

Date: 22/12/2022

Qty. | Description

1 NB 125-500/524 AASF2AESBQQESW5



Product No.: 98975873

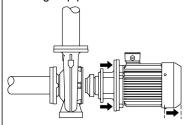
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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

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

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

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



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

Pump

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

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

Seal faces:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

The pump housing has feet.

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

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

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



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

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.

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: 985 rpm

Rated flow: 223.4 m³/h
Rated head: 37.53 m
Actual impeller diameter: 524 mm
Nominal impeller diameter: 500
Shaft seal arrangement: Single
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B

Bearing design: Standard

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Wear ring: Brass
Impeller: Cast iron

EN-GJL-200 ASTM class 30

Internal pump house coating: CED

Shaft: Stainless steel

EN 1.4301 AISI 304

Installation:

55 °C Max. ambient temperature: Maximum operating pressure: 16 bar EN 1092-2 Pipe connection standard: Size of inlet connection: **DN 150** Size of outlet connection: DN 125 Pressure rating for connection: PN 16 Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Υ



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Qty. Description

Electrical data:

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

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

Rated current: 67.0/39.0 A Starting current: 700-700 % Cos phi - power factor: 0.85 Rated speed: 985 rpm Efficiency: IE3 93,3% Motor efficiency at full load: 93.3-93.3 % Motor efficiency at 3/4 load: 94.0-94.0 % Motor efficiency at 1/2 load: 94.0-94.0 %

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

Motor No: 83W15434 Bearing insulation type N-end: STEEL BEARING

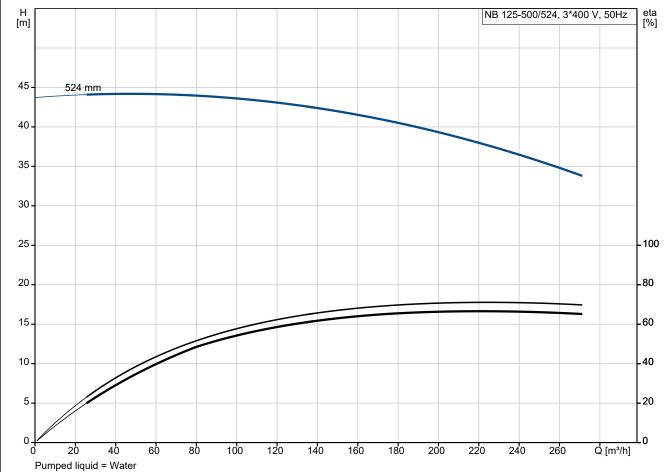
Minimum efficiency index, MEI ≥: 0.50 Net weight: 911 kg Gross weight: 958 kg Shipping volume: 1.44 m³ 386066508 Danish VVS No.: Country of origin: HU

Custom tariff no .: 84137051

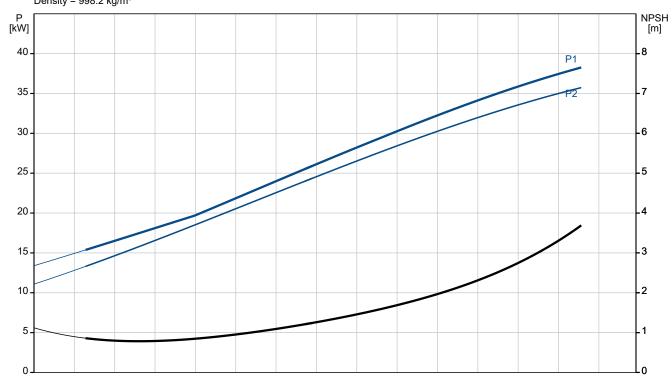


Date: 22/12/2022

98975873 NB 125-500/524 AASF2AESBQQESW5 50 Hz



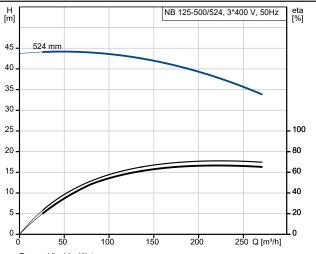
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³



