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:	



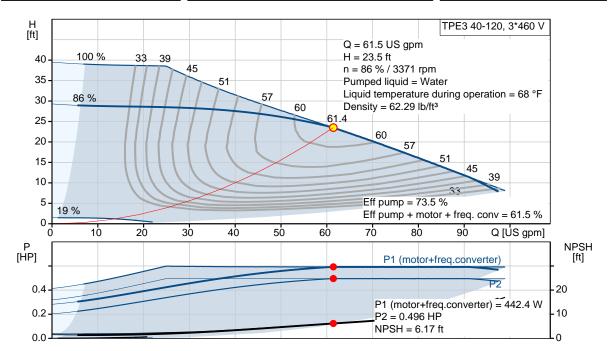
TPE3 40-120 S-A-G-I-BQQE-DCB

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

Product photo could vary from the actual product

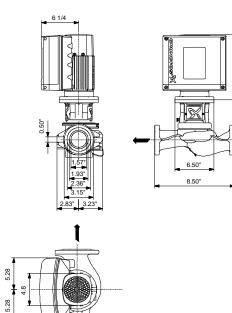
Conditions	s of Service	
Flow:	61.5 US gpm	Liquid
Head:	23.5 ft	Maxim
Efficiency:	61.5 %	Shaft s
Liquid:	Water	Pipe c
Temperature:	68 °F	Produc
NPSH required:	6.17 ft	
Viscosity:		
Specific Gravity:	1.000	

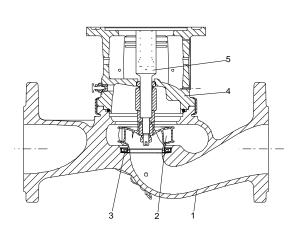
Pump Data		Motor Da	ata
Liquid temperature range:	-13 248 °F	Rated power - P2:	0.5 HP
Maximum ambient temperature:	122 °F	Rated voltage:	440-480 V
Shaft seal:	BQQE	Main frequency:	60 Hz
Pipe connection:	DN 40	Number of poles:	0
Product number:	98819565	Enclosure class:	IP55
		Insulation class:	F
		Motor protection:	YES
		Motor type:	71A
		Motor_efficiency:	82.9 %





Submittal Data





Materials:

19.00"

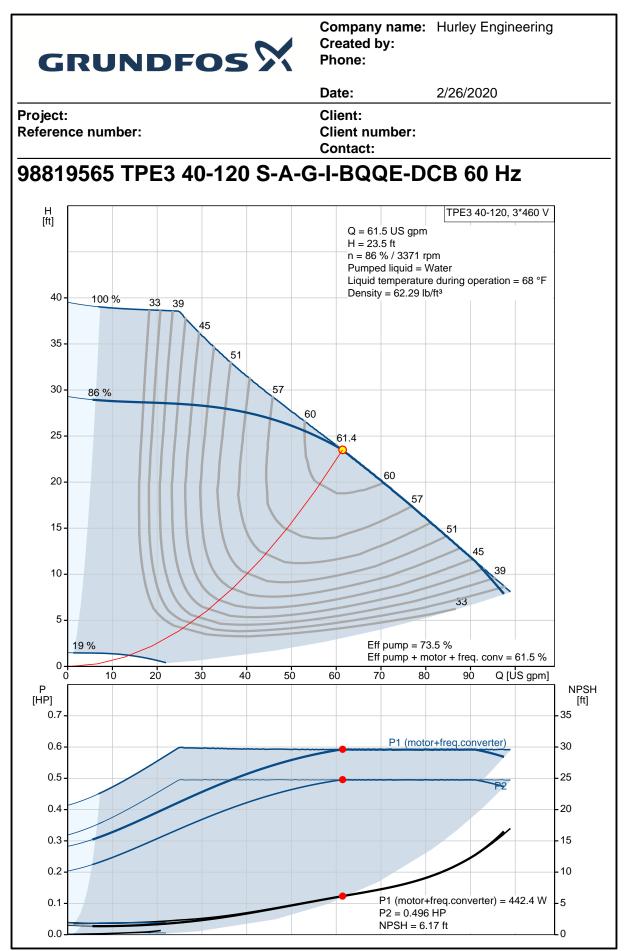
6.38"

