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Company name: Created by: Phone:

Description TPE2 D 65-180 N-A-F-A-BQQE-HAC Image: Second	
Freduct No: On request Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. To 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 6/10 DIN flanges (EN 1092-2 and ISO 2005-2). 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. Wireless communication between the two power heads is quickly and easily obtained. The pump heads can be set cascade mode, alternating mode or duty/standby.	
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The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (E considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.	U)
An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Mi or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:	n."
• "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)	hts)
 "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) 	or
• "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 a thin, well-controlled layer on the surface.	as
Pump	

1: Pump housing

2: Impeller

- 3: Neck ring
- 4: Pump head/motor stool



16/06/2022

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5: Stub shaft

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 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.

Seal faces:

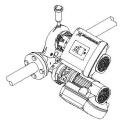
- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

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.

Twin-head pumps installed in horizontal pipes must be fitted with an automatic air vent in the upper part of the pump housing. The automatic air vent is not supplied with the pump.



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. The pump shaft is fastened directly on the motor shaft with key and set screws.

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.

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	
=.q	Water -25 120 °C 20 °C 998.2 kg/m³	
Technical: Pump speed on which pump data Rated flow:	are based: 32.7 m³/h	4470 rpm



		Date:	16/06/2022	
Description				
Rated head:	12.8 m			
Actual impeller diameter:	78 mm			
Code for shaft seal:	BQQE			
Curve tolerance:	ISO9906:2012 3B2			
	1000000.2012 082			
Materials:				
Pump housing:	Cast iron			
r amp neaeing.	EN-GJL-250			
	ASTM class 35			
Impeller:	Composite			
Impeller.				
	PES+30% GF			
Installation:				
	-20 50 °C			
Range of ambient temperature:				
Maximum operating pressure:	10 bar			
Max pressure at stated temp:	10 bar / 120 °C			
Type of connection:	DIN			
Size of connection:	DN 65			
Pressure rating for connection:	PN 6/10			
Port-to-port length:	340 mm			
Flange size for motor:	56C			
-				
Electrical data:				
Motor type:	90SB			
IE Efficiency class:	IE5			
Rated power - P2:	1.5 kW			
Mains frequency:	50 / 60 Hz			
Rated voltage:	1 x 200-240 V			
Rated current:	9.20-7.60 A			
Cos phi - power factor:	0.99			
Rated speed:	480-5900 rpm			
	87.5%			
Efficiency:				
Motor efficiency at full load:	87.5 %			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor No:	99138031			
Otherse				
Others: Minimum efficiency index, MEI ≥:	: 0.70			
Net weight: $N \in \mathbb{R}^{2}$	55.1 kg			
Gross weight:	68.4 kg			
Shipping volume:	0.252 m ³			
Country of origin:	HU			
Custom tariff no.:	84137065			



