

**Date:** 1/22/2022

### Count | Description

TPE3 65-150 S-A-G-I-BQQE-GCB



Product photo could vary from the actual product

Product No.: 98819731

Single-stage, close-coupled, volute pump with in-line suction and discharge ports of identical diameter. 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 CLASS 150 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. The pump is fitted with a combined temperature- and differential-pressure sensor. The stainless-steel pump housing makes the pump suitable for circulation of hot water.

The pump is suitable for applications requiring pressure or temperature control and offers following control modes:

- AUTOADAPT. This function continuously adjusts the proportional-pressure curve and automatically sets a
  more efficient curve without compromising comfort demands.
- FLOWADAPT. This control mode combines AUTOADAPT with a flow-limitting function. The pump continuously monitors the flow rate to ensure the desired maximum flow is not exceeded. This will save the cost of a separate pump-throttling valve.
- Constant differential pressure. The pump head is kept constant, independent of the flow in the system.
- Proportional pressure. The head of the pump will increase proportionally to the flow in the system to compensate for the large pressure losses in the distribution pipes.
- Constant temperature. The return-pipe temperature is kept constant. Note: If the pump is intalled in the flow pipe, an external temperature sensor must be installed in the return pipe of the system.
- Constant differential temperature. The differential temperature can be measured by a differential-temperature sensor or two separate temperature sensors.
- Constant curve. The pump can be set to run at a constant speed in the range of 25 to 100 % of the maximum speed.

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).

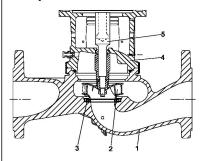


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Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

#### **Pump**



- 1: Pump housing
- 2: Impeller
- 3: Neck ring
- 4: Pump head/motor stool
- 5: Stub shaft

The pump housing is provided with a replaceable stainles steel/PTFE neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side. The impeller is secured to the shaft with a nut.

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.

The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring.

The central part of the motor stool is provided with guards for protection against the shaft and coupling. Motor and pump shaft are connected via a rigid sleeve coupling.

#### 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.

The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

The terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-10 V
- one configurable digital input or open-collector output
- Grundfos combined temperature and differential pressure sensor (separate connected)
- 24 V voltage supply for sensors
- two signal relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

#### **Further product details**

### **Technical data**



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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:

Rated pump speed: 4000 rpm Rated flow: 144 US gpm Rated head: 32.15 ft Actual impeller diameter: 3.07 in Code for shaft seal: **BQQE** 

Curve tolerance: ISO9906:2012 3B2

Materials:

Pump housing: Stainless steel

> EN 1.4308 ASTM CF8

Impeller: Composite

PES+30% GF

Installation:

Range of ambient temperature: -4 .. 122 °F Maximum operating pressure: 232.06 psi

Max pressure at stated temperature: 232 psi / 250 °F

Type of connection: ANSI Size of connection: **DN 65** Pressure rating for connection: **CLASS 150** Port-to-port length: 13 7/16 in Flange size for motor: 56C

Electrical data:

80B Motor type: IE Efficiency class: IE5 Rated power - P2: 1.5 HP Main frequency: 60 Hz 3 x 440-480 V Rated voltage: Rated current: 2.05 A

Cos phi - power factor: 0.84 Rated speed:

360-4000 rpm IE efficiency: 89.6% Motor efficiency at full load: 89.6 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F

Motor Number: 99630343

Others:

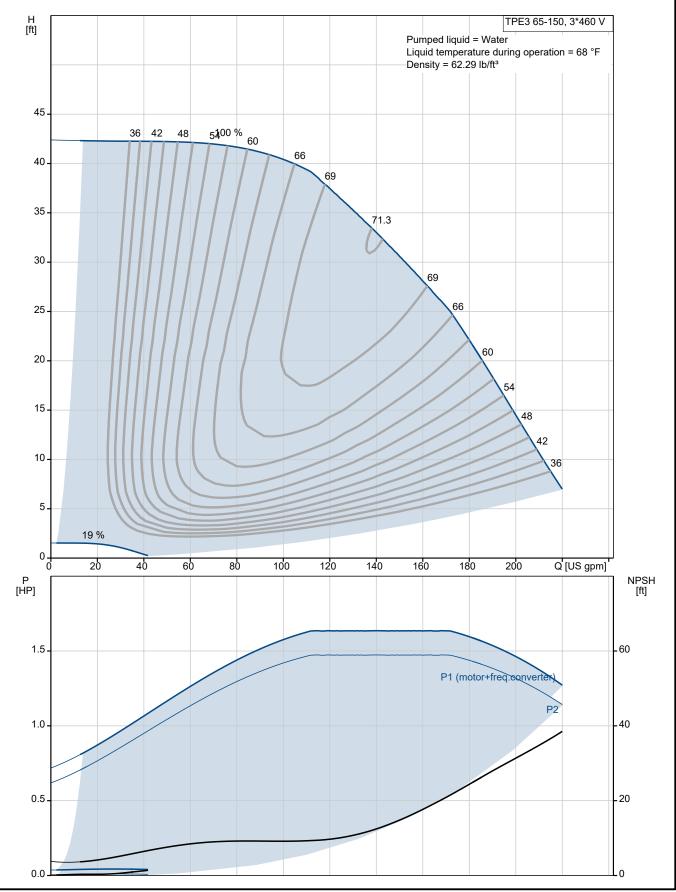
DOE Pump Energy Index VL: 0.39 Net weight: 66.8 lb Gross weight: 86 lb Shipping volume: 5.65 ft3 Country of origin: HU

