

Date:

Qty.

1

16/06/2022

Description TPED 100-120/2 AI-F-A-BQQE-IDB Note! Product picture may differ from actual product Product No.: On request Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads. 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. Each power head 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). Each power head is fitted with a fan-cooled, permanent-magnet synchronous motor of identical size. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2. A cable ensures communication between the two power heads. The selector switch in the terminal boxes enables changeover between the operating modes "alternating operation" and "standby operation". 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. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". 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 vellow indicator lights) or has stopped (permanently vellow indicator lights) "Alarm": Motor has stopped (flashing red indicator lights). Communication with the pump is 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". 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: Pump housing 2: Impeller
- 3: Shaft
- 4: Coupling



16/06/2022

Qty. | Description

#### 5: Pump head

The twin-head pump is designed with two parallel power-heads. A flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head.

Date:

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.

Seal faces:

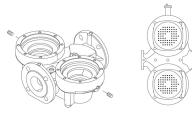
- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

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 pump housing has two Rp 1/8 tappings for mounting of automatic air vents. Fit an air vent to the upper pump housing if the twin-head pump is to be installed in a horizontal pipeline with horizontal pump shaft.



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 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.

## Further product details

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.

## **Technical data**

Controls: Frequency converter:	Built-in
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature:	Water -25 120 °C 20 °C



