

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.



Company name: Created by: Phone:

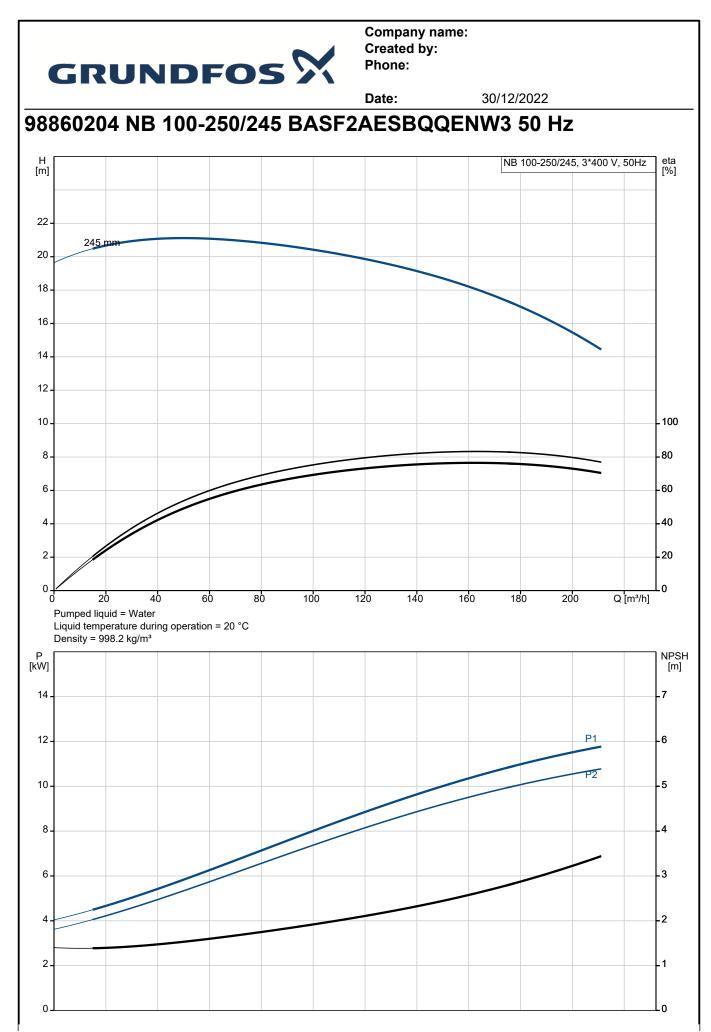
				D	ate:		30/12/2022
.	Description						
	The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.						
Thermal switches must be connected to an external 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 elec	na ctri	de in a ca cal field a	athodic (around t	electro-depo he products	osition (CED) process. CED is a s ensures deposition of paint particles
	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/m ³					
	Technical:						
	Pump speed on which pump dat		1	475 rpm			
	Rated flow:	162.2 m³/h					
	Rated head:	17.9 m 245 mm					
	Actual impeller diameter: Nominal impeller diameter:	245 mm 250					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	BQQE					
l	Curve tolerance:	ISO9906:20	12	3B			
	Bearing design:	Standard					
	Materials:						
	Pump housing:	Cast iron					
		EN-GJL-250					
		ASTM class	35	5			
I	Wear ring:	Brass Cost iron					
	Impeller:	Cast iron EN-GJL-200	,				
		ASTM class)			
I	Internal pump house coating:	CED	00				
	Shaft:	Stainless ste	eel				
		EN 1.4301 AISI 304					
I	Installation:	55 °C					
	t max amb: Maximum operating pressure:	55 °C 16 bar					
	Pipe connection standard:	EN 1092-2					
	Size of inlet connection:	DN 125					
	Size of outlet connection:	DN 100					
	Pressure rating for connection:	PN 16					
1	Bearing lubrication:	Grease					

Grease

Bearing lubrication:



Description Pump housing with feet: Support block (Yes/No):	Yes Y	
Support block (Yes/No):		
Support block (Yes/No):	Y	
	•	
Electrical data:		
Motor type:	SIEMENS	
IE Efficiency class:	IE3	
Rated power - P2:	11 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-420D/660-725Y V	
Rated current:	20.5/12 A	
Starting current:	680-680 %	
Cos phi - power factor:	0.84	
Rated speed:	1475 rpm	
Efficiency:	IE3 91,4%	
Motor efficiency at full load:	91.4-91.4 %	
Motor efficiency at 3/4 load:	91.9-91.9 %	
Motor efficiency at 1/2 load:	91.4-91.4 %	
Number of poles:	4	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Motor No:	99032187	
Bearing insulation type N-end:	Ν	
Minimum efficiency index, MEI ≥ Net weight: Gross weight:	218 kg 243 kg	
Shipping volume:	0.707 m ³	
Danish VVS No.:	386065257	





