

**Date:** 30/12/2022

Qty. | Description

1 NB 100-200/181 AASF2AESBQQESW1



Product No.: 98647850

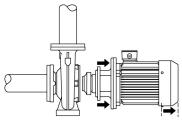
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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.

The pump is to be secured to the foundation with bolts through the pump housing feet and motor feet. The pump is delivered with steel support blocks. The support blocks provide horizontal alignment of the pump and ensure clearance between the motor stool/motor flange and the foundation.

#### 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.



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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.

## 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: 2955 rpm

Rated flow: 284.8 m³/h
Rated head: 33.54 m
Actual impeller diameter: 181 mm
Nominal impeller diameter: 200
Shaft seal arrangement: Single
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B

Bearing design: Standard

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Wear ring: Brass
Impeller: Cast iron
FN-G-II -200

EN-GJL-200 ASTM class 30

Internal pump house coating: CED

Shaft: Stainless steel

EN 1.4301 AISI 304

Installation:

55 °C t max amb: Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 DN 125 Size of inlet connection: **DN 100** Size of outlet connection: Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Υ



**Date:** 30/12/2022

## Qty. | Description

1 Electrical data:

Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 37 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-420D/660-725Y V

Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 88.0 Rated speed: 2955 rpm Efficiency: IE3 93,7% Motor efficiency at full load: 93.7-93.7 % Motor efficiency at 3/4 load: 94.2-94.2 % Motor efficiency at 1/2 load: 94.0-94.0 %

Number of poles: 2
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 99032147

Bearing insulation type N-end: STEEL BEARING

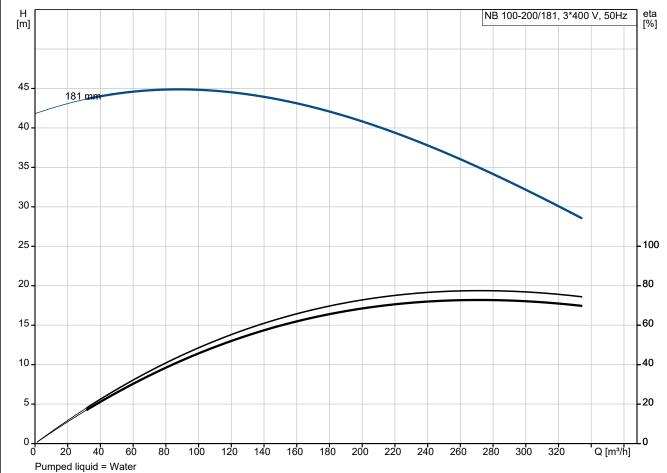
Others:

Minimum efficiency index, MEI ≥:0.68Net weight:351 kgGross weight:376 kgShipping volume:0.707 m³Danish VVS No.:386065203

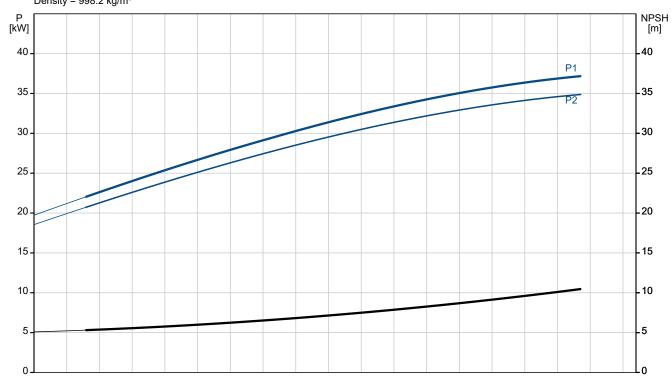


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# 98647850 NB 100-200/181 AASF2AESBQQESW1 50 Hz



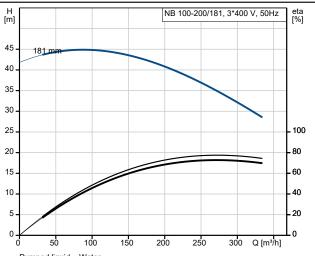
Liquid temperature during operation = 20 °C Density = 998.2 kg/m³



