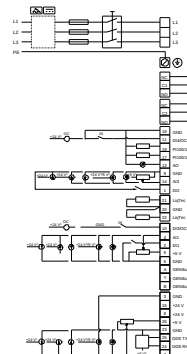
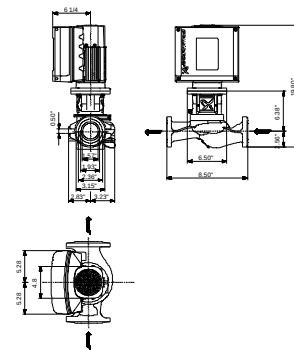
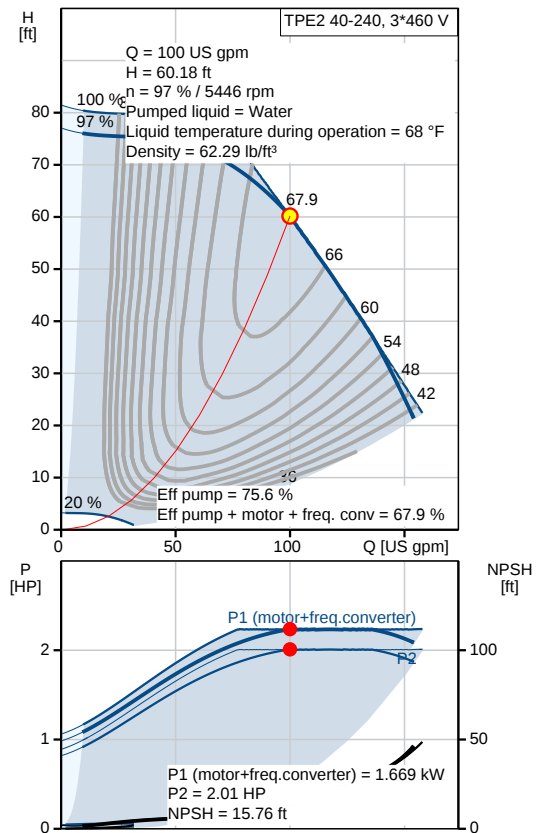
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Count	Description
	Motor type: 90B IE Efficiency class: IE5 Rated power - P2: 2 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 2.8 A Cos phi - power factor: 0.83 Rated speed: 480-5900 rpm IE efficiency: 88.4% Motor efficiency at full load: 88.4 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor Number: 99630350 Others: DOE Pump Energy Index VL: 0.35 Net weight: 54.2 lb Gross weight: 70.8 lb

98817718 TPE2 40-240 N-A-G-I-BQQE-HCC 60 Hz



Description	Value
General information:	
Product name:	TPE2 40-240
	N-A-G-I-BQQE-HCC
Product No.:	98817718
EAN:	5712601809979
	5712601809979
Technical:	
Pump speed on which pump data is based:	5500 rpm
Actual calculated flow:	100 US gpm
Resulting head of the pump:	60.18 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
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
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/ft³
Electrical data:	
Motor type:	90B
IE Efficiency class:	IE5
Rated power - P2:	2 HP
Main frequency:	60 Hz
Rated voltage:	3 x 440-480 V
Rated current:	2.8 A
Cos phi - power factor:	0.83
Rated speed:	480-5900 rpm
IE efficiency:	88.4%
Motor efficiency at full load:	88.4 %
Number of poles:	0
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protection:	YES
Motor Number:	99630350