		Date: 30/12/2022				
Description	Value	H [m] NB 100-250/245, 3*400 V, 50Hz [%]				
General information:						
Product name:	NB 100-250/245 BASF2AESBQQENW3	22 20245 mm				
Product No:	98860204	18				
EAN number:	5712602524185	16				
Technical:		14				
Pump speed on which pump data are based:	1475 rpm	12				
Rated flow:	162.2 m³/h	10)0			
Rated head:	17.9 m	8)			
Actual impeller diameter:	245 mm	6)			
Nominal impeller diameter:	250	4 40	J			
Shaft seal arrangement:	Single	2- 20	,			
Shaft diameter:	32 mm		,			
Code for shaft seal:	BQQE	0 1 0 150 Q [m ³ /h]				
Curve tolerance:	ISO9906:2012 3B	Pumped liquid = Water				
Pump version:	AS	Liquid temperature during operation = 20 °C Density = 998.2 kg/m³				
Bearing design:	Standard	P NP	PSH			
Materials:			[m]			
Pump housing:	Cast iron	12 P1 6				
Pump housing:	EN-GJL-250					
Pump housing:	ASTM class 35	10				
Wear ring:	Brass	8				
Impeller:	Cast iron					
Impeller:	EN-GJL-200	6				
Impeller:	ASTM class 30	4				
Internal pump house coating:	CED	2				
Material code:	Α					
Code for rubber:	E	0				
Shaft:	Stainless steel					
Shaft:	EN 1.4301					
Shaft:	AISI 304					
Installation:						
t max amb:	55 °C					
Maximum operating pressure:	16 bar					
Pipe connection standard:	EN 1092-2					
Size of inlet connection:	DN 125					
Size of outlet connection:	DN 100					
Pressure rating for connection:	PN 16					
Bearing lubrication:	Grease					
Pump housing with feet:	Yes					
Support block (Yes/No):	Υ					
Connect code:	F2					
Liquid:						
Pumped liquid:	Water					
Liquid temperature range:	-25 120 °C	Y				
Selected liquid temperature:	20 °C					
Density:	998.2 kg/m³					
Electrical data:						
Motor type:	SIEMENS	↓ ↓@~@~@~				
IE Efficiency class:	IE3					
Rated power - P2:	11 kW					
Mains frequency:	50 Hz					
Rated voltage:	3 x 380-420D/660-725Y V					
Rated current:	20.5/12 A					
Starting current:	680-680 %					
Cos phi - power factor:	0.84					
Rated speed:	1475 rpm					
Efficiency:	IE3 91,4%					

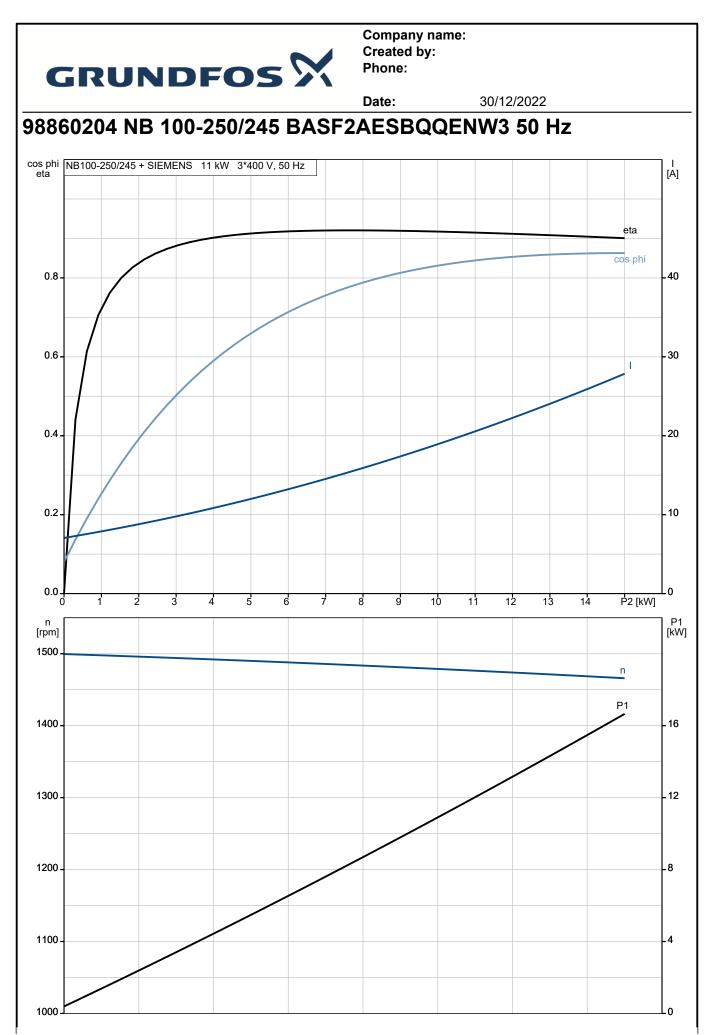
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Date:

