

**Date:** 27/04/2021

## Qty. | Description

#### 1 NB 40-200/219 AF2BBQQE



Product No.: 99803699

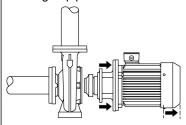
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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

The pump housing has both a priming and a drain hole closed by plugs. The impeller is a closed impeller with double-curved blades with smooth surfaces. The impeller is statically balanced according to ISO 1940-1 class G6.3 and hydraulically balanced to compensate for axial thrust.

Wear rings used in pump housing and for impeller are made of bronze/brass or cast iron.

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The pump cover is provided with a manual air vent screw for venting of the pump housing and the shaft seal chamber.

The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.

Primary seal:

- 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 no 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.



**Date:** 27/04/2021

## Qty. | Description

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.

## **Further product details**

### **Technical data**

Controls:

Frequency converter: NONE

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: 2940 rpm

Rated flow: 60.32 m³/h
Rated head: 52.21 m
Actual impeller diameter: 219 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: Bronze

CuSn10-C

Shaft: Stainless steel

EN 1.4301 AISI 304

Internal pump house coating: CED

Installation:

Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: **DN 65** Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Ν Support block: Ν

Electrical data:

Motor type: WEG IE Efficiency class: IE3



**Date:** 27/04/2021

Qty. | Description

Rated power - P2: 15 kW Mains frequency: 50 Hz

3 x 380-415 V Rated voltage: Rated current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82 Rated speed: 2940/2940 rpm Efficiency: IE3 92.2% Motor efficiency at full load: 92.2-92.2 % Motor efficiency at 3/4 load: 92.0-92.0 %

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

Motor No: 99174340

Others:

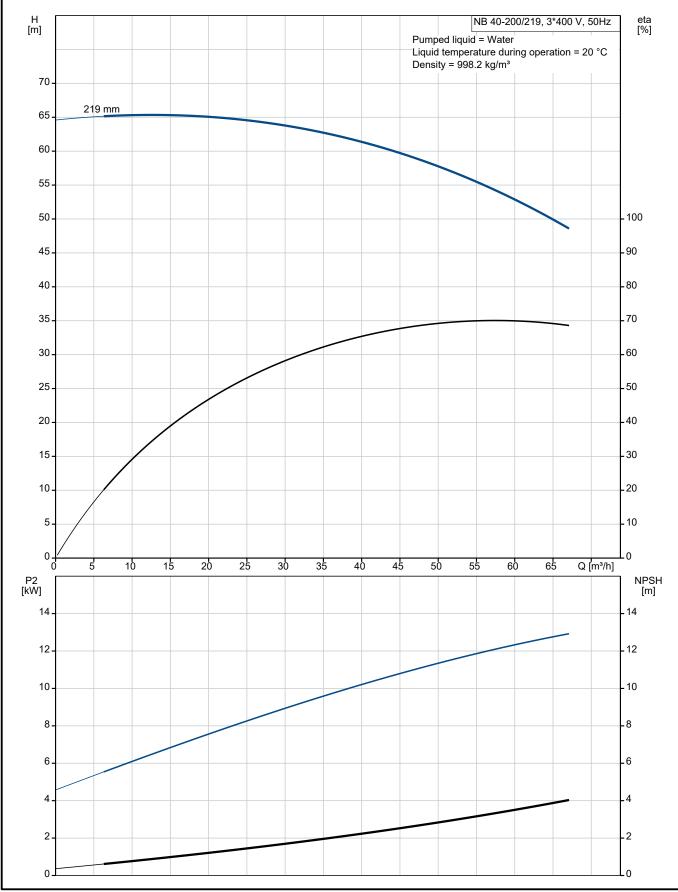
Minimum efficiency index, MEI ≥: 0.65
Net weight: 150 kg
Gross weight: 175 kg
Shipping volume: 0.707 m³
Country of origin: CN

