

Date: 23/12/2022

Qty. | Description

1 NB 32-160/163 AAF2AESBQQEKW1



Product No.: 97925279

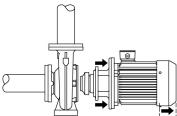
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

The unbalanced rubber bellows seal is according to DIN EN 12756.

The pump is close-coupled to a fan-cooled asynchronous motor.

The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes.



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

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool.

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.

The pump housing has feet.

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 IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

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.



Date: 23/12/2022

Qty. | Description

1 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: NONE Pressure sensor: N

Liquid:

Pumped liquid: Water
Liquid temperature range: -25 .. 120 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2930 rpm

Rated flow: 29.4 m³/h
Rated head: 28.99 m
Actual impeller diameter: 163 mm
Nominal impeller diameter: 160
Shaft seal arrangement: Single
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Bearing design: Standard

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Wear ring: Brass
Impeller: Cast iron
EN-GJL-200

ASTM class 30

Internal pump house coating: CED

Shaft: Stainless steel

EN 1.4301 AISI 304

Installation:

60 °C Max. ambient temperature: Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: **DN 50** Size of outlet connection: **DN 32** Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Ν

Electrical data:

Motor type: 112MC
IE Efficiency class: IE3
Rated power - P2: 4 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D V



Date: 23/12/2022

Qty. | Description

1 Rated current: 7.9 A

Starting current: 1000-1110 %

Cos phi - power factor: 0.87-0.87

Rated speed: 2920-2940 rpm

Efficiency: IE3 88,1%

Motor efficiency at full load: 88.1 %

Motor efficiency at 3/4 load: 88.6 %

Motor efficiency at 3/4 load: 88.6 %

Motor efficiency at 1/2 load: 85.2 %

Number of poles:

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Motor No: 87322303

Bearing insulation type N-end: STEEL BEARING

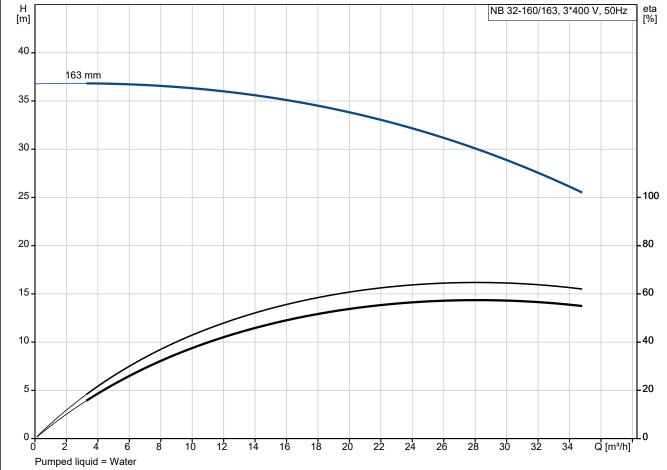
Others:

Minimum efficiency index, MEI ≥: 0.59
Net weight: 64 kg
Gross weight: 74 kg
Shipping volume: 0.178 m³
Danish VVS No.: 386060165
Country of origin: HU
Custom tariff no.: 84137051

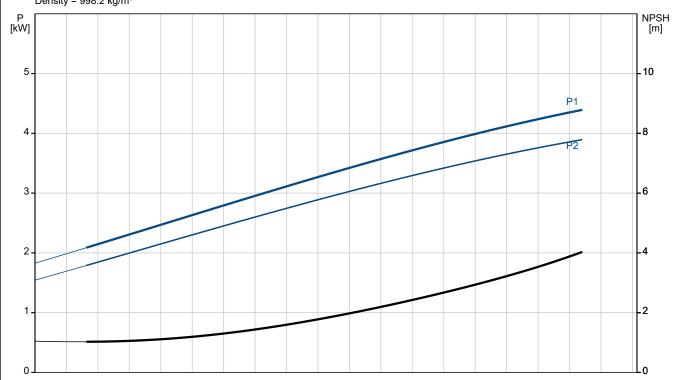


Date: 23/12/2022

97925279 NB 32-160/163 AAF2AESBQQEKW1 50 Hz



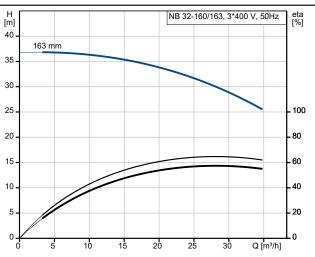
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³