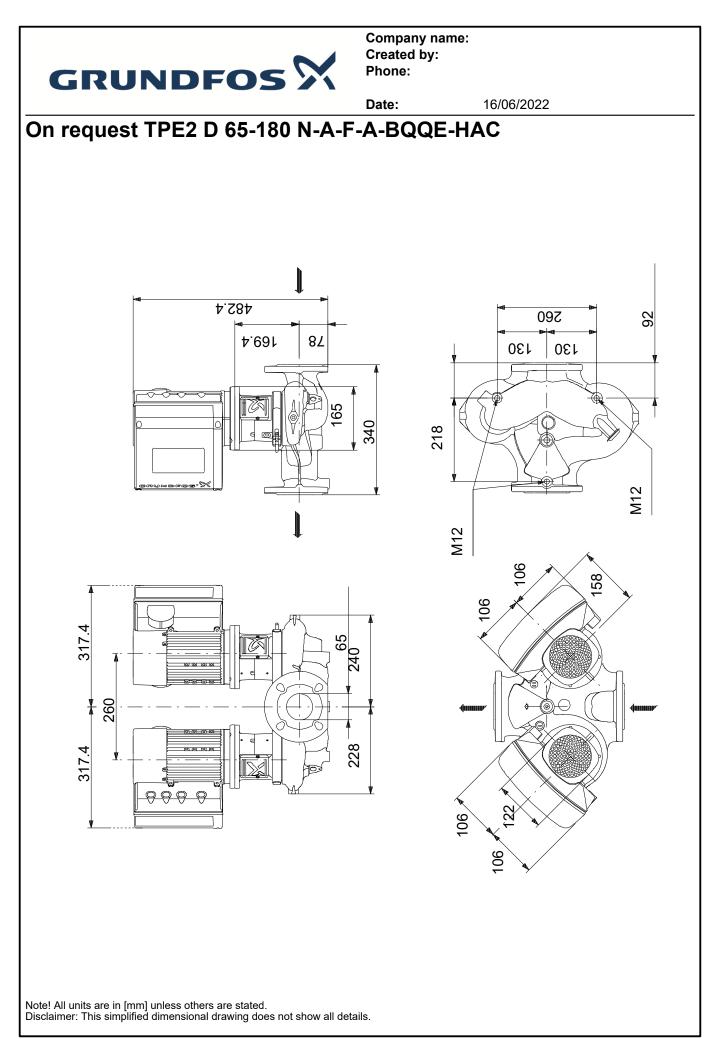
DescriptionValueGeneral information:Product name:TPE2 D 65-180 N-A-F-A-BQQE-HACProduct No:On requestEAN number:On requestTechnical:Pump speed on which pump data are based:4470 rpmRated flow:32.7 m³/hRated head:12.8 mMaximum head:180 dmActual impeller diameter:78 mmCode for shaft seal:BQQECurve tolerance:ISO9906:2012 3B2Pump housing:Cast ironPump housing:EN-GJL-250Pump housing:ASTM class 35Impeller:PES+30% GF			Date:	16/06/2022
General Information:Product name:TPE2 D 65-180 N.A.F.A.BOOE-HACProduct No:On requestProduct No:On requestAlter Also Colspan="2">ControlsPump speed on which pump data are based:12.8 m Maximum head:12.8 mActual impeler diameter:78 mmCode to shaft seat:BOQCECurve tolerance:ISOS906/2012 3B2Pump housing:Cast fronPump housing:Cast fronPump housing:Cast fronPump housing:ASTM class 35Impeller:CompositeImpeller:PE-S30% GFMaximum operature:20.5 °CYipe of connection:DI N6Size of connection:DI N6Pressure rating for connection:PN 6/10Prot-so-port length:340 mmFlange size for molor:56CConnect cols:FLiquid temperature:20 °CDensity:998.2 kg/m²Electrical data:Motor sig:Motor type:9058Ite Efficiency class:IE-SRated speed:4.20.240 VRated voltage:1.20.240 VRated voltage: </th <th>Description</th> <th>Value</th> <th></th> <th>TPE2 [</th>	Description	Value		TPE2 [
Product name: TPE2 D 65-180 NAF-A-BOGE-HAC Product No: On request An unsper: On the one of the one of the one of the one An unsper: One of the one of the one of the one An unsper: One of the one of the one of the one An unspect of the one of the one of the one of the one An unspect of the one of the one of the one An unspect of the one of the one of the one An unspect of the one of the one And the one of the one of the one An unspect of the one of the one An unspect of the one of the one And the one of the one of the one of the one And the one of the				
Product No: On request EAN number: On request Technical: Pump speed on which pump data are 4470 pm based: Rated how: $32.7 m^{1/h}$ Rated how: $92.5 30\%$ (GF Rated how: $91.120 °C$ Rated how: $91.120 °C$ Rated funct: 90.66 F Liquid temperature: $20 °C$ Rated power: $52. 120 °C$ Rated power: $52. 120 °C$ Rated power: $52. 120 °C$ Rated power: $92.5 .120 °C$ Rated pow	Product name:		20 -	Density = 998.2 kg/m ³
EAN number: On request Technical: Pump speed on which pump data are 4470 rpm Based flow: 32.7 m³/h Rated head: 12.8 m Kaked hea	Product No:	On request	18 -	
Technical: Pump speed on which pump data are 4470 rpm based: Rated flow: 32.7 m ³ /n Rated flow: 32.7 m ³ /n Rated flow: 12.8 m Maximum head: 180 dm Actual impeller diameter: 76 mm Code for shaft seal: BOQE Curve tolerance: ISO9906.2012 3B2 Pump housing: Cast iron Pump housing: ASTM class 35 Impeller: PES-30% GF Material code: A Installation: Range of ambient temperature: Puse of connection: DIN Maximum operating pressure: 10 bar Maximum operating pressure: 10 bar Maximum operating pressure: 10 bar Maximum operating pressure: 0 bar Maximum operating pressure: 10 bar Maximum operating pressure: 10 bar Maximum operating pressure: 10 bar Prot-to-por tength: 340 mm Flange size for motor: 56C Connect code: F Liquid temperature: 20 °C Density: 998.2 kg	EAN number:			
