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12/08/2021

Qty. Description

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NB 200-400/312 ASF1ABQQE



Product No.: 98976109

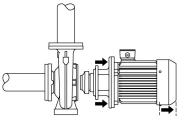
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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

The pump housing has both a priming and a drain hole closed by plugs. The impeller is a closed impeller with double-curved blades with smooth surfaces. The impeller is statically balanced according to ISO 1940-1 class G6.3 and hydraulically balanced to compensate for axial thrust.

Wear rings used in pump housing and for impeller are made of bronze/brass.

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The pump cover is provided with a manual air vent screw for venting of the pump housing and the shaft seal chamber.

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.

Primary seal:

- 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



Qty.

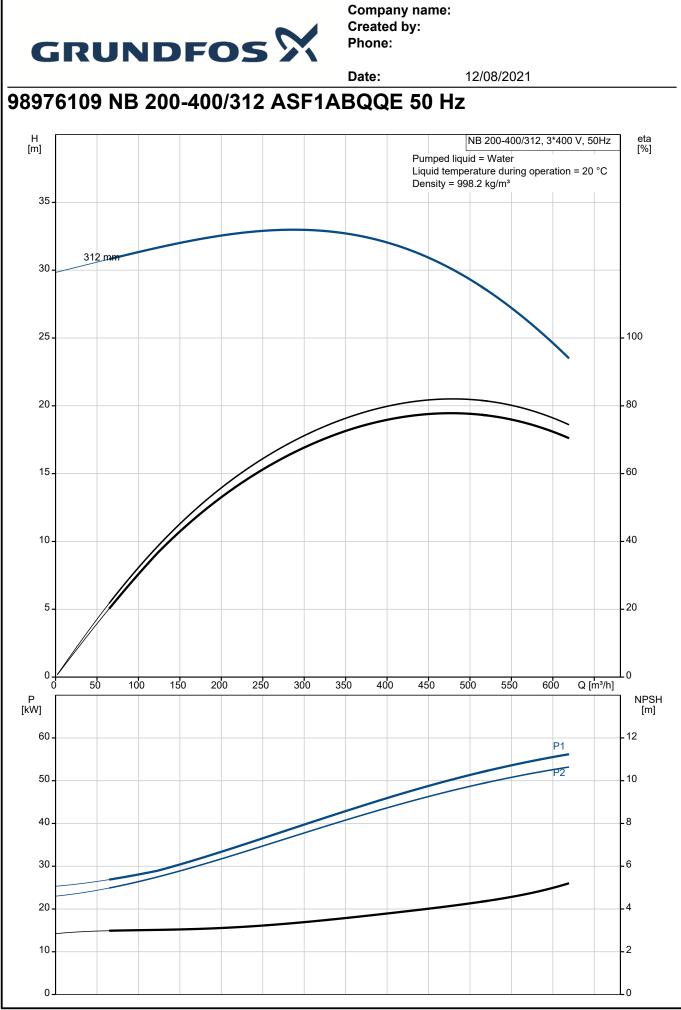
Company name: Created by: Phone:

Date: 12/08/2021 Description 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. 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 Technical data** Controls: Frequency converter: NONE Pressure sensor: Ν 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 data are based: 1480 rpm Rated flow: 476.4 m³/h Rated head: 30 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 Shaft: Stainless steel EN 1.4301 AISI 304 Internal pump house coating: CFD

Installation:Maximum ambient temperature:55 °CMaximum operating pressure:10 barPipe connection standard:EN 1092-2Size of inlet connection:DN 250



	Date:	12/08/2021
Description		
Size of outlet connection:	DN 200	
Pressure rating for connection:	PN 10	
Bearing lubrication:	Grease	
Pump housing with feet:	Yes	
Support block:	Y	
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:	100-93,0/58,0-54,0 A	
Starting current:	680-680 %	
Cos phi - power factor:	0.9	
Rated speed:	1480 rpm	
Efficiency:	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:	95.0-95.0 %	
	95.0-95.0 % 4	
Number of poles:		
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Motor No:	99032216	
Others:		
Minimum efficiency index, MEI ≥:		
Net weight:	890 kg	
Gross weight:	940 kg	
Shipping volume:	1.54 m³	
Country of origin:	HU	
Custom tariff no.:	84137051	



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		Date:	12/08/2021	- .
Description	Value	H [m]	NB 200-400/312, 3*400 V, 50Hz	eta [%]
General information:		35 _	Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	NB 200-400/312 ASF1ABQQE		Density = 998.2 kg/m ³	
Product No:	98976109	30 - 312 m	Π	
EAN number:	5712604555736			
Technical:		25 -		- 100
Pump speed on which pump data are based:	1480 rpm	23-		- 100
Rated flow:	476.4 m³/h	20 -		- 80
Rated head:	30 m			
Actual impeller diameter:	312 mm	15 -		- 60
Nominal impeller diameter:	400			
Shaft seal arrangement:	Single			
Shaft diameter:	48 mm	10 -		- 40
Code for shaft seal:	BQQE			
Curve tolerance:	ISO9906:2012 3B	5		- 20
Pump version:	AS			
Bearing design:	Standard	0		L
Materials:		0 100	0 200 300 400 500 Q [m³/h]	
Pump housing:	Cast iron	P [kW]		NPSH [m]
Pump housing:	EN-GJL-250	·····]	P1	-
Pump housing:	ASTM class 35	50 -	P2	10
Wear ring:	Brass			
Impeller:	Cast iron	40 -		-8
Impeller:	EN-GJL-200	30 -		- 6
Impeller:	ASTM class 30	20		
Shaft:	Stainless steel	20 -		- 4
Shaft:	EN 1.4301	10 -		-2
Shaft:	AISI 304	0		0
Internal pump house coating:	CED	M		
Material code:	A			0 to
Code for rubber:	E			
Installation:		514	747 • •	
Maximum ambient temperature:	55 °C	- →		
Maximum operating pressure:	10 bar	_+A A		Sto.
Pipe connection standard:	EN 1092-2			2°°C
Size of inlet connection:	DN 250	200		0000
Size of outlet connection:	DN 200			69000
Pressure rating for connection:	PN 10	ş		
Bearing lubrication:	Grease	ν. V		
Pump housing with feet:	Yes	Mh-		
Support block:	Y	<u>8 × o 23</u>		
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:	500.2 Ng/III	\$ ⁺ [™] \$ ⁺ [™]		
Motor type:	SIEMENS			
IE Efficiency class:	IE3			
Rated power - P2:	55 kW	TO AMPLIFIER RELAY		
	50 Hz			
Mains frequency:				
Rated voltage:	3 x 380-420D/660-725Y V			
Rated current:	100-93,0/58,0-54,0 A			
Starting current:	680-680 %	日間路		
Cos phi - power factor:	0.9	TO AMPLIFIER RELAY		
Rated speed:	1480 rpm			

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		Date:
Description	Value	
Efficiency:	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:	95.0-95.0 %	
Number of poles:	4	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Motor protec:	PTC	
Motor No:	99032216	
Mount. design. acc. IEC 34-7:	IM B35	
Controls:		
Frequency converter:	NONE	
Pressure sensor:	Ν	
Others:		
Minimum efficiency index, MEI ≥:	0.58	
Net weight:	890 kg	
Gross weight:	940 kg	
Shipping volume:	1.54 m³	
Country of origin:	HU	
Custom tariff no.:	84137051	

