

Created by: Phone:

Date: 15/08/2022

Qty. | Description

NB 50-125/112 AAF2AESBQQEDW3



Product No.: 98947926

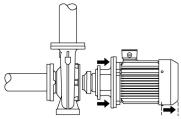
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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.

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 IE2 in accordance with IEC 60034-30.



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The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

Further product details

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

Technical data

Controls:

Frequency converter: NONE Pressure sensor: N

Liquid:

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

Technical:

Pump speed on which pump data are based: 1400 rpm

Rated flow: 28.29 m³/h
Rated head: 2.797 m
Actual impeller diameter: 112 mm
Nominal impeller diameter: 125
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:

t max amb: 40 °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): Ν

Electrical data:



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Motor type: 71B
IE Efficiency class: IE2
Rated power - P2: 0.37 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A

 Starting current:
 390-430 %

 Cos phi - power factor:
 0.78-0.69

 Rated speed:
 1390-1410 rpm

 Efficiency:
 IE2 72,8% - IE2 73,1%

Motor efficiency at full load: 72.8-73.1 % Motor efficiency at 3/4 load: 75.6 % Motor efficiency at 1/2 load: 73.8 % Number of poles: 4

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

Insulation class (IEC 85): F

Motor No: 99957665

Bearing insulation type N-end: STEEL BEARING

Others:

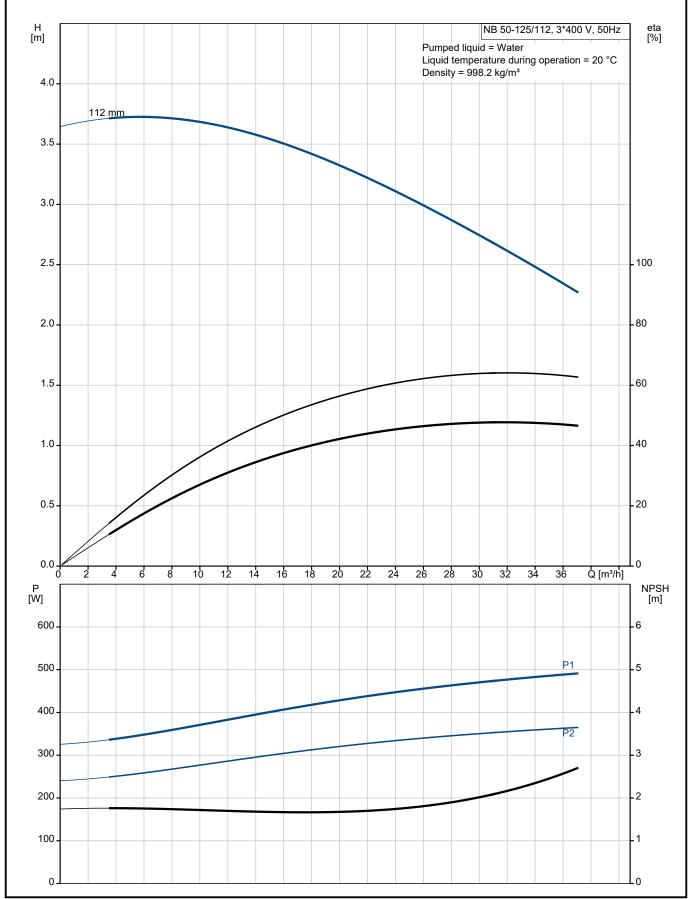
Custom tariff no.: 84137051



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98947926 NB 50-125/112 AAF2AESBQQEDW3 50 Hz

