

22

Date:

22/12/2022

Qty. | Description

1 NB 200-450/367 AASF1AESBQQEVW3



Product No.: 98976151

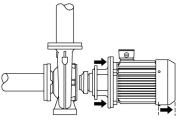
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

Flanges are PN 10 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.



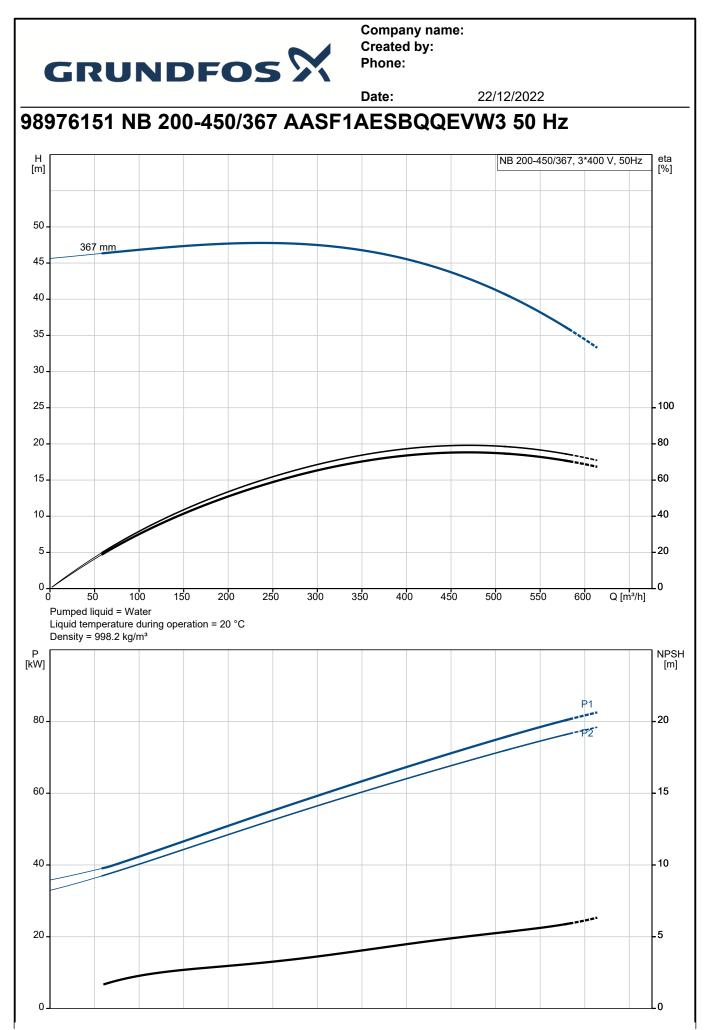
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Deceminárian		Date:	22/12/2022	
Description				
I nermal switches must be confi cannot cause accidents. The m regulations.	otors must be co	nnected to a motor-pr	way which ensures that the auto otective circuit breaker according	to local
A variable speed drive makes a connected to a variable speed of	adjustment of pur drive, the pump r	np performance to any nust be ordered with a	v duty point possible. If the motor n electrically insulated motor bea	is to be aring.
Further product details Cast-iron parts have an epoxy-	based coating ma	ade in a cathodic elect	ro-deposition (CED) process. CE	D is a
high-quality dip-painting proces a thin, well-controlled layer on t	s where an elect he surface.	rical field around the p	roducts ensurès deposition of pa	int particles
Technical data				
Controls:				
Frequency converter: Pressure sensor:	NONE 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 da		1485 rpm		
Rated flow: Rated head:	456.8 m³/h 43.32 m			
Actual impeller diameter:	43.32 m 367 mm			
Nominal impeller diameter:	450			
Shaft seal arrangement:	Single			
Code for shaft seal:	BQQE			
Curve tolerance:	ISO9906:2012	2 3B		
Bearing design:	Standard			
Materials:	.			
Pump housing:	Cast iron			
	EN-GJL-250 ASTM class 3	35		
Wear ring:	Brass	~		
Impeller:	Cast iron			
	EN-GJL-200			
Internal nump house costing	ASTM class 3 CED	60		
Internal pump house coating: Shaft:	Stainless stee	اد		
	EN 1.4301	··		
	AISI 304			
Installation:				
Max. ambient temperature:	55 °C			
Maximum operating pressure:	10 bar			
Pipe connection standard: Size of inlet connection:	EN 1092-2 DN 250			
Size of inlet connection: Size of outlet connection:	DN 250 DN 200			
Pressure rating for connection:				
Bearing lubrication:	Grease			
Pump housing with feet:	Yes			
Support block (Yes/No):	Y			