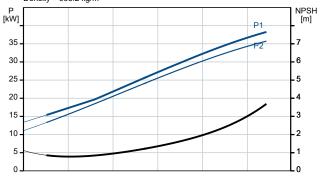


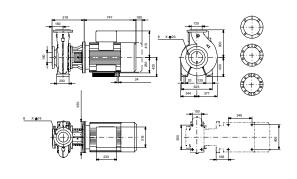
22/12/2022 Date:

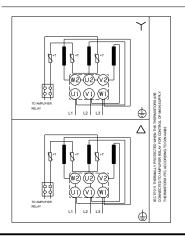
Description	Value		
General information:			
Product name:	NB 125-500/524 AASF2AESBQQESW5		
Product No:	98975873		
EAN number:	5712604551042		
Technical:			
Pump speed on which pump data are based:	985 rpm		
Rated flow:	223.4 m³/h		
Rated head:	37.53 m		
Actual impeller diameter:	524 mm		
Nominal impeller diameter:	500		
Shaft seal arrangement:	Single		
Shaft diameter:	60 mm		
Code for shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B		
Pump version:	AS		
Bearing design:	Standard		
Materials:			
Pump housing:	Cast iron		
Pump housing:	EN-GJL-250		
Pump housing:	ASTM class 35		
Wear ring:	Brass		
Impeller:	Cast iron		
Impeller:	EN-GJL-200		
Impeller:	ASTM class 30		
Internal pump house coating:	CED		
Material code:	A		
Code for rubber:	Е		
Shaft:	Stainless steel		
Shaft:	EN 1.4301		
Shaft:	AISI 304		
Installation:			
Max. ambient temperature:	55 °C		
Maximum operating pressure:	16 bar		
Maximum operating pressure: Pipe connection standard:	EN 1092-2		
Pipe connection standard: Size of inlet connection:	EN 1092-2 DN 150		
Pipe connection standard: Size of inlet connection: Size of outlet connection:	EN 1092-2		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection:	EN 1092-2 DN 150		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication:	EN 1092-2 DN 150 DN 125		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No):	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: IE Efficiency class:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³ SIEMENS IE3		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: IE Efficiency class: Rated power - P2:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³ SIEMENS IE3 37 kW		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³ SIEMENS IE3 37 kW 50 Hz		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³ SIEMENS IE3 37 kW 50 Hz 3 x 380-420D/660-725Y V		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³ SIEMENS IE3 37 kW 50 Hz 3 x 380-420D/660-725Y V 67.0/39.0 A		
Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Starting current:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³ SIEMENS IE3 37 kW 50 Hz 3 x 380-420D/660-725Y V 67.0/39.0 A 700-700 %		
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Pipe connection standard: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet: Support block (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Starting current:	EN 1092-2 DN 150 DN 125 PN 16 Grease Yes Y F2 Water -25 120 °C 20 °C 998.2 kg/m³ SIEMENS IE3 37 kW 50 Hz 3 x 380-420D/660-725Y V 67.0/39.0 A 700-700 %		



Pumped liquid = Water Liquid temperature during operation = 20 $^{\circ}$ C Density = 998.2 kg/m³