DescriptionDensity:998.2 kg/m³Technical:		Date:	16/06/2022
Technial: Pump speed on which pump data are based: 2910 rpm Rated flow: 72.8 m <sup>3</sup> /h Rated flow: 72.8 m <sup>3</sup> /h Actual impeller diameter: 104 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Materials: Pump housing: Cast iron EN-GU-250 ASTM class 35 Impeller: Stainless steel EN-GU-250 Maximum operating pressure: 6 bar Maximum operating pressure: 6 bar Max pressure at stated temp: 6 bar / 120 °C Type of connection: DN 100 Pressure rating for connection: PN 6 Port-to-port length: 450 mm Elefticiency class: IE5 Electrical data: Motor type: 90LD Elefficiency class: IE5 Rated power P2: 2.2 kW Mains frequency: 50 Hz Rated power P2: 2.2 kW Mains frequency: 90-1% Motor efficiency at full load: 90.1% Motor fifciency at full load: 90.1% Motor No: 98190193 Others: Minimum efficiency index, MEI $\geq$ 0.70 Net weight: 127 kg Shipping volume: 0.39 m <sup>3</sup> Country of ongin: HU	Description		
Pump speed on which pump data are based:2910 rpmRated flow:72.8 m²hRated head:7.79 mActual impelier diameter:104 mmCode for shaft seal:BQQECurve tolerance:ISO9906:2012 3B2Materials:	Density:	998.2 kg/m³	
Rated head:72.8 m³/hRated head:7.79 mActual impelier diameter:104 mmCode for shaft seal:BQQECurve tolerance:ISO9906:2012 3B2Materials:ExactionPump housing:Cast ironEN-GLI_250ASTM class 35Impelier:Stainless steelEntralition:ExactionRange of ambient temperature:-20. 50 °CMaximum operating pressure:6 barMaximum operating pressure:6 bar / 120 °CType of connection:DN N00Pressure rating for connection:N 100Pressure rating for connection:PN 6Port-to-pot tength:450 mmFlange size for motor:FT115Electrical data:EtE5Rated opwer - P2:2.2 kWMains frequency:50 HzRated outage:3 x 380-500 VRated voltage:3 03-0.87Rated speed:360-4000 rpmEfficiency at ll totad:90.10Itsefficiency at ll totad:90.13 %Motor Regioneric:P55Installed current:4.15-3.40 ACos phi - power factor:90.13 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:98190193Others:105 kgGross weight:105 kgGross weight:105 kgGross weight:105 kgShipping volume:0.39 m²County of origin:HU	Technical:		
Rated head:7.79 mActual impelier diameter:104 mmCode for shaft seal:BQQECurve tolerance:ISO9906:2012 3B2Materials:Encode ControlPump housing:Cast ironBranceCast ironImpelier:Cast ironEn 14.301ASTM class 35Impelier:Stainless steelEn 14.301AISI 304Installation:-2050 °CMaximum operating pressure:6 barMax pressure at stated termp:6 bar / 120 °CType of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-o-port length:450 mmFlange size for motor:FT115Electrical data:	Pump speed on which pump	data are based: 2910 rpm	
Actual impeller diameter:104 mmCode for shaft seal:BQQECurve tolerance:ISO906:2012 3B2Materials:-Pump housing:Cast iron EN-GJL-250 ASTM class 35Impeller:Cast inchess steel EN 1.4301 AISI 304Installation:-Range of ambient temperature:- 20 50 °CMaximum operating pressure:6 barMaximum operating pressure:6 barMaximum operating pressure:6 barMaximum operating pressure:6 barMaximum operating pressure:9 barJUP of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmElectrical data:-Motor type:90LDIE Efficiency class:IE5Rated power -P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated voltage:3 0.4000 rpmEfficiency:0.1%Motor efficiency at full load:90.1 %Muther of poles:2Enclosure class (IEC 34-5):FMotor No:98190193Others:0.1%Muinum efficiency index, MEI E:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³County of origin:HU			
Code for shaft seal:BCQECurve tolerance:ISO9906:2012 3B2Materials:EN-GJL-250Pump housing:Cast ironEN-GJL-250ASTM class 35Impeller:Stainless steelEN 1.4301AISI 304Installation:EN 1.4301Range of ambient temperature:-2050 °CMaximum operating pressure:6 barMaximum operating pressure:6 bar / 120 °CType of connection:DINDINDINPressure at stated temp:6 bar / 120 °CType of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:Motor type:Motor type:90LDIle Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated voltage:3 x 380-500 VRated voltage:3 60-4000 rpmEfficiency:90.1 %Motor efficiency at full load:90.1 %Muther of poles:2Enclosure class (IEC 85):FMotor No:98190193Others:0.70Metweight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU	Rated head:	7.79 m	