Custom tariff no.: 8413.70.2022



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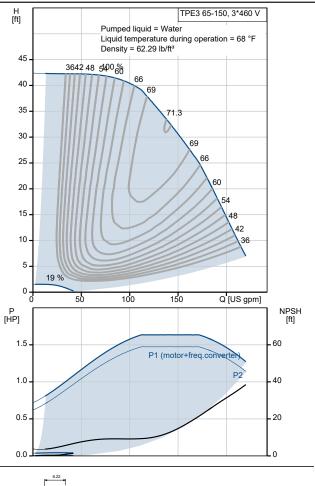
# 98819731 TPE3 65-150 S-A-G-I-BQQE-GCB 60 Hz

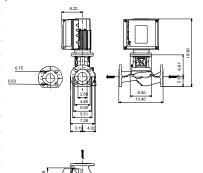


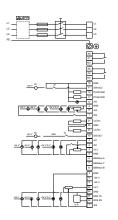


**Date:** 1/22/2022

Description         Value           General information:         TPE3 65-150           Product No.:         98819731           EAN:         5712601845854           Technical:         4000 rpm           Rated pump speed:         4000 rpm           Rated flow:         144 US gpm           Rated nead:         32.15 ft           Maximum head:         49.22 ft           Actual impeller diameter:         3.07 in           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B2           Pump pussion:         A           Materials:         Hump housing:           Pump housing:         Stainless steel           Pump housing:         ASTM CP8           Impeller:         Composite           Impeller:         Composite           Impeller:         Composite           Impeller:         PES+30% GF           Material code:         I           Installation:         Range of ambient temperature:         4 122 °F           Maximum operating pressure:         232.06 psi           Max pressure at stated temperature:         232 psi / 250 °F           Type of connection:         DN 65           Size of onnecti		
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Technical:   Rated pump speed:   4000 rpm   Rated flow:   144 US gpm   Rated flow:   32.15 ft   Maximum head:   49.22 ft   Actual impeller diameter:   3.07 in   Code for shaft seal:   BQQE   Curve tolerance:   ISO9906:2012 3B2   Pump version:   A   Materials:   Pump housing:   Stainless steel   Pump housing:   EN 1.4308   Pump housing:   ASTM CF8   Impeller:   Composite   Impeller:   PES+30% GF   Material code:   I   Impeller:   PES+30% GF   Material code:   I   Impeller:   PES+30% GF   Maximum operating pressure:   232.06 ps   Max pressure at stated   232 ps i / 250 °F   Impeller:   Type of connection:   ANSI   Size of connection:   DN 65   Pressure rating for connection:   CLASS 150   Port-to-port length:   13 7/16 in   Flange size for motor:   56C   Connect code:   Guiquid:   Pumped liquid:   Water   Liquid temperature:   68 °F   Density:   62.29 lb/ft³   Electrical data:   Motor type:   80B   IE Efficiency class:   IE5   Rated power - P2:   1.5 HP   Main frequency:   60 Hz   Rated voltage:   3 x 440-480 V   Rated current:   2.05 A   Cos phi - power factor:   89.6%   Motor efficiency at full load:   89.6%   Motor efficien	Product No.:	98819731
Rated pump speed:         4000 rpm           Rated flow:         144 US gpm           Rated head:         32.15 ft           Maximum head:         49.22 ft           Actual impeller diameter:         3.07 in           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B2           Pump version:         A           Materials:         Wind pounding:           Pump housing:         Stainless steel           Pump housing:         ASTM CF8           Impeller:         Composite           Impeller:         PES+30% GF           Material code:         I           Installation:         Range of ambient temperature:           Range of ambient temperature:         4 122 °F           Maximum operating pressure:         232.06 psi           Max pressure at stated temperature:         232 psi / 250 °F           temperature:         232 psi / 250 °F           Type of connection:         DN 65           Pressure rating for connection:         CLASS 150           Port-to-port length:         13 7/16 in           Flange size for motor:         56C           Connect code:         G           Liquid:         Water	EAN:	5712601845854
