

Created by: Phone:

Date: 15/08/2022

Qty. | Description

1 NBE 50-160/131 AAF2AESBQQEEWA



Note! Product picture may differ from actual product

Product No.: 98689527

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, permanent-magnet synchronous motor.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

An external sensor can be connected if controlled pump operation is required for flow, differential pressure or temperature control.

The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.

The display gives an intuitive and user-friendly interface to all functions.

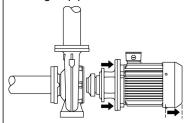
The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".

The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is also possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

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



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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.

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.

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 IE5 in accordance with IEC 60034-30-2.

The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

The terminal box holds terminals for these connections:

- one dedicated digital input
- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one configurable digital input or open-collector output
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

Further product details

Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

Technical data

Controls:

Frequency converter: Built-in 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: 1450 rpm

Rated flow: 31.8 m³/h Rated head: 4.8 m



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1 Actual impeller diameter: 131 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:

Range of ambient temperature: -20 .. 50 °C Maximum operating pressure: 16 bar EN 1092-2 Pipe connection standard: Size of inlet connection: **DN 65** Size of outlet connection: **DN 50** Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Ν

Electrical data:

IE Efficiency class:IE5Rated power - P2:0.55 kWMains frequency:50 HzRated voltage:3 x 380-50

Rated voltage: 3 x 380-500 V
Rated current: 1.30-1.25 A
Cos phi - power factor: 0.80-0.64
Rated speed: 180-2000 rpm
Efficiency: 84.6%

Motor efficiency at full load: 84.6 % Number of poles: 4
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 99305806

Bearing insulation type N-end: STEEL BEARING

Others:

Minimum efficiency index, MEI ≥: 0.70

Net weight: 42 kg

Gross weight: 53 kg

Shipping volume: 0.134 m³

Danish VVS No.: 386102161

Country of origin: HU

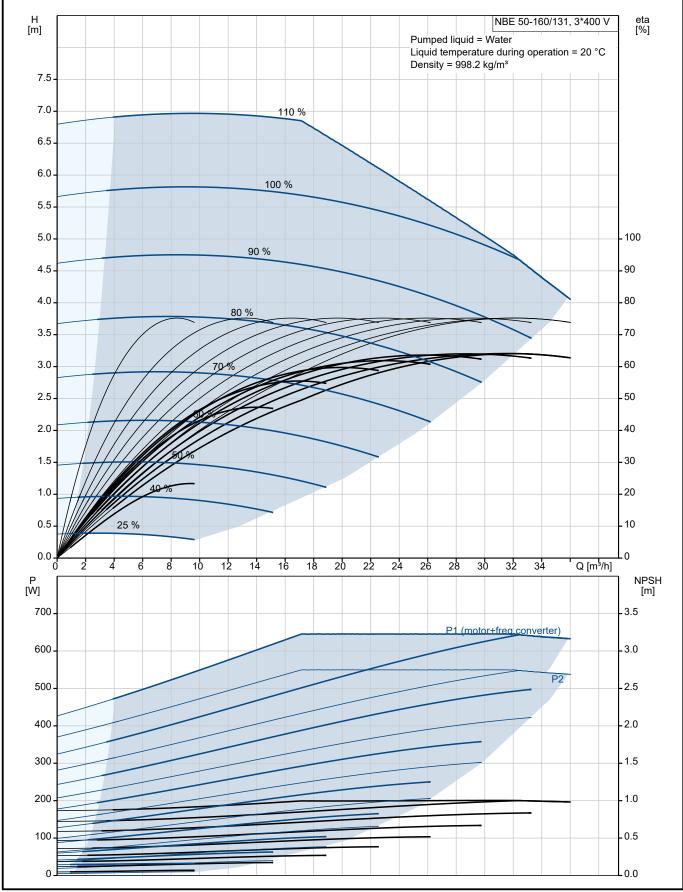
Custom tariff no.: 84137051



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98689527 NBE 50-160/131 AAF2AESBQQEEWA 50 Hz

