



15/08/2022

Qty. | Description

1 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.

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

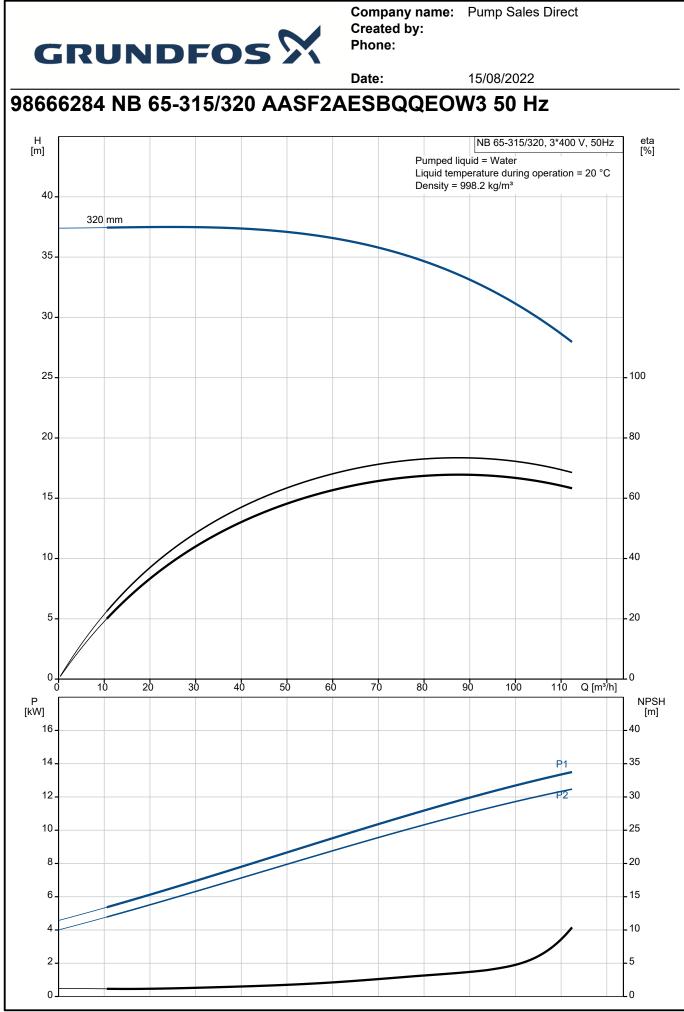
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

Technical data

Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Rated head: Actual impeller diameter: Nominal impeller diameter: Shaft seal arrangement: Code for shaft seal: Curve tolerance: Bearing design:	are based: 1475 rpm 91.96 m³/h 32.28 m 320 mm 315 Single BQQE ISO9906:2012 3B Standard
Materials: Pump housing: Wear ring: Impeller:	Cast iron EN-GJL-250 ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30
Internal pump house coating: Shaft:	CED Stainless steel EN 1.4301 AISI 304
Installation: t max amb: Maximum operating pressure: Pipe connection standard:	55 °C 16 bar EN 1092-2



			Date:	15/08/2022	
ty.	Description				
	Size of inlet connection:	DN 80			
	Size of outlet connection:	DN 65			
	Pressure rating for connection:	PN 16			
	Bearing lubrication:	Grease			
	Pump housing with feet:	Yes			
	Support block (Yes/No):	Y			
	Support block (Teshio).	I			
	Electrical data:				
	Motor type:	SIEMENS			
	IE Efficiency class:	IE3			
	Rated power - P2:	15 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-420D/660	725V \/		
	Rated current:	28.5/16.6 A	7201 V		
	Starting current:	850-850 %			
	Cos phi - power factor:	0.82			
	Rated speed:	1475 rpm			
	Efficiency:	IE3 92,1%			
	Motor efficiency at full load:	92.1-92.1 %			
	Motor efficiency at 3/4 load:	92.3-92.3 %			
	Motor efficiency at 1/2 load:	91.5-91.5 %			
	Number of poles:	4			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	99032190			
	Bearing insulation type N-end:	Ν			
	Others:				
	Minimum efficiency index, MEI ≥	0.70			
	Net weight:	221 kg			
	Gross weight:	246 kg			
	Shipping volume:	0.707 m ³			
	Danish VVS No.:	386063323			
	Country of origin:	HU			
	Custom tariff no.:	84137051			