Custom tariff no.: 8413709062



**Date:** 27/04/2021

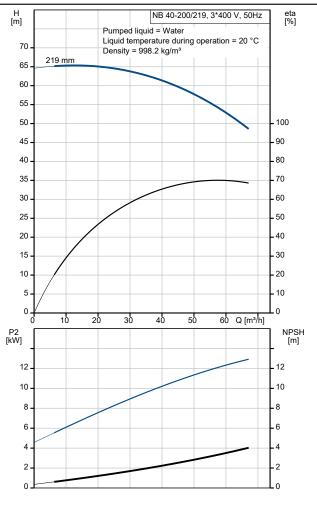
# 99803699 NB 40-200/219 AF2BBQQE 50 Hz





**Date**: 27/04/2021

Description         Value           General Information:         NB 40-200/219           Product name:         NB 40-200/219           AF2BBQQE         Product No:           150 An number:         5713834528149           Price:         Frice:           Technical:         Pump speed on which pump data are based:           Pump speed on which pump data are based:         2940 rpm           Rated flow:         60.32 m³/h           Rated head:         52.21 m           Actual impeller diameter:         219 mm           Nominal impeller diameter:         200           Shaft seal arrangement:         Single           Shaft diameter:         24 mm           Code for shaft seal:         BQQE           Curve tolerance:         IS09906:2012 3B           Pump version:         A           Bearing design:         Standard           Materials:         Cast iron           Pump housing:         Cast iron           Pump housing:         ASTM class 35           Wear ring:         Brass           Impeller:         Bronze           Impeller:         Bronze           Impeller:         Cu5n10-C           Shaft:         Stalines steel		
Product No: 99803699 EAN number: 5713834528149 Price: Technical: Pump speed on which pump data are based: 80.32 m³/h Rated flow: 60.32 m³/h Rated flow: 60.32 m³/h Rated head: 52.21 m Actual impeller diameter: 219 mm Nominal impeller diameter: 219 mm Nominal impeller diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: PN-GJL-250 Pump housing: Bronze Impeller: Bronze Impeller: Bronze Impeller: Cush10-C Shaft: Stainless steel Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: PS 25 120 °C Selected liquid temperature: 20 °C Selected liquid temperature: 30 °C Selected liquid temperature: 20 °C Selected liquid tem	Description	Value
Product No: 99803699 Product No: 99803699 Price: Technical:  Pump speed on which pump data are based: 2940 rpm based: 52.21 m Actual impeller diameter: 219 mm Nominal impeller diameter: 200 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: Pump housing: Brass Impeller: Bronze Impeller: Bronze Impeller: CuSn10-C Shaft: Stainless steel Shaft: AISI 304 Internal pump house coating: CED Materiala code: B Code for rubber: E Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Pressure rating for connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump block: N Support block: N Support block: N Support block: N Suport bloc	General information:	
EAN number: 5713834528149  Price:  Technical:  Pump speed on which pump data are based:  Rated flow: 60.32 m³/h  Rated head: 52.21 m  Actual impeller diameter: 219 mm  Nominal impeller diameter: 200  Shaft seal arrangement: Single  Shaft diameter: 24 mm  Code for shaft seal: BQQE  Curve tolerance: ISO9906:2012 3B  Pump version: A  Bearing design: Standard  Materials:  Pump housing: Cast iron  Pump housing: EN-GJL-250  Pump housing: Brass  Impeller: Bronze  Impeller: Bronze  Impeller: Bronze  Impeller: CuSn10-C  Shaft: Stainless steel  Shaft: AIS1 304  Internal pump house coating: CED  Material code: B  Code for rubber: Installation:  Maximum ambient temperature: 40 °C  Maximum operating pressure: 16 bar  Pipe connection standard: EN 1092-2  Size of inlet connection: DN 65  Size of outlet connection: DN 40  Pipe connection standard: EN 1092-2  Pressure rating for connecton: PN 16  Bearing lubrication: Grease  Pump housing with feet: N  Support block: 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: WEG  IE Efficiency class: IE3  Rated power - P2: 15 kW  Mains frequency: 50 Hz  Rated current: 29.1-27.3 A  Starting current: 29.1-27.3 A  Starting current: 29.1-27.3 A  Starting current: 29.1-27.3 A	Product name:	
Price:   Technical:   Pump speed on which pump data are based:   Section	Product No:	99803699
Technical: Pump speed on which pump data are based: Rated flow: Rated flow: Rated head: Actual impeller diameter: Shaft seal arrangement: Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: Curve tolerance: ISO9906:2012 3B Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: Pump housing: ASTM class 35 Wear ring: Impeller: Impeller: Cusn10-C Shaft: Stainless steel Shaft: Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: Installation: Maximum ambient temperature: Pipe connection standard: Pipe connection standard: Pipe connection standard: Pipe ponnection standard: Pipe connection standard: Pipe	EAN number:	5713834528149