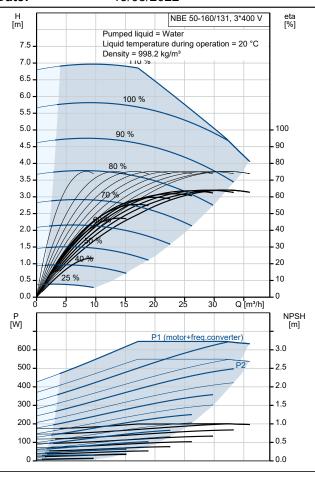


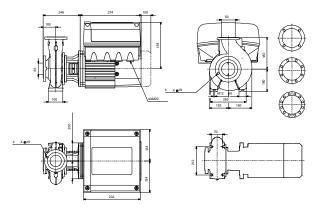


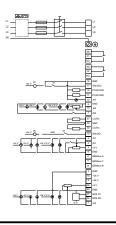
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Description Value General Information: NBE 50-160/131 AAFZAESBQQEEWA Product name: NBE 50-160/131 AAFZAESBQQEEWA Product No: 98689527 EAN number: 5711499680462 Technical: 1450 rpm Pump speed on which pump data are based: 4.8 m Actual impeller diameter: 131 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: Vump housing: Pump housing: Cast iron 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:		
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Wear ring:BrassImpeller:Cast ironImpeller:EN-GJL-200Impeller:ASTM class 30Internal pump house coating:CEDMaterial code:ACode for rubber:EShaft:Stainless steelShaft:EN 1.4301Shaft:EN 1.4301Shaft:AISI 304Installation:EN 10304Range of ambient temperature:-20 50 °CMaximum operating pressure:16 barPipe connection standard:EN 1092-2Size of inlet connection:DN 65Size of outlet connection:DN 50Pressure rating for connection:PN 16Bearing lubrication:GreasePump housing with feet:YesSupport block (Yes/No):NConnect code:F2Liquid:WaterPumped liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:IE5Rated power - P2:0.55 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated voltage:3 x 380-500 VRated speed:1.30-1.25 ACos phi - power factor:0.80-0.64Rated speed:180-2000 rpmEfficiency:84.6%Motor efficiency at full load:84.6%		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: BN 1.4301 Shaft: AISI 304 Installation: Range of ambient temperature: -20 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 50 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: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %	Pump housing:	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: Range of ambient temperature: -20 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 50 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: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %	Impeller:	Cast iron
Internal pump house coating: Material code: Code for rubber: Shaft: Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation: Range of ambient temperature: Pipe connection standard: Size of inlet connection: PN 65 Size of outlet connection: PN 16 Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature: 20 °C Density: Selected liquid temperature: 20 °C Density: Bearing leficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated speed: Efficiency: Motor efficiency at full load: Mains frequency: Rated speed: Efficiency: Motor efficiency at full load: Mains frequency: 84.6% Motor efficiency at full load: Mains frequency: 84.6% Motor efficiency at full load: Mains frequency: Mains frequency: Rated Speed: Efficiency: Motor efficiency at full load: Mains frequency: Mains frequency: Mains frequency: Mater Liquid load: Mater Liquid load: Mater Liquid: Mate	Impeller:	EN-GJL-200
Material code: Code for rubber: Shaft: Shaft: Shaft: Shaft: Shaft: Shaft: Shaft: Shaft: Shaft: AISI 304 Installation: Range of ambient temperature: Pipe connection standard: Size of inlet connection: Pipe connection: DN 65 Size of outlet connection: DN 50 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: 20 °C Density: 998.2 kg/m³ Electrical data: IE Efficiency class: Rated power - P2: Nater outside size of the same of the same outside size of th	Impeller:	ASTM class 30
Code for rubber: Shaft: Shaft	Internal pump house coating:	CED
Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation: Range of ambient temperature: -20 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 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: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %	Material code:	A
Shaft: EN 1.4301 Shaft: AISI 304 Installation: Range of ambient temperature: -20 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 50 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: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %	Code for rubber:	E
Shaft: AISI 304 Installation: Range of ambient temperature: -20 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 50 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: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %	Shaft:	Stainless steel
Installation: Range of ambient temperature: -20 50 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 65 Size of outlet connection: DN 50 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: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %	Shaft:	EN 1.4301
Range of ambient temperature: Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 65 Size of outlet connection: Pressure rating for connection: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pestimate yes Rated power - P2: Mains frequency: Rated voltage: Rated speed: Efficiency at full load: Mains freduency at full load:	=	AISI 304
Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 65 Size of outlet connection: DN 50 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: Density: Density: Density: PSECTICAL data: IE Efficiency class: Rated power - P2: Mains frequency: Saled voltage: Rated voltage: Rated voltage: Rated speed: Rated speed: Higher Alexandra Standard Bearing lubrication: DN 50 PN 16 Bearing lubrication: PN 16 Bearing lubrication: PV 16 Bearing lubrication: PV 26 Seleste Support block (Yes/No): N Vater Ves Support block (Yes/No): N Vater Support block (Yes/No): N		
Pipe connection standard: Size of inlet connection: DN 65 Size of outlet connection: DN 50 Pressure rating for connection: PN 16 Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Uater Liquid temperature range: Selected liquid temperature: Density: Pessure rating for connection: PN 16 Bearing lubrication: N Connect code: F2 Liquid: Pumped liquid: Uater Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: IE Efficiency class: Rated power - P2: Mains frequency: So Hz Rated voltage: Rated voltage: Rated current: Cos phi - power factor: 0.80-0.64 Rated speed: H80-2000 rpm Efficiency: Motor efficiency at full load: 84.6%		
Size of inlet connection: Size of outlet connection: DN 50 Pressure rating for 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: Density: Pessor Selectrical data: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: BN 50 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: IE 5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: H80-2000 rpm Efficiency: Motor efficiency at full load: 84.6%		16 bar
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: Pessor Selectrical data: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated speed: Efficiency: A 3 x 380-500 V Rated speed: B 4.6% Motor efficiency at full load: B Yes Yes No Serease Yes Yes Selected Yes Yes Yes No No No No No No No No No N	·	
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: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Efficiency at full load: N Grease PN 16 Grease PN 16 Brease Grease Yes Sease Pass N N Cos Pass A 20 °C Density: 998.2 kg/m³ Ele5 Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 84.6% Motor efficiency at full load: 84.6%	Size of inlet connection:	
Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pess Selected liquid temperature: Density: Belectrical data: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Efficiency: Motor efficiency at full load: Residual Services Yes Yes No. No. No. No. No. No. No. No	Size of outlet connection:	DN 50
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: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %	_	PN 16
Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pumped liquid temperature: 10°C Selected liquid temperature: 998.2 kg/m³ Electrical data: IE Efficiency class: Rated power - P2: Mains frequency: Fated voltage: Rated voltage: Rated current: 1.30-1.25 A Cos phi - power factor: Cos phi - power factor: 84.6% Motor efficiency at full load: 84.6%	<u> </u>	
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Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated voltage: Rated current: Cos phi - power factor: Efficiency: Motor efficiency at full load: Water User 1.20 °C 20		
Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		F2
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Density: 998.2 kg/m³ Electrical data: IE Efficiency class: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		
Electrical data: IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		 -
IE Efficiency class: IE5 Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		998.2 kg/m³
Rated power - P2: 0.55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		<u> </u>
Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		
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Rated current: 1.30-1.25 A Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		
Cos phi - power factor: 0.80-0.64 Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		
Rated speed: 180-2000 rpm Efficiency: 84.6% Motor efficiency at full load: 84.6 %		
Efficiency: 84.6% Motor efficiency at full load: 84.6 %		0.80-0.64
Motor efficiency at full load: 84.6 %	·	180-2000 rpm
·		84.6%
Number of poles: 4	-	
	Number of poles:	4









