

30/12/2022

Qty. Description

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NB 100-200/219 AASF2AESBQQENW3



Product No.: 98477982

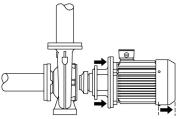
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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.



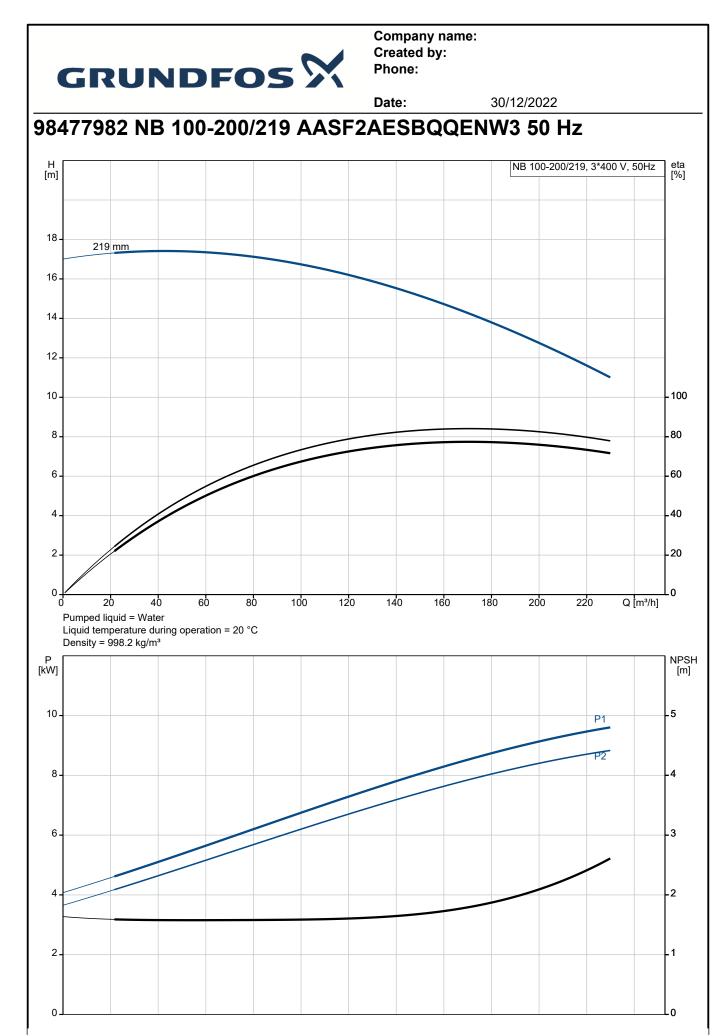
_			Date:	30/12/2022			
y.	Description						
	Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.						
	The motor can 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 a 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/m ³					
	Technical:						
	Pump speed on which pump da	ta are based:	1475 rpm				
	Rated flow:	174 m³/h					
	Rated head:	13.97 m					
	Actual impeller diameter:	219 mm					
	Nominal impeller diameter:	200					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	BQQE	0.00				
	Curve tolerance:	ISO9906:201	2 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 ste	el				
		EN 1.4301 AISI 304					
	Installation:	55 °C					
	t max amb: Maximum apprating prossure:	55 °C 16 bar					
	Maximum operating pressure: Pipe connection standard:	16 bar EN 1092-2					
	Size of inlet connection:	EN 1092-2 DN 125					
	Size of outlet connection:	DN 125 DN 100					
	Pressure rating for connection:	PN 16					
	Bearing lubrication:	Grease					
	Pump housing with feet:	Yes					
	Support block (Yes/No):	Y					
		-					



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Company name: Created by: Phone:

Date: 30/12/2022 Qty. | Description Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 11 kW Mains frequency: 50 Hz 3 x 380-420D/660-725Y V Rated voltage: Rated current: 20.5/12 A Starting current: 680-680 % Cos phi - power factor: 0.84 Rated speed: 1475 rpm Efficiency: IE3 91,4% Motor efficiency at full load: 91.4-91.4 % Motor efficiency at 3/4 load: 91.9-91.9 % Motor efficiency at 1/2 load: 91.4-91.4 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 99032187 Bearing insulation type N-end: Ν Others: Minimum efficiency index, MEI ≥: 0.65 Net weight: 193 kg Gross weight: 217 kg Shipping volume: 0.707 m³ Danish VVS No.: 386065212