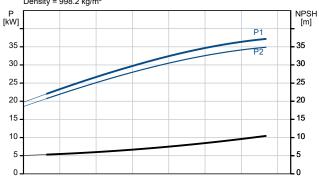


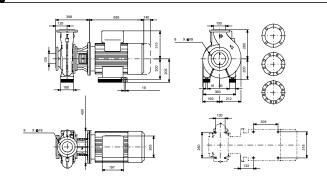
**Date:** 30/12/2022

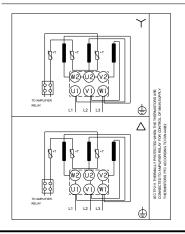
Description         Value           General Information:         NB 100-200/181           Product name:         NB 100-200/181           AASF2AESBQCESW1         Product No:           EAN number:         5711498870888           Technical:         Freshical:           Pump speed on which pump data era based:         2955 rpm           Rated flow:         284.8 m³/h           Rated head:         33.54 m           Actual impeller diameter:         200           Shaft seal arrangement:         Single           Shaft diameter:         32 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump possing:         Standard           Materials:         Standard           Pump pousing:         Cast iron           Pump housing:         Cast iron           Pump housing:         EN-GJL-250           Pump housing:         Brass           Wear ring:         Brass           Impeller:         Cast iron           Impeller:         ASTM class 35           Wear ring:         Brass           Impeller:         ASTM class 30           Internal pump house coating:         CED
Product No:         98647850           EAN number:         5711498870888           Technical:         5711498870888           Pump speed on which pump data are based:         2955 rpm           Rated flow:         284.8 m³/h           Rated head:         35.54 m           Actual impeller diameter:         200           Shaft daneter:         32 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         AS           Bearing design:         Materials:           Pump housing:         Cast iron           Pump housing:         EN-GJL-250           Pump housing:         ASTM class 35           Wear ring:         Brass           Impeller:         Cast iron           Impeller:         ASTM class 30           Internal pump house coating:         CED           Material code:         A           Code for rubber:         E           Shaft:         Stainless steel           Shaft:         ASTM class 30           Internal pump house coating:         CED           Material code:         A           Code for rubber:         E           Shaft:
Product No: 98647850 EAN number: 5711498870888  Technical:  Pump speed on which pump data are based:  Rated flow: 284.8 m³/h Rated head: 33.54 m  Actual impeller diameter: 181 mm  Nominal impeller diameter: 200 Shaft seal arrangement: Single Shaft diameter: 32 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B Pump version: AS 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: Cast iron Impeller: CASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: t max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 100 Pressure rating for connection: PN 16 Bearing Ubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y Connect code: P2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IEE Efficiency class: IE3 Rated power -P2: 37 kW Mains frequency: 50 Hz Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
EAN number:
Technical: Pump speed on which pump data are based: Rated flow: Rated head: Actual impeller diameter: Single Shaft seal arrangement: Single Shaft diameter: Soure tolerance: ISO9906:2012 3B Pump version: As Bearing design: Standard Materials: Pump housing: Pump housing: Pump housing: Pump housing: Rated for ribber: EN-GJL-250 Internal pump house coating: Material code: A Code for rubber: Shaft: Shaf
Pump speed on which pump data are based:         284.8 m³/h           Rated flow:         284.8 m³/h           Rated head:         33.54 m           Actual impeller diameter:         181 mm           Nominal impeller diameter:         200           Shaft seal arrangement:         Single           Shaft diameter:         32 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         AS           Bearing design:         Materials           Pump housing:         Cast iron           Pump housing:         EN-GJL-250           Pump housing:         Br-GJL-250           Pump housing:         Brass           Wear ring:         Brass           Impeller:         Cast iron           Impeller:         Cast iron           Impeller:         Cast iron           Impeller:         ASTM class 35           Wear ring:         Brass           Impeller:         Cast iron           Impeller:         ASTM class 30           Internal pump house coating:         CED           Material code:         A           Code for rubber:         E           Shaft:
are based:  Rated flow: 284.8 m³/h Rated head: 33.54 m Actual impeller diameter: 181 mm Nominal impeller diameter: 200 Shaft seal arrangement: Single Shaft diameter: 32 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B Pump version: AS Bearing design: Standard  Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Impeller: Cast iron 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: It max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of outlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: BEMENS IE SIEMENS IE SIEMENS IE Efficiency class: IE3 Rated power - P2: 37 kW Mains frequency: 50 Hz Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
