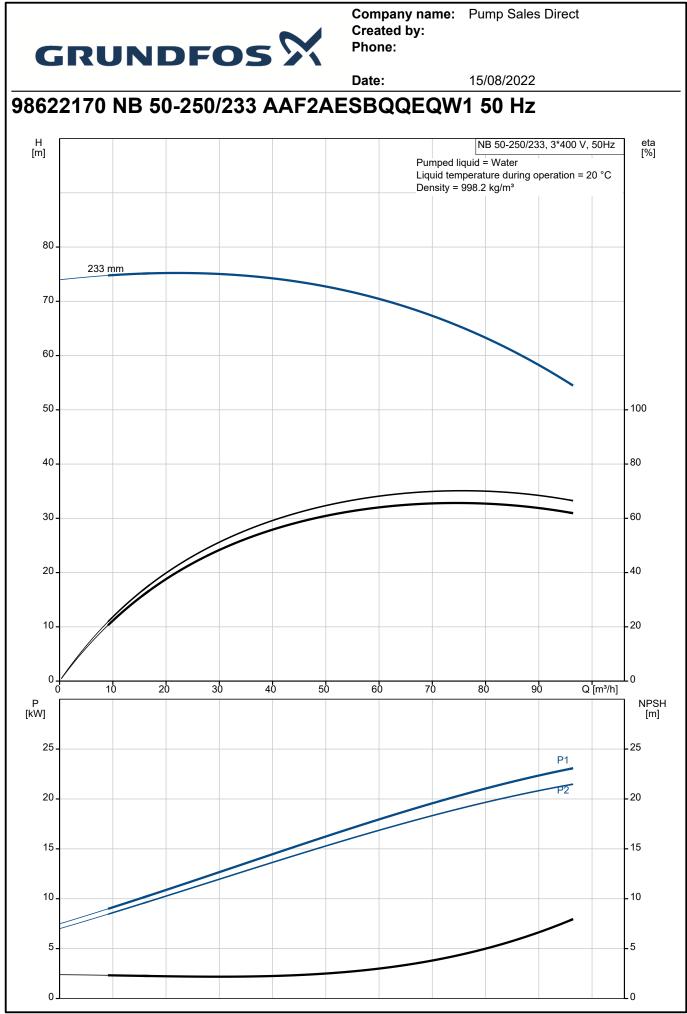




/.	Description							
<u>,</u>	The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.							
	Thermal switches must be connected to an external control 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							
	Cast-iron parts have an epoxy-b high-quality dip-painting process a thin, well-controlled layer on th	where an elect	ade in a ca rical field a	thodic elect round the p	ro-deposition (CED) process. CED is a roducts ensures deposition of paint par	ticles a		
	Technical data							
	Controls:							
	Frequency converter: Pressure sensor:	NONE N						
	Liquid:							
	Pumped liquid:	Water						
	Liquid temperature range:	-25 120 °C						
	Selected liquid temperature: Density:	20 °C 998.2 kg/m³						
	Technical:	Technical:						
	Pump speed on which pump dat		2950 rpm					
	Rated flow: Rated head:	79.04 m³/h 63.43 m						
	Actual impeller diameter:	233 mm						
	Nominal impeller diameter:	250						
	Shaft seal arrangement:	Single						
	Code for shaft seal:	BQQE	2 2 0					
	Curve tolerance: Bearing design:	ISO9906:201 Standard	2 38					
	Materials:	<b>0</b> (1)						
	Pump housing:	Cast iron EN-GJL-250						
		ASTM class 3	5					
	Wear ring:	Brass						
	Impeller:	Cast iron						
		EN-GJL-200						
	Internal pump house coating:	ASTM class 3 CED	50					
	Shaft:	Stainless stee	el					
		EN 1.4301 AISI 304						
	Installation:							
	t max amb: Maximum operating prossure:	60 °C 16 bar						
	Maximum operating pressure: Pipe connection standard:	16 bar EN 1092-2						
	Size of inlet connection:	DN 65						
	Size of outlet connection:	DN 50						
	Pressure rating for connection:	PN 16						
	Bearing lubrication:	Grease						