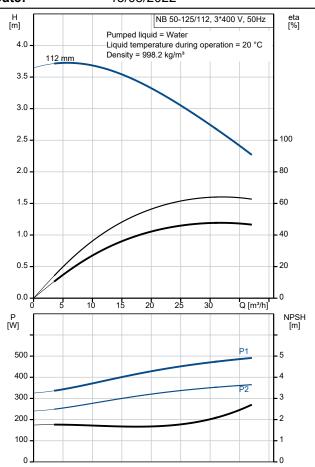


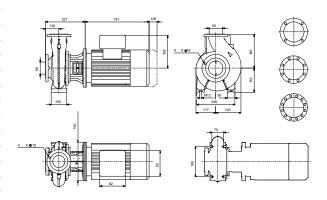


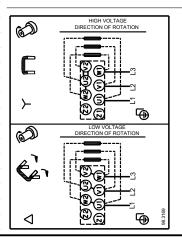
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Description Value General Information: NB 50-125/112 AAF2AESBQQEDW3 Product name: NB 50-125/112 AAF2AESBQQEDW3 Product No: 98947926 EAN number: 5712604065648 Technical: 1400 rpm Pump speed on which pump data are based: 1400 rpm Rated flow: 28.29 m³/h Rated head: 2.797 m Actual impeller diameter: 112 mm Nominal impeller diameter: 125 Shaft seal arrangement: Single Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: IS09906:2012 3B2 Pump version: A Bearing design: Standard Materials: *** Pump housing: Cast iron Impeller: Cast iron Impeller:				
Product No: 98947926 EAN number: 5712604065648 Technical: Pump speed on which pump data are based: 1400 rpm speed on which pump data are based: 2.797 m Actual impeller diameter: 112 mm Nominal impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Impeller: Cast iron Impeller: Cast iron Impeller: Cast iron Impeller: Cast iron Impeller: B-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: AISI 304 Installation: Imax amb: 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Size of outlet connection: DN 65 Pressure rating for connection: DN 65 Size of outlet connection: DN 66 Size o	Description	Value		
Product No: 98947926 EAN number: 5712604065648 Technical: Pump speed on which pump data are based: Rated flow: 28.29 m³/h Rated head: 2.797 m Actual impeller diameter: 112 mm Nominal impeller diameter: 125 Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9906:2012 3B2 Pump version: A Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Impeller: Cast iron Impeller: BN-GJL-200 Impeller: CAST M class 35 Wear ring: Brass Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: EN-GJL-300 Installation: EN 1.4301 Shaft: Stainless steel Shaft: Stainless steel Shaft: Stainless steel Shaft: IS 1.4301 Shaft: IN 1.4301 Shaft				
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Shaft seal arrangement: Single Shaft diameter: 24 mm Code for shaft seal: BQQE Curve tolerance: ISO9996:2012 3B2 Pump version: A Bearing design: Standard Materials: Standard 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: AIS13 304 Installation: Internal pump housing pressure: In bar In 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	· ·	112 mm		
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Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass 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: EN 1.4301 Shaft: AISI 304 Installation: Installation: I max amb: 40 °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: Water Pumped liquid: Water Liquid temperature range: -25 120 °C				
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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: Imax amb: Imax amb: 40 °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: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: <td< td=""><td>Pump housing:</td><td>EN-GJL-250</td></td<>	Pump housing:	EN-GJL-250		
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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: 40 °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: Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	Impeller:	Cast iron		
Internal pump house coating: Material code: A Code for rubber: Shaft: Shaft: Shaft: Shaft: AISI 304 Installation: I max amb: Maximum operating pressure: Pipe connection standard: Size of inlet connection: DN 65 Size of outlet 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: CED A A COE Maximum operating for 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: Motor type: T1B IE Efficiency class: Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	Impeller:	EN-GJL-200		
Material code: Code for rubber: EShaft: Stainless steel Shaft: Shaft: Shaft: Shaft: Shaft: Shaft: AISI 304 Installation: I max amb: 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: Water Liquid temperature range: Selected liquid temperature: Density: Pesterical data: Motor type: T1B IE Efficiency class: Rated power - P2: Nater voltage: Rated voltage: Rated voltage: Rated current: 1,80-1,83/1,04-1,06 A Starting current: Cos phi - power factor: Rated speed: 1390-1410 rpm	Impeller:	ASTM class 30		
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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: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Petical data: Motor type: Rated power - P2: Rated voltage: Rated current: Size of inlet connection: DN 50 PN 16 Bearing lubrication: PN 16 Bearing lubrication: Ves Support block (Yes/No): N Connect code: F2 Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed:	t max amb:	40 °C		
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: Pumped liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Poessity: Bile Efficiency class: Rated power - P2: Rated voltage: Rated current: Starting current: Cos phi - power factor: DN 50 DN 150 Water Yes Yes Selex Yes Yes Yes Than 120 °C Selex Noter C Page 20 °C Page 30 °	Maximum operating pressure:	16 bar		
Size of outlet connection: Pressure rating for connection: Pressure rating for connection: Bearing lubrication: Grease Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Uniquid temperature range: Selected liquid temperature: Density: Density: Selectrical data: Motor type: F2 Rated power - P2: Rated voltage: Rated current: Starting current: Size of outlet connection: PN 16 Water F2 Liquid: Vater F2 F2 F2 F2 F3 F4 F5 F5 F5 F5 F5 F5 F5 F5 F5	Pipe connection standard:	EN 1092-2		
Pressure rating for connection: Bearing lubrication: Grease Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pelectrical data: Motor type: F1 F2 Rated power - P2: Nains frequency: Rated voltage: Rated current: Starting current: Starting current: Starting current: Support block (Yes/No): Nains frequency: Pressure rating for connection: Starting current: Support block (Yes/No): Nains frequency: Pressure rating for connection: Nains frequency: Support block (Yes/No): Nains frequency: Support block (Yes/				
Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: F2 Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Pelectrical data: Motor type: IE Efficiency class: Rated power - P2: Nains frequency: Rated voltage: Rated current: Starting current: Support No. Support No		DN 50		
Pump housing with feet: Yes Support block (Yes/No): N Connect code: F2 Liquid: Water Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm		PN 16		
Support block (Yes/No): N Connect code: F2 Liquid: Water Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	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: Motor type: Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	-	Yes		
Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: T1B Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	, , ,	N		
Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm		F2		
Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	•			
Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: 71B Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	Pumped liquid:	Water		
Density: 998.2 kg/m³ Electrical data: 71B Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm				
Electrical data: Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm				
Motor type: 71B IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm		998.2 kg/m³		
IE Efficiency class: IE2 Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	Electrical data:			
Rated power - P2: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	3.			
Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	-			
Rated voltage: 3 x 220-240D/380-415Y V Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm				
Rated current: 1,80-1,83/1,04-1,06 A Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm				
Starting current: 390-430 % Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm	-			
Cos phi - power factor: 0.78-0.69 Rated speed: 1390-1410 rpm		1,80-1,83/1,04-1,06 A		
Rated speed: 1390-1410 rpm	_			
·				
Efficiency: IE2 72,8% - IE2 73,1%	•	•		
	Efficiency:	IE2 72,8% - IE2 73,1%		









