

Date: 30/12/2022

Qty. | Description

NB 100-250/236 BAF2AESBQQEJW5



Product No.: 98975594

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

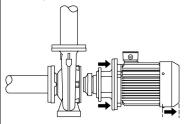
Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

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

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

The 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.

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.

Motor

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

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

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



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

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Further product details

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

Technical data

Controls:

Frequency converter: NONE Pressure sensor: N

Liquid:

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

Technical:

Pump speed on which pump data are based: 975 rpm

Rated flow: 106.4 m³/h
Rated head: 7.274 m
Actual impeller diameter: 236 mm
Nominal impeller diameter: 250
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:

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



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1 Electrical data:

Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 3 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 220-240D/380-420Y V

Rated current: 12.1/6.9 A Starting current: 660-660 % Cos phi - power factor: 0.73 Rated speed: 975 rpm Efficiency: IE3 85,6% Motor efficiency at full load: 85.6-85.6 % Motor efficiency at 3/4 load: 85.8-85.8 % Motor efficiency at 1/2 load: 84.3-84.3 %

Number of poles: 6
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 83W05210
Bearing insulation type N-end: STEEL BEARING

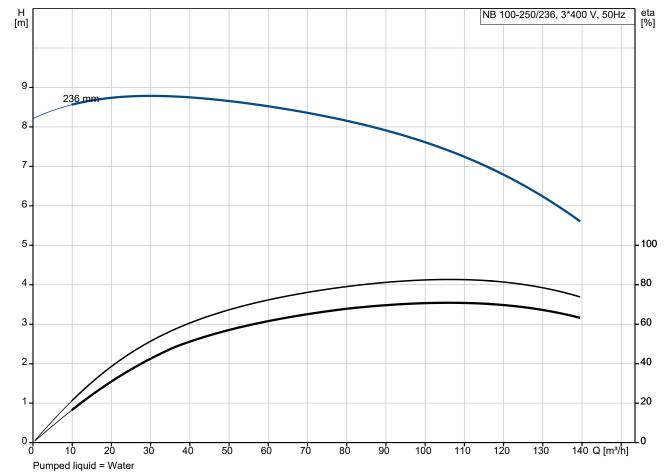
Others:

Minimum efficiency index, MEI \geq : 0.70 Net weight: 157 kg Gross weight: 178 kg Shipping volume: 0.509 m³ Danish VVS No.: 386065255

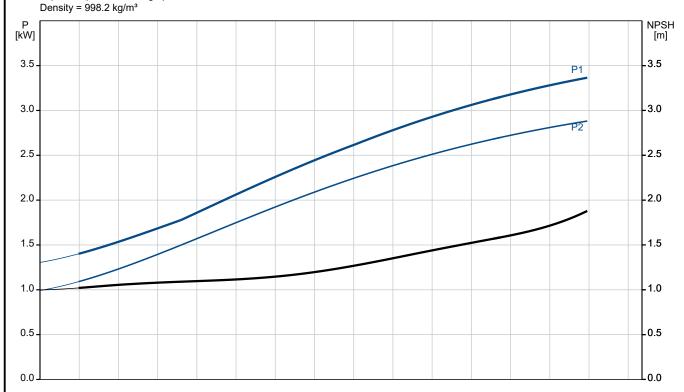


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98975594 NB 100-250/236 BAF2AESBQQEJW5 50 Hz



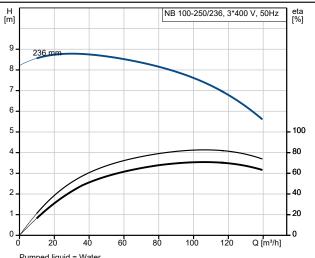
Pumped liquid = Water Liquid temperature during operation = 20 °C



