

22/12/2022

Qty. | Description

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NB 200-450/415 AASF1AESBQQE1W3



Product No.: 98976153

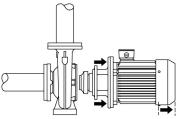
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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.



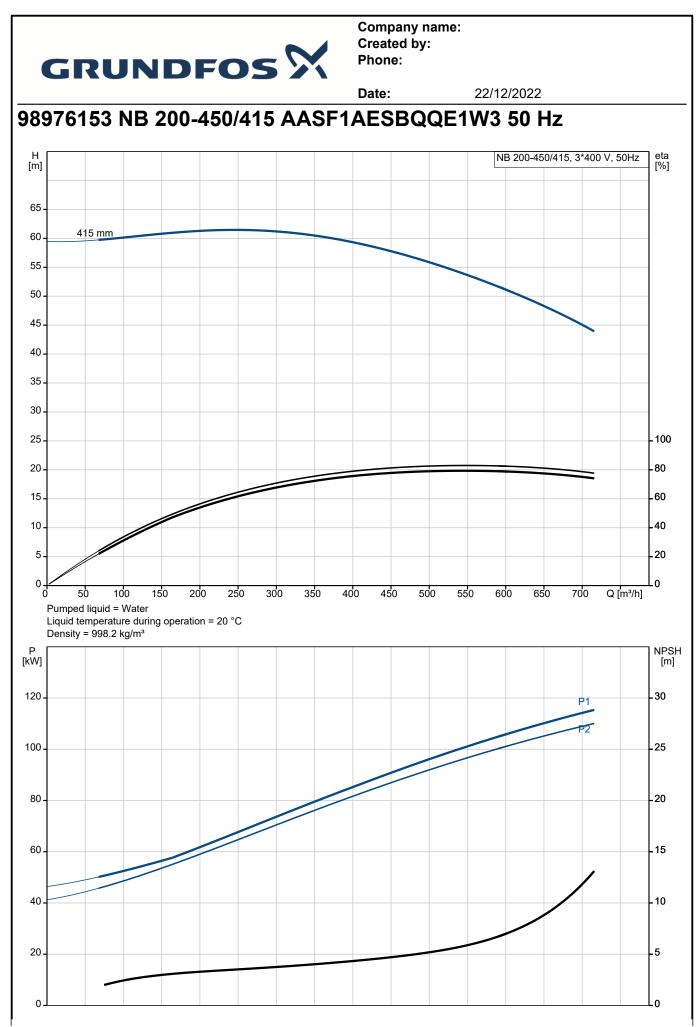
	GRUNDF	05 2					
	-			Date:	22/12/2022		
' .	Description						
	Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.						
	A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.						
	Further product details Cast-iron parts have an epoxy-t	based coating m	ade in a	cathodic elec	ctro-deposition (CED) proce	ess. CED is a	
	high-quality dip-painting process a thin, well-controlled layer on the	s where an elec ne surface.	rical field	d around the	products ensures depositio	n of paint particles as	
	Technical data						
	Controls:						
	Frequency converter:	NONE					
	Pressure sensor:	Ν					
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-25 120 °C 20 °C					
	Selected liquid temperature: Density:	20°C 998.2 kg/m ³					
	Technical:						
	Pump speed on which pump da	ta are based:	1488 rp	m			
	Rated flow:	550 m³/h	•				
	Rated head:	53.5 m					
l	Actual impeller diameter:	415 mm					
	Nominal impeller diameter:	450					
	Shaft seal arrangement:	Single					
	Code for shaft seal: Curve tolerance:	BQQE ISO9906:201	2 20				
	Bearing design:	Standard	2 30				
	Materials:						
	Pump housing:	Cast iron					
		EN-GJL-250					
		ASTM class 3	35				
	Wear ring:	Brass					
	Impeller:	Cast iron					
		EN-GJL-200 ASTM class 3	20				
	Internal pump house coating:	CED	50				
	Shaft:	Stainless stee	el				
		EN 1.4301					
		AISI 304					
	Installation:						
	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: Bearing lubrication:	PN 10 Grease					
	Pump housing with feet:	Yes					
	Support block (Yes/No):	Y					
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Date:

22/12/2022

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-	Description			
1	Electrical data:			
'		SIEMENS		
	Motor type:			
	IE Efficiency class:	IE3		
	Rated power - P2:	110 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 380-420D/660-725Y V		
	Rated current:	191/111 A		
	Starting current:	680-680 %		
	Cos phi - power factor:	0.87		
	Rated speed:	1488 rpm		
	Efficiency:	IE3 95,4%		
	Motor efficiency at full load:	95.4-95.4 %		
	Motor efficiency at 3/4 load:	95.8-95.8 %		
	Motor efficiency at 1/2 load:	95.5-95.5 %		
	Number of poles:	4		
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor No:	83V15444		
	Bearing insulation type N-end:	STEEL BEARING		
	Others:			
	Minimum efficiency index, MEI ≥:	0.44		
	Net weight:	1310 kg		
	Gross weight:	1360 kg		
	Shipping volume:	1.7 m ³		
	Danish VVS No.:	386068456		
	Country of origin:	HU		
	Custom tariff no.:	84137051		
		04137031		





		H NB 200-450/415_3*400 V_50H	zeta
Description	Value	H [m] NB 200-450/415, 3*400 V, 50H	IZ [%
General information:		65 -	
Product name:	NB 200-450/415 AASF1AESBQQE1W3	60 415 mm	
Product No:	98976153	50	
EAN number:	5712604556610	45	
Fechnical:			
Pump speed on which pump data are based:	1488 rpm	35	
Rated flow:	550 m³/h	30	
Rated head:	53.5 m	25-	- 10
Actual impeller diameter:	415 mm	20 -	- 80
	41511111	15-	- 60
Nominal impeller diameter:		10	40
Shaft seal arrangement:	Single	5	20
Shaft diameter:	48 mm		
Code for shaft seal:	BQQE	0 100 200 300 400 500 600 Q [m³]	
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	
Materials:		[kW]	Ĩ
Pump housing:	Cast iron	P1	
Pump housing:	EN-GJL-250	100-	- 2!
Pump housing:	ASTM class 35		_
Wear ring:	Brass	80-	- 20
mpeller:	Cast iron		
•	EN-GJL-200	60	
mpeller:		40	1
mpeller:	ASTM class 30		
nternal pump house coating:	CED	20-	- 5
Material code:	A	0	L
Code for rubber:	E		_ _0
Shaft:	Stainless steel	M	
Shaft:	EN 1.4301	A	P
Shaft:	AISI 304		S
installation:			A
Max. ambient temperature:	55 °C		+
Maximum operating pressure:	10 bar		ete l
Pipe connection standard:	EN 1092-2		5°°°
Size of inlet connection:	DN 250		000
Size of outlet connection:	DN 200		0000
	PN 10		J)
Pressure rating for connection:		8 150 - 406	~059
Bearing lubrication:	Grease		•
Pump housing with feet:	Yes		808
Support block (Yes/No):	Y		Ц
Connect code:	F1		
Liquid:			
Pumped liquid:	Water		
_iquid temperature range:	-25 120 °C	Y	
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:	č		
Motor type:	SIEMENS		
E Efficiency class:	IE3		
Rated power - P2:	110 kW	É 0	
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-420D/660-725Y V		
Rated current:	191/111 A		
Starting current:	680-680 %		
Cos phi - power factor:	0.87		
Rated speed:	1488 rpm	RELAY	
Efficiency:	IE3 95,4%		