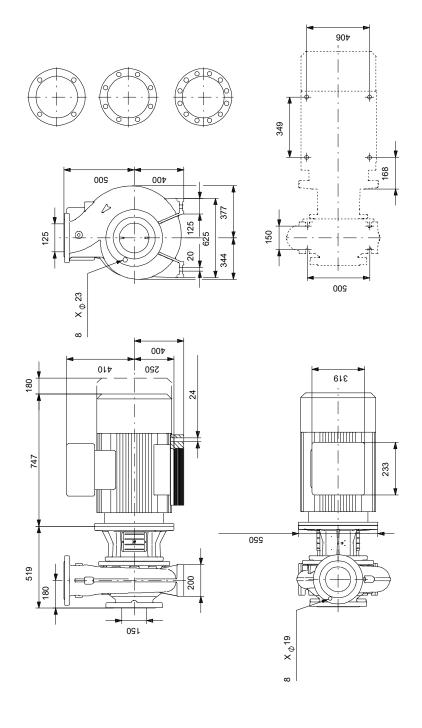
Date: 22/12/2022

DescriptionValueMotor efficiency at full load:93.3-93.3 %Motor efficiency at 3/4 load:94.0-94.0 %Motor efficiency at 1/2 load:94.0-94.0 %Number of poles:6Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:PTCMotor No:83W15434Mount. design. acc. IEC 34-7:IM B35Bearing insulation type N-end:STEEL BEARINGControls:
Motor efficiency at 3/4 load: 94.0-94.0 % Motor efficiency at 1/2 load: 94.0-94.0 % Number of poles: 6 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: PTC Motor No: 83W15434 Mount. design. acc. IEC 34-7: IM B35 Bearing insulation type N-end: STEEL BEARING
Motor efficiency at 1/2 load: 94.0-94.0 % Number of poles: 6 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: PTC Motor No: 83W15434 Mount. design. acc. IEC 34-7: IM B35 Bearing insulation type N-end: STEEL BEARING
Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in motor protection: Motor No: Mount. design. acc. IEC 34-7: Bearing insulation type N-end: STEEL BEARING
Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: PTC Motor No: 83W15434 Mount. design. acc. IEC 34-7: IM B35 Bearing insulation type N-end: STEEL BEARING
Insulation class (IEC 85): Built-in motor protection: Motor No: Mount. design. acc. IEC 34-7: Bearing insulation type N-end: STEEL BEARING
Built-in motor protection: PTC Motor No: 83W15434 Mount. design. acc. IEC 34-7: IM B35 Bearing insulation type N-end: STEEL BEARING
Motor No: 83W15434 Mount. design. acc. IEC 34-7: IM B35 Bearing insulation type N-end: STEEL BEARING
Mount. design. acc. IEC 34-7: IM B35 Bearing insulation type N-end: STEEL BEARING
Bearing insulation type N-end: STEEL BEARING
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Controls:
Frequency converter: NONE
Pressure sensor: N
Others:
Minimum efficiency index, MEI ≥: 0.50
Net weight: 911 kg
Gross weight: 958 kg
Shipping volume: 1.44 m³
Danish VVS No.: 386066508
Country of origin: HU
Custom tariff no.: 84137051



22/12/2022 Date:

98975873 NB 125-500/524 AASF2AESBQQESW5 50 Hz



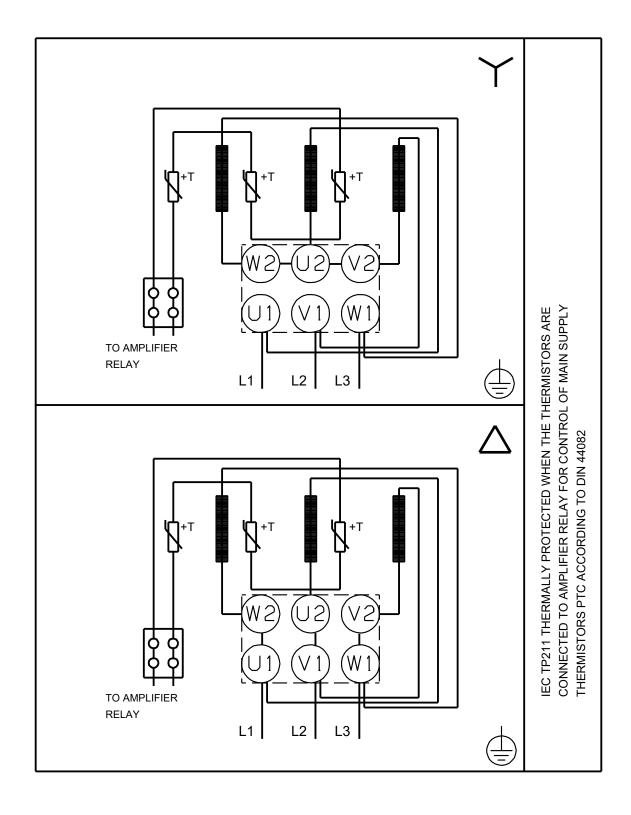
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

22/12/2022

98975873 NB 125-500/524 AASF2AESBQQESW5 50 Hz



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



Date: 22/12/2022

Order Data:

Position	Your pos.	Product name		Product No	Total
		NB 125-500/524	1	98975873	Price on request
	I	<u> </u>	I	l	