Created by: Phone:

Date: 15/08/2022

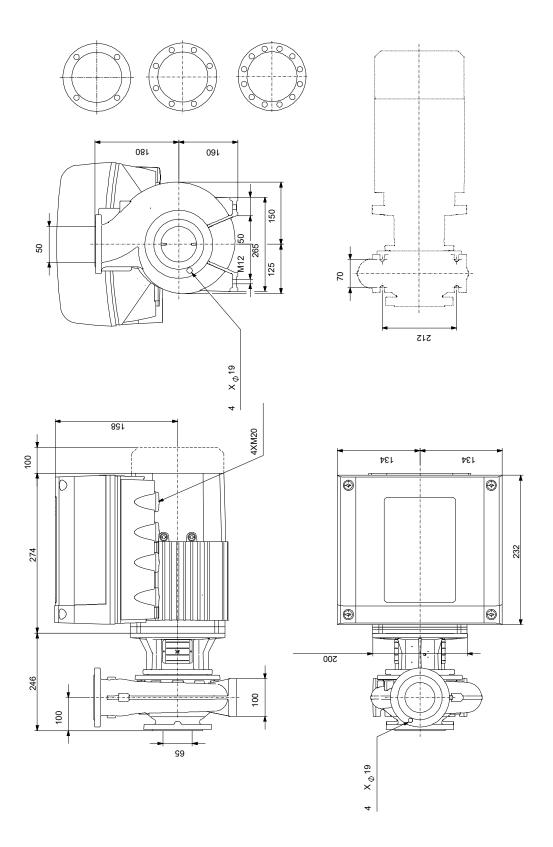
Description	Value
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	ELEC
Motor No:	99305806
Mount. design. acc. IEC 34-7:	IM V1/B5
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	42 kg
Gross weight:	53 kg
Shipping volume:	0.134 m³
Danish VVS No.:	386102161
Country of origin:	HU
Custom tariff no.:	84137051



Created by: Phone:

15/08/2022 Date:

98689527 NBE 50-160/131 AAF2AESBQQEEWA 50 Hz



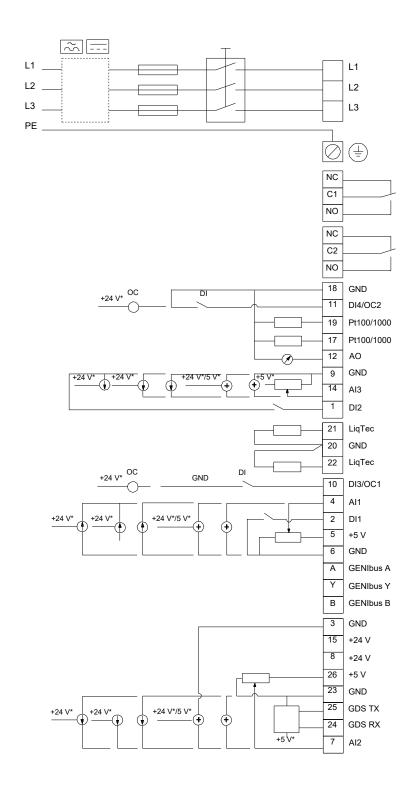
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Created by: Phone:

Date: 15/08/2022

98689527 NBE 50-160/131 AAF2AESBQQEEWA 50 Hz



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



Created by: Phone:

Date: 15/08/2022

Order Data:

Position	Your pos.	Product name		Product No	Total
	-	NBE 50-160/131	1	98689527	Price on
					request
	1		l		