Rated head:         33.54 m           Actual impeller diameter:         181 mm           Nominal impeller diameter:         200           Shaft seal arrangement:         Single           Shaft seal arrangement:         32 mm           Code for shaft seal:         BQQE           Curve tolerance:         IsO9906:2012 3B           Pump version:         AS           Bearing design:         Standard           Materials:         War ring           Pump housing:         Cast iron           Pump housing:         ASTM class 35           Wear ring:         Brass           Impeller:         Cast iron           Impeller:         Cast iron           Impeller:         Cast iron           Impeller:         ASTM class 35           Impeller:         ASTM class 30           Internal pump house coating:         CED           Material code:         A           Code for rubber:         E           Shaft:         Stainless steel           Shaft:         Stainless steel           Shaft:         Stainless steel           Shaft:         Stainless steel           Shaft:         BN 10304           Installation:
Actual impeller diameter: 181 mm  Nominal impeller diameter: 200  Shaft seal arrangement: Single  Shaft diameter: 32 mm  Code for shaft seal: BQQE  Curve tolerance: ISO9906:2012 3B  Pump version: AS  Bearing design: Standard  Materials:  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:  I max amb: 55 °C  Maximum operating pressure: 16 bar  Pipe connection standard: EN 1092-2  Size of inlet connection: DN 125  Size of outlet connection: PN 16  Bearing lubrication: Grease  Pump housing with feet: Yes  Support block (Yes/No): Y  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: SIEMENS  IE Efficiency class: IE3  Rated power - P2: 37 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-420D/660-725Y V  Rated current: 65/37.5 A  Starting current: 710-710 %  Cos phi - power factor: 0.88
Nominal impeller diameter:         200           Shaft seal arrangement:         Single           Shaft diameter:         32 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         AS           Bearing design:         Standard           Materials:         Pump housing:           Pump housing:         Cast iron           Pump housing:         ASTM class 35           Wear ring:         Brass           Impeller:         Cast iron           Impeller:         Cast iron           Impeller:         Cast iron           Impeller:         ASTM class 35           Wear ring:         Brass           Impeller:         ASTM class 35           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:         Ithernal pump and pump and
Shaft seal arrangement:         Single           Shaft diameter:         32 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         AS           Bearing design:         Standard           Materials:         Pump housing:           Pump housing:         EN-GJL-250           Pump housing:         Brass           Impeller:         Cast iron           Impeller:         Cast iron           Impeller:         ASTM class 35           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:         Imax amb:           I max amb:         55 °C           Maximum operating pressure:         16 bar           Pipe connection standard:         EN 1092-2           Size of inlet connection:         DN 125           Size of outlet connection:         DN 100           Pressure rating for connection:         PN 16 <t< td=""></t<>
Shaft diameter:         32 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         AS           Bearing design:         Standard           Materials:         Pump housing:           Pump housing:         EN-GJL-250           Pump housing:         Brass           Pump housing:         Brass           Impeller:         Cast iron           Impeller:         EN-GJL-200           Impeller:         ASTM class 35           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:         Internal pressure:           Installation:         Internal pressure:           Installation:         Internal pressure:           Imax amb:         55 °C           Maximum operating pressure:         16 bar           Pipe connection standard:         EN 1092-2           Size of outlet connection:         DN 100
Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         AS           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:         Installation:           I max amb:         55 °C           Maximum operating pressure:         16 bar           Pipe connection standard:         EN 1092-2           Size of inlet connection:         DN 125           Size of outlet connection:         DN 100           Pressure rating for connection:         PN 16           Bearing lubrication:         Grease           Pump housing with feet:         Yes