Date: 15/08/2022 Qty. | Description 1 Pump housing with feet: No Support block (Yes/No): Ν Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V Rated current: 39.5/22.8 A Starting current: 830 % Cos phi - power factor: 0.90-0.90 Rated speed: 2950 rpm Efficiency: IE3 92,7% Motor efficiency at full load: 92.7 % Motor efficiency at 3/4 load: 93.7 % Motor efficiency at 1/2 load: 94.4 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 87470023 Bearing insulation type N-end: STEEL BEARING Others: Minimum efficiency index, MEI ≥: 0.67 Net weight: 185 kg Gross weight: 210 kg Shipping volume: 0.707 m<sup>3</sup> 386062254 Danish VVS No.: Country of origin: ΗU Custom tariff no.: 84137051



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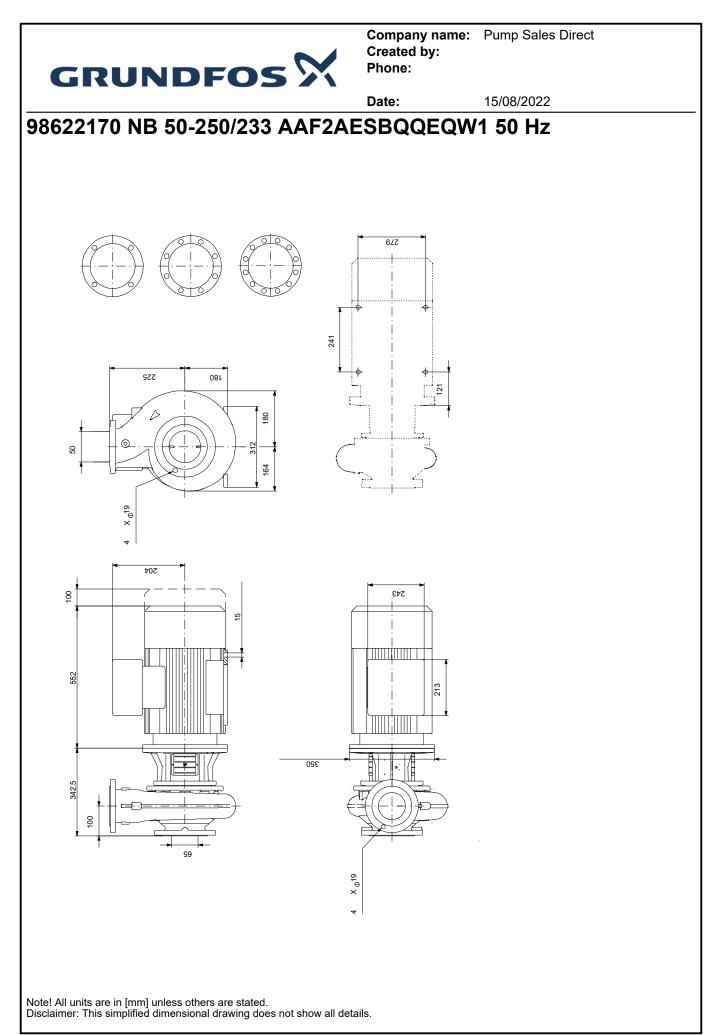


