

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.



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	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.						
	Further product details 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.						
	Technical data						
	Controls:	NONE					
	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:						
	Pump speed on which pump dat	a are based: 146	65 rpm				
	Rated flow:	47.49 m³/h					
	Rated head:	32.97 m					
	Actual impeller diameter:	331 mm					
	Nominal impeller diameter: Shaft seal arrangement:	315 Single					
	Code for shaft seal:	Single BQQE					
	Curve tolerance:	ISO9906:2012 3E	32				
	Bearing design:	Standard					
	Materials:						
	Pump housing:	Cast iron EN-GJL-250 ASTM class 35					
	Wear ring:	Brass					
	Impeller:	Cast iron					
		EN-GJL-200					
	Internal nume house another	ASTM class 30					
	Internal pump house coating: Shaft:	CED Stainless steel					
	onun.	EN 1.4301					
		AISI 304					
	Installation:						
	t max amb:	55 °C					
	Maximum operating pressure:	16 bar					
	Pipe connection standard:	EN 1092-2					
	Size of inlet connection: Size of outlet connection:	DN 65 DN 50					
	Pressure rating for connection:	DN 50 PN 16					
	Bearing lubrication:	Grease					
	Pump housing with feet:	Yes					
	Support block (Yes/No):	Ν					



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Description

Electrical data: Motor type:

Rated voltage: Rated current:

Rated speed:

Efficiency:

Motor No:

Others:

Net weight:

Gross weight:

Shipping volume:

Danish VVS No.:

Bearing insulation type N-end:

Minimum efficiency index, MEI ≥: 0.70

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28/12/2022

SIEMENS IE Efficiency class: IE3 Rated power - P2: 7.5 kW Mains frequency: 50 Hz 3 x 380-420D/660-725Y V 14.3/8.3 A Starting current: 820-820 % Cos phi - power factor: 0.84 1465 rpm IE3 90,4% Motor efficiency at full load: 90.4-90.4 % Motor efficiency at 3/4 load: 91.1-91.1 % Motor efficiency at 1/2 load: 90.8-90.8 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F

83V15222

165 kg

187 kg

0.509 m³

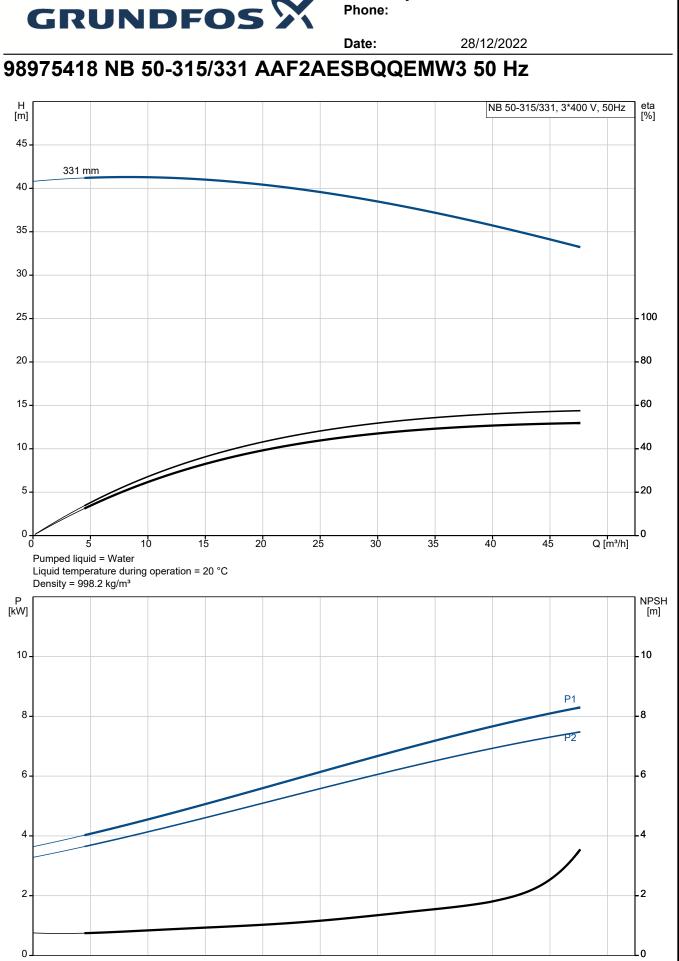
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Date:



Company name: Created by:





Company name: Created by: Phone:

		Date:	28/12/2022			
Description	Value	H [m]	NB 50-315/331, 3*400 V, 50Hz [%]			
General information:						
Product name:	NB 50-315/331 AAF2AESBQQEMW3	40 - 33 <u>1 mm</u>				
Product No:	98975418	35				
EAN number:	5712604542132	30 -				
Technical:						
Pump speed on which pump data are based:	1465 rpm	25 -	100			
Rated flow:	47.49 m³/h	20 -				
Rated head:	32.97 m	15 -	60			
Actual impeller diameter:	331 mm					
Nominal impeller diameter:	315	10-	40			
Shaft seal arrangement:	Single	5-	20			
Shaft diameter:	32 mm					
Code for shaft seal:	BQQE	0 5 10	15 20 25 30 35 40 Q [m³/h]			
Curve tolerance:	ISO9906:2012 3B2	Pumped liquid = W	/ater			
Pump version:	A	Liquid temperature	e during operation = 20 °C			
Bearing design:	Standard	Density = 998.2 kg	ym ³			
Materials:		[kW]	[m]			
Pump housing:	Cast iron	10				
Pump housing:	EN-GJL-250	-	P1			
Pump housing:	ASTM class 35	8-	P2 8			
Wear ring:	Brass	6 -	P2 6			
Impeller:	Cast iron	0	-0			
Impeller:	EN-GJL-200	4	4			
Impeller:	ASTM class 30	_				
Internal pump house coating:	CED	2-	2			
Material code:	А					
Code for rubber:	E	0	Lo			
Shaft:	Stainless steel					
Shaft:	EN 1.4301	368	435 140			
Shaft:	AISI 304	125				
Installation:						
t max amb:	55 °C					
Maximum operating pressure:	16 bar					
Pipe connection standard:	EN 1092-2					
Size of inlet connection:	DN 65	125				
Size of outlet connection:	DN 50					
Pressure rating for connection:	PN 16	×	1			
Bearing lubrication:	Grease					
Pump housing with feet:	Yes					
Support block (Yes/No):	Ν	───────────				
Connect code:	F2					
Liquid:						
Pumped liquid:	Water					
Liquid temperature range:	-25 120 °C		Y			
Selected liquid temperature:	20 °C		<u>→</u> ' _			
Density:	998.2 kg/m³					
Electrical data:		₽ ₽ ₽ ₽				
Motor type:	SIEMENS		907			
IE Efficiency class:	IE3					
Rated power - P2:	7.5 kW	TO AMPLIFIER RELAY L1 L2				
Mains frequency:	50 Hz					
Rated voltage:	3 x 380-420D/660-725Y V					
Rated current:	14.3/8.3 A	₿ ^{+⊤} ₿ ^{+⊤}				
Starting current:	820-820 %					
Cos phi - power factor:	0.84					
Rated speed:	1465 rpm	TO AMPLIFIER RELAY				
Efficiency:	IE3 90,4%	L1 L2				

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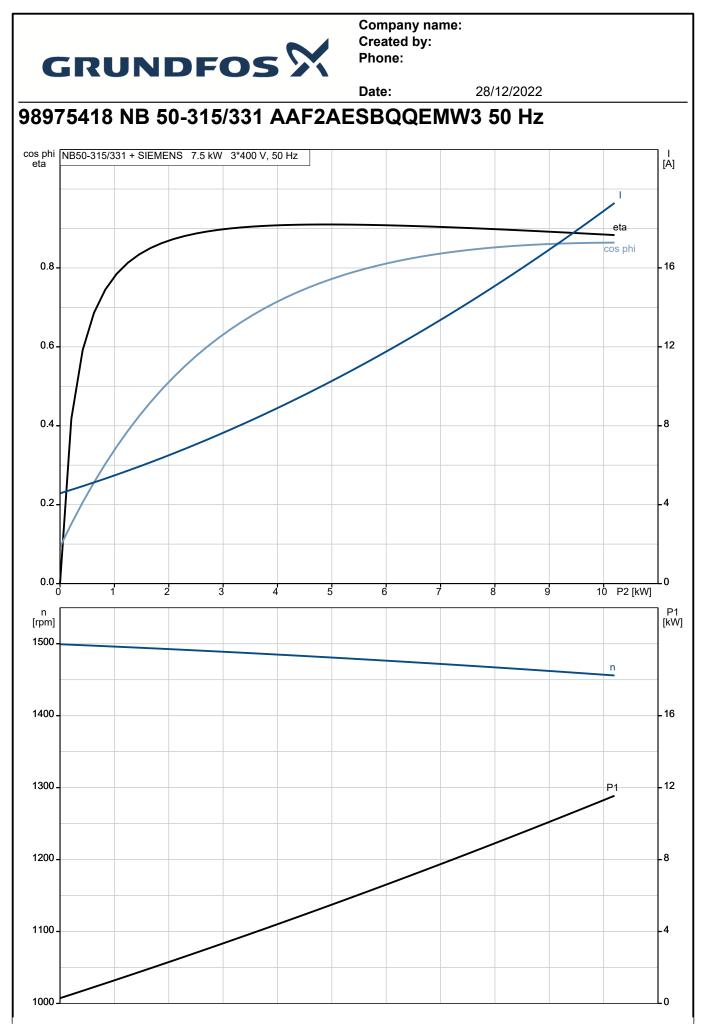


