

Created by: Phone:

Date: 15/08/2022

Qty. | Description

NB 65-200/189 AAF2AESBQQEIW3



Product No.: 98106878

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

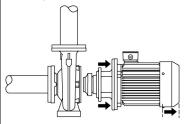
Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

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

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



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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 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).

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: 1465 rpm

Rated flow: 53.85 m³/h
Rated head: 10.41 m
Actual impeller diameter: 189 mm
Nominal impeller diameter: 200
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: 55 °C

Maximum operating pressure: 16 bar

Pipe connection standard: EN 1092-2

Size of inlet connection: DN 80

Size of outlet connection: DN 65

Pressure rating for connection: PN 16



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1 Bearing lubrication: Grease
Pump housing with feet: Yes
Support block (Yes/No): N

Electrical data:

Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 2.2 kW
Mains frequency: 50 Hz

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

Rated current: 7.7/4.4 A Starting current: 840-840 % Cos phi - power factor: 0.83 Rated speed: 1465 rpm Efficiency: IE3 86,7% Motor efficiency at full load: 86.7-86.7 % Motor efficiency at 3/4 load: 87-87 % Motor efficiency at 1/2 load: 85.9-85.9 %

Number of poles: 4
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 83V02208

Bearing insulation type N-end: N

Others:

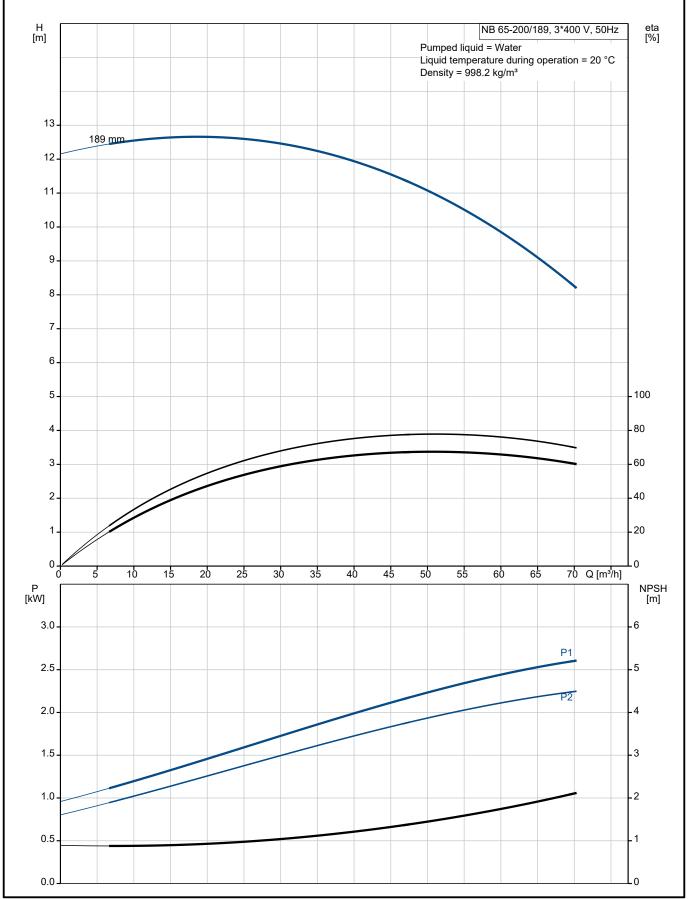
Minimum efficiency index, MEI \ge : 0.70
Net weight: 73 kg
Gross weight: 90 kg
Shipping volume: 0.315 m³
Danish VVS No.: 386063204
Country of origin: HU
Custom tariff no.: 84137051



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98106878 NB 65-200/189 AAF2AESBQQEIW3 50 Hz