based: Rated flow: $32.7 \text{ m}^3/\text{h}$ Rated flow: 12.8 m Maximum head: 180 dm Actual impeller diameter: 78 mm Code for shaft seal: BQOE Curve tolerance: ISO9906.2012 382 Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: Cast iron Pump housing: Composite Impelier: PES-33% GF Haterial code: A Installation: Range of ambient temperature: 2050 °C Maximum operating pressure: 10 bar Max pressure at stated temp: 10 bar / 120 °C Type of connection: DN N 65 Pressure rating for connection: DN 6610 Port-b-port length: 340 mm Flange size for motor: 56C Connect code: F Liquid temperature range: 26120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m ³ Electrical data: Motor type: 908B Elef Efficiency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated speed: 440-5900 rpm Efficiency: 67.5% Enclosure class (IEC 34-5): IP55 Insulation dass (IEC 35): F Built-in motor protection: ELEC Motor No: 99138031 Controls: Control ganel: HMI200 - Standard Fruction Module: FN300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEL :: 0.70	Technical:		16	90 %
Rated Iow: 32.7 m ³ /h Rated Iow: 12.8 m Maximum head: 12.8 m Maximum head: 180 dm Actual impeller: 78 mm Code for shaft seal: BOQ0E Curve tolerance: ISO9906.2012 3B2 Pump housing: Cast iron Pump housing: Cast iron Pump housing: CASTM class 35 Impeller: Composite Impeller: PES-30% GF Material code: A Installation: Range of ambient temperature: -2050 °C Maximum operating pressure: 10 bar / 120 °C Type of connection: DIN Size of connection: DIN Size of connection: DN 65 Port-oport length: 340 mm Flange size for motor: 56C Connect code: F Liquid: Pumpeliquid: Water Liquid temperature: 20 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m ³ Electrical data: Motor kje: 90SB IE Efficiency class: IE5 Rated power - P2: 1.5 kW Mains frequency: 50 / 60 Hz Rated ourent: 2.207.60 A Cos phi - power factor: 99138031 Controls: Controls: Controls: Control panel: HMI200 - Standard Frequency converter: Built-in Others: Minimum efficiency linex, KEI E: 0.70	Pump speed on which pump data are based:	4470 rpm	14 -	
Maximum head: Actual impeller diameter: 78 mm Actual impeller diameter: 78 mm Code for shaft seal: BQOE Curve tolerance: ISO9906:2012 3B2 Pump housing: Pump housing for connection: PN 65 Pump housing for connection: PN 65 Pump housing for connection: PN 610 Port-to-port length: Housing: Pump housing: Pump housing for connection: PN 610 Port-to-port length: Housing: Pump housing: Pump housing: Pump housing for connection: PN 610 Port-to-port length: Housing: Pump housing: Pump housing: Pum housing: Pum housing	Rated flow:	32.7 m³/h	12	80 %
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Code for shaft seal: BOQE Curve tolerance: ISO9906.2012 3B2 Pump prousing: A Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Impeller: Composite Impeller: PES-30% GF Material code: A Installation: Range of ambient temperature: -20 50 °C Maximum operating pressure: 10 bar Max pressure at stated temp: 10 bar / 120 °C Type of connection: DIN Size of connection: DIN Size of connection: PN 6/10 Port-to-port length: 340 mm Flange size for motor: 56C Connect code: F Liquid temperature: 20 °C Density: 998.2 kg/m ³ Electrical dat: Motor type: 90SB IE Efficiency class: IE5 Rated power - P2: 1.5 kW Mains frequency: 60/60 Hz Rated source: 91 Elefticiency at full load: 87.5 % Enclosure dass (IEC 34.5): IP55 Insulation class (IEC 35): F Built-in motor protection: ELEC Motor No: 99138031 Controls: Control sen: Control panel: HMI200 - Standard Frequency converter: Built-in Others: Minimum efficiency index, MEL 2: 0.70	Maximum head:	180 dm	10 -	70 %
Code to shart seal. BODE Durpe to shart seal. BODE Invertised and the seal of the seal	Actual impeller diameter:	78 mm	8	