Pump speed on which pump data are based:   Rated flow:   60.32 m³/h     Rated head:   52.21 m     Actual impeller diameter:   219 mm     Nominal impeller diameter:   200     Shaft seal arrangement:   Single     Shaft diameter:   24 mm     Code for shaft seal:   BQQE     Curve tolerance:   ISO9906:2012 3B     Pump version:   A     Bearing design:   Standard     Materials:     Pump housing:   Cast iron     Pump housing:   EN-GJL-250     Pump housing:   Brass     Impeller:   Bronze     Impeller:   Bronze     Impeller:   CuSn10-C     Shaft:   Stainless steel     Shaft:   Stainless steel     Shaft:   EN 1.4301     Shaft:   AISI 304     Internal pump house coating:   CED     Material code:   B     Code for rubber:   E     Installation:   Maximum ambient temperature:   40 °C     Maximum ambient temperature:   40 °C     Maximum ambient temperature:   40 °C     Maximum ambient temperature:   AISI 304     Pipe connection standard:   EN 1092-2     Size of inlet connection:   DN 40     Pipe connection standard:   EN 1092-2     Size of outlet connection:   DN 40     Pipe connection standard:   EN 1092-2     Pressure rating for connection:   PN 16     Bearing lubrication:   Grease     Pump housing with feet:   N     Support block:   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:   WEG     IE Efficiency class:   IE3     Rated power - P2:   15 kW     Mains frequency:   50 Hz     Rated current:   830-830 %     Cos phi - power factor:   0.85/0.82	Price:	
based:         60.32 m³/h           Rated flow:         52.21 m           Actual impeller diameter:         219 mm           Nominal impeller diameter:         200           Shaft seal arrangement:         Single           Shaft seal arrangement:         24 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         A           Bearing design:         Standard           Materials:         Pump housing:           Pump housing:         Cast iron           Pump housing:         RSTM class 35           Wear ring:         Brass           Impeller:         Bronze           Impeller:         Bronze           Impeller:         CuSn10-C           Shaft:         Stainless steel           Shaft:         Stainless steel           Shaft:         Stainless steel           Shaft:         AISI 304           Internal pump house coating:         CED           Material code:         B           Code for rubber:         E           Installation:         Image: Im	Technical:	
Rated head:         52.21 m           Actual impeller diameter:         219 mm           Nominal impeller diameter:         200           Shaft seal arrangement:         Single           Shaft diameter:         24 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         A           Bearing design:         Standard           Materials:         ***           Pump housing:         Cast iron           Pump housing:         Brass           Pump housing:         Brass           Wear ring:         Brass           Impeller:         Bronze           Impeller:         Bronze           Impeller:         CuSn10-C           Shaft:         Stainless steel           Shaft:         AISI 304           Internal pump house coating:         CED           Material code:         B           Code for rubber:         E           Installation:         **           Maximum ambient temperature:         40 °C           Maximum ambient temperature:         40 °C           Maximum ambient temperature:         16 bar           Pipe connection standard: <td>Pump speed on which pump data are based:</td> <td>2940 rpm</td>	Pump speed on which pump data are based:	2940 rpm
Actual impeller diameter: 219 mm  Nominal impeller diameter: 200  Shaft seal arrangement: Single  Shaft diameter: 24 mm  Code for shaft seal: BCQE  Curve tolerance: ISO9906:2012 3B  Pump version: A  Bearing design: Standard  Materials: Pump housing: EN-GJL-250  Pump housing: EN-GJL-250  Pump housing: ASTM class 35  Wear ring: Brass  Impeller: Bronze  Impeller: CuSn10-C  Shaft: Stainless steel  Shaft: Stainless steel  Shaft: AISI 304  Internal pump house coating: CED  Material code: B  Code for rubber: E  Installation: Maximum ambient temperature: 40 °C  Maximum operating pressure: 16 bar  Pipe connection standard: EN 1092-2  Size of inlet connection: DN 40  Pipe connection standard: EN 1092-2  Pressure rating for connection: PN 16  Bearing lubrication: Grease  Pump housing with feet: N  Support block: N  Connect code: F2  Liquid: Water  Liquid temperature range: -25 120 °C  Selected liquid temperature: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor type: WEG  IE Efficiency class: IE3  Rated power - P2: 15 kW  Mains frequency: 50 Hz  Rated current: 29.1-27.3 A  Starting current: 29.1-27.3 A  Starting current: 830-830 %  Cos phi - power factor: 0.85/0.82	Rated flow:	60.32 m³/h
Nominal impeller diameter:         200           Shaft seal arrangement:         Single           Shaft diameter:         24 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         A           Bearing design:         Standard           Materials:         Pump housing:           Pump housing:         EN-GJL-250           Pump housing:         ASTM class 35           Wear ring:         Brass           Impeller:         Bronze           Impeller:         CuSn10-C           Shaft:         Stainless steel           Shaft:         Stainless steel           Shaft:         AISI 304           Internal pump house coating:         CED           Material code:         B           Code for rubber:         E           Installation:         Installation:           Maximum ambient temperature:         40 °C           Maximum ambient temperature:         16 bar           Pipe connection standard:         EN 1092-2           Size of inlet connection:         DN 65           Size of outlet connection:         DN 40           Pipe connection standard:         EN 1092-2	Rated head:	52.21 m