Curve tolerance: ISO9906:2012 3B Pump version: AS Bearing design: Standard  Materials: Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-250 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: Imax amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y 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: SIEMENS IE Efficiency class: IE3 Rated power - P2: 37 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated voltage: 3 x 380-420D/660-725Y V Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
Pump version: Standard  Bearing design: Standard  Materials:  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: AISI 304  Installation:  I max amb: 55 °C  Maximum operating pressure: 16 bar  Pipe connection standard: EN 1092-2  Size of inlet connection: DN 125  Size of outlet connection: DN 100  Pressure rating for connection: PN 16  Bearing lubrication: Grease  Pump housing with feet: Yes  Support block (Yes/No): Y  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: SIEMENS  IE Sfliciency class: IE3  Rated power - P2: 37 kW  Mains frequency: 50 Hz  Rated current: 65/37.5 A  Starting current: 710-710 %  Cos phi - power factor: 0.88
Bearing design: Standard  Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass 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: EN 1.4301 Shaft: AISI 304  Installation: It max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: Grease Pump housing with feet: Yes Support block (Yes/No): Y 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: SIEMENS IE Efficiency class: IE3 Rated power - P2: 37 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
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: I max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y Connect code: F2 Liquid: Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: Rated power - P2: 37 kW Mains frequency: 50 Hz Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
Pump housing: EN-GJL-250 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: AISI 304 Installation: It max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y Connect code: F2 Liquid: Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 37 kW Mains frequency: 50 Hz Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
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:         AISI 304           Installation:         Impediate in in the interpretation of the in
Pump housing: 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: t max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y 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: SIEMENS IE Efficiency class: IE3 Rated power - P2: 37 kW Mains frequency: 50 Hz Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
Wear ring: Impeller: Impel
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: BN 1.4301 Shaft: EN 1.4301 Installation: I max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y 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: SIEMENS IE Efficiency class: IE3 Rated power - P2: 37 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
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: I max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y 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: SIEMENS IE Efficiency class: IE3 Rated power - P2: 37 kW Mains frequency: 50 Hz Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
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:  t max amb: 55 °C  Maximum operating pressure: 16 bar  Pipe connection standard: EN 1092-2  Size of inlet connection: DN 125  Size of outlet connection: PN 16  Bearing lubrication: Grease  Pump housing with feet: Yes  Support block (Yes/No): Y  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: SIEMENS  IE Efficiency class: IE3  Rated power - P2: 37 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-420D/660-725Y V  Rated current: 65/37.5 A  Starting current: 710-710 %  Cos phi - power factor: 0.88
Internal pump house coating:  Material code:  Code for rubber:  Shaft:  Shaft:  Stainless steel  Shaft:  Installation:  I max amb:  Maximum operating pressure:  Pipe connection standard:  Size of inlet connection:  DN 125  Size of outlet connection:  PN 16  Bearing lubrication:  Pump housing with feet:  Support block (Yes/No):  Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature:  Do C  Selected liquid temperature:  Do C  Selected liquid temperature:  Motor type:  IE Efficiency class:  Rated power - P2:  Rated voltage:  Rated current:  Cos phi - power factor:  Calsilia Stainless steel  A  A  A  A  A  A  A  A  A  A  A  A  A
Material code:  Code for rubber:  Shaft:  Shaft:  Shaft:  Shaft:  Shaft:  Shaft:  Shaft:  Shaft:  AISI 304  Installation:  I max amb:  Maximum operating pressure:  I fb bar  Pipe connection standard:  Size of inlet connection:  DN 125  Size of outlet connection:  PN 16  Bearing lubrication:  Pump housing with feet:  Support block (Yes/No):  Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Bearing lubrication:  Selected liquid temperature:  Density:  Selected liquid temperature:  Density:  Selected liquid temperature:  Density:  Selected liquid temperature:  Motor type:  SIEMENS  IE Efficiency class:  Rated power - P2:  AT kW  Mains frequency:  So Hz  Rated voltage:  A A  Starting current:  T10-710 %  Cos phi - power factor:  O AISI Also 1.4301  Electrical data:  A 1.4301  A 1.4
