

Date:

12/08/2021

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NB 150-200/224 ASF1ABQQE



Product No.: 98455883

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

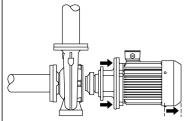
Flanges are PN 10 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

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 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.



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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.

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

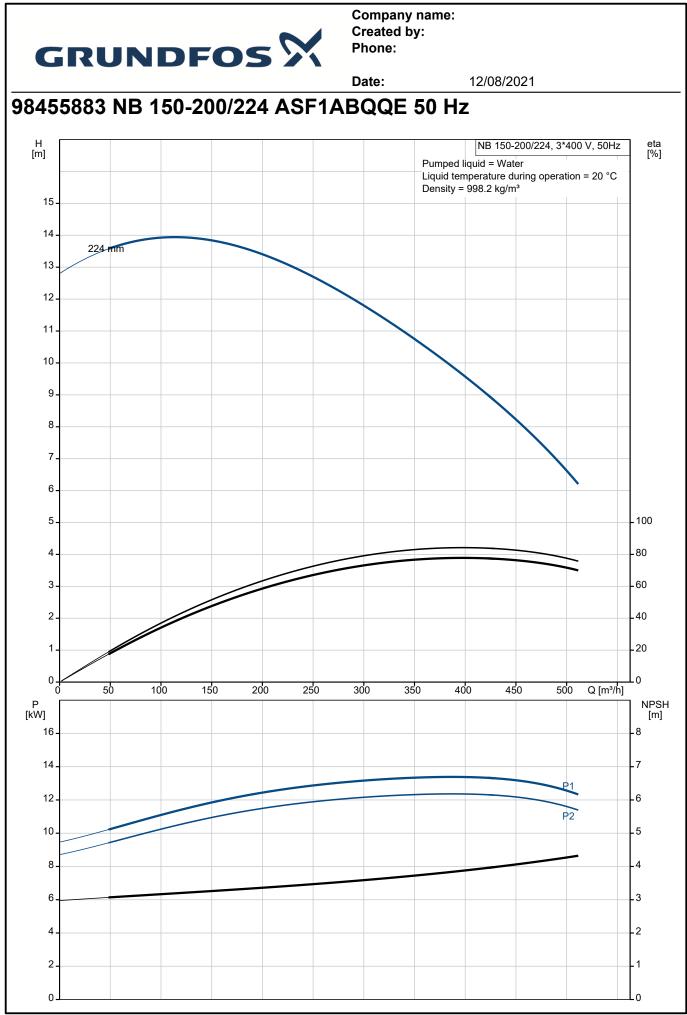
Further product details

Technical data

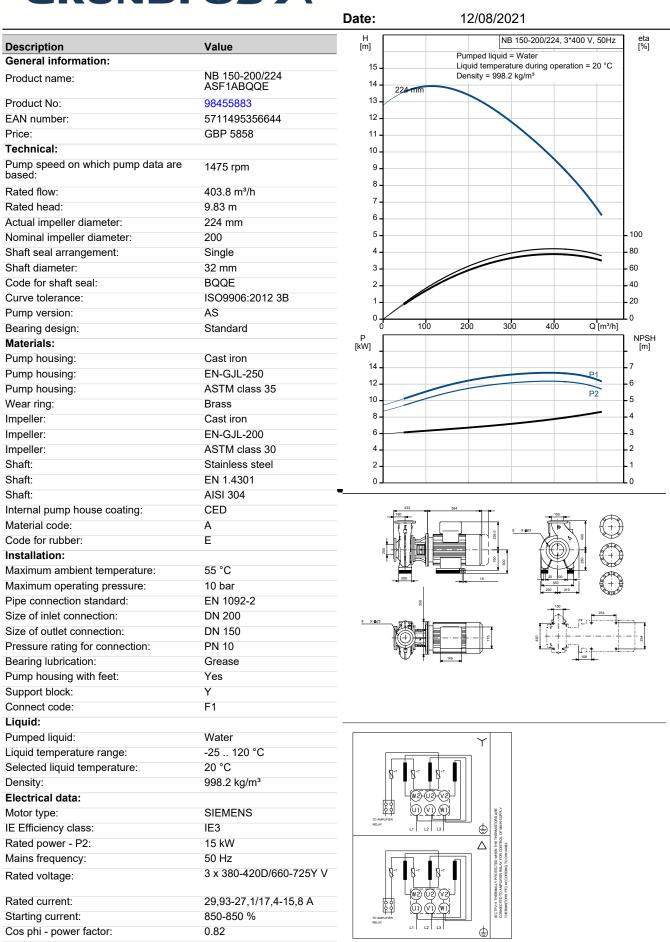
Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Nominal impeller diameter: Shaft seal arrangement: Code for shaft seal: Curve tolerance: Bearing design:	are based: 1475 rpm 403.8 m³/h 9.83 m 224 mm 200 Single BQQE ISO9906:2012 3B Standard
Materials: Pump housing:	Cast iron EN-GJL-250
Wear ring: Impeller: Shaft:	ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30 Stainless steel
Internal pump house coating:	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
ty.	Description			
	Size of inlet connection:	DN 200		
	Size of outlet connection:	DN 150		
	Pressure rating for connection:	PN 10		
	Bearing lubrication:	Grease		
	Pump housing with feet:	Yes		
	Support block:	Y		
	Support block.	T		
	Electrical data:			
	Motor type:	SIEMENS		
	IE Efficiency class:	IE3		
	Rated power - P2:	15 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 380-420D/660-72	25Y V	
	Rated current:	29,93-27,1/17,4-15,8		
	Starting current:	850-850 %		
	Cos phi - power factor:			
		0.82		
	Rated speed:	1475 rpm		
	Efficiency:	IE3 92,1%		
	Motor efficiency at full load:	92.1-92.1 %		
	Motor efficiency at 3/4 load:	92.3-92.3 %		
	Motor efficiency at 1/2 load:	91.5-91.5 %		
	Number of poles:	4		
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor No:	99032190		
	Others:	0.70		
	Minimum efficiency index, MEI ≥			
	Net weight:	311 kg		
	Gross weight:	343 kg		
	Shipping volume:	0.951 m³		
	Country of origin:	HU		
	Custom tariff no.:	84137051		







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Description	Value			
Rated speed:	1475 rpm			
Efficiency:	IE3 92,1%			
Motor efficiency at full load:	92.1-92.1 %			
Motor efficiency at 3/4 load:	92.3-92.3 %			
Motor efficiency at 1/2 load:	91.5-91.5 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor protec:	PTC			
Motor No:	99032190			
Mount. design. acc. IEC 34-7:	IM B35			
Controls:				
Frequency converter:	NONE			
Pressure sensor:	Ν			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	311 kg			
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