Curve tolerance: ISO9906:2012 3B2   Materials: Pump housing: Cast iron   Pump housing: Cast iron   EN-0JL-250 ASTM class 35   Impeller: Stainless steel   EN 1.4301 AISI 304   Installation: Range of ambient temperature:   Range of ambient temperature: 6 bar   Max pressure at stated temp: 6 bar / 120 °C   Maximum operating pressure: 6 bar / 120 °C   Type of connection: DIN   Size of connection: DN 100   Pressure at stated temp: 450 mm   Flange size for motor: FT115   Electrical data: FT115   Electrical data: Sta0-500 V   Rated power - P2: 2.2 kW   Mains frequency: 50 Hz   Rated voltage: 3 x 380-500 V   Rated voltage: 3 x 380-500 V   Rated voltage: 3 0.3 400 rpm   Efficiency: 90.1%   Motor efficiency at full load: 90.1%   Number of poles: 2   Enclosure class (IEC 34-5): IP55   Insulation class (IEC 85): F   Motor No: 98190193   Others: 0.70   Minimum efficiency index, MEI ≥: 0.70	Actual impeller diameter:	104 mm	
Materials:Pump housing:Cast iron EN-GJL-250 ASTM class 35Impeller:Stainless steel EN 1.4301 AISI 304Installation:EN 1.4301 AISI 304Installation:6 barRange of ambient temperature:6 bar / 120 °C C Maximum operating pressure:Max pressure at stated temp:6 bar / 120 °C C Type of connection:DN 00Dressure rating for connection:Pressure rating for connection:N 100Pressure rating for connection:PN 6 Port-to-port length:450 mmElefticiency class:Electrical data:Ele5 Rated power - P2:2.2 kW Mains frequency:50 Hz Rated voltage:Rated outge:3 x 380-500 V Rated current:Atel douge:3 x 380-500 V Rated current:Elefticiency:90.1% Motor type:Motor Kpe:90.1% N Number of poles:Z2 Rated solage:Motor Kpi90.1% Motor efficiency index, MEI ≿Motor No:98190193Others:0.70 Net weight:Minimum efficiency index, MEI ≿0.70 Net weight:Motor No:93 m³ County of origin:HuUse Main	Code for shaft seal:		
Pump housing:Cast iron EN-GJL-250 ASTM class 35Impeller:Stainless steel EN 1.4301 AISI 304Installation:-2050 °CRange of ambient temperature: Maximum operating pressure: 6 bar6 barMaximum operating pressure: 6 bar / 120 °C0 barType of connection:DINDize of connection:DN 100Pressure at stated temp: 6 bar / 120 °C0 barPort-to-port length:450 mmFlange size for motor:FT115Electrical data: Motor type:90LDIt Efficiency class:IE5Rated power - P2: 2.2 kW2.2 kWMains frequency: Cos phi - power factor:9.3.40 ACos phi - power factor:9.1%Motor tipoe: Cos phi - power factor:9.1%Motor of ficiency at full load: 9.0.1%9.1%Motor No:9.1%Motor No:9.1%Motor No:9.193Others: Minimum efficiency index, MEI ≥: Net weight:0.70Net weight: Constry of origin:105 kgGross weight: Shipping volume: County of origin:0.39 m³County of origin:HU	Curve tolerance:	ISO9906:2012 3B2	
EN-GJL-250 ASTM class 35Impeller:Stainless steel EN 1.4301 AISI 304Installation:Range of ambient temperature: Maximum operating pressure:-20 50 °C 6 barMaximum operating pressure: Max pressure at stated temp: Max pressure at stated temp: DINMax pressure at stated temp: Port-to-port length: Hange size for motor:DN 100 Pressure rating for connection: PN 6 Port-to-port length: HITElectrical data: Motor type:90LD 90LDIle Efficiency class: Rated power - P2: Cos phi - power factor: Os 30.47Rated voltage: Rated speed: HID306-4000 rpmEfficiency: HID90.1% Motor rope PolloMotor type: Rated speed: HID90.1% PolloMotor ficiency talk full load: Number of poles: Rated speed: HID91.93Others: Motor No:981901193Others: Minimum efficiency index, MEI E Shipping volume: Ountry of origin:0.70Net weight: Shipping volume: Country of origin:0.39 m³Country of origin:HU	Materials:		
Impeller:ASTM class 35 Stainless steel EN 1.4301 AISI 304Installation:-2050 °CRange of ambient temperature: Maximum operating pressure:6 barMaximum operating pressure: Operation operating pressure: Type of connection:0 bar / 120 °CType of connection: Size of connection:D NSize of connection: Port-to-port length: Flange size for motor:DN 100Pressure at stated temp: operating pressure: FI11550 mmElectrical data: Mains frequency: Rated power - P2: Cos phi - power factor:UMains frequency: So Hz Rated voltage: Rated outage: Size 360-4000 rpm50 HzRated outage: Efficiency: So Hz93-0.87Rated speed: Cos phi - power factor: So 1.1%90.1%Motor Rice apped: Motor No:90.1%Motor No: So So S	Pump housing:	Cast iron	
