

Date: 10/09/2021 Qty. Description TP 100-120/2 AI-F-A-BQQE-IX1 1 Note! Product picture may differ from actual product Product No.: 98958092 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 pump is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 6 DIN flanges (EN 1092-2 and ISO 7005-2). The pump is fitted with a fan-cooled asynchronous motor. The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013. 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 5 3 2 1 1: Pump housing 2: Impeller 3: Shaft 4: Coupling 5: Pump head The pump housing is provided with a replaceable stainless 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 with a split cone with 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:



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• 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.

The flanges have tappings for mounting of pressure gauges.

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 shell 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 is flange-mounted with tapped-hole flange (FT).

Motor-mounting designation in accordance with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (Code II).

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

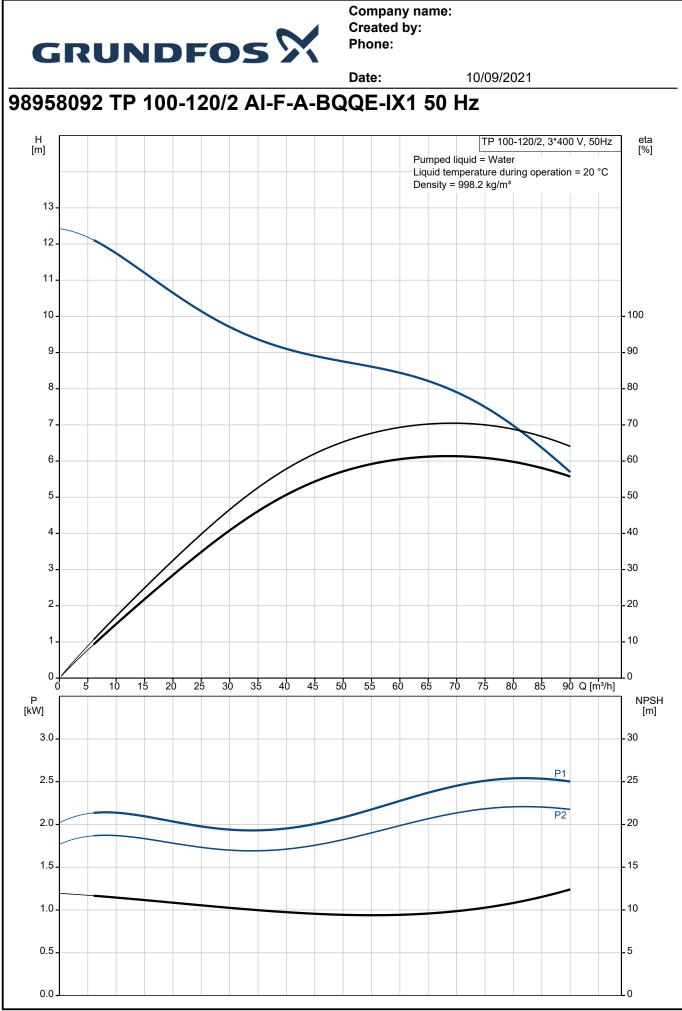
Further product details

Technical data

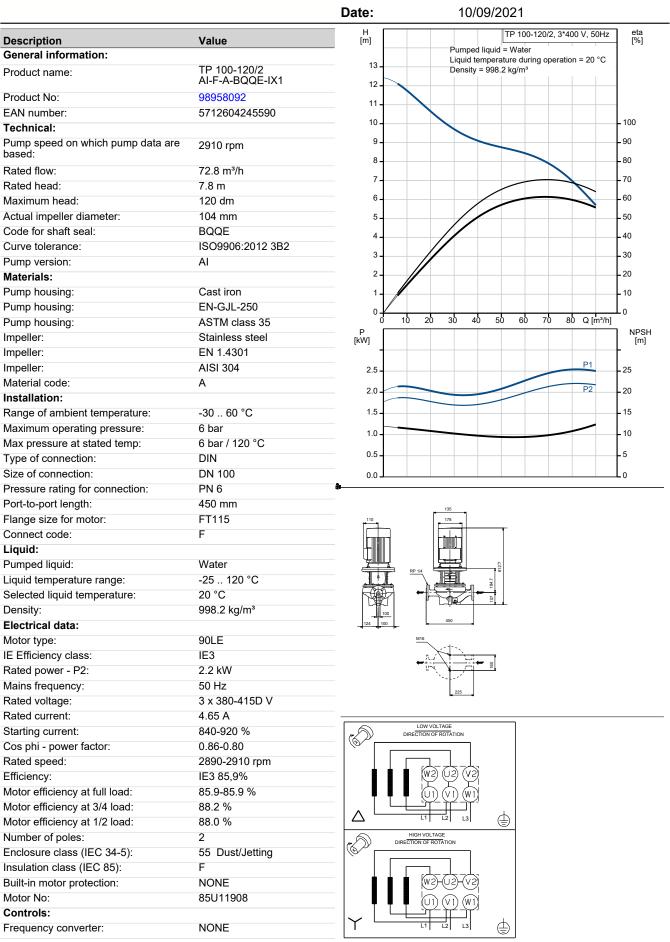
| Controls: Frequency converter: | NONE |
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| Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: | Water -25 120 °C 20 °C 998.2 kg/m³ |
| Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Code for shaft seal: Curve tolerance: | are based: 2910 rpm 72.8 m³/h 7.8 m 104 mm BQQE ISO9906:2012 3B2 |
| Materials: Pump housing: Impeller: | Cast iron EN-GJL-250 ASTM class 35 Stainless steel EN 1.4301 AISI 304 |
| Installation: Range of ambient temperature: Maximum operating pressure: | -30 60 °C 6 bar |