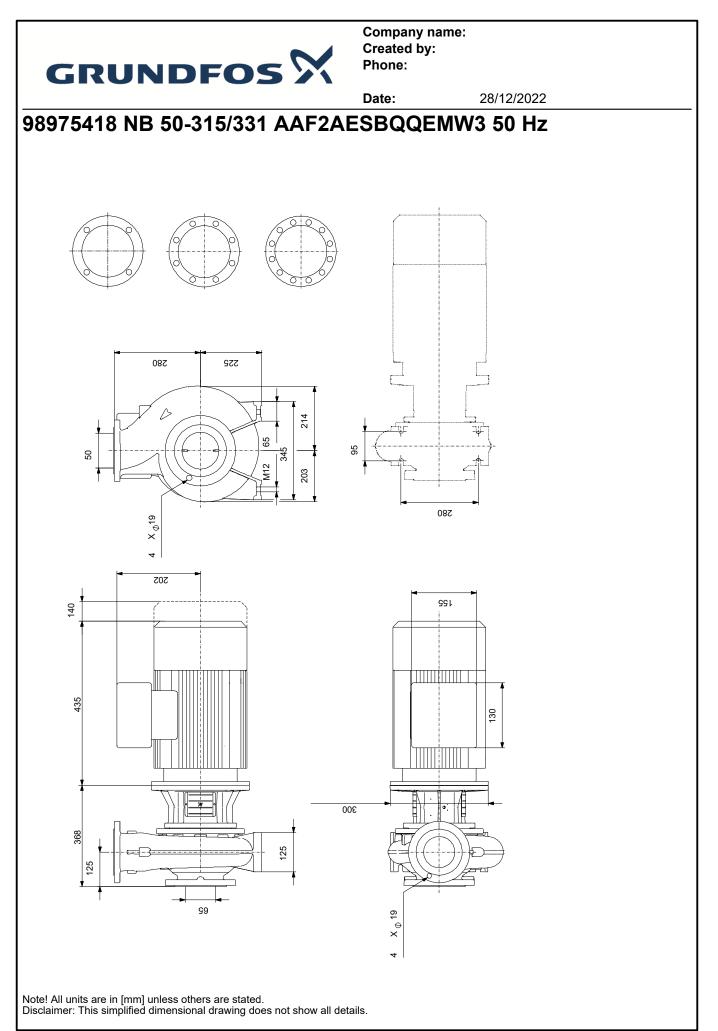
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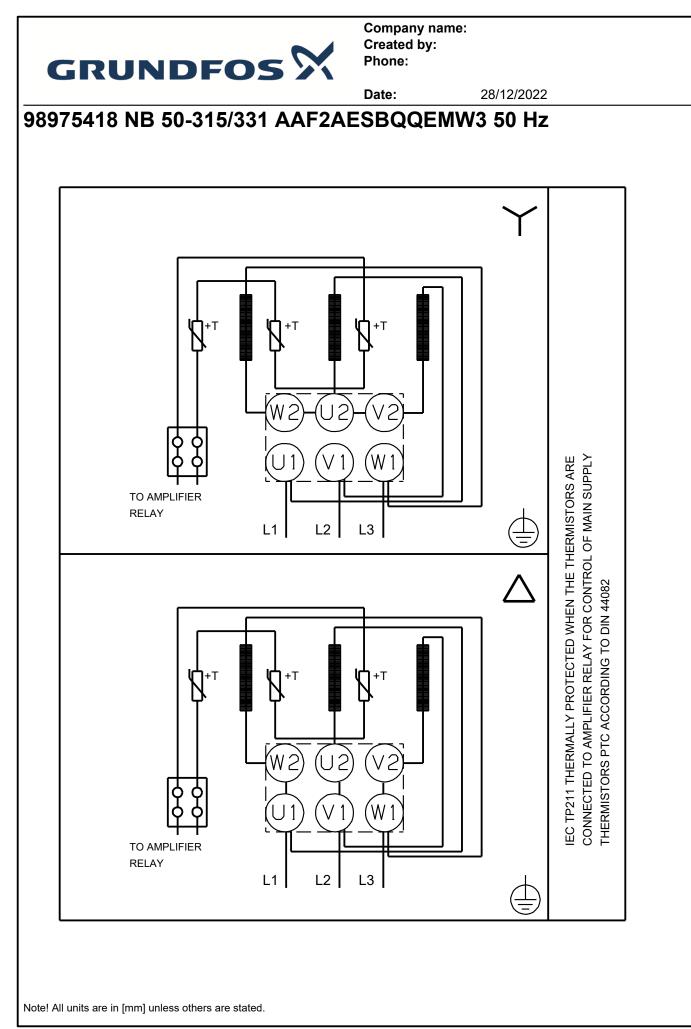
Date:

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Description	Value
Motor efficiency at full load:	90.4-90.4 %
Motor efficiency at 3/4 load:	91.1-91.1 %
Motor efficiency at 1/2 load:	90.8-90.8 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	83V15222
Mount. design. acc. IEC 34-7:	IM V1
Bearing insulation type N-end:	Ν
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	165 kg
Gross weight:	187 kg
Shipping volume:	0.509 m³
Danish VVS No.:	386062322









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Position

Company name: Created by: Phone:

28/12/2022 Date: **Order Data: Product name Product No** Total Amount NB 50-315/331 1 98975418 Price on request

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