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			Date:	22/12/2022	
Qty.	Description				
1	Electrical data:				
	Motor type:	SIEMENS			
	IE Efficiency class:	IE3			
	Rated power - P2:	75 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-420D/660-	725Y V		
	Rated current:	133/77 A			
	Starting current:	690-690 %			
	Cos phi - power factor:	0.86			
	Rated speed:	1485 rpm			
	Efficiency:	IE3 95%			
	Motor efficiency at full load:	95-95 %			
	Motor efficiency at 3/4 load:	95.3-95.3 %			
	Motor efficiency at 1/2 load:	95-95 %			
	Number of poles:	4			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	83V15440			
	Bearing insulation type N-end:	STEEL BEARING			
	Others:				
	Minimum efficiency index, MEI ≥:	0.44			
	Net weight:	1050 kg			
	Gross weight:	1100 kg			
	Shipping volume:	1.6 m³			
	Danish VVS No.:	386068452			
	Country of origin:	HU			
	Custom tariff no.:	84137051			





		Date: 22/12/2022
Description General information:	Value	H [m] NB 200-450/367, 3*400 V, 50Hz [9]
	NB 200 450/207	50 -
Product name:	NB 200-450/367 AASF1AESBQQEVW3	367 mm 45 -
Product No:	98976151	40-
EAN number:	5712604556474	
Fechnical:		35
Pump speed on which pump data are based:	1485 rpm	30
Rated flow:	456.8 m³/h	25
Rated head:	43.32 m	20
Actual impeller diameter:	367 mm	15
Nominal impeller diameter:	450	10 40
Shaft seal arrangement:	Single	5
Shaft diameter:	48 mm	0
Code for shaft seal:	BQQE	0 100 200 300 400 500 Q [m³/h]
Curve tolerance:	ISO9906:2012 3B	Pumped liquid = Water
Pump version:	AS	Liquid temperature during operation = 20 °C Density = 998.2 kg/m³
Bearing design:	Standard	P N
Materials:		[kW]
Pump housing:	Cast iron	80 - 20
Pump housing:	EN-GJL-250	P2
Pump housing:	ASTM class 35	60 - 11
Wear ring:	Brass	
Impeller:	Cast iron	
Impeller:	EN-GJL-200	40
Impeller:	ASTM class 30	
nternal pump house coating:	CED	20 5
Material code:	A	
Code for rubber:	E	
Shaft:	E Stainless steel	
Shaft:	EN 1.4301	((+))
Shaft:	AISI 304	487 820 180
Installation:	55.00	
Max. ambient temperature:	55 °C	
Maximum operating pressure:	10 bar	
Pipe connection standard:	EN 1092-2	
Size of inlet connection:	DN 250	
Size of outlet connection:	DN 200	
Pressure rating for connection:	PN 10	8 <u>150</u>
Bearing lubrication:	Grease	
Pump housing with feet:	Yes	
Support block (Yes/No):	Y	
Connect code:	F1	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	-25 120 °C	Y
Density:	998.2 kg/m ³	
Electrical data:	530.2 Kg/III	
	SIEMENS	
Notor type:	SIEMENS	
E Efficiency class:	IE3	TO AMPLIFIER
Rated power - P2:	75 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-420D/660-725Y V	
Rated current:	133/77 A	
Starting current:	690-690 %	
Cos phi - power factor:	0.86	
Rated speed:	1485 rpm	