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Rated head: 32.15 ft  Maximum head: 49.22 ft  Actual impeller diameter: 3.07 in  Code for shaft seal: BQQE  Curve tolerance: ISO9906:2012 3B2  Pump version: A  Materials:  Pump housing: Stainless steel  Pump housing: EN 1.4308  Pump housing: ASTM CF8  Impeller: Composite  Impeller: PES+30% GF  Material code: I  Installation:  Range of ambient temperature: 4 122 °F  Maximum operating pressure: 232.06 psi  Max pressure at stated temperature: ANSI  Size of connection: DN 65  Pressure rating for connection: CLASS 150  Port-to-port length: 13 7/16 in  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: 80B  IE Efficiency class: IE5  Rated power - P2: 1.5 HP  Main frequency: 60 Hz  Rated voltage: 3 x 440-480 V  Rated current: 2.05 A  Cos phi - power factor: 89.6%  Motor efficiency at full load: 89.6 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 34-5): IP55  Insulation class (IEC 34-5): IP55  Insulation Class (IEC 85): F  Built-in motor protection: Built-in  Others:  DOE Pump Energy Index VL: 0.39	Rated pump speed:	4000 rpm
Maximum head:         49.22 ft           Actual impeller diameter:         3.07 in           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B2           Pump version:         A           Materials:         Hump housing:           Pump housing:         EN 1.4308           Pump housing:         ASTM CF8           Impeller:         Composite           Impeller:         Composite           Impeller:         PES+30% GF           Material code:         I           Installation:         Range of ambient temperature:           Range of ambient temperature:         232.06 psi           Max pressure at stated temperature:         232 psi / 250 °F           Max pressure at stated temperature:         232 psi / 250 °F           Type of connection:         DN 65           Pressure rating for connection:         CLASS 150           Port-to-port length:         13 7/16 in           Flange size for motor:         56C           Connect code:         G           Liquid:         Water           Pumped liquid:         Water           Liquid temperature range:         -13 248 °F           Selected liquid temperature:         68 °F		
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Material code:  Installation:  Range of ambient temperature:  Maximum operating pressure:  Max pressure at stated temperature:  Type of connection:  Pressure rating for connection:  Port-to-port length:  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature:  Motor type:  Betectrical data:  Motor type:  Bated power - P2:  Main frequency:  Cos phi - power factor:  Cos phi - power factor:  Motor efficiency at full load:  Betected length:  Built-in motor protection:  ELEC  Motor Number:  Controls:  Controls:  Controls:  Controls:  Cothers:  DOE Pump Energy Index VL:  DANSI  323.06 psi  A 122 °F  A 124 °F  B 125 °F  B 125 °F  A 127 °F  A 127 °F	•	•
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Range of ambient temperature: -4 122 °F Maximum operating pressure: 232.06 psi  Max pressure at stated temperature: DN 65  Type of connection: DN 65  Pressure rating for connection: CLASS 150  Port-to-port length: 13 7/16 in 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: 80B  IE Efficiency class: IE5  Rated power - P2: 1.5 HP  Main frequency: 60 Hz  Rated voltage: 3 x 440-480 V  Rated current: 2.05 A  Cos phi - power factor: 0.84  Rated speed: 360-4000 rpm  IE efficiency at full load: 89.6 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor Number: 99630343  Controls:  Control panel: HMI300 - Graphical  Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39		<u> </u>
Maximum operating pressure: 232.06 psi  Max pressure at stated temperature: 232 psi / 250 °F  Type of connection: DN 65  Pressure rating for connection: CLASS 150  Port-to-port length: 13 7/16 in  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: 80B  IE Efficiency class: IE5  Rated power - P2: 1.5 HP  Main frequency: 60 Hz  Rated voltage: 3 x 440-480 V  Rated current: 2.05 A  Cos phi - power factor: 0.84  Rated speed: 360-4000 rpm  IE efficiency: 89.6%  Motor efficiency at full load: 89.6 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor Number: 99630343  Controls:  Control panel: HMI300 - Graphical  Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39		4 122 °E
