

22/12/2022

Qty. | Description

1

## NB 150-250/230 BASF1AESBQQEPW3



Product No.: 98975972

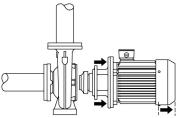
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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.



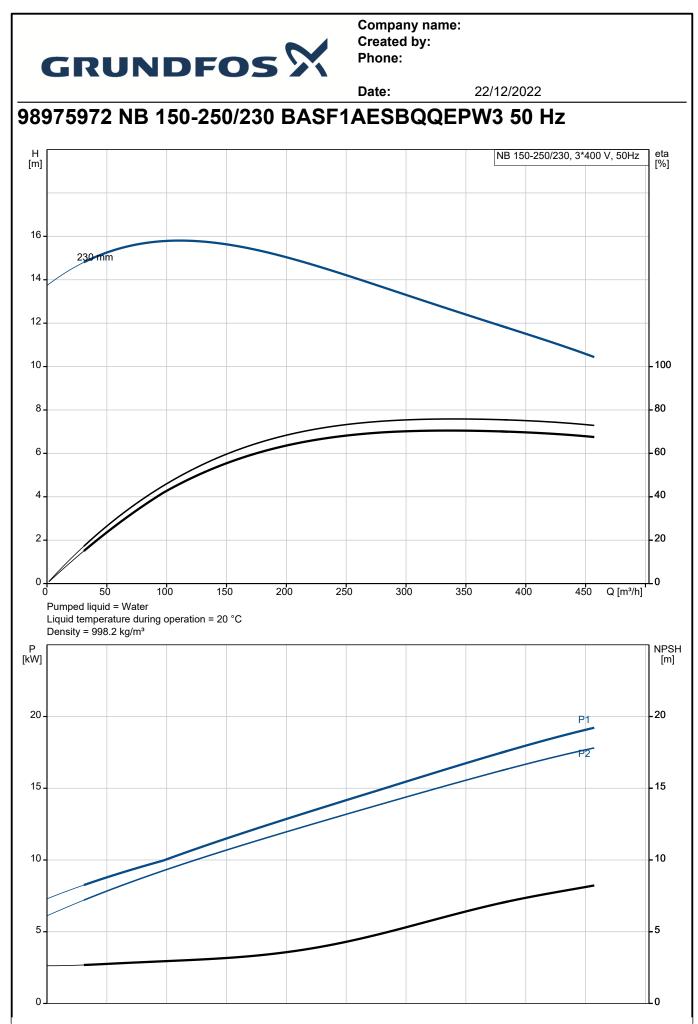
			Date:	22/12/2022				
y.	Description							
	Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.							
	The motor can 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.							
	<b>Further product details</b> 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 a a thin, well-controlled layer on the surface.							
	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 da		rpm					
	Rated flow:	339.7 m³/h						
	Rated head:	12.44 m						
	Actual impeller diameter:	230 mm						
	Nominal impeller diameter: Shaft seal arrangement:	250 Single						
	Code for shaft seal:	Single BQQE						
	Curve tolerance:	ISO9906:2012 3B						
	Bearing design:	Standard						
	Materials:							
	Pump housing:	Cast iron						
	1 5	EN-GJL-250						
	Wear ring:	ASTM class 35 Brass						
	Impeller:	Brass Cast iron						
		EN-GJL-200						
		ASTM class 30						
	Internal pump house coating:	CED						
	Shaft:	Stainless steel						
		EN 1.4301 AISI 304						
	Installation:	55 °C						
	Max. ambient temperature: Maximum operating pressure:	55 °C 10 bar						
	Pipe connection standard:	EN 1092-2						
	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 (Yes/No):	Y						



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Qty.	Description			
1	Electrical data:			
I	Motor type:	SIEMENS		
	IE Efficiency class:	IE3		
	Rated power - P2:	18.5 kW		
		50 Hz		
	Mains frequency: Rated voltage:	3 x 380-420D/660-725	X V/	
	Rated current:		DT V	
		35/20.5 A		
	Starting current:	720-720 %		
	Cos phi - power factor: Rated speed:	0.82		
	Efficiency:	1470 rpm IE3 92,6%		
	Motor efficiency at full load:	92.6-92.6 %		
	Motor efficiency at 3/4 load:	93.1-93.1 %		
		92.9-92.9 %		
	Motor efficiency at 1/2 load:	92.9-92.9 % 4		
	Number of poles:			
	Enclosure class (IEC 34-5):	IP55 F		
	Insulation class (IEC 85): Motor No:	F 99032194		
		STEEL BEARING		
	Bearing insulation type N-end:	STEEL DEARING		
	Others:			
	Minimum efficiency index, MEI ≥:	0.68		
	Net weight:	349 kg		
	Gross weight:	381 kg		
	Shipping volume:	0.951 m <sup>3</sup>		
	Danish VVS No.:	386067253		
	Country of origin:	HU		
	Custom tariff no.:	84137051		





