

Submittal Data

PROJECT:	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:	



TPE2 80-180 N-A-G-I-BQQE-ICB

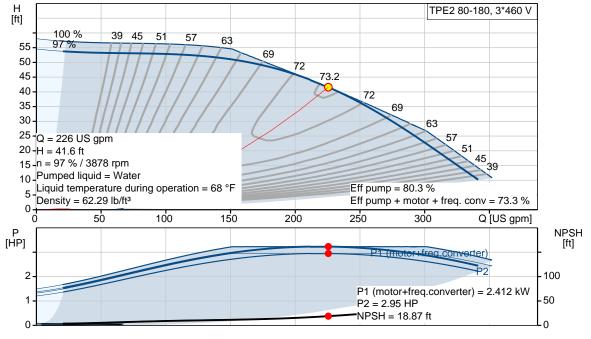
Single-stage stainless steel in-line pumps with frequency converters

Product photo could vary from the actual product

Conditions of Service		
Flow:	226 US gpm	
Head:	41.6 ft	
Efficiency:	73.3 %	
Liquid:	Water	
Temperature:	68 °F	
NPSH required:	18.87 ft	
Viscosity:		
Specific Gravity:	1.000	
1		

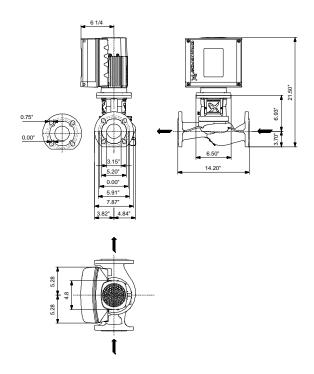
Pump Data				
Liquid temperature range:	-13 248 °F			
Maximum ambient temperature:	122 °F			
Shaft seal:	BQQE			
Pipe connection:	DN 80			
Product number:	98817841			

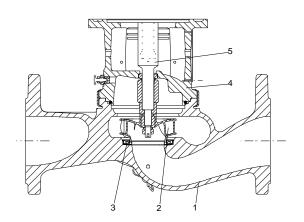
Motor Data			
Rated power - P2:	3 HP		
Rated voltage:	440-480 V		
Main frequency:	60 Hz		
Number of poles:	0		
Enclosure class:	IP55		
Insulation class:	F		
Motor protection:	YES		
Motor type:	90D		
Motor_efficiency:	90.7 %		





Submittal Data





Materials:

Pump housing: Stainless steel

ASTM CF8

Composite PES/PP 30% GF Impeller:

Material code:



Created by: Phone:

Date: 2/28/2020

Count | Description

TPE2 80-180 N-A-G-I-BQQE-ICB



Product No.: 98817841

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.



Created by: 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: 3900 rpm

Actual calculated flow: 226 US gpm
Resulting head of the pump: 41.6 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
Pipe connection: DN 80
Pressure rating for pipe connection: PN 16
Flange size for motor: 56C

Electrical data:



Created by: Phone:

Date: 2/28/2020

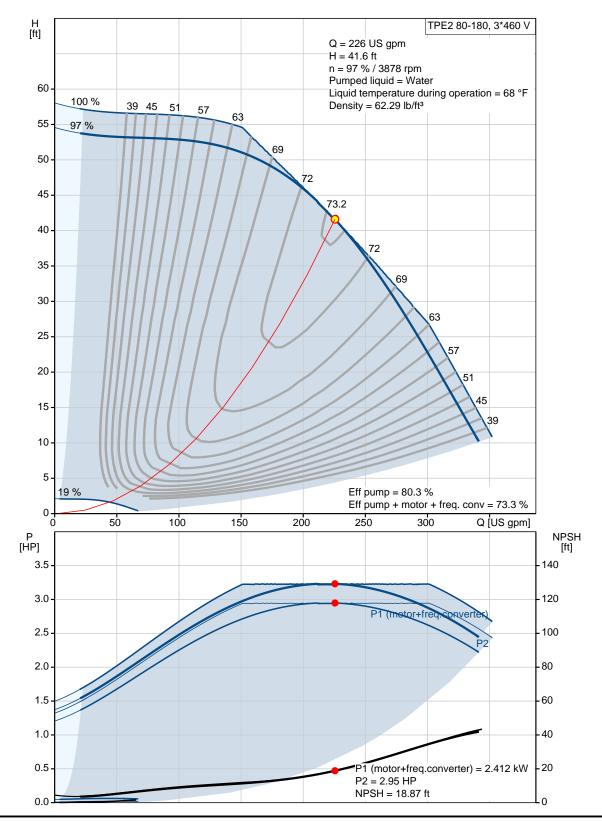
Count **Description** 90D Motor type: IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor Number: 99630349 Others: DOE Pump Energy Index VL: 0.38 Net weight: 74.7 lb Gross weight: 93.9 lb