		Date:	30/12/2022
Description General information:	Value	[m]	NB 100-200/219, 3*400 V, 50Hz [%]
General information: Product name:	NB 100-200/219 AASF2AESBQQENW3	18 - 219 mm	
Product No:	98477982	16 -	
EAN number:	5711495760175	14 -	
Fechnical:	0111400100110	12	
Pump speed on which pump data are based:	1475 rpm	10 -	- 100
Rated flow:	174 m³/h	8-	- 80
Rated head:	13.97 m	—	
Actual impeller diameter:	219 mm	6-	- 60
Nominal impeller diameter:	200	4	40
Shaft seal arrangement:	Single		
Shaft diameter:	32 mm	2	- 20
Code for shaft seal:	BQQE	0 50	100 150 200 Q [m³/h]
Curve tolerance:	ISO9906:2012 3B		100 150 200 Q [m³/h]
Pump version:	AS	Pumped liquid = Water Liquid temperature during	g operation = 20 °C
•	Standard	Density = 998.2 kg/m ³	
Bearing design:	Stanuaru	P [kW]	NPS [m
Materials:	Coatiron	10 -	P1 - 5
Pump housing:	Cast iron		
Pump housing:	EN-GJL-250	8 -	P2 4
Pump housing:	ASTM class 35		
Wear ring:	Brass	6-	-3
Impeller:	Cast iron		
Impeller:	EN-GJL-200	4	2
Impeller:	ASTM class 30		
Internal pump house coating:	CED	2 -	
Material code:	A		
Code for rubber:	E	0	
Shaft:	Stainless steel	=	
Shaft:	EN 1.4301		
Shaft:	AISI 304	. 398	494
Installation:			
t max amb:	55 °C		
Maximum operating pressure:	16 bar		
Pipe connection standard:	EN 1092-2		
Size of inlet connection:	DN 125	160	
Size of outlet connection:	DN 100	ŝ	i n sin si
Pressure rating for connection:	PN 16	8 × 019 PT- 1 m	
Bearing lubrication:	Grease		
Pump housing with feet:	Yes		
Support block (Yes/No):	Y		45
Connect code:	F2		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		Y
Selected liquid temperature:	20 °C		' _
Density:	998.2 kg/m ³		
Electrical data:	- 0		
Motor type:	SIEMENS		
IE Efficiency class:	IE3		ARE
Rated power - P2:	11 kW	TO AMPLIFIER RELAY	
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-420D/660-725Y V		
Rated current:	20.5/12 A	(t ₁ +T) (t ₁ +T)	Interna Return F
			Neccos a second
Starting current:	680-680 %	<u>H</u> <u>H</u> H H H H H H H H H H H H H H H H	TORN PLAN
Cos phi - power factor:	0.84		EC TP 211
Rated speed:	1475 rpm	TO AMPLIFIER RELAY L1 L2 L3	
Efficiency:	IE3 91,4%		

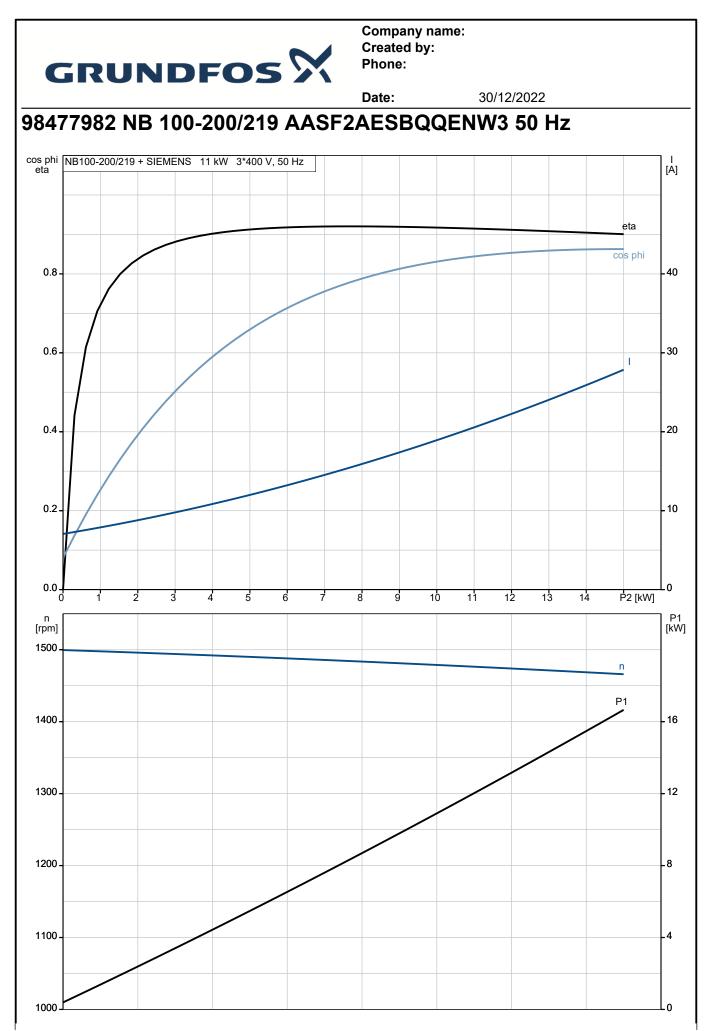
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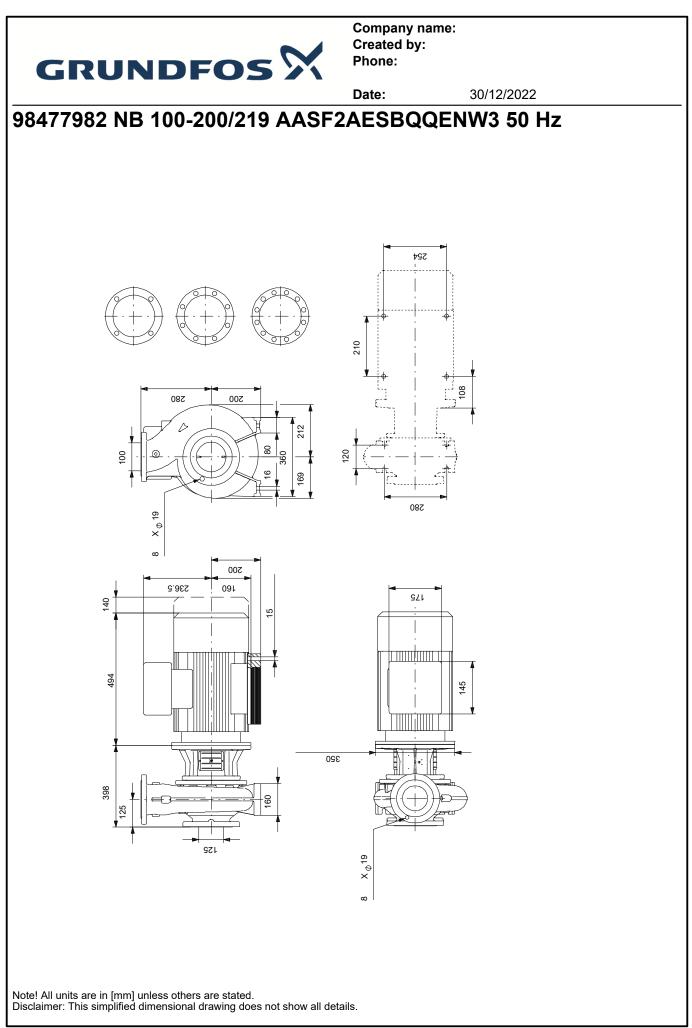