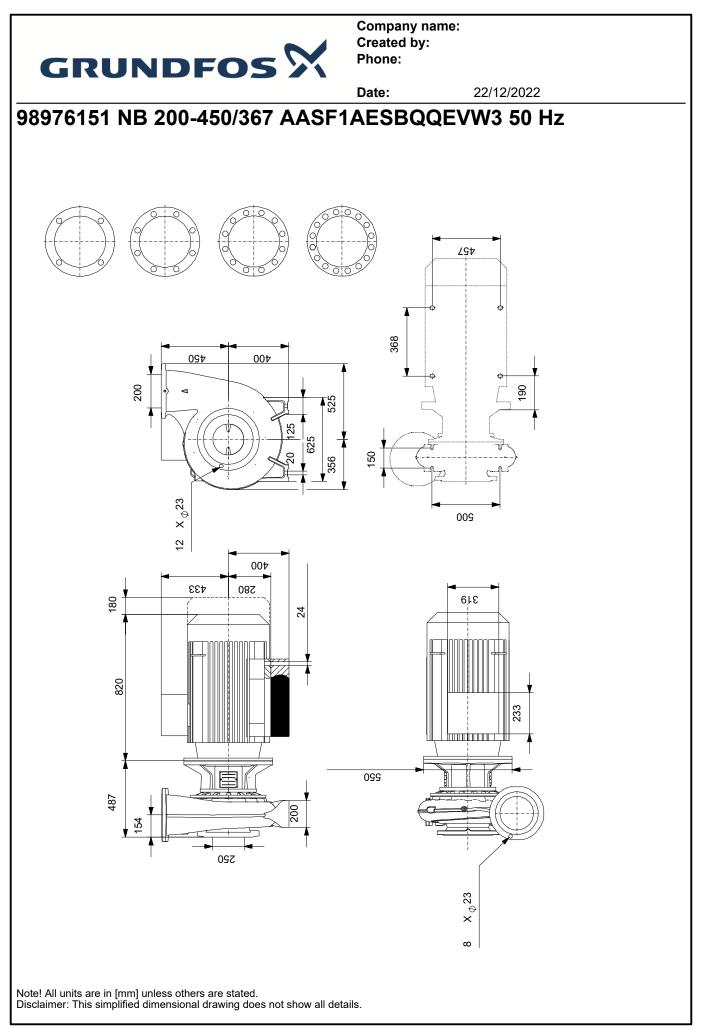
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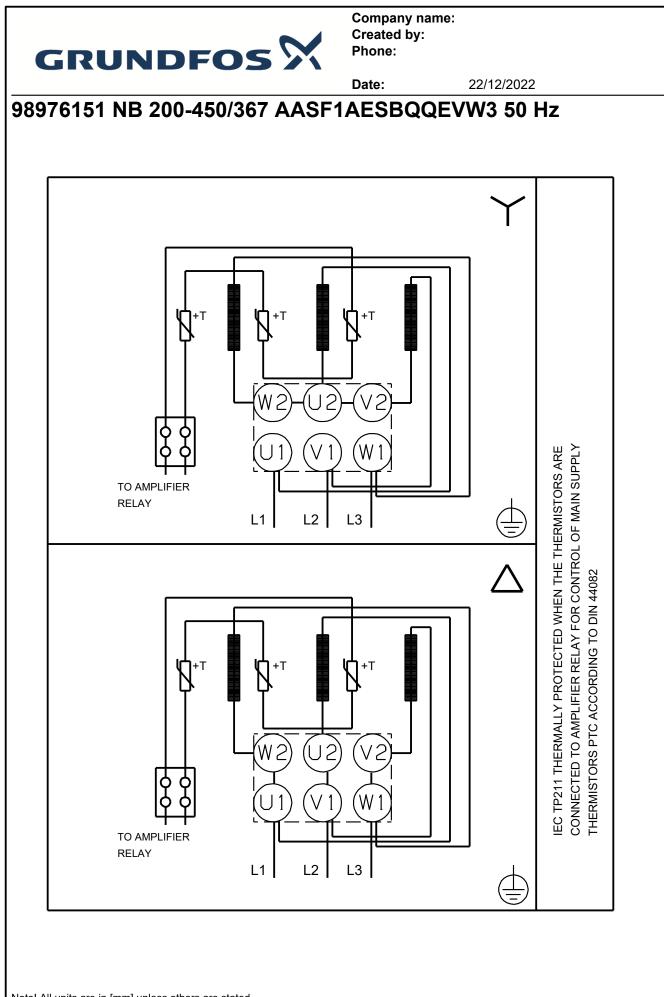


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Value Description Motor efficiency at full load: 95-95 % Motor efficiency at 3/4 load: 95.3-95.3 % Motor efficiency at 1/2 load: 95-95 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: PTC Motor No: 83V15440 Mount. design. acc. IEC 34-7: IM B35 Bearing insulation type N-end: STEEL BEARING Controls: NONE Frequency converter: Pressure sensor: Ν Others: 0.44 Minimum efficiency index, MEI ≥: 1050 kg Net weight: Gross weight: 1100 kg Shipping volume: 1.6 m³ Danish VVS No.: 386068452 Country of origin: HU 84137051 Custom tariff no.:







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Position

Company name: Created by: Phone:

22/12/2022 Date: **Order Data:** Total **Product name** Amount **Product No** NB 200-450/367 1 98976151 Price on request

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