Code for rubber:  Shaft: Shaft: Shaft: Shaft: EN 1.4301 Shaft: AISI 304  Installation: I max amb: Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 125 Size of outlet connection: PN 16 Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Description: Description: Description: Page 20 °C Density: Pestiment SIEMENS IE Efficiency class: IE3 Rated power - P2: Rated voltage: Rated runner: Staining current: AISI 304  Installation: Stainless steel Shaft: AISI 304  Installation: AISI
Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation:  t max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Y 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: SIEMENS IE Efficiency class: IE3 Rated power - P2: 37 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
Shaft: AISI 304  Installation:  I max amb: 55 °C  Maximum operating pressure: 16 bar  Pipe connection standard: EN 1092-2  Size of inlet connection: DN 125  Size of outlet connection: DN 100  Pressure rating for connection: PN 16  Bearing lubrication: Grease  Pump housing with feet: Yes  Support block (Yes/No): Y  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: SIEMENS  IE Efficiency class: IE3  Rated power - P2: 37 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-420D/660-725Y V  Rated current: 65/37.5 A  Starting current: 710-710 %  Cos phi - power factor: 0.88
Shaft: Installation:  t max amb:
Installation:  t max amb:  Maximum operating pressure:  Pipe connection standard:  Size of inlet connection:  DN 125  Size of outlet connection:  DN 100  Pressure rating for connection:  Pump housing with feet:  Pump housing with feet:  Yes  Support block (Yes/No):  Connect code:  F2  Liquid:  Pumped liquid:  Uiquid temperature range:  Selected liquid temperature:  Density:  Pestiv:  Bearing lubrication:  Y  Connect code:  F2  Liquid:  Pumped liquid:  Liquid temperature range:  -25 120 °C  Selected liquid temperature:  Density:  BiEMENS  IE Efficiency class:  IE3  Rated power - P2:  Ar kW  Mains frequency:  Rated voltage:  Rated voltage:  Rated current:  65/37.5 A  Starting current:  710-710 %  Cos phi - power factor:  0.88
t max amb:  Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: Pump housing with feet: Pump housing with feet: Yes Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Density: Pescare value of the selection of the selec
Maximum operating pressure: Pipe connection standard: EN 1092-2 Size of inlet connection: DN 125 Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature range: Selected liquid temperature: Density: Poss. SIEMENS Electrical data: Motor type: SIEMENS IE Efficiency class: Rated power - P2: Rated voltage: Rated current: GSIEMENS Starting current: T10-710 % Cos phi - power factor: DN 109 Ves Selected Sease Pump 100 Ves Selected Sease Ves Sease Ves Sease Ves Sease Sease Ves Sease Ves Sease Sease Ves Sease Ves Sease Sease Ves Sease Sease Ves Sease Sease Sease Ves Sease
Pipe connection standard: EN 1092-2  Size of inlet connection: DN 125  Size of outlet connection: DN 100  Pressure rating for connection: PN 16  Bearing lubrication: Grease  Pump housing with feet: Yes  Support block (Yes/No): Y  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: SIEMENS  IE Efficiency class: IE3  Rated power - P2: 37 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-420D/660-725Y V  Rated current: 65/37.5 A  Starting current: 710-710 %  Cos phi - power factor: 0.88
Size of inlet connection:  Size of outlet connection:  DN 100  Pressure rating for connection:  PN 16  Bearing lubrication:  Pump housing with feet:  Support block (Yes/No):  Connect code:  F2  Liquid:  Pumped liquid:  Vater  Liquid temperature range:  Selected liquid temperature:  Density:  Poss. 20 °C  Density:  SIEMENS  IE Efficiency class:  Rated power - P2:  Rated voltage:  Rated voltage:  Rated current:  65/37.5 A  Starting current:  710-710 %  Cos phi - power factor:  DN 125  Nares  Noto 100  PN 16  BN 100  PN 16  BN 100  SPN 16  BN 100  PN 16  BN 100  SPN 16  SPN 16  SPN 16  SPN 100  SPN 16  SPN 16  SPN 16  SPN 16  SPN 100  SPN 16  S
Size of outlet connection:  Pressure rating for connection:  Bearing lubrication:  Pump housing with feet:  Support block (Yes/No):  Connect code:  F2  Liquid:  Pumped liquid:  Vater  Liquid temperature range:  Selected liquid temperature:  Density:  998.2 kg/m³  Electrical data:  Motor type:  IE Efficiency class:  Rated power - P2:  Rated voltage:  Rated voltage:  Rated current:  65/37.5 A  Starting current:  Cos phi - power factor:  Sress  PN 16  BN 100  PN 16  Srease  PN 16  Srease  PN 16  Stease  Stease  PN 16  Stease  Stease  PN 16  Stease  Stease  Stease  PN 16  Stease  St