GROND		Date	:	22/12/2	2022		
Description	Value	H [m]			NB 150-250/230	), 3*400 V, 50Hz	eta [%]
General information:							-
Product name:	NB 150-250/230 BASF1AESBQQEPW3	16 -	239 mm				-
Product No:	98975972	14 -					-
EAN number:	5712604553183	12					
Technical:		12 -					-
Pump speed on which pump data are based:	1470 rpm	10 -					- 100
Rated flow:	339.7 m³/h	8-					- 80
Rated head:	12.44 m	6 -					- 60
Actual impeller diameter:	230 mm						
Nominal impeller diameter:	250	4 -					- 40
Shaft seal arrangement:	Single	2 -					- 20
Shaft diameter:	42 mm						
Code for shaft seal:	BQQE	0 <del>_/</del>	50 100 15	0 200 25	0 300 350	400 Q [m³/h]	<b>4</b> 0
Curve tolerance:	ISO9906:2012 3B	P	Pumped liquid = Water				
Pump version:	AS	L	iquid temperature dur		20 °C		
Bearing design:	Standard	C	Density = 998.2 kg/m <sup>3</sup>	1 1			
Materials:		[kW]					[m]
Pump housing:	Cast iron	20 -				P1	20
Pump housing:	EN-GJL-250						
Pump housing:	ASTM class 35	15 -				P2	15
Wear ring:	Brass	- 13					Γ'
Impeller:	Cast iron						
Impeller:	EN-GJL-200	10 -					+ 10
Impeller:	ASTM class 30	—					
Internal pump house coating:	CED	5-					- 5
Material code:	A						
Code for rubber:	E	0					Lo
Shaft:	Stainless steel						
Shaft:	EN 1.4301						
Shaft:	AISI 304						
Installation:			431				
Max. ambient temperature:	55 °C				* × • 23		
Maximum operating pressure:	10 bar						
Pipe connection standard:	EN 1092-2						
Size of inlet connection:	DN 200		200	15	20 100		
Size of outlet connection:	DN 150		150		250 297	C DEC	
Pressure rating for connection:	PN 10		8_X \$23			241 •	
Bearing lubrication:	Grease						
Pump housing with feet:	Yes		FI				
Support block (Yes/No):	Y		Ψ FŢ	164	-	121	
Connect code:	F1						
Liquid:							
Pumped liquid:	Water						
Liquid temperature range:	-25 120 °C			Y			
Selected liquid temperature:	20 °C			I			
Density:	998.2 kg/m³						
Electrical data:	-		¤ ■¤ ■ ₩				
Motor type:	SIEMENS		II Leter	HII			
IE Efficiency class:	IE3			3.A.R.			
Rated power - P2:	18.5 kW		TO AMPLIFIER RELAY L1 L2 L3				
Mains frequency:	50 Hz		`		83		
Rated voltage:	3 x 380-420D/660-725Y V				0 DIN 44		
Rated current:	35/20.5 A		18+T 18+T 18+T	TOTECTER TOTECTER	00000		
Starting current:	720-720 %		II I I	BI ATTW	PTC ACC		
Cos phi - power factor:	0.82				ASTORS -		
Rated speed:	1470 rpm			IEC TP211	THER		
Efficiency:	IE3 92,6%		L1 L2 L3	•			
	123 92,070			J			