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		нг	NR 65 315/320 3*400 V 501-	eta
Description	Value	[m]	NB 65-315/320, 3*400 V, 50Hz Pumped liquid = Water	eta [%]
General information:		40 -	Liquid temperature during operation = 20 °C	
Product name:	NB 65-315/320 AASF2AESBQQEOW3	320 m	m Density = 998.2 kg/m ³	
Product No:	98666284	35 -		
EAN number:	5711499219976			
Technical:		30 -		
Pump speed on which pump data are based:	1475 rpm	25 -		- 100
Rated flow:	91.96 m³/h			
Rated head:	32.28 m	20 -		- 80
Actual impeller diameter:	320 mm			
Nominal impeller diameter:	315	15 _		- 60
Shaft seal arrangement:	Single			
Shaft diameter:	32 mm	10 -		- 40
Code for shaft seal:	BQQE			-40
Curve tolerance:	ISO9906:2012 3B	//		
Pump version:	AS	5-		- 20
Bearing design:	Standard	— //		
Materials:	Standard		20 40 60 80 100 Q [m³/h]	Lo
Pump housing:	Cast iron	P [kW]		NPSH
Pump housing:	EN-GJL-250	[KW]		[m]
	ASTM class 35	14	P1	- 35
Pump housing:		12	P2	- 30
Wear ring:	Brass	10 -		- 25
Impeller:	Cast iron EN-GJL-200	8 -		- 20
Impeller:		6 -		- 15
Impeller:	ASTM class 30	4		
Internal pump house coating:	CED			- 10
Material code:	A	2 -		- 5
Code for rubber:	E	0		Lo
Shaft:	Stainless steel			
Shaft:	EN 1.4301	398		`
Shaft:	AISI 304	142		"
Installation:				2
t max amb:	55 °C	*+ []		9
Maximum operating pressure:	16 bar	160		2
Pipe connection standard:	EN 1092-2			9
Size of inlet connection:	DN 80		g	
Size of outlet connection:	DN 65	<u>4 × ●19</u>		•
Pressure rating for connection:	PN 16			
Bearing lubrication:	Grease			
Pump housing with feet:	Yes	Ψ		
Support block (Yes/No):	Y			
Connect code:	F2			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C		Y	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	k 1 +⊤ ∎ k1	-т В П - Т	
Electrical data:				
Motor type:	SIEMENS		୬୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦	
IE Efficiency class:	IE3	TO AMPLIFIER		
Rated power - P2:	15 kW	RELAY L1		
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V			
Rated current:	28.5/16.6 A	₿ 8		
Starting current:	850-850 %			
Cos phi - power factor:	0.82			
Rated speed:	1475 rpm	TO AMPLIFIER RELAY		
Efficiency:	IE3 92,1%	Paraditi		