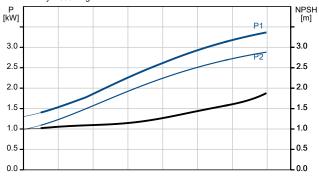


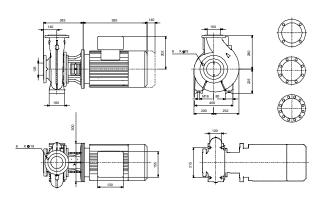
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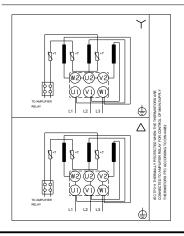
Description	Value	
Description General information:	Value	
Product name:	NB 100-250/236	
Product name.	BAF2AESBQQEJW5	
Product No:	98975594	
EAN number:	5712604545508	
Technical:		
Pump speed on which pump data are based:	975 rpm	
Rated flow:	106.4 m³/h	
Rated head:	7.274 m	
Actual impeller diameter:	236 mm	
Nominal impeller diameter:	250	
Shaft seal arrangement:	Single	
Shaft diameter:	32 mm	
Code for shaft seal:	BQQE	
Curve tolerance:	ISO9906:2012 3B2	
Pump version:	A	
Bearing design:	Standard	
Materials:	Continue	
Pump housing:	Cast iron EN-GJL-250	
Pump housing:		
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: Shaft:	E Stainless steel	
Shaft:	EN 1.4301	
Shaft:	AISI 304	
Installation:	AISI 304	
t max amb:	55 °C	
Maximum operating pressure:	16 bar	
Pipe connection standard:	EN 1092-2	
Size of inlet connection:	DN 125	
Size of outlet connection:	DN 100	
Pressure rating for connection:	PN 16	
Bearing lubrication:	Grease	
Pump housing with feet:	Yes	
Support block (Yes/No):	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:	<u> </u>	
Motor type:	SIEMENS	
IE Efficiency class:	IE3	
Rated power - P2:	3 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 220-240D/380-420Y V	
Rated current:	12.1/6.9 A	
Starting current:	660-660 %	
Cos phi - power factor:	0.73	
Rated speed:	975 rpm	
Efficiency:	IE3 85,6%	



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









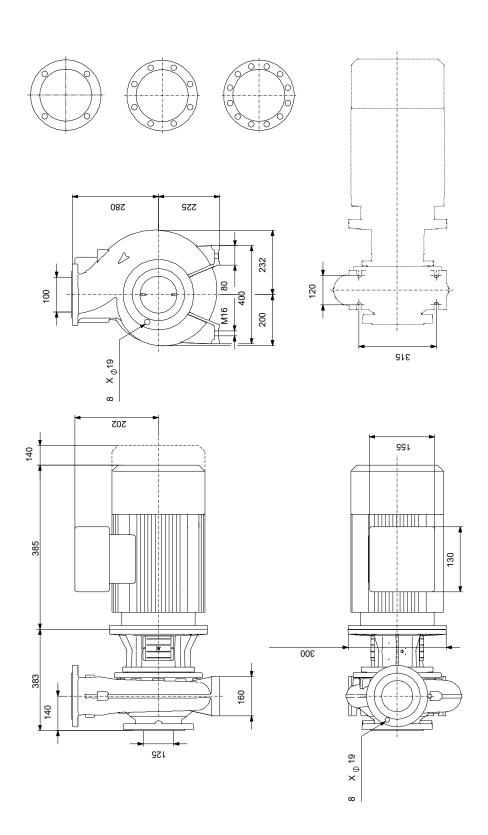
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Description	Value
Motor efficiency at full load:	85.6-85.6 %
Motor efficiency at 3/4 load:	85.8-85.8 %
Motor efficiency at 1/2 load:	84.3-84.3 %
Number of poles:	6
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	83W05210
Mount. design. acc. IEC 34-7:	IM B5
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	157 kg
Gross weight:	178 kg
Shipping volume:	0.509 m³
Danish VVS No.:	386065255



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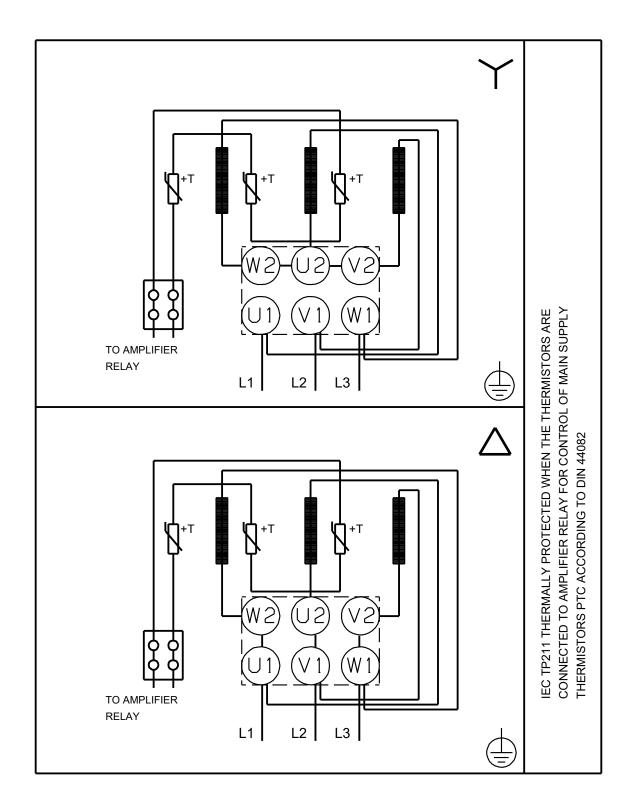


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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



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Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
_		NB 100-250/236	1	98975594	Price on request
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