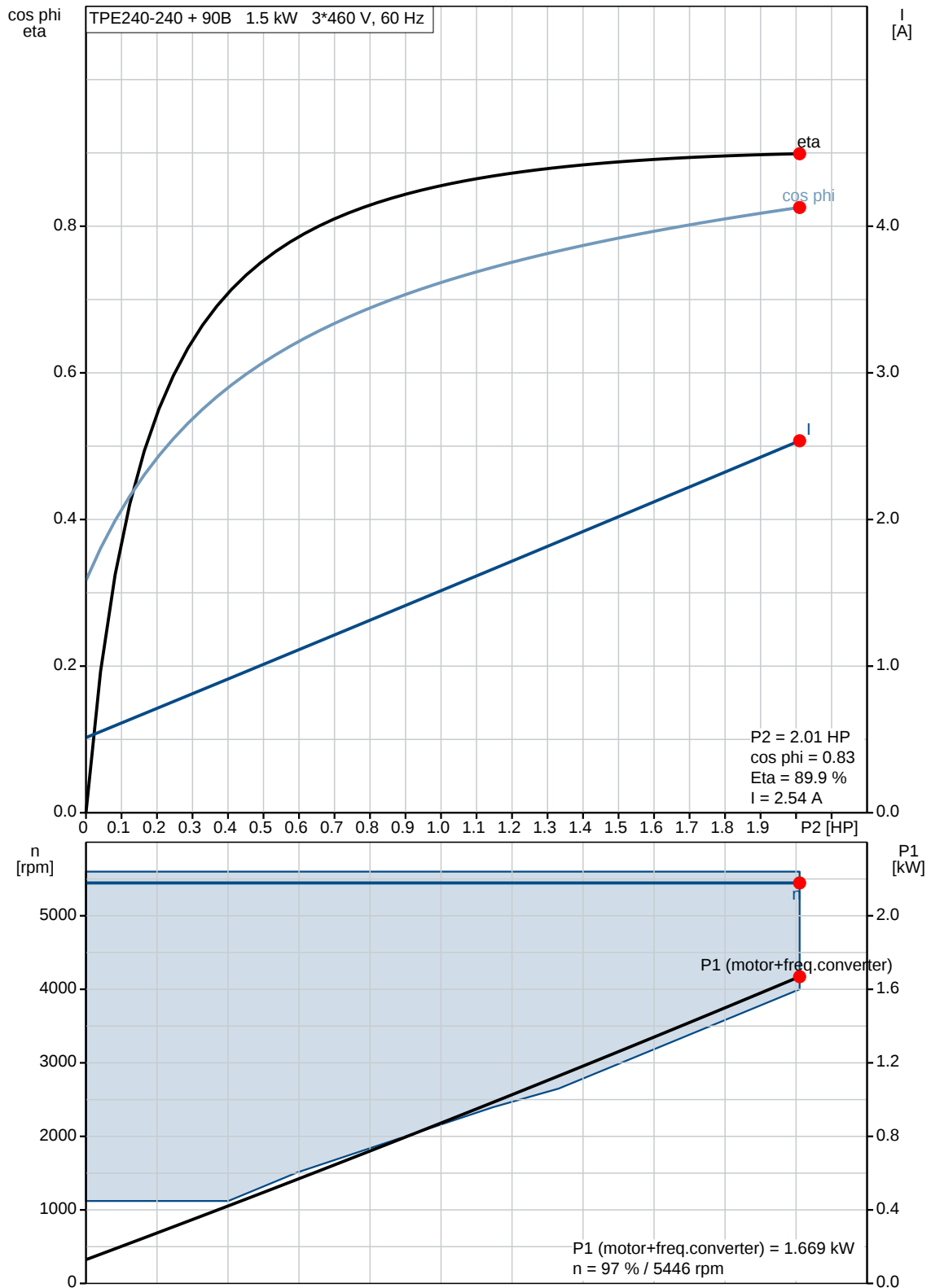


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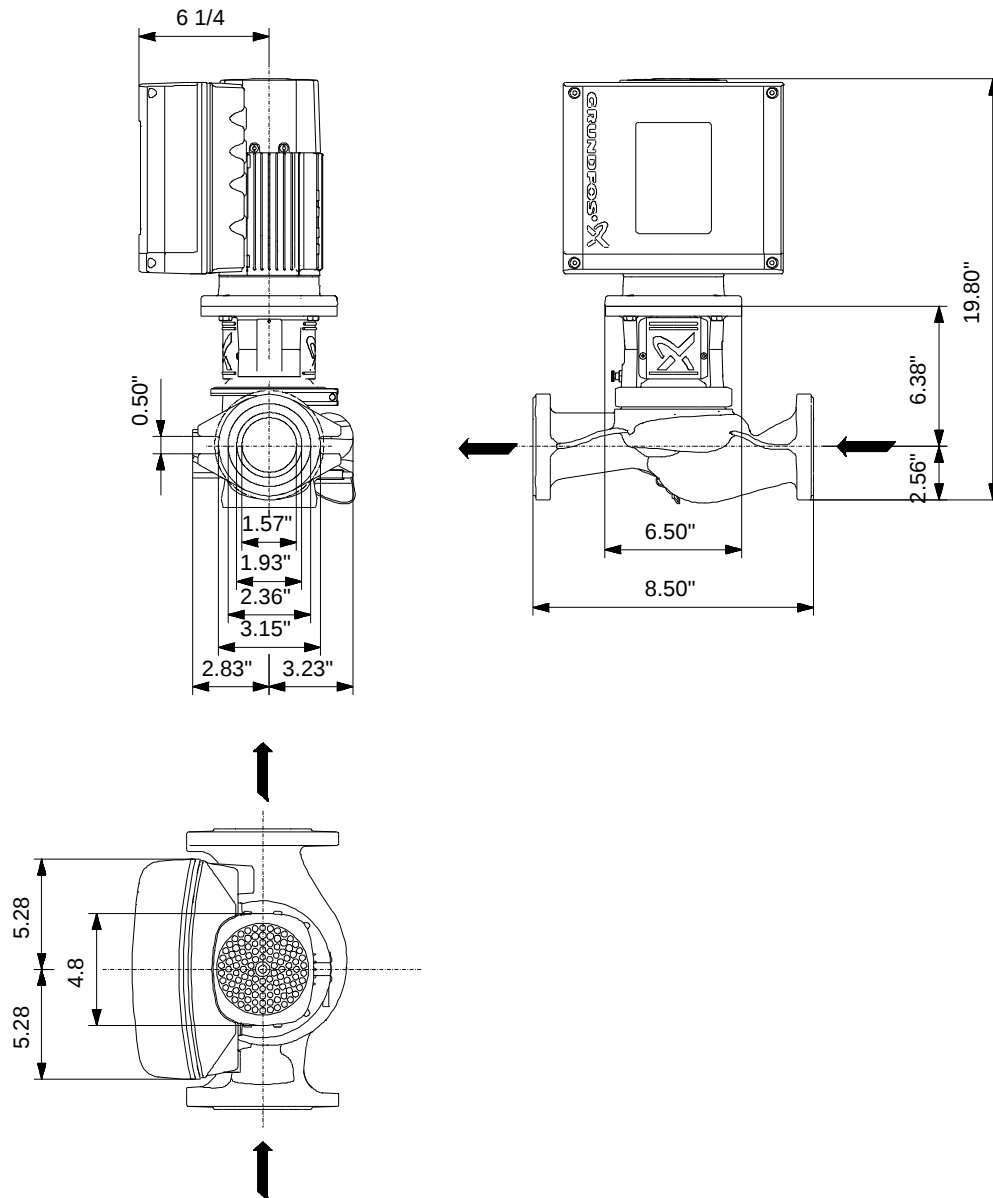
Date: 2/28/2020

