

Company name

	\sim	Created by: Phone:					
C	RUNDFOS X						
		Date:	1/22/2022				
Count	Description						
1	TPE3 65-150 S-A-G-I-BQQE-GBB						
		d vary from the e	otual product				
	Product photo could vary from the actual product Product No.: 99884116						
	scharge ports of identical diameter. The land impeller) can be removed for mainte	pump enance					
	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 corvariable control of the motor speed, which again enal The pump is fitted with a combined temperature- and housing makes the pump suitable for circulation of housing makes the pump suitable for circulation subscripts and the pump subscripts and the p	bles adaptatior I differential-pre	n of the performance to a given requirement	ent.			
	The pump is suitable for applications requiring press	ure or tempera	ture control and offers following control n	nodes:			
	 AUTOADAPT. This function continuously adju more efficient curve without compromising continuously 	ists the proport mfort demands	tional-pressure curve and automatically s	ets a			
	 FLOWADAPT. This control mode combines A continuously monitors the flow rate to ensure cost of a separate pump-throttling valve. 	UTOADAPT w the desired ma	ith a flow-limitting function. The pump iximum flow is not exceeded. This will sa	ve the			
	 Constant differential pressure. The pump heat Proportional pressure. The head of the pump compensate for the large pressure losses in t	will increase p	roportionally to the flow in the system to	n.			
	 Constant temperature. The return-pipe tempe pipe, an external temperature sensor must be 	rature is kept o	constant. Note: If the pump is intalled in the	ne flow			
	 Constant differential temperature. The differential-temperature sensor or two separat 						

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 Eve 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).



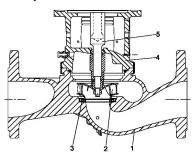
1/22/2022

Count | Description

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.

Date:

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

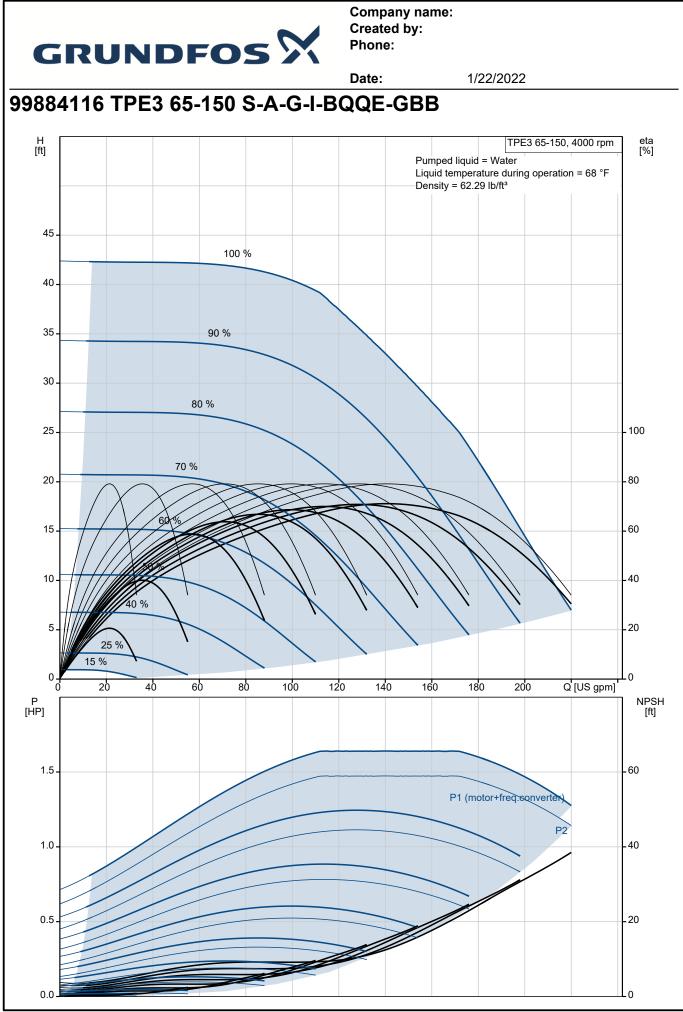
Technical data



Date:

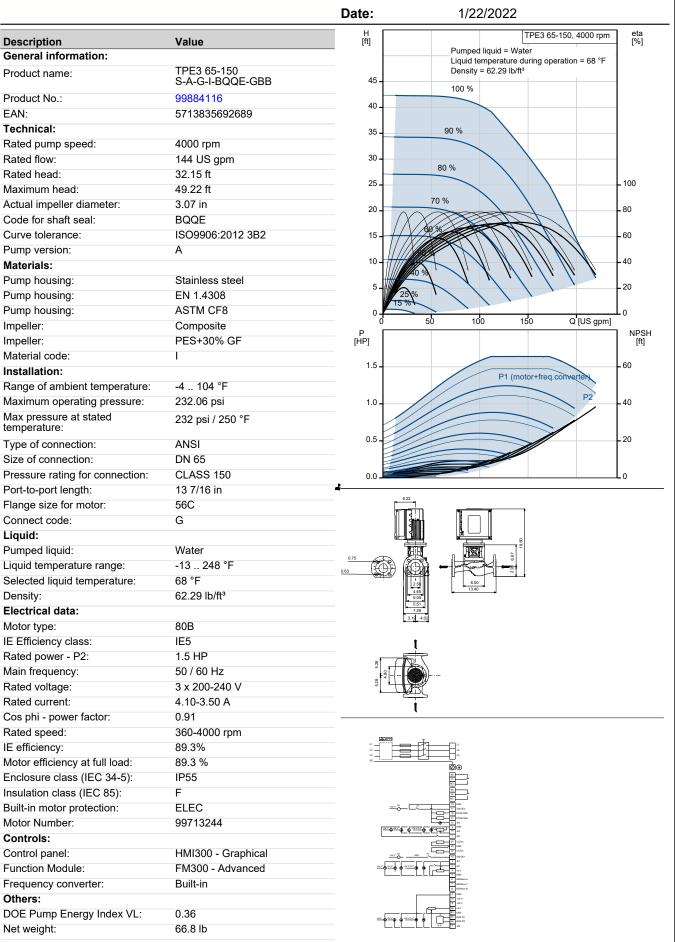
1/22/2022

		Da	ate:	1/22/2022	
ount	Description				
	Controls:				
	Frequency converter:	Built-in			
	Liquid:				
	Pumped liquid:	Water			
	Liquid temperature range:	-13 248 °F			
	Selected liquid temperature:	68 °F			
	Density:	62.29 lb/ft ³			
	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:	Stainlass stact			
	Pump housing:	Stainless steel			
		EN 1.4308 ASTM CF8			
	Impeller				
	Impeller:	Composite PES+30% GF			
	Installation:				
	Range of ambient temperature:	-4 104 °F			
	Maximum operating pressure:	232.06 psi			
	Max pressure at stated temperat	ture: 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:				
	Motor type:	80B			
	IE Efficiency class:	IE5			
	Rated power - P2:	1.5 HP			
	Main frequency:	50 / 60 Hz			
	Rated voltage:	3 x 200-240 V			
	Rated current:	4.10-3.50 A			
	Cos phi - power factor:	0.91			
	Rated speed:	360-4000 rpm			
	IE efficiency:	89.3%			
	Motor efficiency at full load:	89.3 %			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor Number:	99713244			
	Others:				
	DOE Pump Energy Index VL:	0.36			
	Net weight:	66.8 lb			
	Gross weight:	86 lb			
	Shipping volume:	5.65 ft ³			
	Country of origin:	HU			
	Custom tariff no.:	8413.70.2022			



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Date:1/22/2022DescriptionValueGross weight:86 lbShipping volume:5.65 ft³Config. file no:99843634Country of origin:HUCustom tariff no.:8413.70.2022