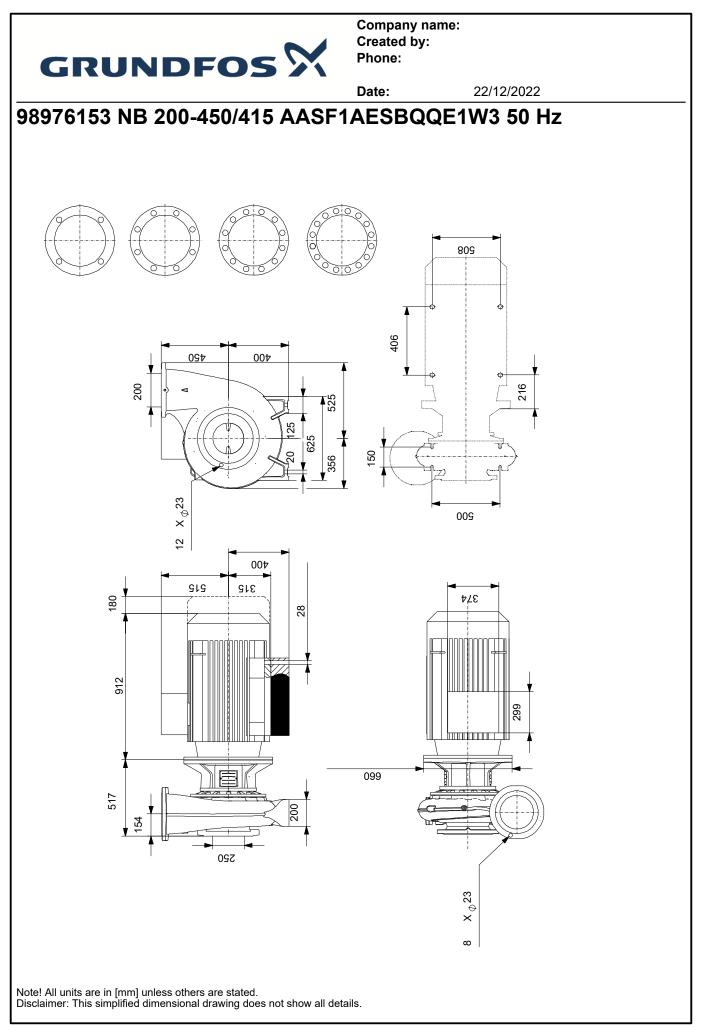
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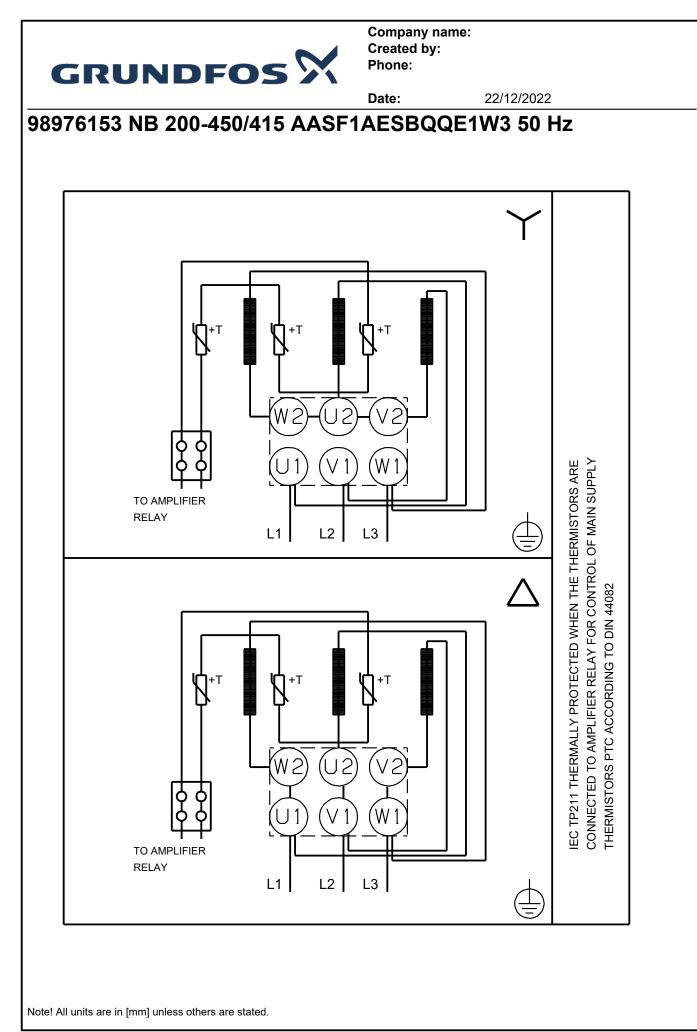


Date:

Description	Value
Motor efficiency at full load:	95.4-95.4 %
Motor efficiency at 3/4 load:	95.8-95.8 %
Motor efficiency at 1/2 load:	95.5-95.5 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	83V15444
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.44
Net weight:	1310 kg
Gross weight:	1360 kg
Shipping volume:	1.7 m ³
Danish VVS No.:	386068456
Country of origin:	HU
Custom tariff no.:	84137051

22/12/2022







Your pos.

Position

Company name: Created by: Phone:

Date: 22/12/2022 **Order Data: Product name** Total Amount **Product No** NB 200-450/415 1 98976153 Price on request

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