Impeller:Stainless steel EN 1.4301 AISI 304Installation:EN 1.4301 AISI 304Range of ambient temperature:6 barMaximum operating pressure:6 barMax pressure at stated temp:6 bar / 120 °CType of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated voltage:3030-507Rated speed:360-4000 rpmEfficiency:90.1%Motor No:90.1%Number of poles:2Enclosure class (IEC 34-5):IP55Insulation Class (IEC 35):FMotor No:98190193Others:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU		EN-GJL-250	
EN 1.4301 AISI 304Installation:Range of ambient temperature:-2050 °CMaximum operating pressure:6 barMax pressure at stated temp:6 bar / 120 °CType of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:Motor type:Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated oltage:3 x 380-500 VRated outrent:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 345):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU		ASTM class 35	
EN 1.4301 AISI 304Installation:Range of ambient temperature:-2050 °CMaximum operating pressure:6 barMax pressure at stated temp:6 bar / 120 °CType of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:Motor type:Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated oltage:3 x 380-500 VRated outrent:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 345):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU	Impeller:	Stainless steel	
Installation:Range of ambient temperature:-2050 °CMaximum operating pressure:6 barMax pressure at stated temp:6 bar / 120 °CType of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 35):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU		EN 1.4301	
Range of ambient temperature: $-2050 ^{\circ}\text{C}$ Maximum operating pressure:6 barMax pressure at stated temp:6 bar / 120 $^{\circ}\text{C}$ Type of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:		AISI 304	
Range of ambient temperature: $-2050 ^{\circ}\text{C}$ Maximum operating pressure:6 barMax pressure at stated temp:6 bar / 120 $^{\circ}\text{C}$ Type of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:	Installation:		
Maximum operating pressure:6 barMax pressure at stated temp:6 bar / 120 °CType of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:		re: -20 50 °C	
Max pressure at stated temp:6 bar / 120 °CType of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency:90.1%Motor efficiency afull load:90.1%Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 34-5):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Type of connection:DINSize of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:			
Size of connection:DN 100Pressure rating for connection:PN 6Port-to-port length:450 mmFlange size for motor:FT115Electrical data:Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency at full load:90.1 %Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 34-5):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Port-to-port length:450 mmFlange size for motor:FT115Electrical data: $FT115$ Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 34-5):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Port-to-port length:450 mmFlange size for motor:FT115Electrical data: $FT115$ Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 34-5):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU	Pressure rating for connection	on: PN 6	
Flange size for motor:FT115Electrical data: $0LD$ Motor type: $90LD$ IE Efficiency class:IE5Rated power - P2: $2.2 kW$ Mains frequency: $50 Hz$ Rated voltage: $3 x 380-500 V$ Rated ourrent: $4.15-3.40 A$ Cos phi - power factor: $0.93-0.87$ Rated speed: $360-4000 rpm$ Efficiency: $90.1\%$ Motor efficiency at full load: $90.1\%$ Number of poles: $2$ Enclosure class (IEC 34-5):IP55Insulation class (IEC 45):FMotor No: $98190193$ Others: $0.70$ Net weight: $105 kg$ Gross weight: $127 kg$ Shipping volume: $0.39 m^3$ Country of origin:HU			
Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Motor type:90LDIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU	Electrical data:		
IE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:4.15-3.40 ACos phi - power factor:0.93-0.87Rated speed:360-4000 rpmEfficiency:90.1%Motor efficiency at full load:90.1 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:98190193Others:Minimum efficiency index, MEI >:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU		901 0	
Rated power - P2: $2.2 \text{ kW}$ Mains frequency: $50 \text{ Hz}$ Rated voltage: $3 \times 380-500 \text{ V}$ Rated current: $4.15-3.40 \text{ A}$ Cos phi - power factor: $0.93-0.87$ Rated speed: $360-4000 \text{ rpm}$ Efficiency: $90.1\%$ Motor efficiency at full load: $90.1\%$ Number of poles: $2$ Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $98190193$ Others:Minimum efficiency index, MEI $\geq$ :0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Mainsfrequency:50 HzRated voltage: $3 \times 380-500 V$ Rated current: $4.15-3.40 A$ Cos phi - power factor: $0.93-0.87$ Rated speed: $360-4000 rpm$ Efficiency: $90.1\%$ Motor efficiency at full load: $90.1\%$ Number of poles: $2$ Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $98190193$ Others:Minimum efficiency index, MEI $\geq$ 0.70Net weight:105 kgGross weight:127 kgShipping volume: $0.39 m^3$ Country of origin:HU			
Rated voltage: $3 \times 380-500 \vee$ Rated current: $4.15-3.40 \wedge$ Cos phi - power factor: $0.93-0.87$ Rated speed: $360-4000 \text{ rpm}$ Efficiency: $90.1\%$ Motor efficiency at full load: $90.1\%$ Number of poles: $2$ Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $98190193$ Others: $0.70$ Net weight: $105 \text{ kg}$ Gross weight: $127 \text{ kg}$ Shipping volume: $0.39 \text{ m}^3$ Country of origin:HU			
Rated current: $4.15-3.40 \text{ A}$ Cos phi - power factor: $0.93-0.87$ Rated speed: $360-4000 \text{ rpm}$ Efficiency: $90.1\%$ Motor efficiency at full load: $90.1\%$ Number of poles: $2$ Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $98190193$ Others:Minimum efficiency index, MEI >: $0.70$ Net weight: $105 \text{ kg}$ Gross weight: $127 \text{ kg}$ Shipping volume: $0.39 \text{ m}^3$ Country of origin:HU			
Cos phi - power factor: $0.93 - 0.87$ Rated speed: $360 - 4000$ rpmEfficiency: $90.1\%$ Motor efficiency at full load: $90.1\%$ Number of poles: $2$ Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $98190193$ Others:Minimum efficiency index, MEI $\geq$ : $0.70$ Net weight: $105$ kgGross weight: $127$ kgShipping volume: $0.39$ m³Country of origin:HU			
Rated speed: $360-4000 \text{ rpm}$ Efficiency: $90.1\%$ Motor efficiency at full load: $90.1\%$ Number of poles: $2$ Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $98190193$ Others:Minimum efficiency index, MEI $\geq$ : $0.70$ Net weight: $105 \text{ kg}$ Gross weight: $127 \text{ kg}$ Shipping volume: $0.39 \text{ m}^3$ Country of origin:HU			
Efficiency: $90.1\%$ Motor efficiency at full load: $90.1\%$ Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $98190193$ Others:Minimum efficiency index, MEI >: $0.70$ Net weight: $105 \text{ kg}$ Gross weight: $127 \text{ kg}$ Shipping volume: $0.39 \text{ m}^3$ Country of origin:HU			
Motor efficiency at full load: $90.1 \%$ Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:98190193Others:Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:98190193Others:Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Insulation class (IEC 85):FMotor No:98190193Others:98190193Others:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Motor No: $98190193$ Others:			
Minimum efficiency index, MEI ≥:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Minimum efficiency index, MEI ≥:0.70Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU	Others:		
Net weight:105 kgGross weight:127 kgShipping volume:0.39 m³Country of origin:HU		EL>: 0.70	
Gross weight:127 kgShipping volume:0.39 m³Country of origin:HU			
Shipping volume:0.39 m³Country of origin:HU			
Country of origin: HU			