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

G	RUNDFOS	×	Company name: Created by: Phone:	Hurley Engineering
_			Date:	2/26/2020
Projec Refere	t: nce number:		Client: Client number: Contact:	
Count	Description			
1	TPE3 40-120 S-A-G-I-BQQE-D	СВ		
	Product No.: 98819565			
	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 requiren	service while N 12756. Pipe 6 ANSI flang bled, permane with IEC 60 converter and the motor spe	the pump housing re ework connection is v es. ent-magnet synchrono 034-30-2. d PI 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/ft³	-	
	Technical:	(0000	
	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: 61.5 US gpr 23.5 ft 2.91 in BQQE ISO9906:20	n	
	Materials: Pump housing:	Stainless ste	eel	
	Impeller:	ASTM CF8 EN 1.4308 Composite F	PES/PP 30% GF	
	Installation: Range of ambient temperature: Maximum operating pressure: Type of connection:	-4 122 °F PN 16 bar ANSI		

GRUNDFOS

		Dat	e:	2/26/2020
Projec Refere	t: nce number:		nt: nt number: itact:	
Count	Description	Cor		
oount	-	DN 40		
	Pipe connection: Pressure rating for pipe conne Flange size for motor:			
	Electrical data:			
	Motor type:	71A		
	IE Efficiency class:	IE5		
	Rated power - P2:	0.5 HP		
	Main frequency:	60 Hz		
	Rated voltage:	3 x 440-480 V		
	Rated current:	1.05 A		
	Cos phi - power factor:	0.60		
	Rated speed:	360-4000 rpm		
	IE efficiency:	82.9%		
	Motor efficiency at full load:	82.9 %		
	Number of poles:	0		
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor Number:	99630335		
	Others:	50.1 lb		
	Net weight:			
	Gross weight:	66.6 lb		
	Country of origin:	HU		
	Custom tariff no.:	8413.70.2022		



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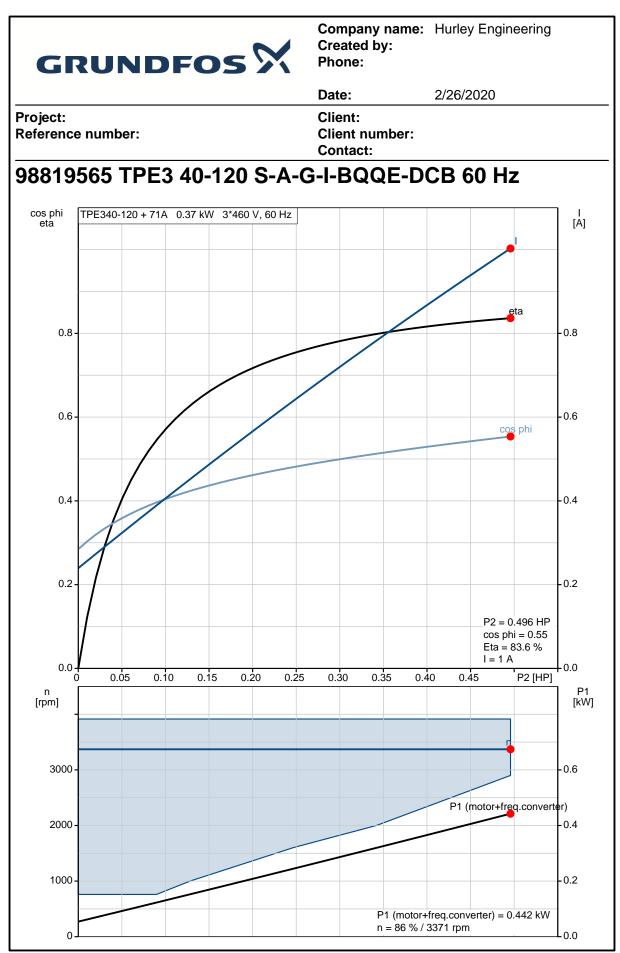