Created by: Phone:

Date: 2/28/2020

98817841 TPE2 80-180 N-A-G-I-BQQE-ICB 60 Hz

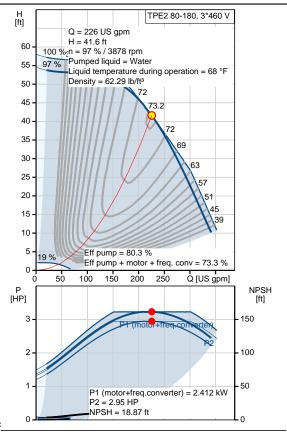


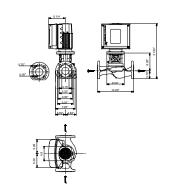


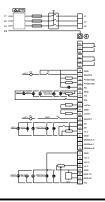
Created by: Phone:

Date: 2/28/2020

Description	General information: Product name: TPE2 80-180 N-A-G-I-BQQE-ICB Product No.: 98817841 EAN: 5712601812467 Technical: 5712601812467 Pump speed on which pump data is based: 3900 rpm Actual calculated flow: 226 US gpm Resulting head of the pump: 41.6 ft Head max: 59.06 ft Actual impeller diameter: 3.54 in Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: Stainless steel Pump version: A Materials: Composite PES/PP 30% Impeller: Composite PES/PP 30% Material code: I Installation: Range of ambient temperature: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 80 Pressure rating for pipe connection: GC Conne		
Product name: TPE2 80-180	General information: Product name: TPE2 80-180 N-A-G-I-BQQE-ICB Product No.: 98817841 EAN: 5712601812467 Technical: 5712601812467 Pump speed on which pump data is based: 3900 rpm Actual calculated flow: 226 US gpm Resulting head of the pump: 41.6 ft Head max: 59.06 ft Actual impeller diameter: 3.54 in Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: ISO9906:2012 3B2 Pump housing: Stainless steel ASTM CF8 EN 1.4308 Impeller: Composite PES/PP 30% GF Material code: I Installation: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: DN 80 Pressure rating for motor: 56C Connect code: G	Description	Value
Product name: N-A-G-I-BQQE-ICB Product No.: 98817841 EAN: 5712601812467 Technical: Pump speed on which pump data is based: 3900 rpm Actual calculated flow: 226 US gpm Resulting head of the pump: 41.6 ft Head max: 59.06 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: I Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: DN 80 Pressure rating for pipe connection: 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 0.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Product No.: 98817841 EAN: 5712601812467 5712601812467 5712601812467 Technical: Pump speed on which pump data is based: 3900 rpm Actual calculated flow: 226 US gpm Resulting head of the pump: 41.6 ft Head max: 59.06 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: Gomposite PES/PP 30% GF Material code: I Installation: I Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: DN 80 Pressure rating for pipe connection: GC Connect code: G Liquid: Water Pumped liquid:		
EAN: 5712601812467	EAN: 5712601812467	Product name:	
Technical: Pump speed on which pump data is based: Actual calculated flow: Resulting head of the pump: 41.6 ft Head max: 59.06 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: GF Material code: Installation: Range of ambient temperature: Pipe of connection: Pipe connection: Pressure rating for pipe connection: Flange size for motor: Connect code: GC Cunet code: GC Cunet derance: Flectrical data: Motor type: Bettical code: Rated power - P2: Rated voltage: Rated speed: Rated spee	Technical: Pump speed on which pump data is based: Actual calculated flow: Resulting head of the pump: 41.6 ft Head max: 59.06 ft Actual impeller diameter: Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: Pump housing: Stainless steel ASTM CF8 EN 1.4308 Impeller: Material code: Installation: Range of ambient temperature: ANSI Pipe connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Cuquid: Pumped liquid: Liquid temperature range: Plange diquid temperature: Belected liquid temperature: 68 °F Density: Selected liquid temperature: Belectrical data: Motor type: Pon 16 Belectrical data: Motor type: Belectrical data: Motor fype: Belectrical data: Motor ficiency at full load: Belectrical ficiency: Belectrical	Product No.:	98817841
Technical: Pump speed on which pump data is based: Actual calculated flow: Resulting head of the pump: Head max: Actual impeller diameter: Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: Pump housing: Stainless steel ASTM CF8 EN 1.4308 Impeller: Grey of ambient temperature: Installation: Range of ambient temperature: Type of connection: Pressure rating for pipe connection: Plange size for motor: Connect code: Cuquid temperature: Balental inguid: Water Liquid temperature: Centrical data: Motor type: Belected liquid temperature: Belectical data: Belectical data: Belected liquid temperature: Belectical data: Belectica	Technical: Pump speed on which pump data is based: Actual calculated flow: Resulting head of the pump: Head max: Sp.06 ft Actual impeller diameter: 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: A 122 °F Maximum operating pressure: Pye of connection: ANSI Pipe of connection: Pipe connection: PN 16 Connect code: GConnect code: GCONDEN SAVAGARA GCOS BAVAGARA GCOS BAVAG	EAN:	5712601812467
