

30/12/2022



Product No.: 98974772

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

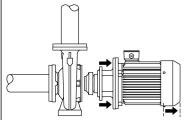
Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

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 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).

Date: 30/12/2022 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. 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

Further product details

Description

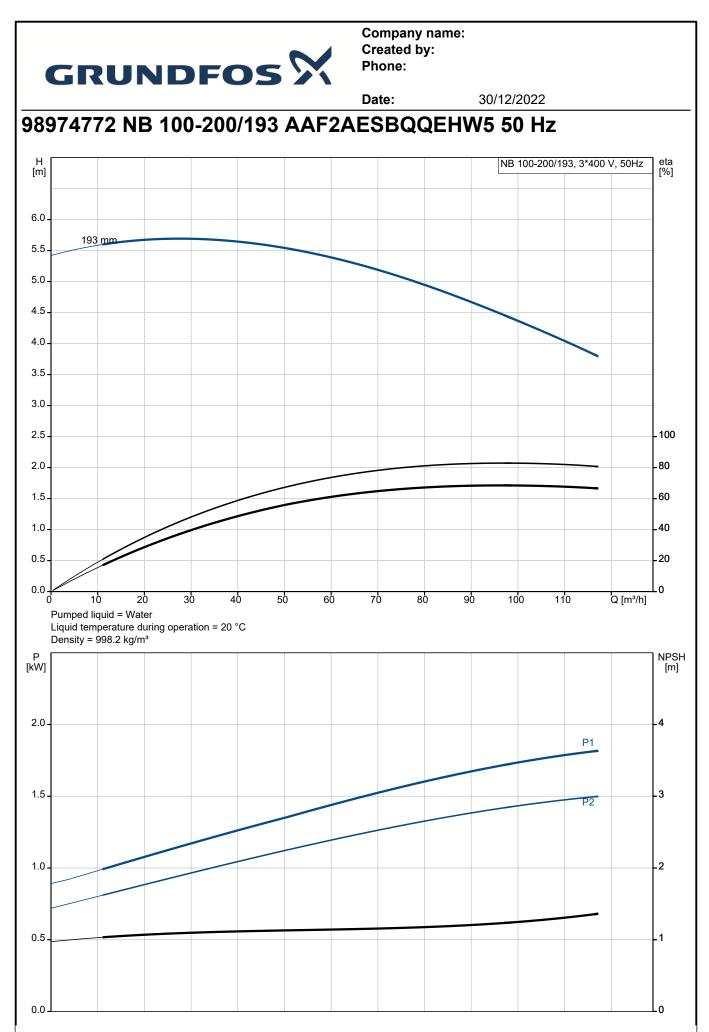
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Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Nominal impeller diameter: Shaft seal arrangement: Code for shaft seal: Curve tolerance: Bearing design:	are based: 970 rpm 94.5 m³/h 4.5 m 193 mm 200 Single BQQE ISO9906:2012 3B2 Standard
Materials: Pump housing: Wear ring:	Cast iron EN-GJL-250 ASTM class 35 Brass
Impeller: Internal pump house coating: Shaft:	Cast iron EN-GJL-200 ASTM class 30 CED Stainless steel EN 1.4301 AISI 304
Installation: t max amb: Maximum operating pressure: 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):	55 °C 16 bar EN 1092-2 DN 125 DN 100 PN 16 Grease Yes N
Electrical data: Motor type:	SIEMENS



	GRUNDF		Date:	30/12/2022	
.	Description				
	IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles:	IE3 1.5 kW 50 Hz 3 x 220-240D/380-4 6.3/3.6 A 520-520 % 0.73 970 rpm IE3 82,5% 82.5-82.5 % 83.1-83.1 % 81.5-81.5 % 6	20Y V		
	Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No: Bearing insulation type N-end: Others:	IP55 F 83W02206 STEEL BEARING			
	Minimum efficiency index, MEI ≥ Net weight: Gross weight: Shipping volume: Danish VVS No.:	:: 0.70 101 kg 118 kg 0.315 m ³ 386065206			





