

Date:

28/12/2022

Qty. | Description

1

NB 250-350/330 AASF1AESBQQEPW5



Product No.: 98871350

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

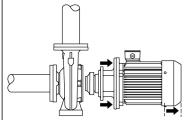
Flanges are PN 10 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

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

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.



Qty. |

1

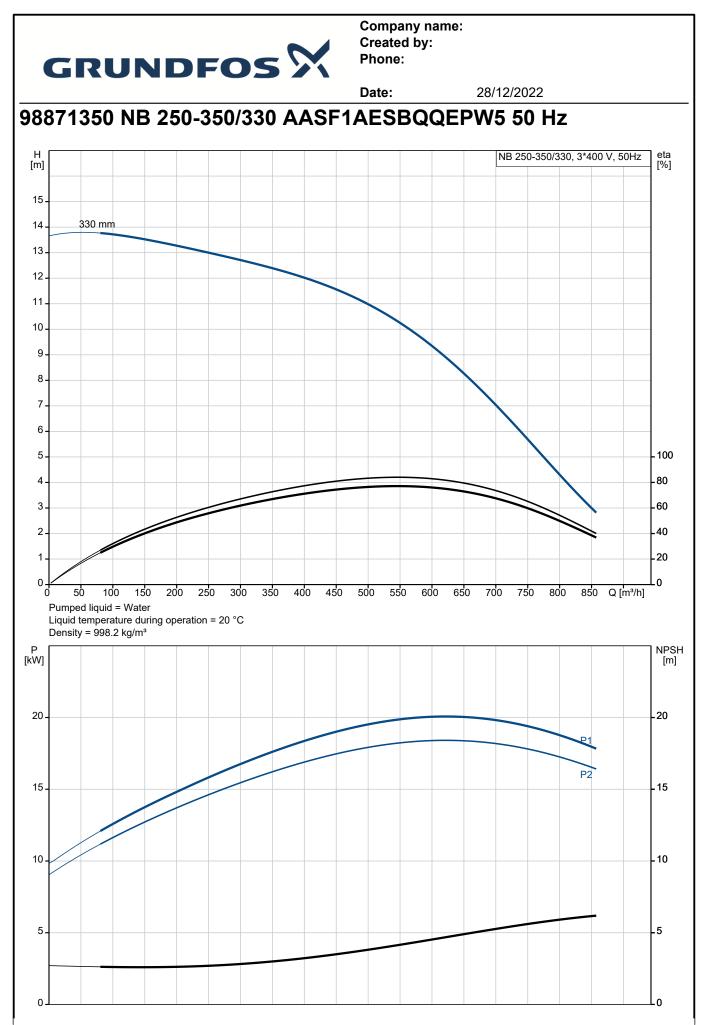
Company name: Created by: Phone:

		Date:	28/12/2022
Description			
The motor has thermistors (PTC reacts to both slow- and quick-ri	sensors) in the windir sing temperatures, e.g	ngs in accordance with . constant overload an	DIN 44081/DIN 44082. The protection d stalled conditions.
Thermal switches must be conn cannot cause accidents. The mo regulations.	ected to an external co otors must be connecte	ontrol circuit in a way w ed to a motor-protective	hich ensures that the automatic reset e circuit breaker according to local
The motor can be connected to Grundfos CUE offers a range of	a variable speed drive variable speed drives.	for adjustment of pum Please find more info	p performance to any duty point. mation in Grundfos Product Center.
Further product details			
Cast-iron parts have an epoxy-b high-quality dip-painting process a thin, well-controlled layer on th	s where an electrical fie	a cathodic electro-dep eld around the products	osition (CED) process. CED is a s ensures deposition of paint particles as
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		
Tachnical			
Technical: Pump speed on which pump dat	ta are based: 978 rp	m	
Rated flow:	542.4 m ³ /h		
Rated head:	10.37 m		
Actual impeller diameter:	330 mm		
Nominal impeller diameter:	350		
Shaft seal arrangement:	Single		
Code for shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B Standard		
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		
1			

Installation: t max amb: 55 °C Maximum operating pressure: 10 bar Pipe connection standard: EN 1092-2 Size of inlet connection: DN 300 Size of outlet connection: DN 250 Pressure rating for connection: PN 10 Bearing lubrication: Grease