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:  998.2 kg/m³  Electrical data:  Motor type:  IE Efficiency class:  IE Sa  Rated power - P2:  Mains frequency:  Rated voltage:  Rated current:  65/37.5 A  Starting current:  Cos phi - power factor:  Support 16  Yes  Yes  Yes  Srease  Yes  Yes  Selected  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Support  Yes  SIEMENS  IE 3  Rated  Sa 3 80-420D/660-725Y V  Rated current:  710-710 %  Cos phi - power factor:  0.88
Bearing lubrication:  Pump housing with feet: Support block (Yes/No): Connect code: F2  Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Selected liquid temperature: Selected liquid
Support block (Yes/No):         Y           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:           IE Efficiency class:         IE3           Rated power - P2:         37 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-420D/660-725Y V           Rated current:         65/37.5 A           Starting current:         710-710 %           Cos phi - power factor:         0.88
Support block (Yes/No):         Y           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:           IE Efficiency class:         IE3           Rated power - P2:         37 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-420D/660-725Y V           Rated current:         65/37.5 A           Starting current:         710-710 %           Cos phi - power factor:         0.88
Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  998.2 kg/m³  Electrical data:  Motor type:  IE Efficiency class:  Rated power - P2:  And an instruction of the power starting current:  Rated current:  65/37.5 A  Starting current:  Cos phi - power factor:  Water  Water  Usual Starting current:  -25 120 °C  SUBMENS  SIEMENS  IE3  Rated Power  SIEMENS  IE3  Rated power - P2:  37 kW  Mains frequency:  50 Hz  Rated voltage:  3 x 380-420D/660-725Y V  Rated current:  65/37.5 A  Starting current:  710-710 %  Cos phi - power factor:  0.88
Pumped liquid: Water  Liquid temperature range: -25 120 °C  Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: SIEMENS  IE Efficiency class: IE3  Rated power - P2: 37 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-420D/660-725Y V  Rated current: 65/37.5 A  Starting current: 710-710 %  Cos phi - power factor: 0.88
Liquid temperature range:  Selected liquid temperature:  Density:  998.2 kg/m³  Electrical data:  Motor type:  IE Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  3 x 380-420D/660-725Y V  Rated current:  65/37.5 A  Starting current:  710-710 %  Cos phi - power factor:  0.88
Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         SIEMENS           IE Efficiency class:         IE3           Rated power - P2:         37 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-420D/660-725Y V           Rated current:         65/37.5 A           Starting current:         710-710 %           Cos phi - power factor:         0.88
Density:         998.2 kg/m³           Electrical data:         SIEMENS           Motor type:         SIEMENS           IE Efficiency class:         IE3           Rated power - P2:         37 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-420D/660-725Y V           Rated current:         65/37.5 A           Starting current:         710-710 %           Cos phi - power factor:         0.88
Electrical data:           Motor type:         SIEMENS           IE Efficiency class:         IE3           Rated power - P2:         37 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-420D/660-725Y V           Rated current:         65/37.5 A           Starting current:         710-710 %           Cos phi - power factor:         0.88
Motor type:         SIEMENS           IE Efficiency class:         IE3           Rated power - P2:         37 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-420D/660-725Y V           Rated current:         65/37.5 A           Starting current:         710-710 %           Cos phi - power factor:         0.88
IE Efficiency class:       IE3         Rated power - P2:       37 kW         Mains frequency:       50 Hz         Rated voltage:       3 x 380-420D/660-725Y V         Rated current:       65/37.5 A         Starting current:       710-710 %         Cos phi - power factor:       0.88
Rated power - P2:       37 kW         Mains frequency:       50 Hz         Rated voltage:       3 x 380-420D/660-725Y V         Rated current:       65/37.5 A         Starting current:       710-710 %         Cos phi - power factor:       0.88
Mains frequency:       50 Hz         Rated voltage:       3 x 380-420D/660-725Y V         Rated current:       65/37.5 A         Starting current:       710-710 %         Cos phi - power factor:       0.88
Rated voltage:       3 x 380-420D/660-725Y V         Rated current:       65/37.5 A         Starting current:       710-710 %         Cos phi - power factor:       0.88
Rated current: 65/37.5 A Starting current: 710-710 % Cos phi - power factor: 0.88
Starting current: 710-710 % Cos phi - power factor: 0.88
Cos phi - power factor: 0.88
Rated speed: 2955 rpm
Efficiency: IE3 93,7%