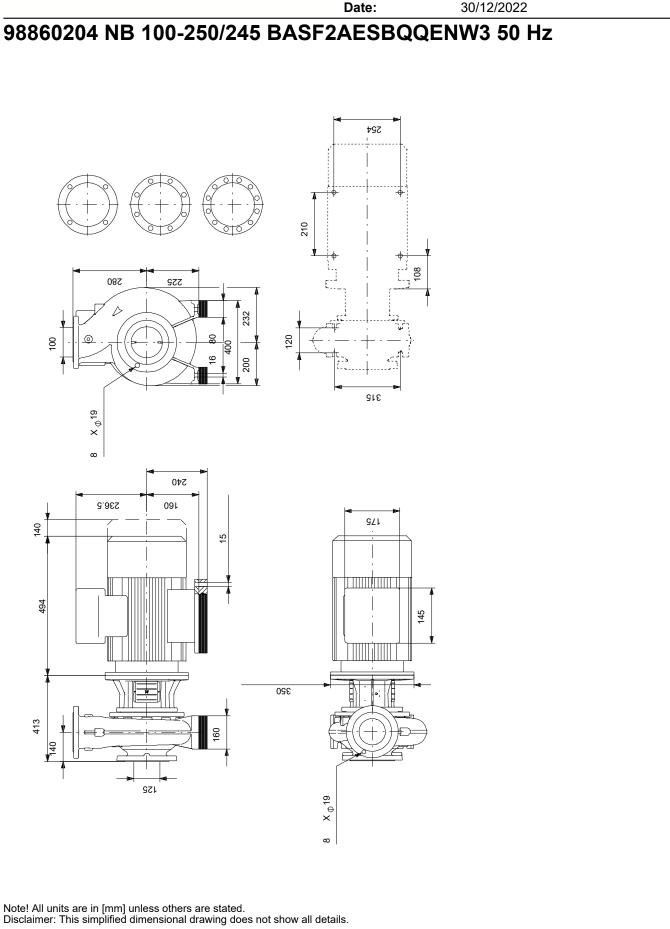
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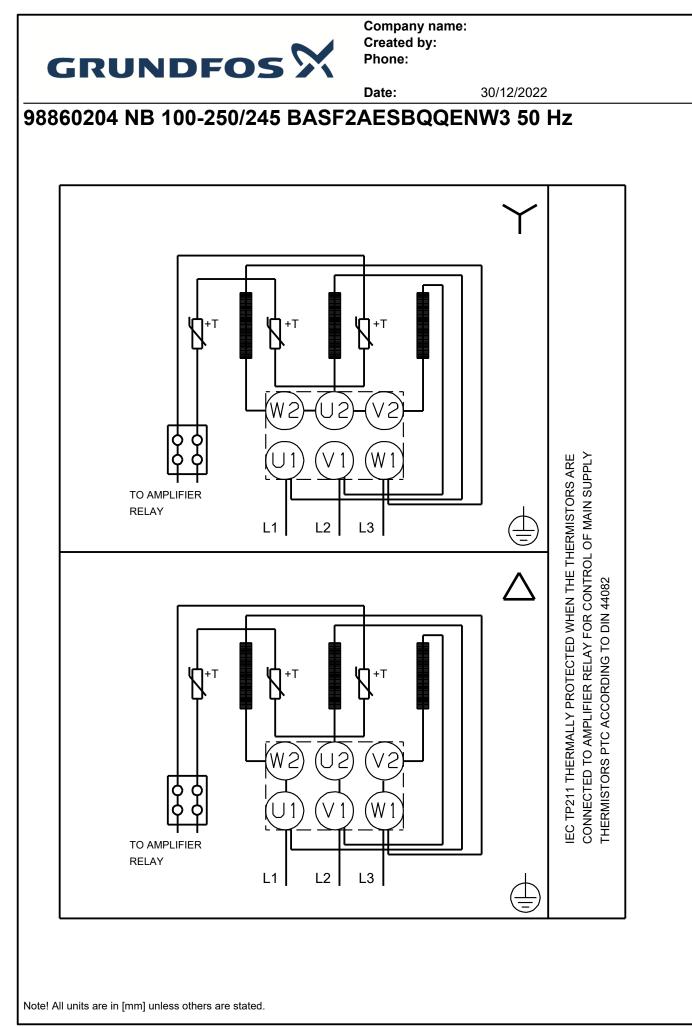
Description	Value
Motor efficiency at full load:	91.4-91.4 %
Motor efficiency at 3/4 load:	91.9-91.9 %
Motor efficiency at 1/2 load:	91.4-91.4 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	99032187
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	Ν
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	218 kg
Gross weight:	243 kg
Shipping volume:	0.707 m ³
Danish VVS No.:	386065257





30/12/2022







30/12/2022 Date: **Order Data:** Product name Amount | Product No | Total

Position	Your pos.	Product name	Amount	Product No	Total
		NB 100-250/245	1	98860204	Price on request