Curve tolerance: ISO 9906 2012 382 Pump browsing: A Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Impeller: Composite Impeller: PES+30% GF Material code: A Installation: Range of ambient temperature: -2050 °C Maximum operating pressure: 10 bar Max pressure at stated temp: 10 bar / 120 °C Type of connection: DIN Size of connection: DIN Size of connection: DN 65 Pressure rating for connection: PN 6/10 Port-to-port length: 340 mm Flange size for motor: 56C Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m ³ Electrical data: Motor type: Sol / 60 Hz Rated power factor: 0.99 Rated space: 1 × 200-240 V Rated current: 9.20-7.60 A Cos ph i -power factor: 0.99 Rated space: 1 × 200-240 V Rated space: 1 × 200-240 V Rated space: 1 × 200-240 V Rated current: 9.20-7.60 A Cos ph i -power factor: 0.99 Rated space: 1 × 200-240 V Rated space: 1	Code for shaft seal:	BQQE		60%
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Pump housing:Cast ironPump housing:EN-GJL250Pump housing:ASTM class 35Impeller:CompositeImpeller:PES+30% GFMaterial code:AInstallation:Range of ambient temperature:Pump housing:10 barMaximum operating pressure:10 barPumped liquid:DN 65Pressure rating for connection:DN 65Pressure rating for connection:PN 6/10Port-oport length:340 mmFlange size for motor:56 CConnect code:FLiquid temperature range:-25120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m²Electrical data:905BMotor type:905BIE Efficiency class:IE5Rated yourge:1.x 200-240 VRated speed:480-5900 rpmEfficiency:87.5%Motor Rificiency at full load:87.5%Control ganel:HMI200 - StandardFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI E:Ontrol panel:HMI200 - StandardFunction Module:FM300 - AdvancedFrequency converter:Built-inOthers:Minimum efficiency index, MEI E:Ontrol panel:	Pump version:	Α	4 - /	
Pump housing: Case and the provided and	Materials:			
Pump housing:ASTM class 35Impeller:CompositeImpeller:PES+30% GFMaterial code:AInstallation:FRange of ambient temperature:-20 50 °CMaximum operating pressure:10 barMax pressure at stated temp:10 bar / 120 °CType of connection:DINSize of connection:DIN 65Pressure rating for connection:PN 6/10Port-oport length:340 mmPlange size for motor:56CConnect code:FLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor efficiency class:Motor type:90SBIE Efficiency class:IE5Rated power P2:1.5 kWMains frequency:50 / 60 HzRated yoldge:1 x 200-240 VRated yoldge:1 x 200-240 VRated yoldge:1 x 200-240 VRated yoldge:7.5 %Motor efficiency at full load:87.5 %Enclosure class (IEC 28-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99138031Control panel:HMI200 - StandardFincunent:D.70	Pump housing:	Cast iron	2 -	%
Pump housing: ASTM class 35 Impeller: Composite Impeller: PES+30% GF Material code: A Installation: Range of ambient temperature: -2050 °C Maximum operating pressure: 10 bar Max pressure at stated temp: 10 bar / 120 °C Type of connection: DN 65 Pressure rating for connection: PN 6/10 Port-to-port length: 340 mm Flange size for motor: 56C Connect code: F Liquid: Pumped liquid: Water Liquid temperature: 20 °C Pensity: 998.2 kg/m ³ Electrical data: Motor type: 90SB IE Efficiency class: IE5 Rated power - P2: 1.5 KW Mains frequency: 50 / 60 Hz Rated ovoltage: 1 x 200-240 V Rated ovoltage: 1 x 200-240 V Rated ovoltage: 1 x 200-240 V Rated ovoltage: 1 x 200-260 Å Cos phi - power factor: 0.99 Rated speed: 480-5900 rpm Efficiency: 87.5% Motor efficiency at full load: 87.5 % Enclosure class (IEC 28-5): IP55 Insulation class (IEC 285): F Built-in motor protection: ELEC Motor No: 99138031 Controls: Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Hinimum efficiency index, ME1 ≥: 0.70	Pump housing:	EN-GJL-250		
Impeller:CompositeImpeller:PES+30% GFMaterial code:AInstallation:Particular Code:Range of ambient temperature:-2050 °CMaximum operating pressure:10 bar / 120 °CType of connection:DINSize of connection:DN 65Pressure rating for connection:PN 8/10Port-to-port length:340 mmFlange size for motor:56CConnect code:FLiquid temperature range:-25120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:Motor type:90SBIE Efficiency class:IE5Rated power - P2:1.5 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated voltage:1 x 200-240 VRated voltage:1 x 200-240 VRated voltage:1 x 200-260 VRated speed:480-5900 rpmEfficiency:87.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99138031Control panel:HMI200 - StandardFrequency converter:Built-inMinimum efficiency index, ME1 ≥:0.70	Pump housing:	ASTM class 35	0	10 20 30 40