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Density: 62.29 lb/ft³  Electrical data:  Motor type: 80B  IE Efficiency class: IE5  Rated power - P2: 1.5 HP  Main frequency: 60 Hz  Rated voltage: 3 x 440-480 V  Rated current: 2.05 A  Cos phi - power factor: 0.84  Rated speed: 360-4000 rpm  IE efficiency: 89.6%  Motor efficiency at full load: 89.6 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor Number: 99630343  Controls:  Control panel: HMI300 - Graphical  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39		
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IE Efficiency class: Rated power - P2: 1.5 HP Main frequency: Rated voltage: 3 x 440-480 V Rated current: 2.05 A Cos phi - power factor: 0.84 Rated speed: 360-4000 rpm IE efficiency: 89.6% Motor efficiency at full load: 89.6 % Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: ELEC Motor Number: 99630343  Controls: Control panel: Function Module: FM300 - Advanced Frequency converter: Built-in Others: DOE Pump Energy Index VL: 0.39		80B
Rated power - P2:       1.5 HP         Main frequency:       60 Hz         Rated voltage:       3 x 440-480 V         Rated current:       2.05 A         Cos phi - power factor:       0.84         Rated speed:       360-4000 rpm         IE efficiency:       89.6%         Motor efficiency at full load:       89.6 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor Number:       99630343         Controls:       Control panel:         Function Module:       FM300 - Graphical         Frequency converter:       Built-in         Others:       DOE Pump Energy Index VL:       0.39	• •	
Main frequency:  Rated voltage:  Rated current:  Cos phi - power factor:  Rated speed:  Begin and a speed:	-	
Rated voltage: 3 x 440-480 V Rated current: 2.05 A Cos phi - power factor: 0.84 Rated speed: 360-4000 rpm IE efficiency: 89.6% Motor efficiency at full load: 89.6 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: ELEC Motor Number: 99630343  Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in Others: DOE Pump Energy Index VL: 0.39	•	
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Rated speed: 360-4000 rpm  IE efficiency: 89.6%  Motor efficiency at full load: 89.6 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor Number: 99630343  Controls:  Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39	•	2.05 A
Rated speed: 360-4000 rpm  IE efficiency: 89.6%  Motor efficiency at full load: 89.6 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor Number: 99630343  Controls:  Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39	Cos phi - power factor:	0.84
IE efficiency: 89.6%  Motor efficiency at full load: 89.6 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor Number: 99630343  Controls:  Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39	• •	360-4000 rpm
Motor efficiency at full load: 89.6 %  Enclosure class (IEC 34-5): IP55  Insulation class (IEC 85): F  Built-in motor protection: ELEC  Motor Number: 99630343  Controls:  Control panel: HMI300 - Graphical  Function Module: FM300 - Advanced  Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39	•	·
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Built-in motor protection: ELEC  Motor Number: 99630343  Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others: DOE Pump Energy Index VL: 0.39		IP55
Built-in motor protection: ELEC  Motor Number: 99630343  Controls: Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others: DOE Pump Energy Index VL: 0.39		F
Controls:  Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39		ELEC
Control panel: HMI300 - Graphical Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39	Motor Number:	99630343
Function Module: FM300 - Advanced Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39	Controls:	
Frequency converter: Built-in  Others:  DOE Pump Energy Index VL: 0.39	Control panel:	HMI300 - Graphical
Others: DOE Pump Energy Index VL: 0.39	Function Module:	FM300 - Advanced
DOE Pump Energy Index VL: 0.39	Frequency converter:	Built-in
	Others:	
Net weight: 66.8 lb	DOE Pump Energy Index VL:	0.39
	Net weight:	66.8 lb