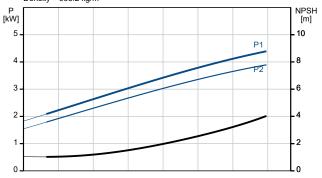


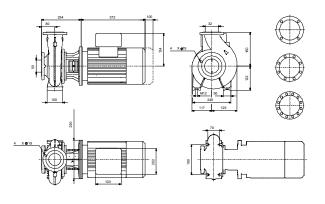
Date: 23/12/2022

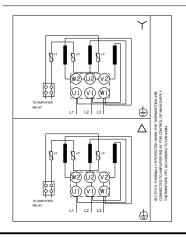
Description Value General Information: NB 32-160/163 AAF2AESBQQEKW1 Product name: NB 32-160/163 AAF2AESBQQEKW1 Product No: 97925279 EAN number: 5710626509300 Technical: Pump speed on which pump data are based: Pump speed on which pump data are based: 29.4 m³/h Rated flow: 29.4 m³/h Rated head: 28.99 m Actual impeller diameter: 160 Shaft seal arrangement: Single Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Pump housing: Cast iron Pump housing: Cast iron Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Internal pump house coating: CED				
Product No: 97925279 EAN number: 5710626509300 Technical: Pump speed on which pump data are based: 28.99 m Actual impeller diameter: 163 mm Nominal impeller diameter: 160 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump housing: Cast iron Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing luvic diameter: 20 °C Selected liquid temperature: 30 °C Selected liquid temperature: 30 °C Selected liq		Value		
Product No: 97925279 EAN number: 571062509300 Technical: Pump speed on which pump data are based: Rated flow: 29.4 m³/h Rated head: 28.99 m Actual impeller diameter: 163 mm Nominal impeller diameter: 160 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Impeller: Cast iron Impeller: BN-GJL-250 Impeller: Cast iron Impeller: Cast iron Impeller: BN-GJL-200 Impeller: BN-GJL-200 Impeller: BN-GJL-200 Impeller: BN-GJL-301 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: BN 1.4301 Shaft: BN 1.4301 Shaft: BN 1.4301 Shaft: BN 1.4301 Shaft: BN 1.504 Installation: DN 50 Size of inlet connection: DN 50 Size of outlet connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 9290-2940 rpm	General information:			
EAN number: 5710626509300 Technical: Pump speed on which pump data are based: 2930 rpm	Product name:			
Technical: Pump speed on which pump data are based: Rated flow: 29.4 m³/h Rated head: 28.99 m Actual impeller diameter: 163 mm Nominal impeller diameter: 160 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: ASTM class 35 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC Ita Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated speed: 9920-2940 rpm	Product No:	97925279		
Pump speed on which pump data are based: 29.4 m³/h Rated flow: 29.4 m³/h Rated head: 28.99 m Actual impeller diameter: 160 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Vand Pump housing: Cast iron Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: Rand Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar <t< td=""><td>EAN number:</td><td>5710626509300</td></t<>	EAN number:	5710626509300		
based: 29.4 m³/h Rated head: 28.99 m Actual impeller diameter: 163 mm Nominal impeller diameter: 160 Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Varing Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Wear ring: Brass Impeller: Cast iron Impeller: Cast iron Impeller: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AIS1 304 Installation: Imperiod of C Maximum operating pressure: 16 bar </td <td></td> <td></td>				
Rated head: 28.99 m Actual impeller diameter: 163 mm Nominal impeller diameter: 160 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: *** Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Als 304 Installation: Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 <td< td=""><td>Pump speed on which pump data are based:</td><td>2930 rpm</td></td<>	Pump speed on which pump data are based:	2930 rpm		
Actual impeller diameter: 163 mm Nominal impeller diameter: 160 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Wear ring: Brass Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 35 Wear ring: Brass Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 988.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: EIS Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated voltage: 3 x 380-415D V Rated speed: 2920-2940 rpm				
Nominal impeller diameter:	1 (31/3 41 11 34 41			
Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AIS1 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated speed: 2920-2940 rpm	•			
Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 50 Size of outlet connection: PN 16 Bearing lubrication: Grease	•			
Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of outlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet:	•			
Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Pump version: Bearing design: Standard Materials: Pump housing: Pump house coating: Pumpeller: Pumpeller: Pump house coating: Pump house steel Pump house temperature: Pump housing with feet: Pumped liquid: Pum	•			
Bearing design: Materials: Pump housing: Pump house coating: Pump house: Pump house coating: Pump house: Pump house coating: Pump house: Pump house: Pump house: Pump house: Pump house: Pump housing with feet: Pump bousing with feet: Pump housing with feet: Pump bousing with feet: Pum bousing w	·			
Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: BN 1.4301 Shaft: EN 1.4301 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm	•	• •		
Pump housing: EN-GJL-250 Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm		Standard		
Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Pump housing: Wear ring: Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: EShaft: Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Connect code: E1quid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: 20 °C Density: Bearing lubrication: Selected liquid temperature: 20 °C Density: Bearing lubrication: Selected liquid temperature: 20 °C Density: Bearing lubrication: Selected liquid femperature: 20 °C Selected liquid femperature: 20 °C Density: Bearing lubrication: Selected liquid femperature: 30 °C Selected liquid fempera				
Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation: Max. ambient temperature: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: In				
Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm		ASTM class 35		
Impeller:	· ·	Brass		
Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm	•			
Internal pump house coating: Material code: A Code for rubber: E Shaft: Shaft: Stainless steel Shaft: AISI 304 Installation: Max. ambient temperature: Max. ambient temperature: Fipe connection standard: Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Do °C Selected liquid temperature: Density: P98.2 kg/m³ Electrical data: Motor type: I12MC IE Efficiency class: Rated power - P2: A kW Mains frequency: Starting current: T, 9 A Starting current: Cos phi - power factor: Rated speed: Density 2920-2940 rpm	•			
Material code: Code for rubber: EShaft: Stainless steel Shaft: Shaft: Shaft: Shaft: Shaft: Shaft: AISI 304 Installation: Max. ambient temperature: Max. ambient temperature: Fipe connection standard: Size of inlet connection: Size of outlet connection: DN 50 Size of outlet connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Pump housing with feet: Yes Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Density: P98.2 kg/m³ Electrical data: Motor type: I12MC IE Efficiency class: Rated power - P2: A kW Mains frequency: Starting current: T,9 A Starting current: Cos phi - power factor: Rated speed: 2920-2940 rpm	Impeller:	ASTM class 30		
Code for rubber: Shaft: Shaft: Shaft: Shaft: EN 1.4301 Shaft: Histallation: Max. ambient temperature: Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: 20 °C Density: Pescripted data: Motor type: I12MC IE Efficiency class: Rated power - P2: A kW Mains frequency: Starting current: Cos phi - power factor: Rated speed: Palsa Starting current Cos phi - power factor: Rated speed: PSI J.4301 AISI J.4301 AI		CED		
Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm	Material code:	Α		
Shaft: EN 1.4301 Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm	Code for rubber:	E		
Shaft: AISI 304 Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Installation: Max. ambient temperature: 60 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Max. ambient temperature: Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Pestimated by a comparison of the com	= 1 1=11 =1	AISI 304		
Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Pumped liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Pest 112MC IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Rated speed: PN 16 BN 32 PN 16 BN 32 Water Ves Selexes Ves Selexes Ves Selexes Ves Selexes Pumped liquid: Water Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selexed liquid temperature: 20 °C Density: 998.2 kg/m³ Elexetrical data: Motor type: 112MC IE 3 Rated voltage: Rated voltage: Rated voltage: Rated voltage: Rated speed: Cos phi - power factor: 0.87-0.87 Rated speed:				
Pipe connection standard: EN 1092-2 Size of inlet connection: DN 50 Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Size of inlet connection: Size of outlet connection: DN 32 Pressure rating for connection: PN 16 Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Pumped liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pest 20°C Density: 998.2 kg/m³ Electrical data: Motor type: I12MC IE Efficiency class: Rated power - P2: A kW Mains frequency: Rated voltage: Rated current: 7.9 A Starting current: Cos phi - power factor: Rated speed: DN 32 PN 30 10 10 10 10 10 10 10 10 10				
Size of outlet connection: Pressure rating for connection: Pressure rating for connection: Bearing lubrication: Grease Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Uniquid temperature range: Selected liquid temperature: Density: Density: Selectrical data: Motor type: IE Efficiency class: Rated power - P2: A kW Mains frequency: Starting current: Moon-1110 % Cos phi - power factor: Cos PN 16 Rease PN 16 Rease Wester Yes Water Liquid: Vater Liquid: Vater Liquid temperature: 20 °C Selected liquid temperature: 20 °C Density: Selectrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: A kW Mains frequency: 50 Hz Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed:	•			
Pressure rating for connection: Bearing lubrication: Grease Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pelectrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: T,9 A Starting current: Cos phi - power factor: Rated speed: PN 16 Water Water Liquid: Water Liquid: Water Liquid temperature: 20 °C 998.2 kg/m³ Electrical data: Motor type: 112MC IE 3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed:				
Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pensity: Belectrical data: Motor type: If Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Results Suppose				
Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm	_			
Support block (Yes/No): N Connect code: F2 Liquid: Water Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Connect code: F2 Liquid: Water Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: IEMC Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Wotor type: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm		F2		
Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm	-			
Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Density: 998.2 kg/m³ Electrical data: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Electrical data: Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Motor type: 112MC IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm	,	998.2 kg/m³		
IE Efficiency class: IE3 Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Rated power - P2: 4 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm	**			
Mains frequency: 50 Hz Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Rated voltage: 3 x 380-415D V Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm				
Rated speed: 2920-2940 rpm	_			
,				
Efficiency: IE3 88,1%	•	•		
	Efficiency:	IE3 88,1%		