Impeller:PES+30% GFMaterial code:AInstallation:Range of ambient temperature:-2050 °CMaximum operating pressure:10 barMax pressure at stated temp:10 bar / 120 °CType of connection:DINSize of connection:DN 65Pressure rating for connection:PN 6/10Port-to-port length:340 mmFlange size for motor:56CConnect code:FLiquid:WaterPumped liquid:WaterLiquid temperature range:-25120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data: 00° Motor type:90SBIE Efficiency class:IE5Rated power - P2:1.5 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated speed:480-5900 rpmEfficiency at full load:87.5 %Motor efficiency at full load:87.5 %Insulation class (IEC 85):FIsuilation motor protection:ELECMotor No:99138031Control si:Control si:Control si:Guilt-inControl si:FM300 - AdvancedFrequency converter:Built-inMinimum efficiency index, MEI her0.70		Composite	P	
Material code:AInstallation:Range of ambient temperature:-2050 °CMaximum operating pressure:10 bar10 barMax pressure at stated temp:10 bar / 120 °CType of connection:DINDIN 65Pressure rating for connection:PN 6/10Port-to-port length:340 mmFlange size for motor:56CConnect code:FLiquid temperature:20 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:Motor type:90SBIE Efficiency class:IE5Rated power - P2:1.5 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated speed:480-5900 pmEfficiency:87.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 34-5):IP55Insulation class (IEC 34-5):IP55Insulation class (IEC 34-5):FBuilt-in motor protection:ELECMotor No:99138031Controls:Controls:Control panel:HMI200 - StandardFrequency converter:Built-inMinimum efficiency index, MEI ≥:0.70		PES+30% GF		
Installation:Range of ambient temperature:-20 50 °CMaximum operating pressure:10 barMax pressure at stated temp:10 bar / 120 °CType of connection:DINSize of connection:DN 65Pressure rating for connection:PN 6/10Port-to-port length:340 mmFlange size for motor:56CConnect code:FLiquidWaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:Motor type:90SBIE Efficiency class:IE5Rated voltage:1 x 200-240 VRated voltage:1 x 200-240 VRated voltage:1 x 200-240 VRated speed:480-5900 rpmEfficiency:87.5 %Motor tefficiency atass (IEC 34-5):IP55Insulation class (IEC 65):FBuilt-in motor protection:ELECMotor No:99138031Control sin:OntolControl panel:HMI200 - StandardFrequency converter:Built-inMinimum efficiency index, MEI E:0.70	Material code:	Α	2.0	P1 (motor+fre
Range of ambient temperature: -2050 °CMaximum operating pressure: 10 barMax pressure at stated temp: 10 bar / 120 °CMax pressure at stated temp: 10 bar / 120 °CSize of connection: Pressure rating for connection:DN 65Pressure rating for connection: Port-to-port length: Liquid: Liquid temperature: Density: Belectrical data:Motor type: Bensity: B	Installation:		15	
Maximum operating pressure: 10 bar Max pressure at stated temp: 10 bar / 120 °C Type of connection: DIN Size of connection: DN 65 Pressure rating for connection: PN 6/10 Port-to-port length: 340 mm Flange size for motor: 56C Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m ³ Electrical data: Motor type: 90SB IE Efficiency class: IE5 Rated power - P2: 1.5 kW Mains frequency: 50 / 60 Hz Rated voltage: 1 x 200-240 V Rated voltage: 1 x 200-240 V Rated voltage: 1 x 200-240 V Rated speed: 480-5900 rpm Efficiency at full load: 87.5 % Motor rBiciency at full load: 87.5 % Motor rBiciency at guile load: 87.5 % Motor No: 991 Rated speed: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: Minimum efficiency index, MEI \geq : 0.70	Range of ambient temperature:	-20 50 °C	1.0	
