

Date:

22/12/2022

Description

Qty.

1 NB 200-400/312 AASF1AESBQQEUW3



Product No.: 98976109

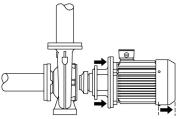
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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.

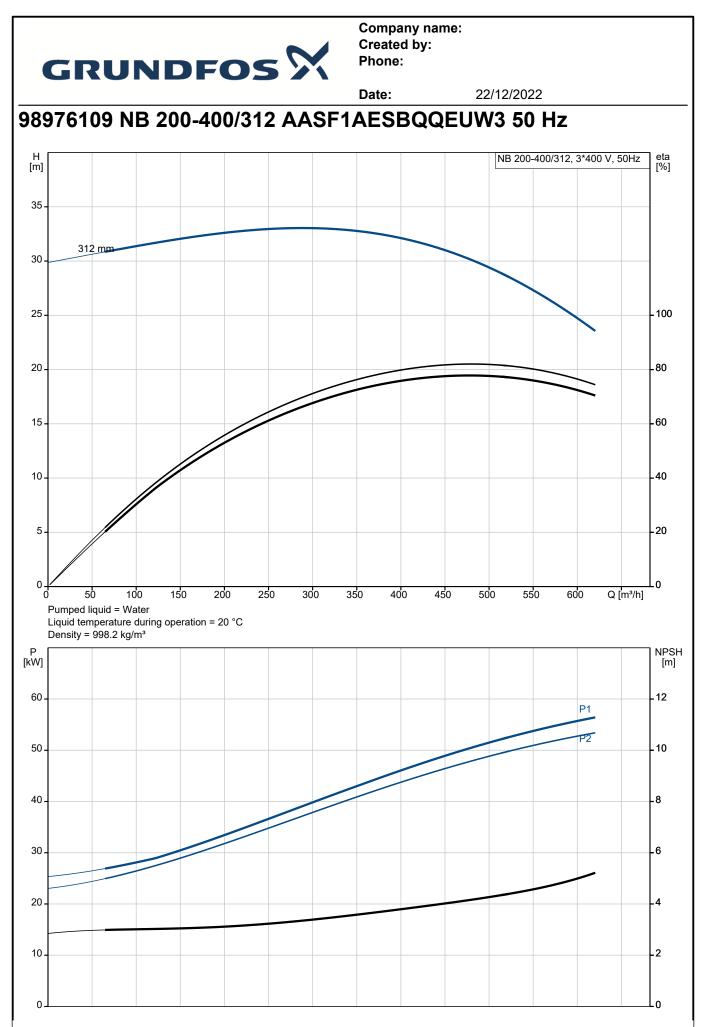
The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.



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Description				
Thermal switches must be conr cannot cause accidents. The m regulations.	nected to an extern otors must be con	al control circuit in a nected to a motor-pr	way which ensures that the automatic otective circuit breaker according to loc	re al
A variable speed drive makes a connected to a variable speed of	djustment of pump drive, the pump mu	performance to any st be ordered with a	duty point possible. If the motor is to b n electrically insulated motor bearing.	be
Further product details				
Cast-iron parts have an epoxy-	s where an electric	le in a cathodic elect cal field around the p	ro-deposition (CED) process. CED is a roducts ensures deposition of paint pain	a rtic
Technical data				
Controls:				
Frequency converter:	NONE			
Pressure sensor:	Ν			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range: Selected liquid temperature:	-25 120 °C 20 °C			
Density:	20°C 998.2 kg/m³			
Technical:				
Pump speed on which pump da	ata are based: 14	482 rpm		
Rated flow:	477 m ³ /h			
Rated head:	30.08 m			
Actual impeller diameter:	312 mm			
Nominal impeller diameter:	400			
Shaft seal arrangement:	Single			
Code for shaft seal:	BQQE	-		
Curve tolerance:	ISO9906:2012	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 steel			
	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:	Grease			
Pump housing with feet: Support block (Yes/No):	Yes Y			
	v			