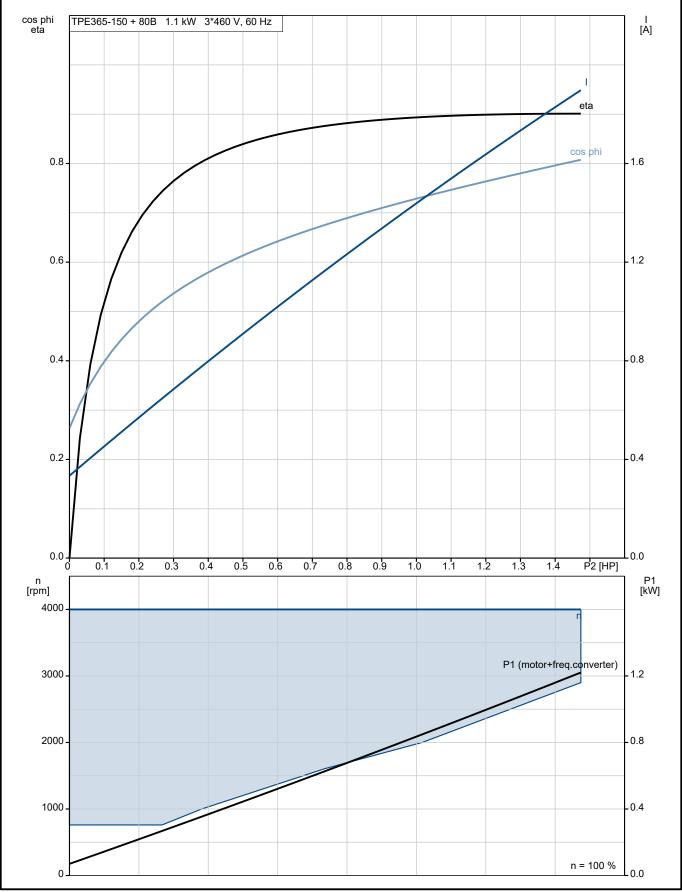
**Date:** 1/22/2022

Description	Value
Gross weight:	86 lb
Shipping volume:	5.65 ft³
Config. file no:	98484788
Country of origin:	HU
Custom tariff no.:	8413.70.2022



**Date:** 1/22/2022

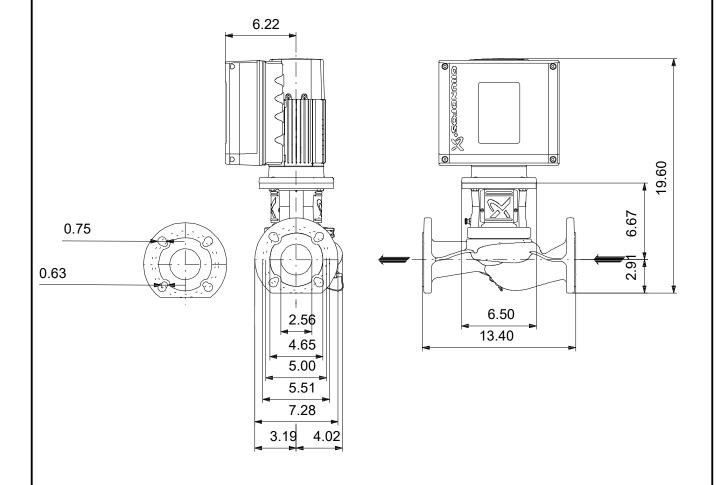
# 98819731 TPE3 65-150 S-A-G-I-BQQE-GCB 60 Hz

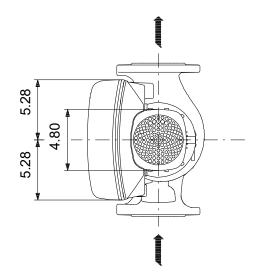




1/22/2022 Date:

# 98819731 TPE3 65-150 S-A-G-I-BQQE-GCB 60 Hz



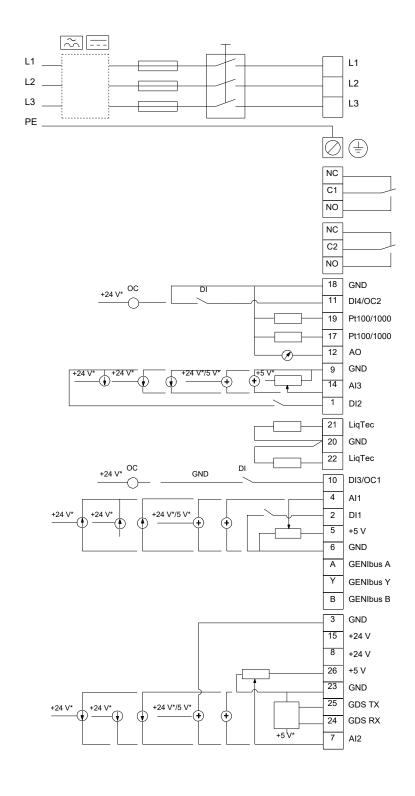


Note! All units are in [in] unless otherwise stated. Disclaimer: This simplified dimensional drawing does not show all details.



**Date:** 1/22/2022

## 98819731 TPE3 65-150 S-A-G-I-BQQE-GCB 60 Hz



All units are [in] unless otherwise presented.