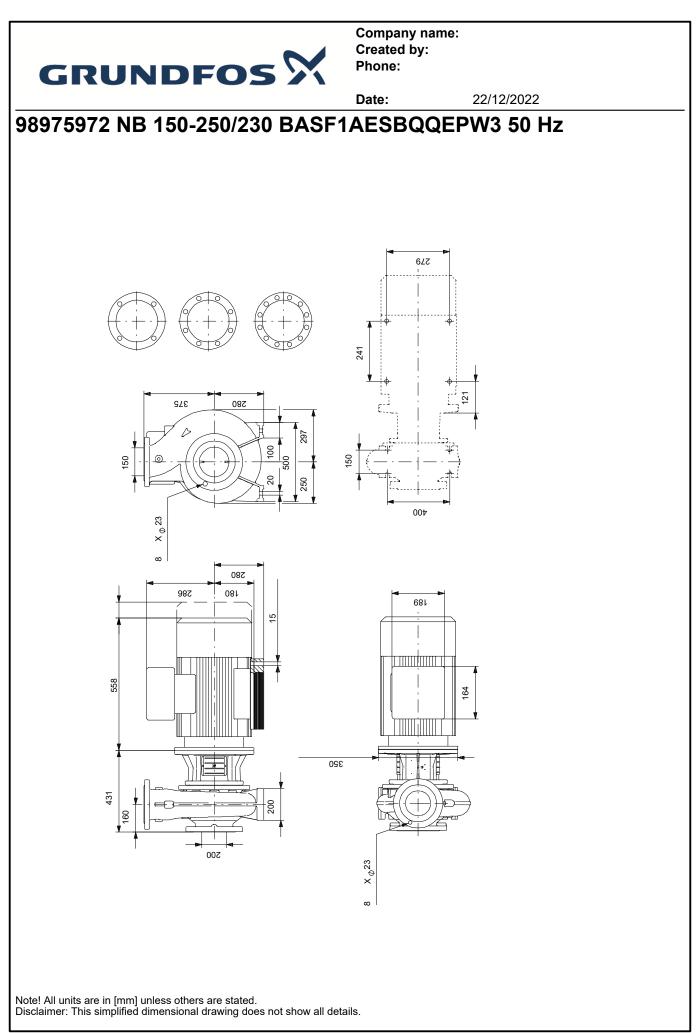
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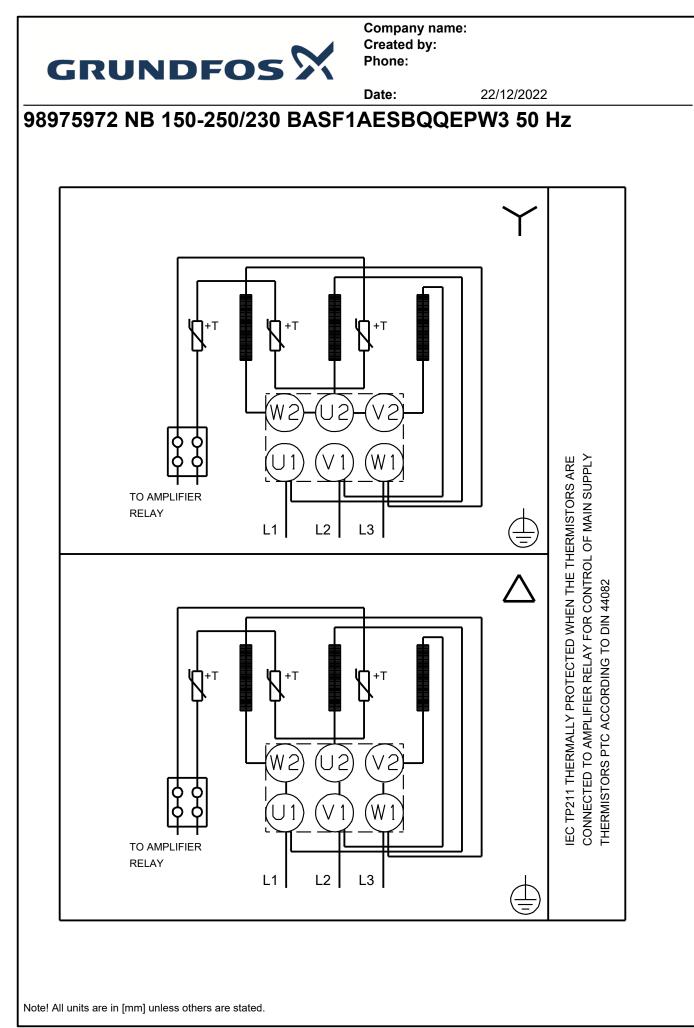


Description	Value
Motor efficiency at full load:	92.6-92.6 %
Motor efficiency at 3/4 load:	93.1-93.1 %
Motor efficiency at 1/2 load:	92.9-92.9 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	99032194
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.68
Net weight:	349 kg
Gross weight:	381 kg
Shipping volume:	0.951 m³
Danish VVS No.:	386067253
Country of origin:	HU
Custom tariff no.:	84137051

Date:

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		NB 150-250/230	1	98975972	Price c reque		