Pump speed on which pump data is based: Actual calculated flow: Resulting head of the pump: Head max: Sepurate of the fire of the pump: Head max: Sepurate of the pump: Head max: H	Pump speed on which pump data is based: Actual calculated flow: Resulting head of the pump: Head max: Code for shaft seal: Curve tolerance: Pump housing: AsTM CF8 EN 1.4308 Impeller: Material code: Installation: Range of ambient temperature: Auximum operating pressure: Pipe connection: Plange size for motor: Connect code: Liquid: Pumped liquid: P		5712601812467
Actual calculated flow: 226 US gpm Resulting head of the pump: 41.6 ft Head max: 59.06 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: I Installation: I Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 80 Pressure rating for pipe connection: PN 16 Flange size for motor: 56C Connect code: G Liquid: Water Pumped liquid: Water Liquid temperature range: -13 248 °F Selected liquid temperature: 68 °F Density: 60.229 lb/ft³ Electrical data:	Actual calculated flow: 226 US gpm Resulting head of the pump: 41.6 ft Head max: 59.06 ft Actual impeller diameter: 3.54 in Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: Fump housing: Stainless steel ASTM CF8 EN 1.4308 EN 1.4308 Impeller: Composite PES/PP 30% GF Material code: I Installation: I Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 80 Pressure rating for pipe connection: DN 16 Flange size for motor: 56C Connect code: G Liquid: Water Pumped liquid: Water Liquid temperature range: -13 248 °F Selected liquid temperature: 68 °F Density: 60 P Electrical data:	Technical:	
Resulting head of the pump: 41.6 ft Head max: 59.06 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: 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 80 Pressure rating for pipe connection: Flange size for motor: 56C Connect code: G Liquid: Pumped liquid: Water Liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 355): IP55 Insulation class (IEC 355): IP55 Insulation class (IEC 355): IP55	Resulting head of the pump: 41.6 ft Head max: 59.06 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: Gromposite 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 80 Pressure rating for pipe connection: 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7% Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Pump speed on which pump data is based:	3900 rpm
Head max: 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: I Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 80 Pressure rating for pipe connection: 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Head max: 59.06 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: Gromposite 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 80 Pressure rating for pipe connection: 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Actual calculated flow:	226 US gpm
Actual impeller diameter: 3.54 in Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: Pump housing: Stainless steel	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: I Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 80 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Resulting head of the pump:	41.6 ft
Code for shaft seal: Curve tolerance: 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: Type of connection: Pipe connection: Pipe connection: Pipe connection: Flange size for motor: Connect code: GConnect code: GConnect code: GConnect iquid: Fleurid temperature: Connect liquid: Water Liquid temperature range: Selected liquid temperature: Belected liquid temperature: GC2.29 lb/ft³ Electrical data: Motor type: Belectical code: GC3 HP Main frequency: ANSI Pipe CONDECTION: Belected liquid temperature: Belectrical data: Motor type: Belectrical data: Bele	Code for shaft seal: Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: Pump housing: Stainless steel ASTM CF8 EN 1.4308 Composite PES/PP 30% GF Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: Pipe connection: Pipe connection: PN 16 Connection: Flange size for motor: 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: IE Efficiency class: Rated power - P2: Rated voltage: Rated voltage: Rated voltage: Rated speed: Rated current: Cos phi - power factor: BeQQE ISO9906:2012 3B2 A AMSI Pumposite PES/PP 30% BQF BON	Head max:	59.06 ft
Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: Pump housing: Stainless steel	Curve tolerance: ISO9906:2012 3B2 Pump version: A Materials: Pump housing: Stainless steel	Actual impeller diameter:	3.54 in