	Description	Date:	28/12/2022
•		Vaa	
	Pump housing with feet:	Yes	
	Support block (Yes/No):	Y	
	Electrical data:		
	Motor type:	SIEMENS	
	IE Efficiency class:	IE3 18.5 kW	
	Rated power - P2:		
	Mains frequency:	50 Hz	
	Rated voltage: Rated current:	3 x 380-420D/660-725Y V	
		37.0/21.5 A	
	Starting current: Cos phi - power factor:	560-560 % 0.79	
	Rated speed:		
		978 rpm	
	Efficiency: Motor efficiency at full load:	IE3 91,7% 91.7-91.7 %	
	Motor efficiency at 3/4 load:	92.5-92.5 %	
	Motor efficiency at 1/2 load:	92.3-92.5 % 92.4-92.4 %	
	Number of poles:	92.4-92.4 % 6	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor No:	83W15428	
	Bearing insulation type N-end:	STEEL BEARING	
	bearing insulation type N-end.	STELE DEARING	
	Others:		
	Minimum efficiency index, MEI ≥:	0.70	
	Net weight:	737 kg	
	Gross weight:	783 kg	
	Shipping volume:	1.39 m ³	
	Danish VVS No.:	386069356	





		Н	28/12/2022		
Description	Value	[m]	NB 250-350/330, 3*400 V, 50Hz	eta [%]	
General information:		15 – 14 330 mm			
Product name:	NB 250-350/330 AASF1AESBQQEPW5	13			
Product No:	98871350	12			
EAN number:	5712602713435				
Technical:		9			
Pump speed on which pump data are based:	978 rpm	8-		-	
Rated flow:	542.4 m³/h	6-		1	
Rated head:	10.37 m	5		10	
Actual impeller diameter:	330 mm	4		80	
Nominal impeller diameter:	350	3-		60	
Shaft seal arrangement:	Single	2		40	
Shaft diameter:	48 mm			20	
Code for shaft seal:	BQQE	0 100 200 300 40	00 500 600 700 Q [m³/h]	LΟ	
Curve tolerance:	ISO9906:2012 3B	Pumped liquid = Water			
Pump version:	AS	Liquid temperature during opera	ation = 20 °C		
Bearing design:	Standard	Density = 998.2 kg/m ³			
Materials:		[ĸw]		NP [r	
Pump housing:	Cast iron	20 -		20	
Pump housing:	EN-GJL-250		P1	[
Pump housing:	ASTM class 35	15	P2	15	
Wear ring:	Brass	13		[]3	
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	jë			
Shaft:	EN 1.4301			2	
Shaft:	AISI 304		((
Installation:	AI3I 304	528 611	180 ····	2	
t max amb:	55 °C			2	
Maximum operating pressure:	10 bar			Ś	
Pipe connection standard:	EN 1092-2			D	
Size of inlet connection:	DN 300			50	
Size of outlet connection:	DN 250			E.	
	PN 10		+ 418 += 523 +	ð	
Pressure rating for connection: Bearing lubrication:			150 × 40		
-	Grease			;	
Pump housing with feet: Support block (Yes/No):	Yes Y	<u>12 X g23</u>	38		
Connect code:					
• • • • • • • • • • • • • • • • • • • •	F1				
Liquid:	Watar				
Pumped liquid:	Water				
Liquid temperature range:	-25 120 °C	`	Y		
Selected liquid temperature:	20 °C				
Density:	998.2 kg/m³	\$\vee t			
Electrical data:					
Motor type:	SIEMENS				
IE Efficiency class:	IE3	TO AMPLIFIER	Consistences are consistences are consis		
Rated power - P2:	18.5 kW	L1 L2 L3			
Mains frequency:	50 Hz				
Rated voltage:	3 x 380-420D/660-725Y V		46 TO DR		
Rated current:	37.0/21.5 A		LUPER RI RI LUPER RI RI COORDA		
Starting current:	560-560 %		A PTC A		
Cos phi - power factor:	0.79		IF FIE PASTO		
	070		1 ¥8 E 1		
Rated speed: Efficiency:	978 rpm IE3 91,7%	RELAY	•		