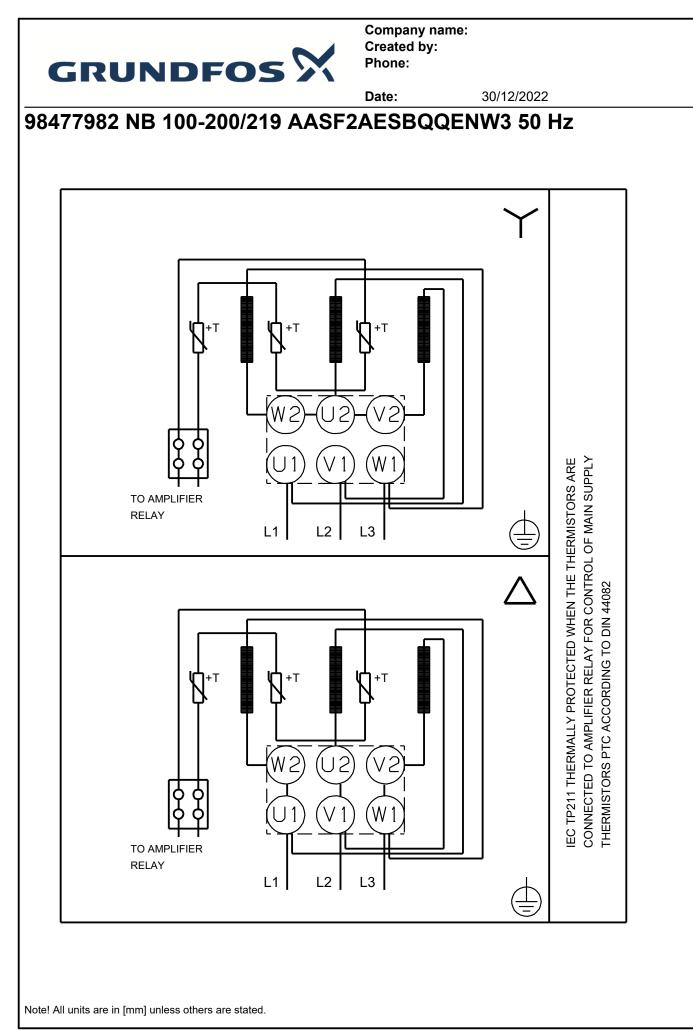
Date:

30/12/2022

Description	Value
Motor efficiency at full load:	91.4-91.4 %
Motor efficiency at 3/4 load:	91.9-91.9 %
Motor efficiency at 1/2 load:	91.4-91.4 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	99032187
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	Ν
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.65
Net weight:	193 kg
Gross weight:	217 kg
Shipping volume:	0.707 m ³
Danish VVS No.:	386065212









30/12/2022 Date:

Order Data:							
Position	Your pos.	Product name	Amount	Product No	Total		
		NB 100-200/219	1	98477982	Price or		
					reques		