Pump version: Materials: Pump housing: Stainless steel ASTM CF8 EN 1.4308 Composite PES/PP 30% GF Material code: Installation: Range of ambient temperature: Type of connection: Pipe connection: Pipe connection: Piange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature: Motor type: Belectrical data: Motor type: Belecting in requency: Rated power - P2: Rated voltage: Rated speed: Rated sp	Pump version: Materials: Pump housing: Stainless steel ASTM CF8 EN 1.4308 Composite PES/PP 30% GF Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 80 Pressure rating for pipe connection: Flange size for motor: 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: IE Efficiency class: Rated power - P2: Al HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: IE efficiency class: IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: Connoction: YES	Code for shaft seal:	BQQE
Materials: Pump housing: Stainless steel ASTM CF8 EN 1.4308 Composite PES/PP 30% GF Material code: Installation: Range of ambient temperature: Type of connection: Pipe connection: Pipe connection: Phange size for motor: Flange size for motor: Connect code: GConnect code: GLiquid: Pumped liquid: Water Liquid temperature range: Liquid temperature: Belected liquid temperature: G8 °F Density: G2.29 lb/ft³ Electrical data: Motor type: Phange size for motor: Belected liquid temperature: G8 °F Density: Belectrical data: Motor type: Belectrical data: Belectrical data: Motor type: Belectrical data: Belectrical da	Materials:Pump housing:Stainless steelASTM CF8EN 1.4308Impeller:Composite PES/PP 30% GFMaterial code:IInstallation:-4 122 °FRange of ambient temperature:-4 122 °FMaximum operating pressure:PN 16 barType of connection:DN 80Pressure rating for pipe connection:PN 16Flange size for motor:56CConnect code:GLiquid:WaterLiquid temperature range:-13 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Motor type:Motor type:90DIE Efficiency class:IE5Rated power - P2:3 HPMain frequency:60 HzRated voltage:3 x 440-480 VRated current:3.8 ACos phi - power factor:0.89Rated speed:360-4000 rpmIE efficiency:90.7%Motor efficiency at full load:90.7 %Number of poles:0Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor protection:YES	Curve tolerance:	ISO9906:2012 3B2
Pump housing: ASTM CF8 EN 1.4308 Impeller: Composite PES/PP 30% GF Material code: Installation: Range of ambient temperature: PN 16 bar Type of connection: Pipe connection: Pipe connection: PN 16 Flange size for motor: Connect code: G Liquid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Belectrical data: Motor type: Belectrical data: Motor type: Belected voltage: Rated voltage: Rated voltage: Rated speed: Rated speed: Belecticency class: Rated speed: Rated speed: Belecticency class: Rated speed: Belecticency: Belected: B	Pump housing: ASTM CF8 EN 1.4308 Composite PES/PP 30% GF Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: Pipe connection: Phange size for motor: Flange size for motor: Flange size for motor: GC Connect code: GC Liquid: Pumped liquid: Uater Liquid temperature range: Selected liquid temperature: Belectrical data: Motor type: Belectrical data: Motor type: Belectrical column of the motor of the moto	Pump version:	A
ASTM CF8 EN 1.4308 Impeller: GF Material code: I Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	ASTM CF8 EN 1.4308 Impeller: Green	Materials:	
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: DN 80 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	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 80 Pressure rating for pipe connection: Flange size for motor: 56C Connect code: G Liquid: Water Liquid temperature range: -13 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Pump housing:	Stainless steel
Impeller: Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: Pipe connection: DN 80 Pressure rating for pipe connection: Flange size for motor: Flange size for motor: Connect code: G Liquid: Pumped liquid: Water Liquid temperature range: -13 248 °F Selected liquid temperature: 68 °F Density: Electrical data: Motor type: PS Electrical cy size for motor: Barage size for motor: Connect code: G Liquid: Pumped liquid: Usage size for motor: Flange size for motor: Flan	Impeller: Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: Pipe connection: Pipe connection: PN 16 Pressure rating for pipe connection: Flange size for motor: Connect code: G Liquid: Pumped liquid: Liquid temperature range: Liquid temperature range: -13 248 °F Selected liquid temperature: 68 °F Density: Electrical data: Motor type: PS ated power - P2: Main frequency: Rated voltage: Rated voltage: Rated speed: Rated speed: Befficiency: Rated speed: Befficiency: Rated speed: Befficiency: PO - 7% Motor efficiency at full load: PO - 755 Insulation class (IEC 85): F Motor protection: VES	<u> </u>	ASTM CF8
Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: Pipe connection: Pressure rating for pipe connection: Flange size for motor: Connect code: G Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: PMain frequency: Rated voltage: Rated voltage: Rated speed: Rated speed: Rated speed: Rated speed: Rated speed: Roll of the speed of the	Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: Flange size for motor: Connect code: G Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature range: Selected liquid temperature: 68 °F Density: Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: Main frequency: Rated voltage: Rated voltage: Rated speed: Go Hz Rated speed: Rated speed: Rated speed: Beficiency at full load: Notor protection: PN 16 Be G CO D Be G Be G Liquid: Be G Be F Density: Be G Be F Density: Be G Be F Density: Be G Be S Be S Be Density: Be G Be S Be S Be Density: Be S		EN 1.4308
Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: Flange size for motor: Flange size for motor: Connect code: GLiquid: Pumped liquid: Usater Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: Ale do Hz Rated voltage: Ale double size ficiency: Ale size	Material code: Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: Flange size for motor: Flange size for motor: Flange size for motor: 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: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 16 GHz Rated speed: 17 GHZ A40-480 V Rated speed: 18 GHZ A40-480 V Rated speed: 19 O.7% Motor efficiency at full load: Number of poles: 0 Enclosure class (IEC 34-5): Insulation class (IEC 85): F Motor protection: VES	Lanca a Hana	Composite PES/PP 30%
Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: Flange size for motor: Connect code: G Liquid: Pumped liquid: Uvater Liquid temperature range: Selected liquid temperature: 68 °F Density: Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: Main frequency: Rated voltage: Rated voltage: Rated speed: Rated speed: Befficiency at full load: Pon 122 °F ANSI PN 16 PN 16 CC 0000000000000000000000000000000000	Installation: Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: Flange size for motor: Connect code: G Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature range: -13 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 16 GA-4000 rpm IE efficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): F Motor protection: YES	impelier:	GF '
Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: Flange size for motor: Flange size for motor: Flange size for motor: Connect code: G Liquid: Pumped liquid: Uvater Liquid temperature range: Selected liquid temperature: 68 °F Density: Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: Befficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): F	Range of ambient temperature: -4 122 °F Maximum operating pressure: PN 16 bar Type of connection: DN 80 Pressure rating for pipe connection: 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency at full load: 90.7 % Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Material code:	I
Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 80 Pressure rating for pipe connection: 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Maximum operating pressure: PN 16 bar Type of connection: ANSI Pipe connection: DN 80 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Installation:	
Type of connection: Pipe connection: Pipe connection: Pressure rating for pipe connection: Plange size for motor: Connect code: G Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 1955 Rough And	Type of connection: Pipe connection: Pressure rating for pipe connection: Pressure rating for pipe connection: Flange size for motor: Flange size for motor: Flange size for motor: Connect code: G Liquid: Pumped liquid: Vater Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 90.7% Motor efficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protection: YES	Range of ambient temperature:	-4 122 °F
Pipe connection: Pressure rating for pipe connection: Flange size for motor: Connect code: G Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: IE Efficiency class: Rated power - P2: Rated voltage: Rated voltage: Rated voltage: Rated speed: Cos phi - power factor: Motor efficiency at full load: Motor efficiency class: Rated speed: Ra	Pipe connection: Pressure rating for pipe connection: Flange size for motor: Flange size for motor: Flange size for motor: Connect code: G Liquid: Pumped liquid: Uquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 16 Efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protection: Vater PN 16 PN 1	Maximum operating pressure:	PN 16 bar
Pressure rating for pipe connection: 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Pressure rating for pipe connection: 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: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Type of connection:	ANSI