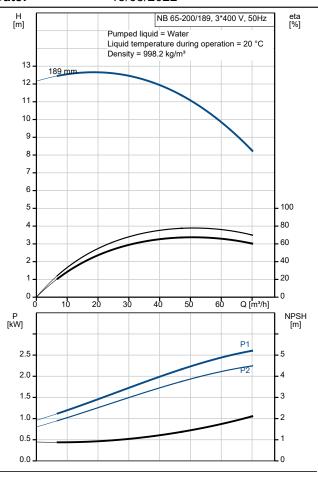


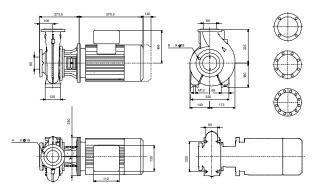


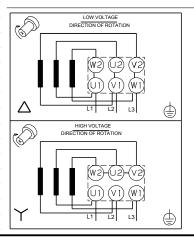
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Description Value General information: NB 65-200/189 Product name: AAF2AESBQQEIW3 Product No: 98106878 EAN number: 5710629156396 Technical:			
Product name: NB 65-200/189 AAF2AESBQQEIW3 Product No: 98106878 EAN number: 5710629156396			
AAF2AESBQQEIW3 Product No: 98106878 EAN number: 5710629156396			
EAN number: 5710629156396			
Tochnical:			
Pump speed on which pump data are 1465 rpm based:			
Rated flow: 53.85 m³/h			
Rated head: 10.41 m			
Actual impeller diameter: 189 mm			
Nominal impeller diameter: 200			
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: 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: Stainless steel			
Shaft: EN 1.4301			
Shaft: AISI 304			
Installation:			
t max amb: 55 °C			
Maximum operating pressure: 16 bar			
Pipe connection standard: EN 1092-2			
Size of inlet connection: DN 80			
Size of outlet connection: DN 65			
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: SIEMENS			
IE Efficiency class: IE3			
Rated power - P2: 2.2 kW			
Mains frequency: 50 Hz			
Rated voltage: 3 x 220-240D/380-420Y V			
Rated current: 7.7/4.4 A			
Starting current: 840-840 %			
Cos phi - power factor: 0.83			
Rated speed: 1465 rpm	•		
Efficiency: IE3 86,7%			









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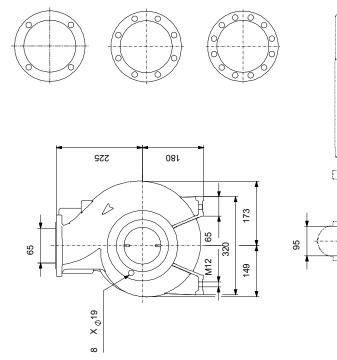
B	
Description	Value
Motor efficiency at full load:	86.7-86.7 %
Motor efficiency at 3/4 load:	87-87 %
Motor efficiency at 1/2 load:	85.9-85.9 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Motor No:	83V02208
Mount. design. acc. IEC 34-7:	IM V1
Bearing insulation type N-end:	N
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	73 kg
Gross weight:	90 kg
Shipping volume:	0.315 m³
Danish VVS No.:	386063204
Country of origin:	HU
Custom tariff no.:	84137051

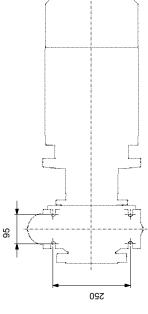


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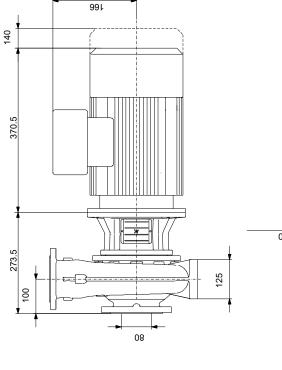
15/08/2022 Date:

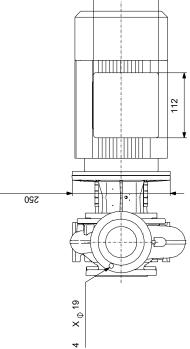
98106878 NB 65-200/189 AAF2AESBQQEIW3 50 Hz





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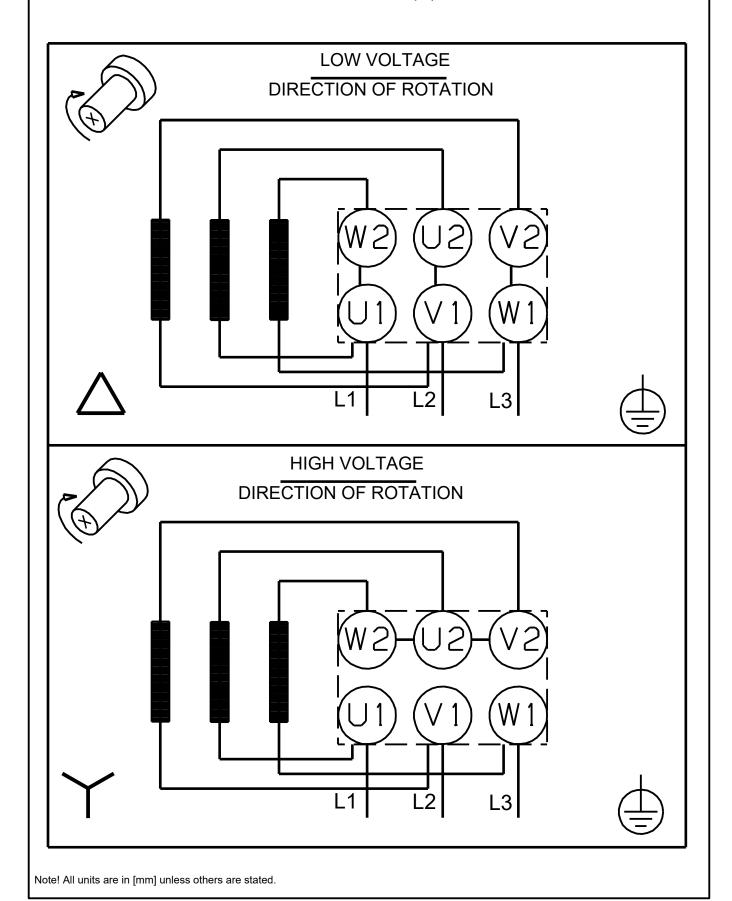
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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98106878 NB 65-200/189 AAF2AESBQQEIW3 50 Hz





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Order Data:

Position	Your pos.	Order Data Product name	Amount	Product No	Total
	Tour pos.		Amount 1		
		NB 65-200/189	l l	98106878	Price on request