	Description		
-	Electrical data:		
	Motor type:	SIEMENS	
	IE Efficiency class:	IE3	
	Rated power - P2:	55 kW	
	Mains frequency:	50 Hz	
	Rated voltage:	3 x 380-420D/660-725Y V	
	Rated current:	96/56 A	
	Starting current:	680-680 %	
		0.87	
	Cos phi - power factor: Rated speed:		
	Efficiency:	1482 rpm IE3 94,6%	
	Motor efficiency at full load:	94.6-94.6 %	
	Motor efficiency at 3/4 load:	95.1-95.1 %	
	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:	99032216	
	Bearing insulation type N-end:	STEEL BEARING	
	bearing insulation type N-end.	STEEL BEARING	
	Others:		
	Minimum efficiency index, MEI ≥:	0.58	
	Net weight:	893 kg	
	Gross weight:	943 kg	
	Shipping volume:	1.54 m ³	
	Danish VVS No.:	386068404	
	Country of origin:	HU	
	Custom tariff no.:	84137051	





		H [m]	NB 200-400/312, 3*400 V, 50Hz
Description	Value		
General information:		35 -	
Product name:	NB 200-400/312 AASF1AESBQQEUW3	312 mm	
Product No:	98976109	30	
EAN number:	5712604555736	25 -	
	5712004555736	25-	
Technical:		20 -	
Pump speed on which pump data are based:	1482 rpm	20-	
Rated flow:	477 m³/h	15	
Rated head:	30.08 m		
		10	
Actual impeller diameter:	312 mm		
Nominal impeller diameter:	400	5	
Shaft seal arrangement:	Single		
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 durin Density = 998.2 kg/m ³	ng operation = 20 °C
Bearing design:	Standard	P	
Materials:		[kW]	
Pump housing:	Cast iron		P1
Pump housing:	EN-GJL-250	50 -	P2
Pump housing:	ASTM class 35		
Wear ring:	Brass	40 -	
Impeller:	Cast iron	30	
Impeller:	EN-GJL-200		
Impeller:	ASTM class 30	20	
Internal pump house coating:	CED		
Material code:	A	10 -	
	E	0	
Code for rubber:		#	
Shaft:	Stainless steel		
Shaft:	EN 1.4301		(g + e
Shaft:	AISI 304	514	747
Installation:		180	<u></u>
Max. ambient temperature:	55 °C		
Maximum operating pressure:	10 bar		
Pipe connection standard:	EN 1092-2		
Size of inlet connection:	DN 250	200	
Size of outlet connection:	DN 200		
Pressure rating for connection:	PN 10	8	150
Bearing lubrication:	Grease		
Pump housing with feet:	Yes		
Support block (Yes/No):	Y	8 X @ 23	
Connect code:	F1		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C		Ύ
Density:	998.2 kg/m ³		
-	330.2 KY/III	β ^{+τ} β ^{+τ}	
Electrical data:			
Motor type:	SIEMENS		w >
IE Efficiency class:	IE3		L SODI AND A SODI AND
Rated power - P2:	55 kW	L1 L2 L3	
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-420D/660-725Y V		a 10 bw
Rated current:	96/56 A	₿ ^{+⊤} ₿ ^{+⊤} ₿ ^{+⊤}	PPOTEC SCORDW
Starting current:	680-680 %		BRMALLY S PTC AC
Cos phi - power factor:	0.87		NASTOR
			1 1 2 2 2 2 1 1 2 2 2 2 1 2 2 2 2 2 2 2
Rated speed:	1482 rpm	TO AMPLIFIER RELAY	