connection: Flange size for motor: Connect code: G Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: Betefficiency class: Rated power - P2: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Betefficiency at full load: Rotor type: Betefficiency: Be	connection: Flange size for motor: Flange size for motor: Connect code: G Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 1E efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protection: YES	Pipe connection:	DN 80
Connect code: Liquid: Pumped liquid: Vater Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 1E efficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): F	Connect code: Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: Main frequency: Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency at full load: 90.7 % Number of poles: Consumer of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protection: Value Water Water Value Page Value		PN 16
Liquid: Pumped liquid: Vater Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): Insulation class (IEC 85): F	Liquid: Pumped liquid: Vater Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: Main frequency: Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: Cos phi - power class (IEC 34-5): Insulation class (IEC 85): Motor protection: VES	Flange size for motor:	56C
Pumped liquid: Water Liquid temperature range: -13 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Pumped liquid: Water Liquid temperature range: -13 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Connect code:	G
Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 16 efficiency: 90.7% Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): F	Liquid temperature range: Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protection: 98° P 90D 100 100 100 100 100 100 100	Liquid:	
Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Pumped liquid:	
Density: 62.29 lb/ft³ Electrical data: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Density: 62.29 lb/ft³ Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Liquid temperature range:	-13 248 °F
Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Electrical data: Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Selected liquid temperature:	68 °F
Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Motor type: 90D IE Efficiency class: IE5 Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Density:	62.29 lb/ft ³
IE Efficiency class: Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): F	IE Efficiency class: Rated power - P2: Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protection: YES	Electrical data:	
Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Rated power - P2: 3 HP Main frequency: 60 Hz Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Motor type:	90D
Main frequency: Rated voltage: Rated current: 3.8 A Cos phi - power factor: Rated speed: Befficiency: Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Rated voltage: 3 x 440-480 V 8.8 A 0.89 Rated speed: 90.7% 90.7% Number of poles: IP55 Insulation class (IEC 85): F	Main frequency: Rated voltage: Rated current: 3.8 A Cos phi - power factor: Rated speed: Befficiency: Motor efficiency at full load: Part of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protection: Motor efficiency: Motor protection: Befficiency: Befficiency	IE Efficiency class:	IE5
Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Rated voltage: 3 x 440-480 V Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Rated power - P2:	3 HP
Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Rated current: 3.8 A Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Main frequency:	60 Hz
Cos phi - power factor: 0.89 Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Cos phi - power factor: Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor protection: 90.7% IP55 I	Rated voltage:	3 x 440-480 V
Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Rated speed: 360-4000 rpm IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Rated current:	3.8 A
IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	IE efficiency: 90.7% Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Cos phi - power factor:	0.89
Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Motor efficiency at full load: 90.7 % Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Rated speed:	360-4000 rpm
Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Number of poles: 0 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	IE efficiency:	90.7%
Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F	Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor protection: YES	Motor efficiency at full load:	90.7 %
Insulation class (IEC 85):	Insulation class (IEC 85): F Motor protection: YES	Number of poles:	0
Insulation class (IEC 85):	Insulation class (IEC 85): F Motor protection: YES	Enclosure class (IEC 34-5):	IP55
	Motor protection: YES		F
Motor protection.			YES
Motor Number: 99630349		Motor Number:	99630349