Shaft seal arrangement:         Single           Shaft diameter:         24 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         A           Bearing design:         Standard           Materials:         Pump housing:           Pump housing:         Cast iron           Pump housing:         ASTM class 35           Wear ring:         Brass           Impeller:         Bronze           Impeller:         Bronze           Impeller:         Stainless steel           Shaft:         Stainless steel           Shaft:         AIS1 304           Internal pump house coating:         CED           Material code:         B           Code for rubber:         E           Installation:         E           Maximum ambient temperature:         40 °C           Maximum operating pressure:         16 bar           Pipe connection standard:         EN 1092-2           Size of inlet connection:         DN 65           Size of outlet connection:         DN 40           Pipe connection standard:         EN 1092-2           Pressure rating for connection:         PN 16	Actual impeller diameter:	219 mm
Shaft diameter:         24 mm           Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         A           Bearing design:         Standard           Materials:	Nominal impeller diameter:	200
Code for shaft seal:         BQQE           Curve tolerance:         ISO9906:2012 3B           Pump version:         A           Bearing design:         Standard           Materials:         Pump housing:           Pump housing:         EN-GJL-250           Pump housing:         ASTM class 35           Wear ring:         Brass           Impeller:         Bronze           Impeller:         CuSn10-C           Shaft:         Stainless steel           Shaft:         Stainless steel           Shaft:         AISI 304           Internal pump house coating:         CED           Material code:         B           Code for rubber:         E           Installation:         B           Maximum ambient temperature:         40 °C           Maximum operating pressure:         16 bar           Pipe connection standard:         EN 1092-2           Size of inlet connection:         DN 65           Size of outlet connection:         DN 16           Bearing lubrication:         Grease           Pump housing with feet:         N           Support block:         N           Connect code:         F2           Liquid:<	Shaft seal arrangement:	Single
Curve tolerance: ISO9906:2012 3B 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: Bronze Impeller: CuSn10-C Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: 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: WEG IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x x 380-415 V Rated current: 29.1-27.3 A Starting current: 29.1-27.3 A Starting current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82	Shaft diameter:	24 mm
Pump version: Bearing design: Standard  Materials: Pump housing: Pump house: Pump house: Pump house: Pump house: Pump house coating: Pump house coating: Pump house coating: Pump house: Pump housing with feet: Pump housing ho	Code for shaft seal:	BQQE
Bearing design:  Materials: Pump housing: Pump house coating: Pump house factor Pump hou	Curve tolerance:	ISO9906:2012 3B
Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Bronze Impeller: CuSn10-C Shaft: Stainless steel Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: 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: WEG IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Rated current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82	Pump version:	A
Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Bronze Impeller: CuSn10-C Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: 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: WEG IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Rated current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82	Bearing design:	Standard
Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Bronze Impeller: CuSn10-C Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: 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: WEG IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Rated current: 29.1-27.3 A Starting current: 625.0.85/0.82	Materials:	
Pump housing: Wear ring: Impeller: Impeller: Impeller: CuSn10-C Shaft: Stainless steel Shaft:	Pump housing:	Cast iron