		Date:	30/12/2022
Description	Value	H [m]	NB 100-200/193, 3*400 V, 50Hz eta [%]
General information:		6.0	
Product name:	NB 100-200/193 AAF2AESBQQEHW5	5.5 - 193 mm	
Product No:	98974772	5.0 -	
EAN number:	5712604530641	4.5 -	
Technical:		4.0 -	
Pump speed on which pump data are based:	970 rpm	3.5 -	
Rated flow:	94.5 m³/h	2.5 -	
Rated head:	4.5 m	2.0	80
Actual impeller diameter:	193 mm		
Nominal impeller diameter:	200	1.5 -	60
Shaft seal arrangement:	Single	1.0	40
Shaft diameter:	32 mm	0.5	- 20
Code for shaft seal:	BQQE	0.0	
		0 20	40 60 80 100 Q [m³/h]
Curve tolerance:	ISO9906:2012 3B2	Pumped liquid =	Water ire during operation = 20 °C
Pump version:	A	Density = 998.2 k	
Bearing design:	Standard	Р	NPS
Materials:		[kW]	[m
Pump housing:	Cast iron	2.0 -	P14
Pump housing:	EN-GJL-250		
Pump housing:	ASTM class 35	1.5	-3
Wear ring:	Brass		P2
Impeller:	Cast iron	1.0	2
Impeller:	EN-GJL-200	1.0	
Impeller:	ASTM class 30		
Internal pump house coating:	CED	0.5	1
Material code:	A		
Code for rubber:	E	0.0	
Shaft:	Stainless steel		
Shaft:	EN 1.4301		
		348	336 140 - 100 -
Shaft:	AISI 304		
Installation:			
t max amb:	55 °C	8 X	
Maximum operating pressure:	16 bar		
Pipe connection standard:	EN 1092-2		
Size of inlet connection:	DN 125		
Size of outlet connection:	DN 100	8	No. 10 August 10 Aug
Pressure rating for connection:	PN 16		
Bearing lubrication:	Grease		╘═━━┪╧╫╌┥╺┍╔╝┊╣┅╧╵╵╴╴╴
Pump housing with feet:	Yes		
Support block (Yes/No):	Ν	— "♥" IH	
Connect code:	F2		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		W VOLTAGE
Selected liquid temperature:	20 °C		DN OF ROTATION
Density:			
-	998.2 kg/m³	— 🖕 🖬 🖬 K	
Electrical data:			XXX
Motor type:	SIEMENS	▁▕▏▕▀▎▀▎▀▎▓	
IE Efficiency class:	IE3		
Rated power - P2:	1.5 kW		
Mains frequency:	50 Hz		/OLTAGE OF ROTATION
Rated voltage:	3 x 220-240D/380-420Y V		
Rated current:	6.3/3.6 A		⊥_Ⅰ. │
Starting current:	520-520 %		w3-(n3)-(<u>v3</u>)
Cos phi - power factor:	0.73		
Rated speed:	970 rpm		
Efficiency:	IE3 82,5%		