Created by: Phone:

Date: 2/28/2020

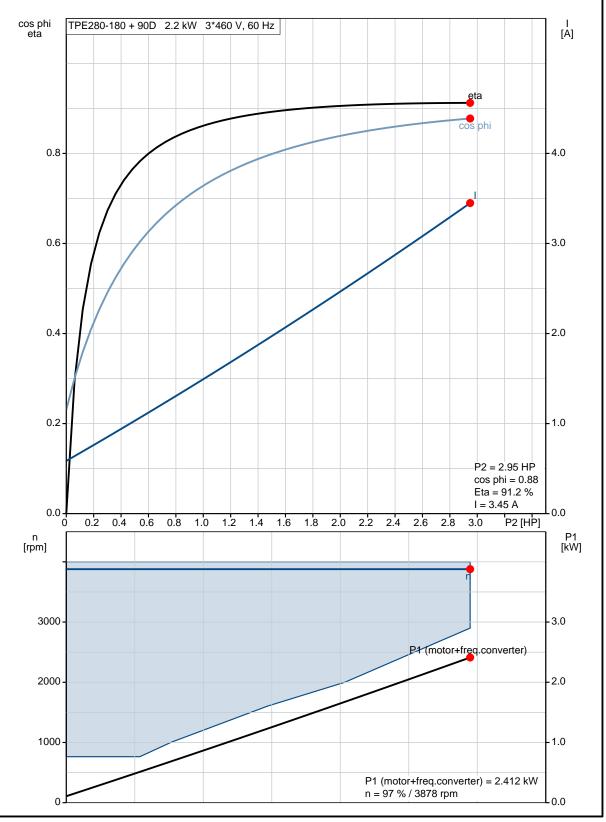
Description	Value
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	
DOE Pump Energy Index VL:	0.38
Net weight:	74.7 lb
Gross weight:	93.9 lb
Config. file no:	98819287



Created by: Phone:

Date: 2/28/2020

98817841 TPE2 80-180 N-A-G-I-BQQE-ICB 60 Hz

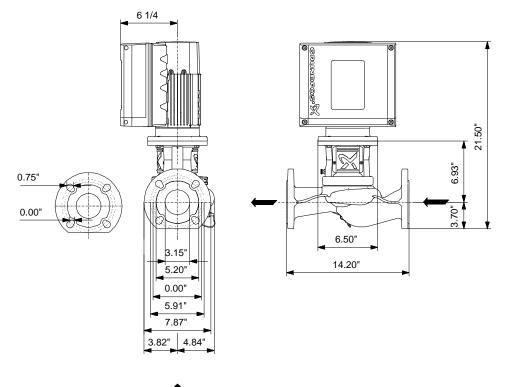


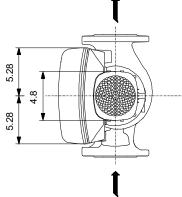


Created by: Phone:

Date: 2/28/2020

98817841 TPE2 80-180 N-A-G-I-BQQE-ICB 60 Hz





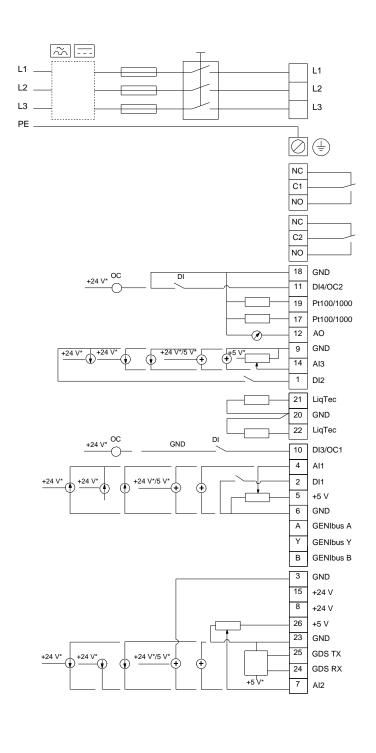
Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



Created by: Phone:

Date: 2/28/2020

98817841 TPE2 80-180 N-A-G-I-BQQE-ICB 60 Hz



All units are [in] unless otherwise presented.



Created by: Phone:

Date: 2/28/2020

Order Data:

Product name: TPE2 80-180 N-A-G-I-BQQE-ICB

Amount: 1

Product No.: 98817841

Total: Price on request