Wear ring: Impeller: Impeller: Impeller: CuSn10-C Shaft: Stainless steel Shaft: Shaft: EN 1.4301 Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: Installation: Maximum ambient temperature: Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 65 Size of outlet connection: PN 16 Bearing lubrication: Pump housing with feet: Support block: Connect code: Liquid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Pues Mea Selected liquid temperature: DN 65 Selected data: Motor type: BE Efficiency class: Rated power - P2: Rated voltage: Rated voltage: Rated voltage: Rated current: Supnation: Rated current: Sup-1-27.3 A Starting current: Sup-29.1-27.3 A Starting current: Sup-30-80 Selected liquid current: Sup-1-27.3 A Starting current: Sup-27.3 A Starting current: Sup-30-80 Selected liquid current: Sup-30-85/0.82	Pump housing:	EN-GJL-250
Impeller: Impeller: CuSn10-C Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: Installation: Maximum ambient temperature: Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 65 Size of outlet connection: PN 16 Bearing lubrication: Pump housing with feet: Support block: Connect code: Liquid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Motor type: IE Efficiency class: Rated power - P2: Rated voltage: Rated voltage: Rated voltage: Rated voltage: Rated current: Suprove factor: Rated current: Rated cover factor: Rated cover factor: Rated cover factor: Rated current: Rated current: Rated cover factor: Rated factor f	Pump housing:	ASTM class 35
Impeller: CuSn10-C Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: 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: WEG IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Rated current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82	Wear ring:	Brass
Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: 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: WEG IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Rated current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82	Impeller:	Bronze
Shaft: EN 1.4301 Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation:  Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: 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: WEG IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 V Rated current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82	Impeller:	CuSn10-C
Shaft: AISI 304 Internal pump house coating: CED Material code: B Code for rubber: E Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: EN 1092-2 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: 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: WEG IE Efficiency class: IE3 Rated power - P2: 15 kW Mains frequency: 50 Hz Rated current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82	Shaft:	Stainless steel
Internal pump house coating:  Material code:  Code for rubber:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Pipe connection standard:  Size of inlet connection:  Pipe connection standard:  Pipe connection:  PN 16  Bearing lubrication:  Grease  Pump housing with feet:  N  Support block:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Pessure rating for connection:  N  Conect code:  F2  Liquid:  Water  Liquid:  Pumped liquid:  Liquid temperature range:  20 °C  Density:  998.2 kg/m³  Electrical data:  Motor type:  WEG  IE Efficiency class:  IE3  Rated power - P2:  15 kW  Mains frequency:  50 Hz  Rated voltage:  Rated voltage:  Rated current:  29.1-27.3 A  Starting current:  830-830 %  Cos phi - power factor:  0.85/0.82	Shaft:	EN 1.4301
Material code:  Code for rubber:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Pipe connection standard:  Size of inlet connection:  Pipe connection standard:  Pipe connection:  PN 16  Bearing lubrication:  Grease  Pump housing with feet:  N  Support block:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Pessure rating for connection:  N  Water  Liquid:  Vater  Liquid:  Vater  Liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Pessure rating for connection:  N  Vater  Liquid:  N  Water  Liquid:  Liquid:  Vater  Liquid temperature range:  Selected liquid temperature:  Density:  Selectrical data:  Motor type:  WEG  IE Efficiency class:  IE3  Rated power - P2:  Mains frequency:  So Hz  Rated voltage:  3 x 380-415 V  Rated current:  29.1-27.3 A  Starting current:  830-830 %  Cos phi - power factor:  0.85/0.82	Shaft:	AISI 304
Code for rubber:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Pipe connection standard:  Size of inlet connection:  Pipe connection standard:  Note standard:  N	Internal pump house coating:	CED
Installation:  Maximum ambient temperature:  Maximum operating pressure:  Pipe connection standard:  Size of inlet connection:  DN 65  Size of outlet connection:  DN 40  Pipe connection standard:  EN 1092-2  Pressure rating for connection:  PN 16  Bearing lubrication:  Pump housing with feet:  Support block:  Connect code:  F2  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Pestimate of passing in the passin	Material code:	В