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









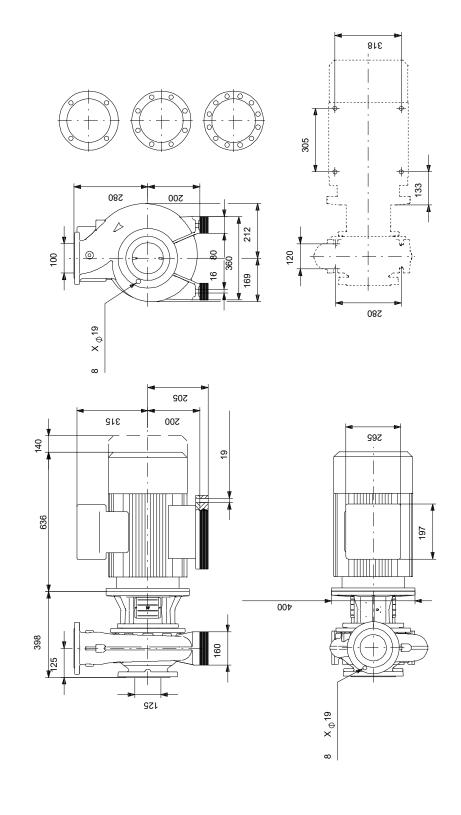
**Date:** 30/12/2022

Description	Value
Motor efficiency at full load:	93.7-93.7 %
Motor efficiency at 3/4 load:	94.2-94.2 %
Motor efficiency at 1/2 load:	94.0-94.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	99032147
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.68
Net weight:	351 kg
Gross weight:	376 kg
Shipping volume:	0.707 m³
Danish VVS No.:	386065203



30/12/2022 Date:

# 98647850 NB 100-200/181 AASF2AESBQQESW1 50 Hz



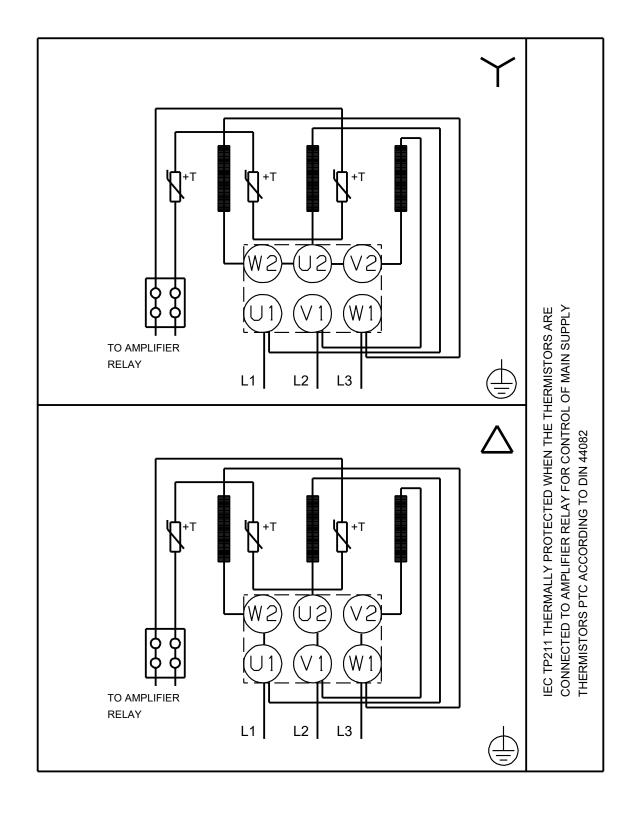
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

30/12/2022

## 98647850 NB 100-200/181 AASF2AESBQQESW1 50 Hz



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



**Date:** 30/12/2022

## **Order Data:**

Position   Your pos.   Product name   Amount   Product No   Total						
	Tour pos.		Amount 1		Price on	
		NB 100-200/181		98647850	request	