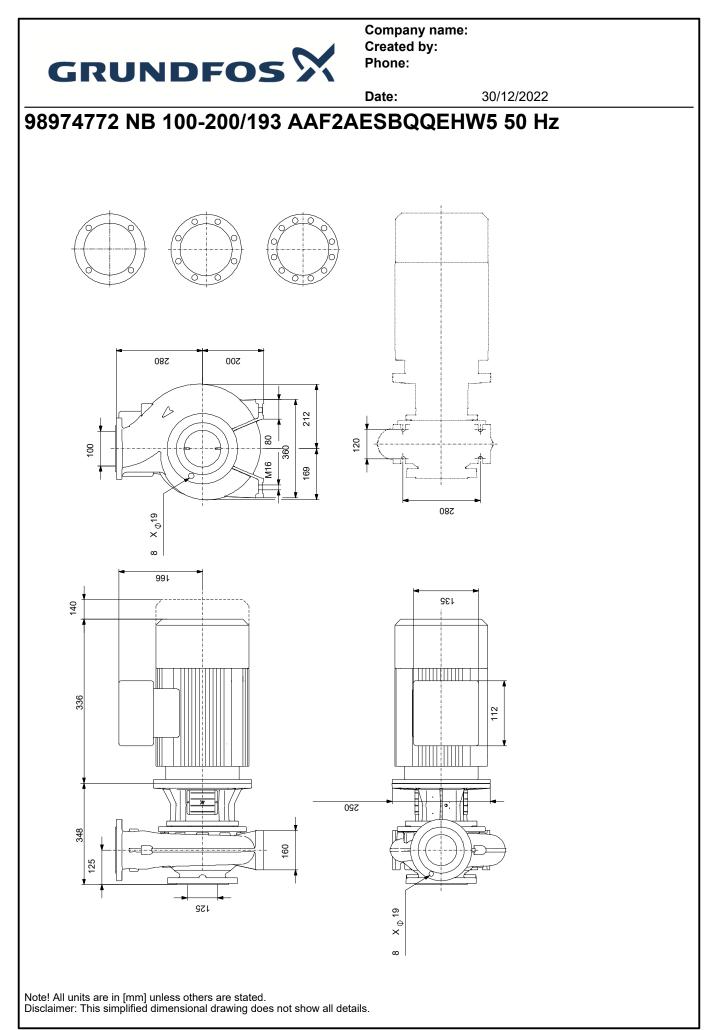
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Date:

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Description	Value
Motor efficiency at full load:	82.5-82.5 %
Motor efficiency at 3/4 load:	83.1-83.1 %
Motor efficiency at 1/2 load:	81.5-81.5 %
Number of poles:	6
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Motor No:	83W02206
Mount. design. acc. IEC 34-7:	IM B5
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	101 kg
Gross weight:	118 kg
Shipping volume:	0.315 m³
Danish VVS No.:	386065206

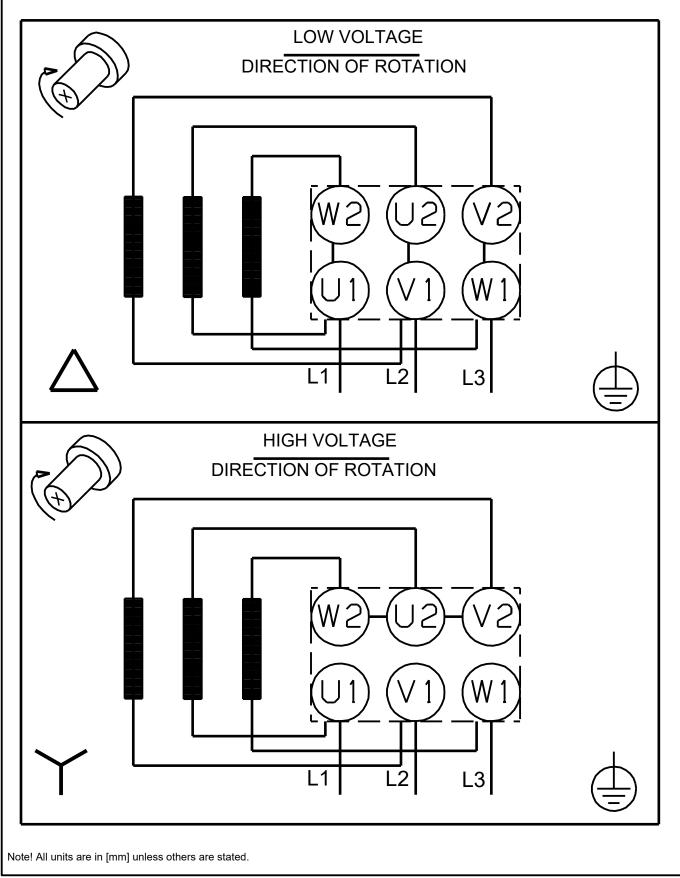




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98974772 NB 100-200/193 AAF2AESBQQEHW5 50 Hz





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Position

Company name: Created by: Phone:

30/12/2022 Date: **Order Data:** Total **Product name** Amount **Product No** NB 100-200/193 1 98974772 Price on request

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