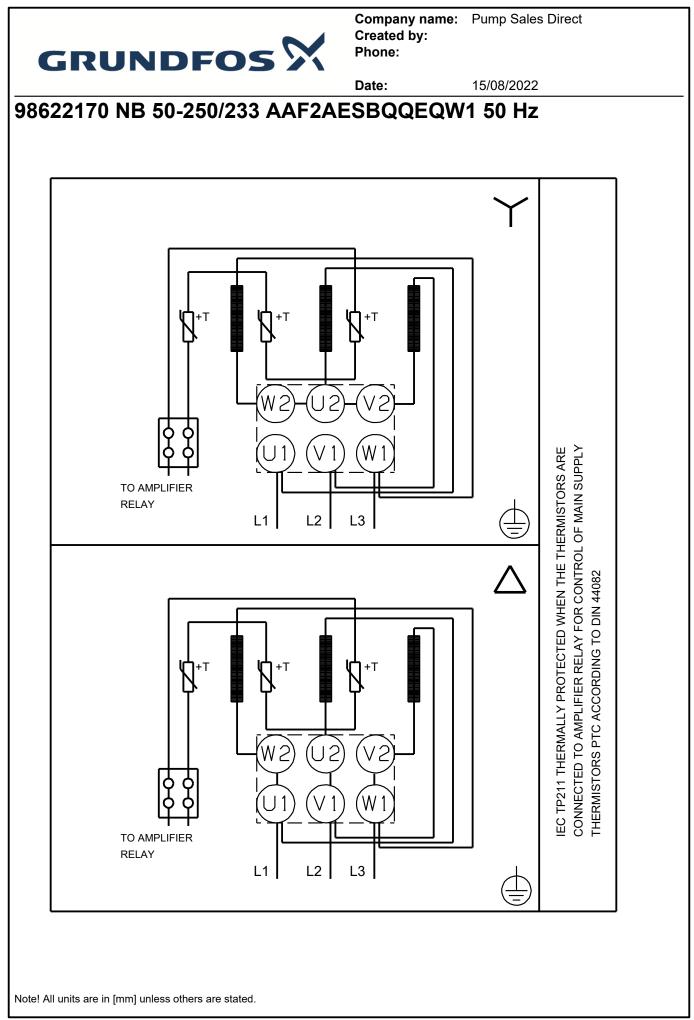
		н	ND 50 050/000 01400 V 5011	eta
Description	Value	[m]	NB 50-250/233, 3*400 V, 50Hz Pumped liquid = Water	[%]
General information:			Liquid temperature during operation = 20 °C	
Product name:	NB 50-250/233 AAF2AESBQQEQW1	80 -	Density = 998.2 kg/m <sup>3</sup>	
Product No:	98622170	233 mr	m	
EAN number:	5711498396715	70 -		
Technical:				
Pump speed on which pump data a based:	are 2950 rpm	60 -		
Rated flow:	79.04 m³/h	50 -		100
Rated head:	63.43 m			
Actual impeller diameter:	233 mm	40	3	80
Nominal impeller diameter:	250			
Shaft seal arrangement:	Single	30 -		60
Shaft diameter:	24 mm			
Code for shaft seal:	BQQE	20	// · · · · · · · · · · · · · · · · · ·	40
Curve tolerance:	ISO9906:2012 3B			00
Pump version:	A	10		20
Bearing design:	Standard	- <u>`</u> /		0
Materials:		0 <u>V</u>	20 40 60 80 Q [m³/h]	J
Pump housing:	Cast iron	P [kW]		NPSF [m]
Pump housing:	EN-GJL-250	25 -	P1 - 2	25
Pump housing:	ASTM class 35			
Wear ring:	Brass	20 -	P2 2	20
Impeller:	Cast iron	15 -		15
Impeller:	EN-GJL-200	10		10
Impeller:	ASTM class 30	10 -		10
Internal pump house coating:	CED	_		
Vaterial code:	A	5 -		5
Code for rubber:	E			0
Shaft:	Stainless steel			
Shaft:	EN 1.4301		16 ft7 m	
Shaft:	AISI 304	100		P
Installation:	A131 304			J
t max amb:	60 °C			R.
Maximum operating pressure:	16 bar	*HQ		J
Pipe connection standard:	EN 1092-2	Ψ		Q
Size of inlet connection:	DN 65			
Size of outlet connection:	DN 50		8	
Pressure rating for connection:	PN 16			1
Bearing lubrication:	Grease	-		50
Pump housing with feet:	No	-0		••
Support block (Yes/No):	N			
Connect code:	F2			
Liquid:	• 2			
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	-25 120 C		Y	
Density:	998.2 kg/m <sup>3</sup>			
Electrical data:	550.2 kg/m	∮ <sup>+</sup>   ∮ <sup>+</sup>		
Motor type:	180MB			
IE Efficiency class:	IE3			
Rated power - P2:	22 kW	TO AMPLIFIER RELAY		
		L1		
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-415D/660-690Y V			
Rated current:	39.5/22.8 A			
Starting current:	830 %	_   _   4@		
Cos phi - power factor:	0.90-0.90	& W		
Rated speed:	2950 rpm	TO AMPLIFIER RELAY		
Efficiency:	IE3 92,7%	i i i		

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		Date:	15/08/2022
Description	Value		
Motor efficiency at full load:	92.7 %		
Motor efficiency at 3/4 load:	93.7 %		
Motor efficiency at 1/2 load:	94.4 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	87470023		
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 ≥:	0.67		
Net weight:	185 kg		
Gross weight:	210 kg		
Shipping volume:	0.707 m³		
Danish VVS No.:	386062254		
Country of origin:	HU		
Custom tariff no.:	84137051		







		DECS 21	<b>e:</b>	5/08/2022	
Order Data:					
Position	Your pos.	Product name	Amount	Product No	Total
		NB 50-250/233	1	98622170	Price o reques