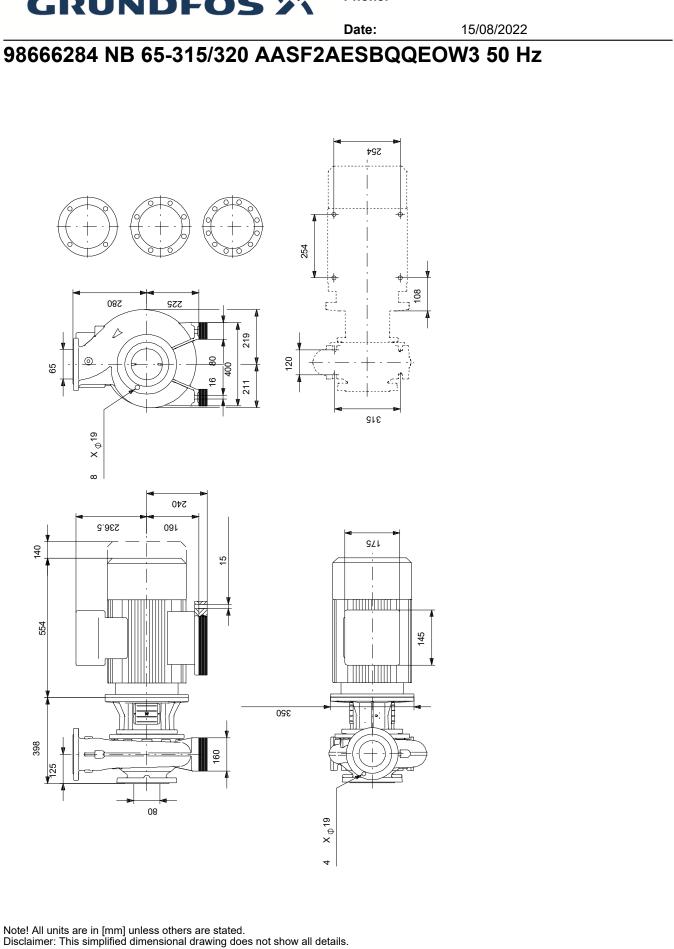
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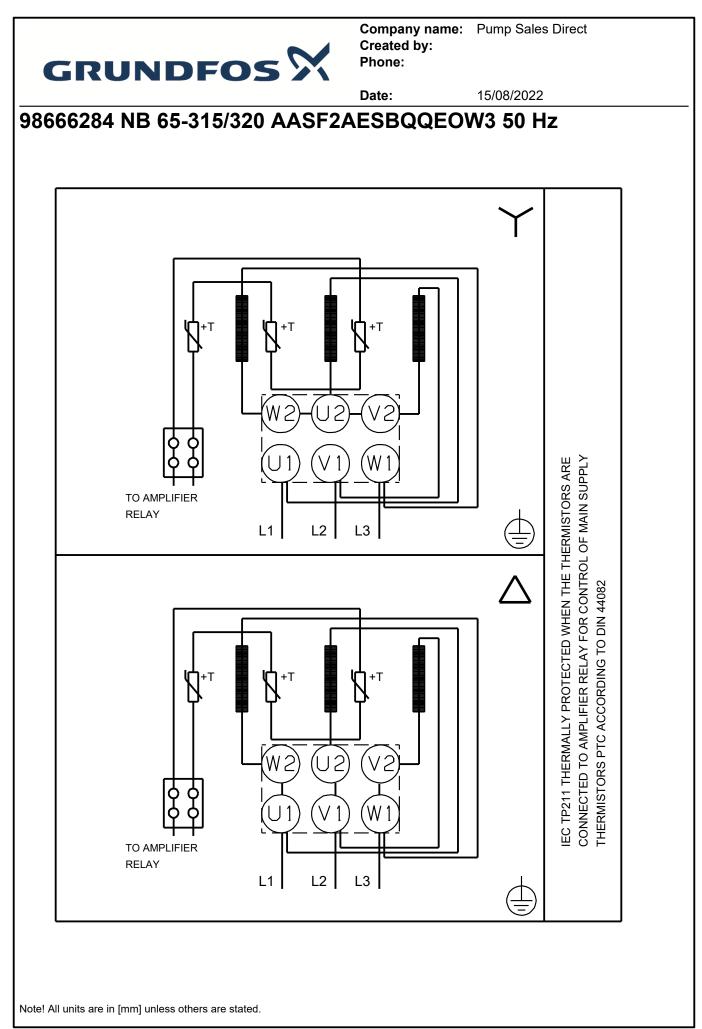


15/08/2022

		Date:
Description	Value	
Motor efficiency at full load:	92.1-92.1 %	
Motor efficiency at 3/4 load:	92.3-92.3 %	
Motor efficiency at 1/2 load:	91.5-91.5 %	
Number of poles:	4	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	PTC	
Motor No:	99032190	
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:	221 kg	
Gross weight:	246 kg	
Shipping volume:	0.707 m³	
Danish VVS No.:	386063323	
Country of origin:	HU	
Custom tariff no.:	84137051	









Date: 15/08/2022						
Order Data:						
Position	Your pos.	Product name	Amount	Product No	Total	
		NB 65-315/320	1	98666284	Price on request	