Maximum ambient temperature: 40 °C  Maximum operating pressure: 16 bar  Pipe connection standard: EN 1092-2  Size of inlet connection: DN 65  Size of outlet connection: DN 40  Pipe connection standard: EN 1092-2  Pressure rating for connection: PN 16  Bearing lubrication: Grease  Pump housing with feet: N  Support block: 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: WEG  IE Efficiency class: IE3  Rated power - P2: 15 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-415 V  Rated current: 29.1-27.3 A  Starting current: 830-830 %  Cos phi - power factor: 0.85/0.82	Code for rubber:	E
Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 65 Size of outlet connection: DN 40 Pipe connection standard: Pipe connection standard: Pipe connection standard: Pipe connection standard: PN 16 Bearing lubrication: PN 16 Bearing lubrication: Grease Pump housing with feet: N Support block: Connect code: F2 Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Pest 20 °C Selected liquid temperature: Density: Pet WEG IE Efficiency class: IE3 Rated power - P2: Mains frequency: Rated voltage: Rated current: Synthesia of the bar 1092-2  In 16 bar In 1092-2  EN 1092-2  PN 16  Bearing lubrication: N Water Value Vater Vater Vater Vater Vater Vater Vater VEG IE 20 °C VEG	Installation:	
Pipe connection standard:  Size of inlet connection:  DN 65  Size of outlet connection:  DN 40  Pipe connection standard:  Pipe connection standard:  Pipe connection standard:  Pipe connection standard:  PN 16  Bearing lubrication:  Pump housing with feet:  N Support block:  Connect code:  F2  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Pessure rating for connection:  PN 16  Bearing lubrication:  N  Support block:  N  Connect code:  F2  Liquid:  Pumped liquid:  Liquid temperature range:  20 °C  Selected liquid temperature:  Density:  Pessure rating for connection:  N  Support block:  N  Selected liquid:  Liquid:  Pumped liquid:  Water  Liquid temperature range:  20 °C  Density:  Pessure rating for connection:  Bisal standard  WEG  IE Efficiency class:  IE3  Rated power - P2:  Mains frequency:  So Hz  Rated voltage:  3 x 380-415 V  Rated current:  29.1-27.3 A  Starting current:  830-830 %  Cos phi - power factor:  0.85/0.82	Maximum ambient temperature:	40 °C
Size of inlet connection:  Size of outlet connection:  DN 40  Pipe connection standard:  Pressure rating for connection:  Bearing lubrication:  Pump housing with feet:  Support block:  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:  Size of outlet connection:  DN 40  EN 1092-2  PN 16  Serease  N  Vater  N  Vater  Liquid:  Vater  Liquid:  Vater  Liquid temperature range:  20 °C  Density:  998.2 kg/m³  Electrical data:  Motor type:  WEG  IE Efficiency class:  IE3  Rated power - P2:  T5 kW  Mains frequency:  So Hz  Rated voltage:  Rated current:  29.1-27.3 A  Starting current:  830-830 %  Cos phi - power factor:  0.85/0.82	Maximum operating pressure:	16 bar
Size of outlet connection:  Pipe connection standard: Pipe connection standard: Pressure rating for connection:  Bearing lubrication: Pump housing with feet: N Support block: Connect code: F2  Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Density: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: Density: Pumped liquid temperature: 10°C Selected	Pipe connection standard:	EN 1092-2
Pipe connection standard: EN 1092-2  Pressure rating for connection: PN 16  Bearing lubrication: Grease  Pump housing with feet: N  Support block: 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: WEG  IE Efficiency class: IE3  Rated power - P2: 15 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-415 V  Rated current: 29.1-27.3 A  Starting current: 830-830 %  Cos phi - power factor: 0.85/0.82	Size of inlet connection:	DN 65
Pressure rating for connection:  Bearing lubrication:  Pump housing with feet:  Support block:  Connect code:  F2  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Poss. 2 kg/m³  Electrical data:  Motor type:  WEG  IE Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated current:  Sandard voltage:  Rated voltage:  Rated current:  Sandard voltage:  Rated voltage:  Rated voltage:  Rated current:  Sandard voltage:  Rated voltage:  Rated voltage:  Rated voltage:  Rated current:  Rated voltage:  Rated voltage	Size of outlet connection:	DN 40
Bearing lubrication:  Pump housing with feet:  N Support block:  Connect code:  F2  Liquid:  Pumped liquid:  Liquid temperature range:  Selected liquid temperature:  Density:  Punsity:  998.2 kg/m³  Electrical data:  Motor type:  IE Efficiency class:  Rated power - P2:  Mains frequency:  Rated voltage:  Rated current:  Sand-415 V  Rated current:  830-830 %  Cos phi - power factor:  N N N N N N N N N N N N N N N N N N	Pipe connection standard:	EN 1092-2
Pump housing with feet:  Support block:  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:  Support block:  N  Water  20 °C  20	Pressure rating for connection:	PN 16