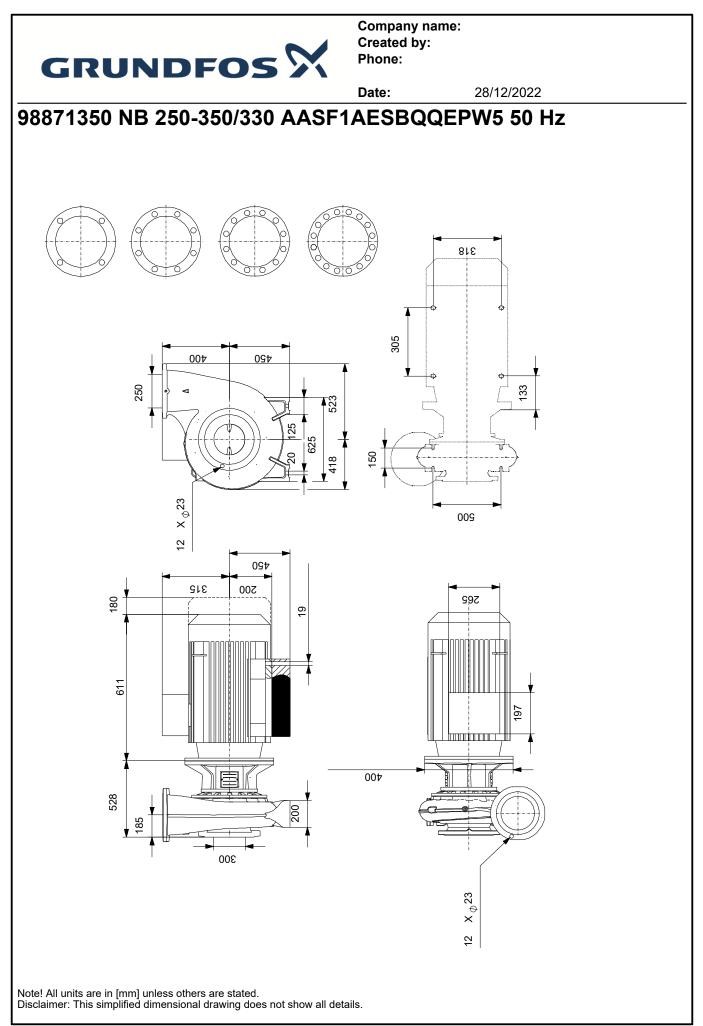
Printed from Grundfos Product Centre [2022.54.006]

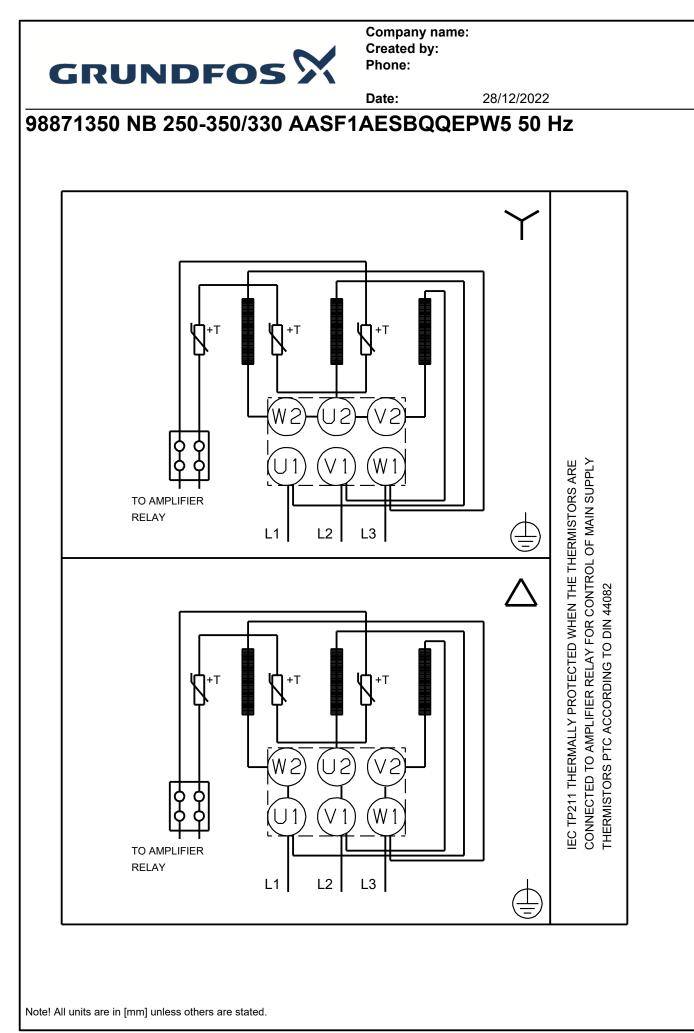
> NPSH [m] . 20



Description	Value
Motor efficiency at full load:	91.7-91.7 %
Motor efficiency at 3/4 load:	92.5-92.5 %
Motor efficiency at 1/2 load:	92.4-92.4 %
Number of poles:	6
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	83W15428
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 ≥:	0.70
Net weight:	737 kg
Gross weight:	783 kg
Shipping volume:	1.39 m³
Danish VVS No.:	386069356

28/12/2022







-

Date: 28/12/2022 Order Data: Context of the second secon					
Position	Your pos.	Product name	Amount	Product No	Total
	•	NB 250-350/330	1	98871350	Price o
					reque