

Date: 12/08/2021 Qty. Description 1 NB 250-450/325 ASF1ABQQE Note! Product picture may differ from actual product Product No.: 98976237 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 product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013. 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 torgue 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.



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Qty. | Description

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.

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.

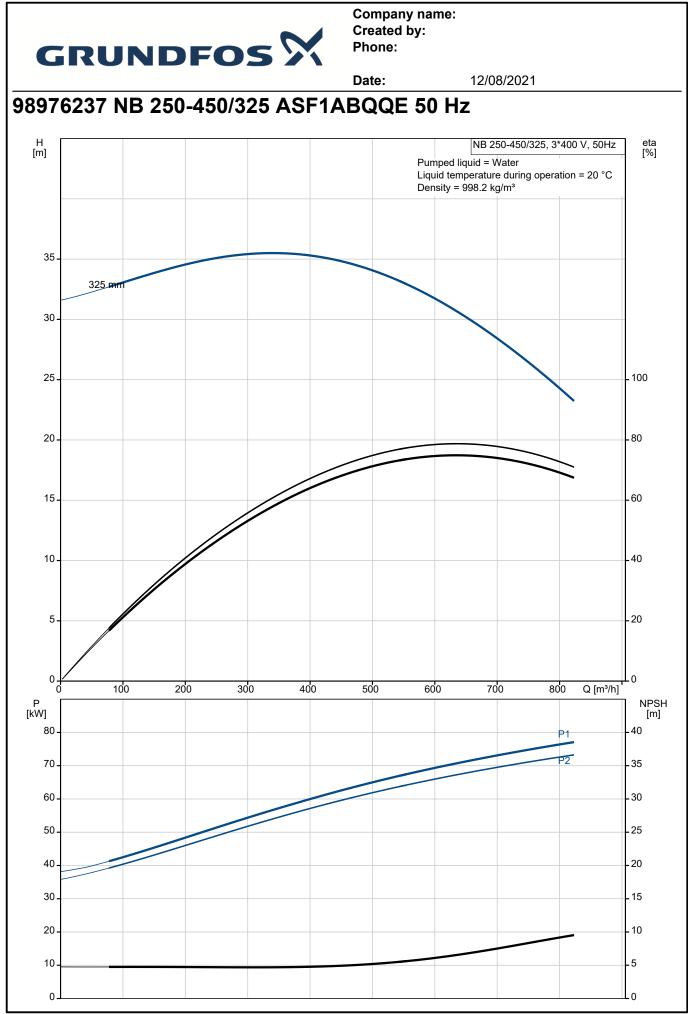
Further product details

Technical data

Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Nominal impeller diameter: Shaft seal arrangement: Code for shaft seal: Curve tolerance: Bearing design:	a are based: 1485 rpm 638.9 m³/h 30.52 m 325 mm 450 Single BQQE ISO9906:2012 3B Standard
Materials: Pump housing:	Cast iron EN-GJL-250
Wear ring: Impeller:	ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30
Shaft: Internal pump house coating:	Stainless steel EN 1.4301 AISI 304 CED
Installation: Maximum ambient temperature: Maximum operating pressure: Pipe connection standard:	55 °C 10 bar EN 1092-2

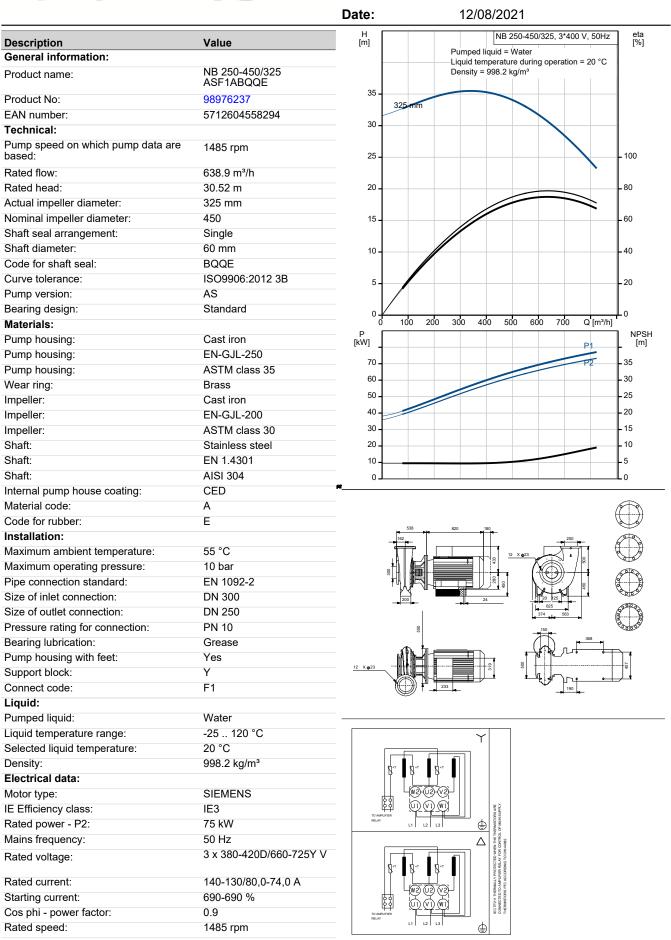


		Date:	12/08/2021
<i>'</i> .	Description		
	Size of inlet connection:	DN 300	
	Size of outlet connection:	DN 250	
	Pressure rating for connection:	PN 10	
	Bearing lubrication:	Grease	
	Pump housing with feet:	Yes	
	Support block:	Y	
	Electrical data:		
	Motor type:	SIEMENS	
	IE Efficiency class:	IE3	
	Rated power - P2:	75 kW	
	Mains frequency:	50 Hz	
	Rated voltage:	3 x 380-420D/660-725Y V	
	Rated current:	140-130/80,0-74,0 A	
	Starting current:	690-690 %	
	Cos phi - power factor:	0.9	
	Rated speed:		
		1485 rpm	
	Efficiency:	IE3 95,0%	
	Motor efficiency at full load:	95.0-95.0 %	
	Motor efficiency at 3/4 load:	95.3-95.3 %	
	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 No:	83V15440	
	Others:		
	Minimum efficiency index, MEI ≥	:: 0.70	
	Net weight:	1110 kg	
	Gross weight:	1160 kg	
	Shipping volume:	1.75 m ³	
	Country of origin:	HU	
	Custom tariff no.:	84137051	
		04107001	



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		Date:
Description	Value	
Efficiency:	IE3 95,0%	
Motor efficiency at full load:	95.0-95.0 %	
Motor efficiency at 3/4 load:	95.3-95.3 %	
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:	83V15440	
Mount. design. acc. IEC 34-7:	IM B35	
Controls:		
Frequency converter:	NONE	
Pressure sensor:	Ν	
Others:		
Minimum efficiency index, MEI ≥:	0.70	
Net weight:	1110 kg	
Gross weight:	1160 kg	
Shipping volume:	1.75 m³	
Country of origin:	HU	
Custom tariff no.:	84137051	