Support block:         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:         WEG           Motor type:         WEG           IE Efficiency class:         IE3           Rated power - P2:         15 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-415 V           Rated current:         29.1-27.3 A           Starting current:         830-830 %           Cos phi - power factor:         0.85/0.82	Bearing lubrication:	Grease
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:         WEG           Motor type:         WEG           IE Efficiency class:         IE3           Rated power - P2:         15 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-415 V           Rated current:         29.1-27.3 A           Starting current:         830-830 %           Cos phi - power factor:         0.85/0.82	_	N
Liquid:         Pumped liquid:         Water           Liquid temperature range:         -25 120 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         WEG           IE Efficiency class:         IE3           Rated power - P2:         15 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-415 V           Rated current:         29.1-27.3 A           Starting current:         830-830 %           Cos phi - power factor:         0.85/0.82	• •	N
Pumped liquid:         Water           Liquid temperature range:         -25 120 °C           Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         WEG           IE Efficiency class:         IE3           Rated power - P2:         15 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-415 V           Rated current:         29.1-27.3 A           Starting current:         830-830 %           Cos phi - power factor:         0.85/0.82		F2
Liquid temperature range:       -25 120 °C         Selected liquid temperature:       20 °C         Density:       998.2 kg/m³         Electrical data:       WEG         IE Efficiency class:       IE3         Rated power - P2:       15 kW         Mains frequency:       50 Hz         Rated voltage:       3 x 380-415 V         Rated current:       29.1-27.3 A         Starting current:       830-830 %         Cos phi - power factor:       0.85/0.82		
Selected liquid temperature:         20 °C           Density:         998.2 kg/m³           Electrical data:         WEG           IE Efficiency class:         IE3           Rated power - P2:         15 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-415 V           Rated current:         29.1-27.3 A           Starting current:         830-830 %           Cos phi - power factor:         0.85/0.82	Pumped liquid:	
Density:         998.2 kg/m³           Electrical data:         WEG           Motor type:         WEG           IE Efficiency class:         IE3           Rated power - P2:         15 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-415 V           Rated current:         29.1-27.3 A           Starting current:         830-830 %           Cos phi - power factor:         0.85/0.82		
Electrical data:           Motor type:         WEG           IE Efficiency class:         IE3           Rated power - P2:         15 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-415 V           Rated current:         29.1-27.3 A           Starting current:         830-830 %           Cos phi - power factor:         0.85/0.82	Selected liquid temperature:	
Motor type:         WEG           IE Efficiency class:         IE3           Rated power - P2:         15 kW           Mains frequency:         50 Hz           Rated voltage:         3 x 380-415 V           Rated current:         29.1-27.3 A           Starting current:         830-830 %           Cos phi - power factor:         0.85/0.82		998.2 kg/m³
IE Efficiency class:       IE3         Rated power - P2:       15 kW         Mains frequency:       50 Hz         Rated voltage:       3 x 380-415 V         Rated current:       29.1-27.3 A         Starting current:       830-830 %         Cos phi - power factor:       0.85/0.82		
Rated power - P2:       15 kW         Mains frequency:       50 Hz         Rated voltage:       3 x 380-415 V         Rated current:       29.1-27.3 A         Starting current:       830-830 %         Cos phi - power factor:       0.85/0.82	, ·	
Mains frequency:       50 Hz         Rated voltage:       3 x 380-415 V         Rated current:       29.1-27.3 A         Starting current:       830-830 %         Cos phi - power factor:       0.85/0.82		
Rated voltage:       3 x 380-415 V         Rated current:       29.1-27.3 A         Starting current:       830-830 %         Cos phi - power factor:       0.85/0.82		
Rated current: 29.1-27.3 A Starting current: 830-830 % Cos phi - power factor: 0.85/0.82		
Starting current: 830-830 % Cos phi - power factor: 0.85/0.82	Rated voltage:	3 x 380-415 V
Cos phi - power factor: 0.85/0.82		29.1-27.3 A
	_	830-830 %
Rated speed: 2940/2940 rpm		
	Rated speed:	2940/2940 rpm