Created by: Phone:

Date: 15/08/2022

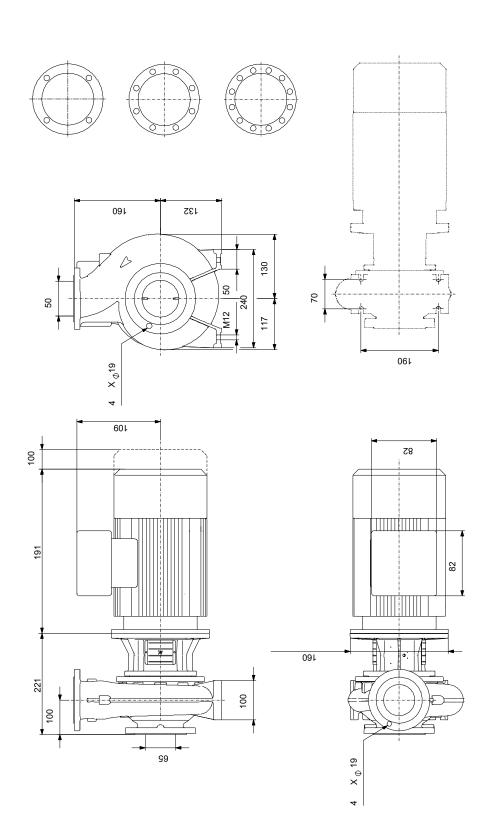
Description	Value
Motor efficiency at full load:	72.8-73.1 %
Motor efficiency at 3/4 load:	75.6 %
Motor efficiency at 1/2 load:	73.8 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Motor No:	99957665
Mount. design. acc. IEC 34-7:	IM V1/B5
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.64
Net weight:	35 kg
Gross weight:	45 kg
Shipping volume:	0.134 m³
Danish VVS No.:	386062127
Country of origin:	HU
Custom tariff no.:	84137051



Created by: Phone:

15/08/2022 Date:

98947926 NB 50-125/112 AAF2AESBQQEDW3 50 Hz



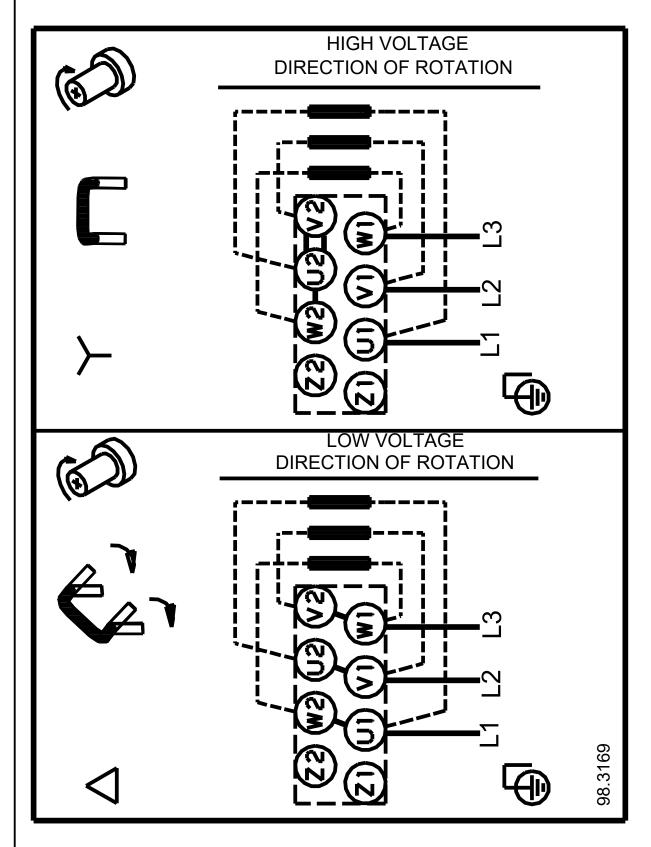
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Created by: Phone:

Date: 15/08/2022

98947926 NB 50-125/112 AAF2AESBQQEDW3 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
		NB 50-125/112	1		Price on
					request