Pumped liquid = Water Liquid temperature during operation = 20 °C Density = 998.2 kg/m³









Date: 23/12/2022

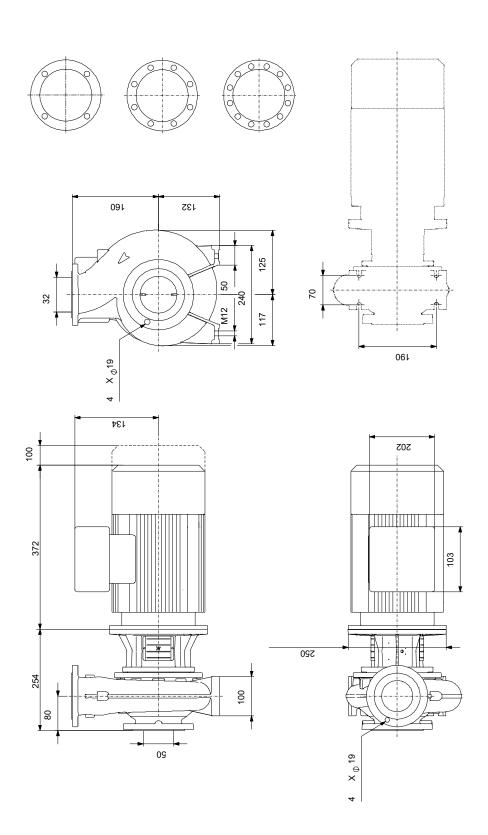
Description	Value
•	88 1 %
Motor efficiency at full load:	00.1.70
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	85.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	87322303
Mount. design. acc. IEC 34-7:	IM V1/B5
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.59
Net weight:	64 kg
Gross weight:	74 kg
Shipping volume:	0.178 m³
Danish VVS No.:	386060165
Country of origin:	HU
Custom tariff no.:	84137051



Date:

23/12/2022

97925279 NB 32-160/163 AAF2AESBQQEKW1 50 Hz



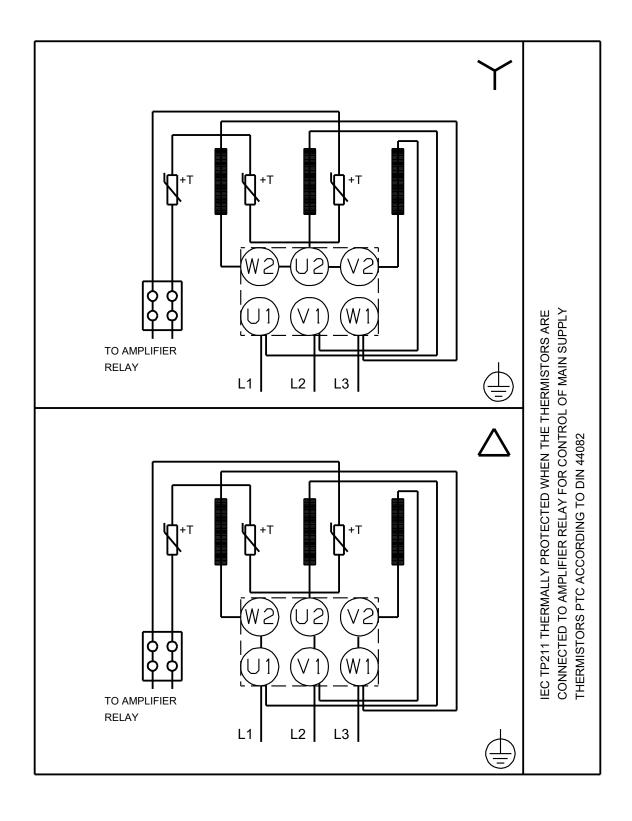
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

23/12/2022

97925279 NB 32-160/163 AAF2AESBQQEKW1 50 Hz



Note! All units are in [mm] unless others are stated.



Date: 23/12/2022

Order Data:

Position	Your pos.	Product name		Product No	Total
		NB 32-160/163	1		Price on request
	I	<u> </u>	I	1	