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Type of connection:DINSize of connection:DN 65Pressure rating for connection:PN 6/10Port-to-port length:340 mmFlange size for motor:56CConnect code:FLiquid temperature range:-25120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:Motor type:90SBIE Efficiency class:IE5Rated power - P2:1.5 kWMain frequency:50 / 60 HzRated voltage:1 x 200-240 VRated voltage:920-7.60 ACos phi - power factor:0.99Rated speed:480-5900 rpmEfficiency:87.5%Motor type:99138031Controls:PostadardControls:FControls:FControls:FControls:FControls:FMinimum efficiency index, MEI ≥:0.70		10 bar / 120 °C		
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Pumped liquid:WaterLiquid temperature range: $-25 120 ^\circ C$ Selected liquid temperature: $20 ^\circ C$ Density: 998.2kg/m^3 Electrical data: 15kW Motor type: $90SB$ IE Efficiency class:IE5Rated power - P2: 1.5kW Mains frequency: $50 / 60 \text{Hz}$ Rated voltage: $1 \times 200-240 \text{V}$ Rated current: $9.20-7.60 \text{A}$ Cos phi - power factor: 0.99 Rated speed: $480-5900 \text{rpm}$ Efficiency: 87.5% Motor efficiency at full load: 87.5% Insulation class (IEC 34-5):IP55Insulation class (IEC 345):FBuilt-in motor protection:ELECMotor No: 99138031 Control panel:HMI200 - StandardFrequency converter:Built-inOthers: \mathbf{K} Minimum efficiency index, MEI \geq : 0.70	-	F		
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Density:998.2 kg/m³Electrical data:Motor type:90SBIE Efficiency class:IE5Rated power - P2:1.5 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:9.20-7.60 ACos phi - power factor:0.99Rated speed:480-5900 rpmEfficiency:87.5%Motor efficiency at full load:87.5%Enclosure class (IEC 34-5):IP55Insulation class (IEC 45):FBuilt-in motor protection:ELECMotor No:99138031Controls:Controls:Control panel:HMI200 - StandardFrequency converter:Built-inMinimum efficiency index, MEI ≥:0.70		20 °C		
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IE Efficiency class:IE5Rated power - P2:1.5 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:9.20-7.60 ACos phi - power factor:0.99Rated speed:480-5900 rpmEfficiency:87.5%Motor efficiency at full load:87.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99138031Controls:Control panel:Control panel:HMI200 - StandardFrequency converter:Built-inDithers:0.70		90SB		218
Rated power - P2:1.5 kWMains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:9.20-7.60 ACos phi - power factor:0.99Rated speed:480-5900 rpmEfficiency:87.5%Motor efficiency at full load:87.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99138031Controls:FM300 - AdvancedFrequency converter:Built-inBuilt-inOthers:Minimum efficiency index, MEI \geq :0.70	51		106	
Mains frequency:50 / 60 HzRated voltage:1 x 200-240 VRated current:9.20-7.60 ACos phi - power factor:0.99Rated speed:480-5900 rpmEfficiency:87.5%Motor efficiency at full load:87.5 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99138031Controls:Control panel:Control panel:HMI200 - StandardFrequency converter:Built-inOthers:0.70	-		106 122	
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Control panel: HMI200 - Standard Function Module: FM300 - Advanced Frequency converter: Built-in Others: 0.70				
Function Module: FM300 - Advanced Frequency converter: Built-in Others: 0.70		HMI200 - Standard		
Frequency converter: Built-in Others: 0.70				
Others: Image: Constraint of the second s				
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		0.70		
	-			