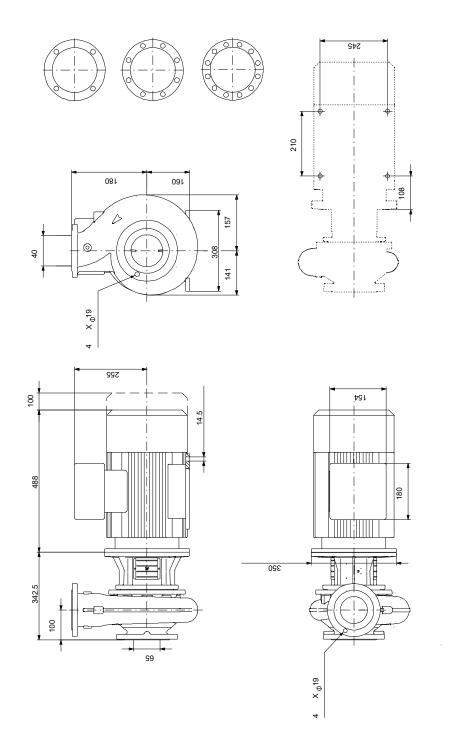
**Date:** 27/04/2021

Description	Value
Efficiency:	IE3 92.2%
Motor efficiency at full load:	92.2-92.2 %
Motor efficiency at 3/4 load:	92.0-92.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	99174340
Mount. design. acc. IEC 34-7:	IM B35
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.65
Net weight:	150 kg
Gross weight:	175 kg
Shipping volume:	0.707 m³
Country of origin:	CN
Custom tariff no.:	8413709062



27/04/2021 Date:

## 99803699 NB 40-200/219 AF2BBQQE 50 Hz



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



**Date:** 27/04/2021

**Order Data:** 

Product name: NB 40-200/219

Amount: 1

Product No: 99803699

Price:

Total: Price on request



**Date:** 27/04/2021