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| Description | | | | |
| Description Max pressure at stated temp: Type of connection: Size of connection: Pressure rating for connection: Port-to-port length: Flange size for motor: Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 35): Motor No: Others: Minimum efficiency index, MEI ≥ Net weight: Gross weight: Shipping volume: Finnish LVI No.: | 6 bar / 120 °C DIN DN 100 PN 6 450 mm FT115 90LE IE3 2.2 kW 50 Hz 3 x 380-415D V 4.65 A 840-920 % 0.86-0.80 2890-2910 rpm IE3 85,9% 85.9-85.9 % 88.2 % 88.0 % 2 55 Dust/Jetting F 85U11908 E: 0.70 59 kg 67.6 kg 0.2 m ³ 4616115 | | | |



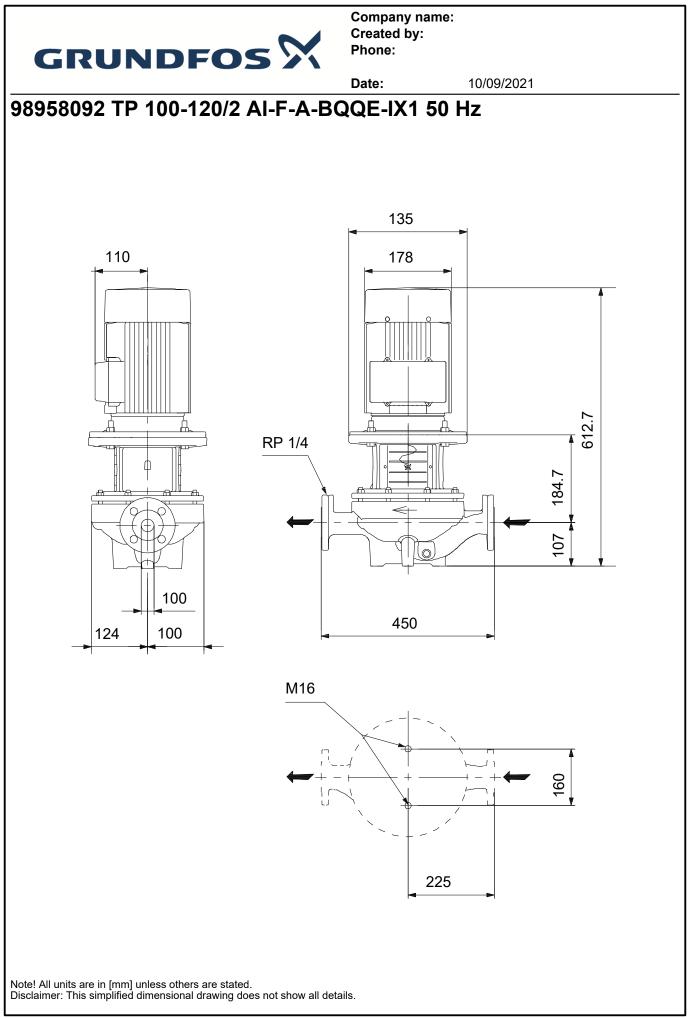




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Date:10/09/2021DescriptionValueOthers:0.70Minimum efficiency index, MEI ≥:0.70Net weight:59 kgGross weight:67.6 kgShipping volume:0.2 m³Finnish LVI No.:4616115





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98958092 TP 100-120/2 AI-F-A-BQQE-IX1 50 Hz