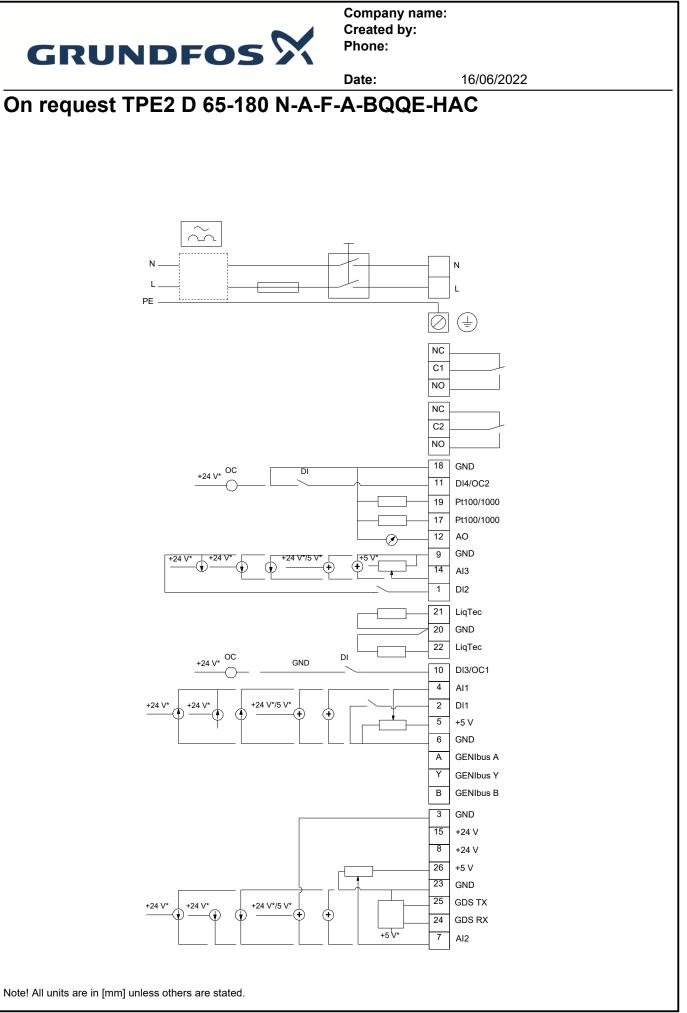
2 D 65-180, 1*230 V eta [%] operation = 20 °C - 100 - 80 - 60 40 20 0 Q [m³/h] NPSH [m] .40 req.converter) - 30 P2 - 20 **-** 10 Lo

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		Date:	16/06/2022	
Description	Value			
Gross weight:	68.4 kg			
Shipping volume:	0.252 m³			
Config. file no:	98819183			
Country of origin:	HU			
Custom tariff no.:	84137065			







16/06/2022

Order Data:

Product name:TPE2 D 65-180Amount:1Product No:On request

Total: Price on request