Description	Value
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	
DOE Pump Energy Index VL:	0.35
Net weight:	54.2 lb
Gross weight:	70.8 lb
Config. file no:	98819256

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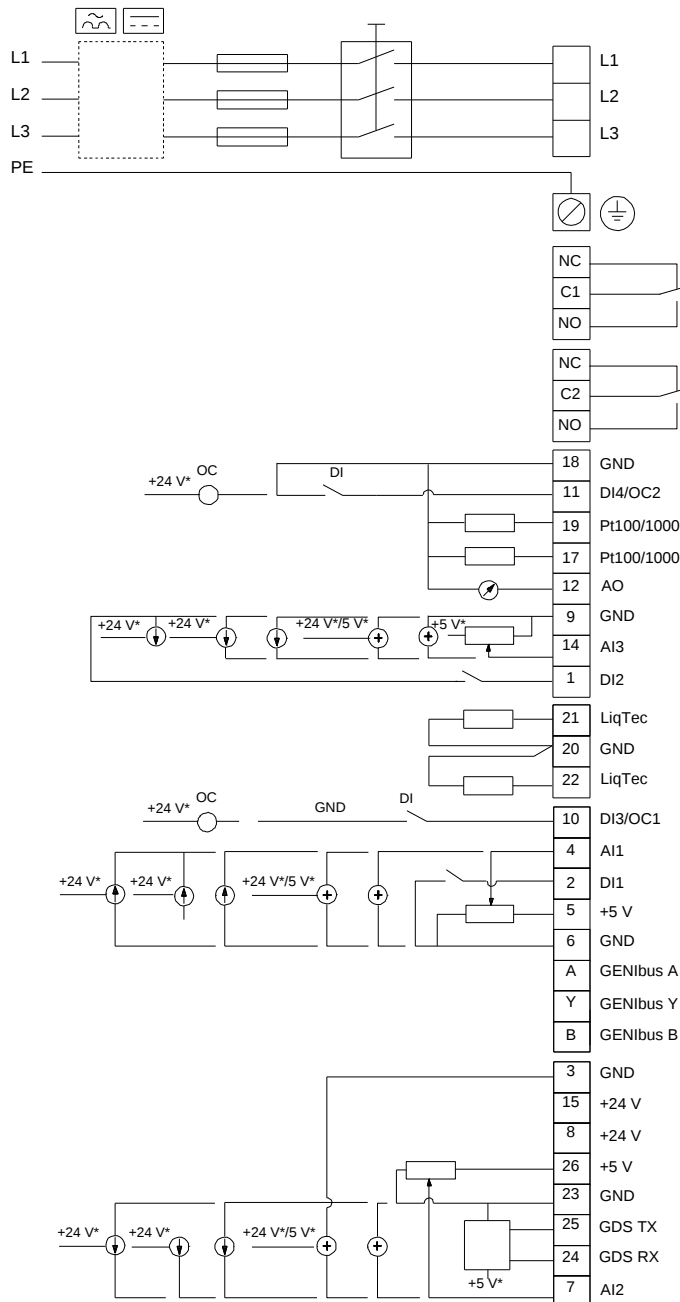


98817718 TPE2 40-240 N-A-G-I-BQQE-HCC 60 Hz



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

98817718 TPE2 40-240 N-A-G-I-BQQE-HCC 60 Hz



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Company name: Hurley Engineering
Created by:
Phone:

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Order Data:

Product name: TPE2 40-240 N-A-G-I-BQQE-HCC
Amount: 1
Product No.: 98817718

Total: Price on request