		Date: 2/26/2020
Project: Reference number:		Client: Client number: Contact:
Description	Value	H [ft] TPE3 40-120, 3*460 V
General information:	Value	Q = 61.5 US gpm
Product name:	TPE3 40-120 S-A-G-I-BQQE-DCB	H = 23.5 ft 40 - 100 % Pumped liquid = Water
Product No.:	98819565	Liquid temperature during operation = 68 °F 35 Density = 62.29 lb/ft ³
EAN:	5712601842600 5712601842600	30 - 86 % 57
Price:	\$ 6,895.00	60 61.4
Technical:		
Pump speed on which pump data is based:	3390 rpm	20-60
Actual calculated flow:	61.5 US gpm	15-51
Resulting head of the pump:	23.5 ft	10 39
Head max:	39.37 ft	33
Actual impeller diameter:	2.91 in	5 - Eff pump = 73.5 %
Code for shaft seal:	BQQE	$\frac{19\%}{\text{Eff pump + motor + freq. conv} = 61.5\%}$
Curve tolerance:	ISO9906:2012 3B2	0 20 40 60 Q [US gpm]
Pump version:	A	P NPSH [HP]
Materials:		0.6 P1 (motor+freq.converter)30
Pump housing:	Stainless steel	0.0
	ASTM CF8	0.4 Pz - 20
	EN 1.4308	0.4
Impeller:	Composite PES/PP 30% GF	0.2 - P1 (motor+freq.converter) = 442.4 W = 10
Material code:		P2 = 0.496 HP NPSH = 6.17 ft
Installation:		
Range of ambient temperature:	-4122 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:	14/	
Liquid temperature range:	Water	
Selected liquid temperature:	-13 248 °F 68 °F	— t
Density:	62.29 lb/ft ³	
Electrical data:	02.29 10/11-	
Motor type:	71A	
IE Efficiency class:	IE5	
Rated power - P2:	0.5 HP	
Main frequency:	60 Hz	
Rated voltage:	3 x 440-480 V	
Rated current:	1.05 A	
Cos phi - power factor:	0.60	
Rated speed:	360-4000 rpm	
IE efficiency:	82.9%	
Motor efficiency at full load:	82.9 %	

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		Date:	2/26/2020
Project: 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:	99630335		
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:	98484774		
Country of origin:	HU		
Custom tariff no .:	8413.70.2022		



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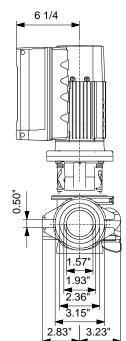


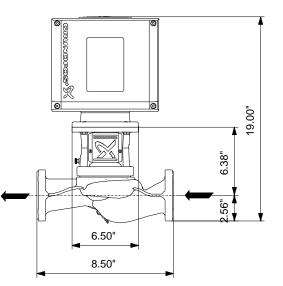
2/26/2020

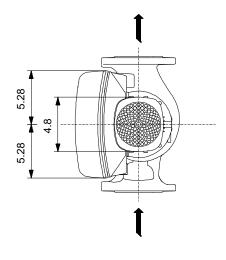
Project: Reference number: Date:

Client: Client number: Contact:

98819565 TPE3 40-120 S-A-G-I-BQQE-DCB 60 Hz







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

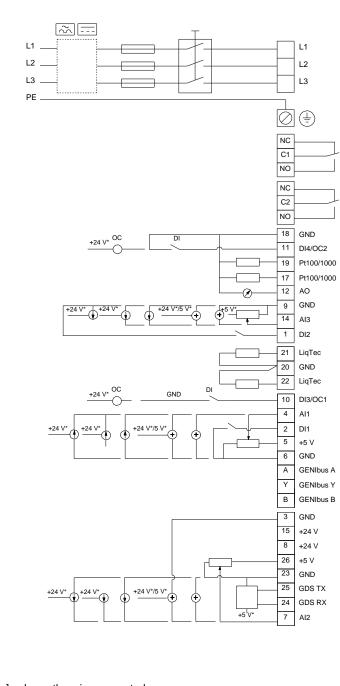


2/26/2020

Project: Reference number: Date:

Client: Client number: Contact:

98819565 TPE3 40-120 S-A-G-I-BQQE-DCB 60 Hz



All units are [in] unless otherwise presented.

Date: 2/26/2020 tt: Client: ence number: Client number: Contact: Order Data: Product name: TPE3 40-120 S-A-G-I-BQQE-DCB
ence number: Client number: Contact: Order Data:
Product name: TPE3 40-120 S-A-G-I-BQQE-DCB
Amount: 1 Product No.: 98819565 Price: \$ 6,895.00 Total: \$ 6,895.00