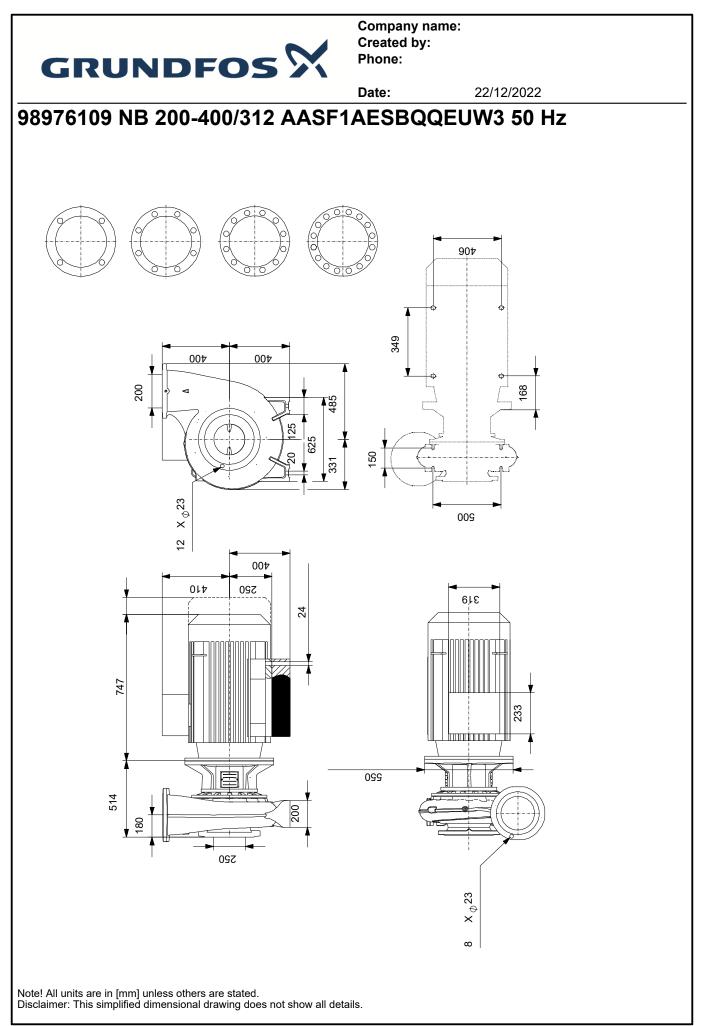
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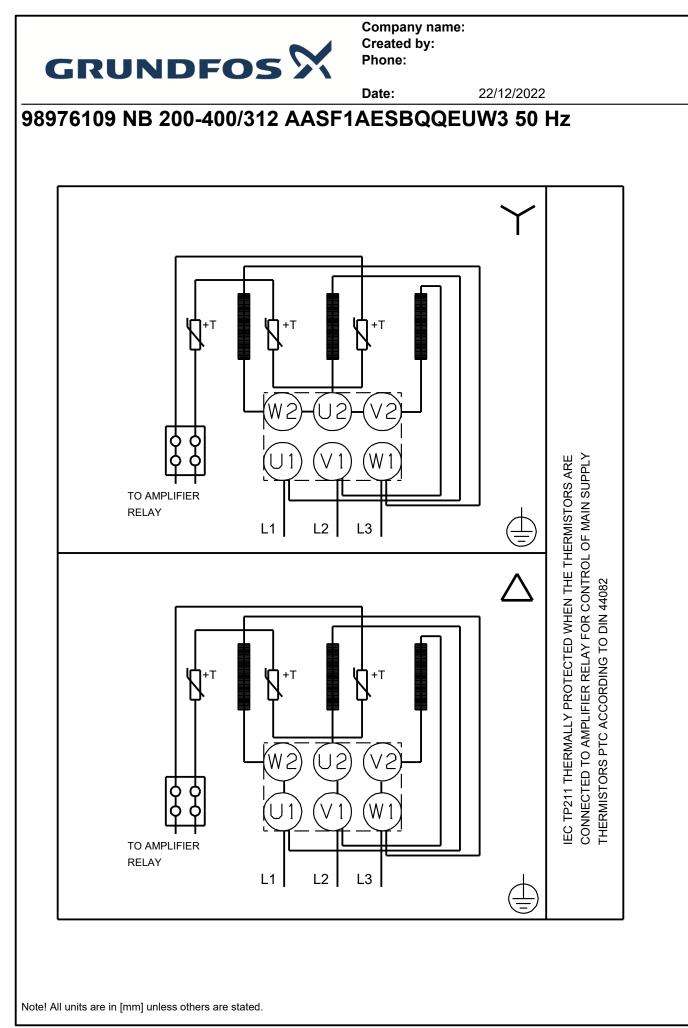


Date:

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Description	Value
Motor efficiency at full load:	94.6-94.6 %
Motor efficiency at 3/4 load:	95.1-95.1 %
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:	99032216
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 ≥:	0.58
Net weight:	893 kg
Gross weight:	943 kg
Shipping volume:	1.54 m³
Danish VVS No.:	386068404
Country of origin:	HU
Custom tariff no.:	84137051







Your pos.

Position

Company name: Created by: Phone:

22/12/2022 Date: **Order Data: Product name** Amount **Product No** Total NB 200-400/312 1 98976109 Price on request

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