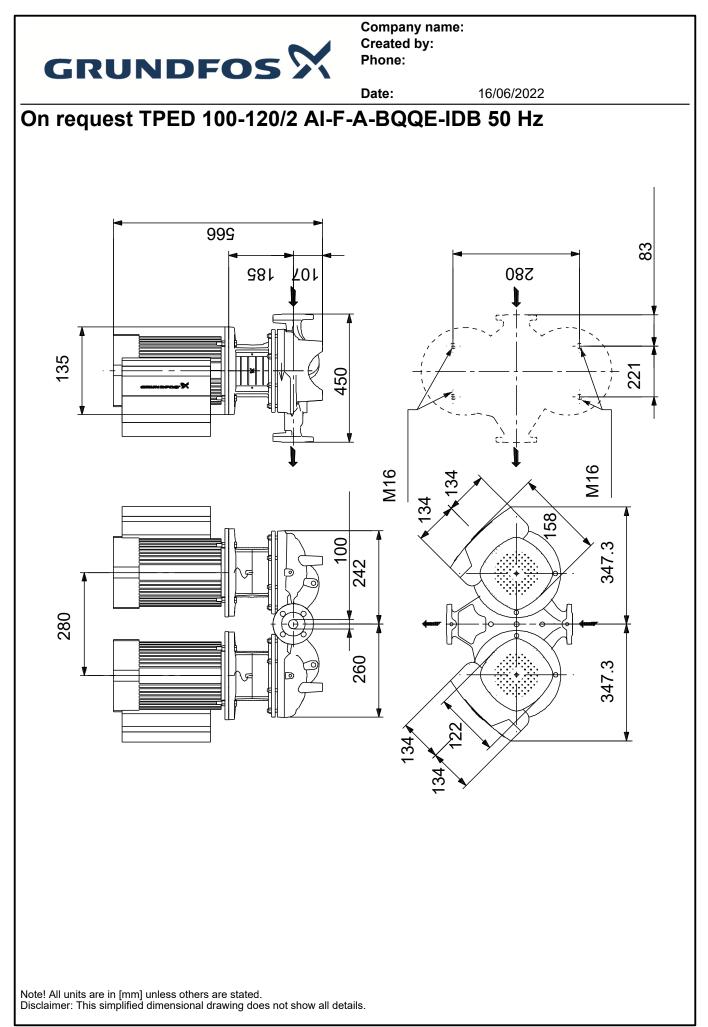


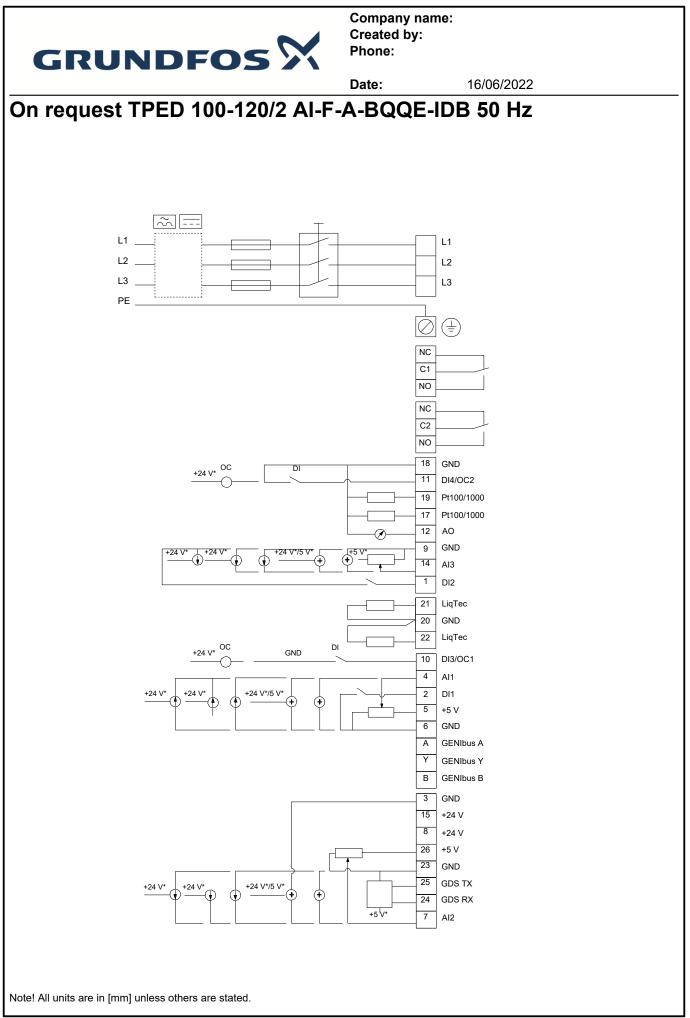
		н	TDED 400 100/0 041001/ 04
Description	Value	[m]	Pumped liquid = Water
General information:		16	Liquid temperature during operation = 20 °C
Product name:	TPED 100-120/2 AI-F-A-BQQE-IDB	14 140 %	Density = 998.2 kg/m <sup>3</sup>
Product No:	On request	14 - 110 %	
EAN number:	On request	100 %	
Fechnical:	•	12-100 %	
Pump speed on which pump data ar based:	e 2910 rpm	10 90 %	100
Rated flow:	72.8 m³/h		
Rated head:	7.79 m	8 80 %	- 80
Maximum head:	120 dm		
Actual impeller diameter:	104 mm	6 70 %	60
Code for shaft seal:	BQQE	°1 🔨	
Curve tolerance:	ISO9906:2012 3B2	60 %	
		4-	40
Pump version:	AI		
Materials:	Orating	2 - 40	20
Pump housing:	Cast iron	2	
Pump housing:	EN-GJL-250	0	
Pump housing:	ASTM class 35	0 10 P	20 30 40 50 60 70 80 Q [m³/h]
Impeller:	Stainless steel	[kW]	[r
Impeller:	EN 1.4301	2.5	P1 (motor+freq.converter) _25
Impeller:	AISI 304		P2 20
Material code:	Α	2.0	-20
Installation:		1.5	15
Range of ambient temperature:	-20 50 °C		
Maximum operating pressure:	6 bar	1.0	10
Max pressure at stated temp:	6 bar / 120 °C		
Type of connection:	DIN	0.5	-5
Size of connection:	DN 100	0.0	
Pressure rating for connection:	PN 6		
Pressure rating for connection. Port-to-port length:	450 mm		n 135
Flange size for motor:	FT115		
Connect code:	F		
Liquid:	\ <b>A</b> /		
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C	260	
Density:	998.2 kg/m³	H <b>a</b>	M16
Electrical data:		134 t	134
Motor type:	90LD		
IE Efficiency class:	IE5		
Rated power - P2:	2.2 kW		
Mains frequency:	50 Hz	347.3	347.3 M16
Rated voltage:	3 x 380-500 V	• ····· • •	
Rated current:	4.15-3.40 A		
Cos phi - power factor:	0.93-0.87		
Rated speed:	360-4000 rpm		
Efficiency: Mater officiency at full load:	90.1%		
Motor efficiency at full load:	90.1 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F	an par of a	
Built-in motor protection:	ELEC		
Motor No:	98190193		
Controls:		-36.1° <b>0</b> -56.1° <b>0</b> -56.1° <b>1</b>	
Control panel:	HMI200 - Standard		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Others:			

Printed from Grundfos Product Centre [2022.26.009]



Date: 16/06/2022 Description Value Minimum efficiency index, MEI ≥: 0.70 Net weight: 105 kg Gross weight: 127 kg Shipping volume: 0.39 m<sup>3</sup> Config. file no: 98478727 Country of origin: ΗU Custom tariff no .: 84137065







16/06/2022

# Order Data:

Product name:TPED 100-120/2Amount:1Product No:On request

Total: Price on request