



Description 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 fifciency 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. A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing. Purther 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 a thin, well-controlled layer on the surface. Purtical data Controls: Frequency converter: NONE Pressure sensor: N Liquid: Yater Liquid temperature: 20 °C Density: 998.2 kg/m ³ Technical: Pump speed on which pump data are based: 2982 rpm
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The motor has thermistors (PTC sensors) in the windings in accordance with 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. A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.
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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
Installation:

Maximum operating pressure:

Pipe connection standard:

Size of inlet connection:

t max amb:

55 °C

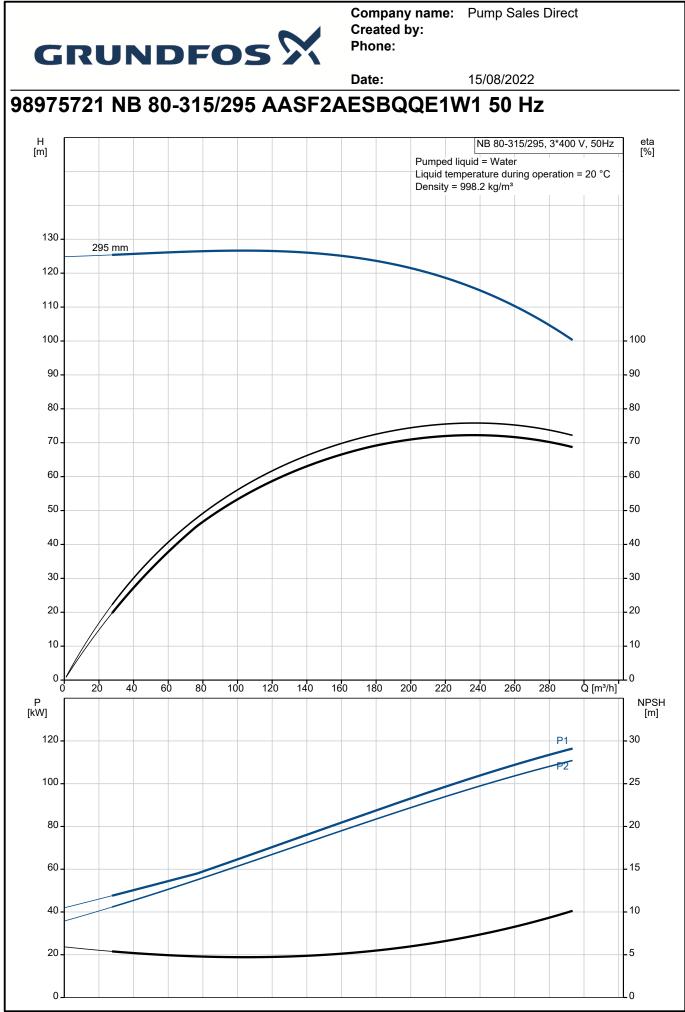
16 bar

DN 100

EN 1092-2



			Date:	15/08/2022
Qty.	Description			
1	Size of outlet connection:	DN 80		
	Pressure rating for connection:	PN 16		
	Bearing lubrication:	Grease		
	Pump housing with feet:	Yes		
	Support block (Yes/No):	Y		
	Electrical data:			
	Motor type:	SIEMENS		
	IE Efficiency class:	IE3		
	Rated power - P2:	110 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 380-420D/660-	725Y V	
	Rated current:	183/106 A		
	Starting current:	710-710 %		
	Cos phi - power factor:	0.91		
	Rated speed:	2982 rpm		
	Efficiency:	IE3 95,2%		
	Motor efficiency at full load:	95.2-95.2 %		
	Motor efficiency at 3/4 load:	95.4-95.4 %		
	Motor efficiency at 1/2 load:	94.9-94.9 %		
	Number of poles:	2		
	Enclosure class (IEC 34-5):	– IP55		
	Insulation class (IEC 85):	F		
	Motor No:	83U15444		
	Bearing insulation type N-end:	STEEL BEARING		
	Others: Minimum efficiency index, MEI ≥:	0.68		
	Net weight:	959 kg		
	Gross weight:	1010 kg		
	Shipping volume:	1.38 m ³		
	Danish VVS No.:	386064318		
	Country of origin:	HU		
	Custom tariff no.:	84137051		
		04137031		



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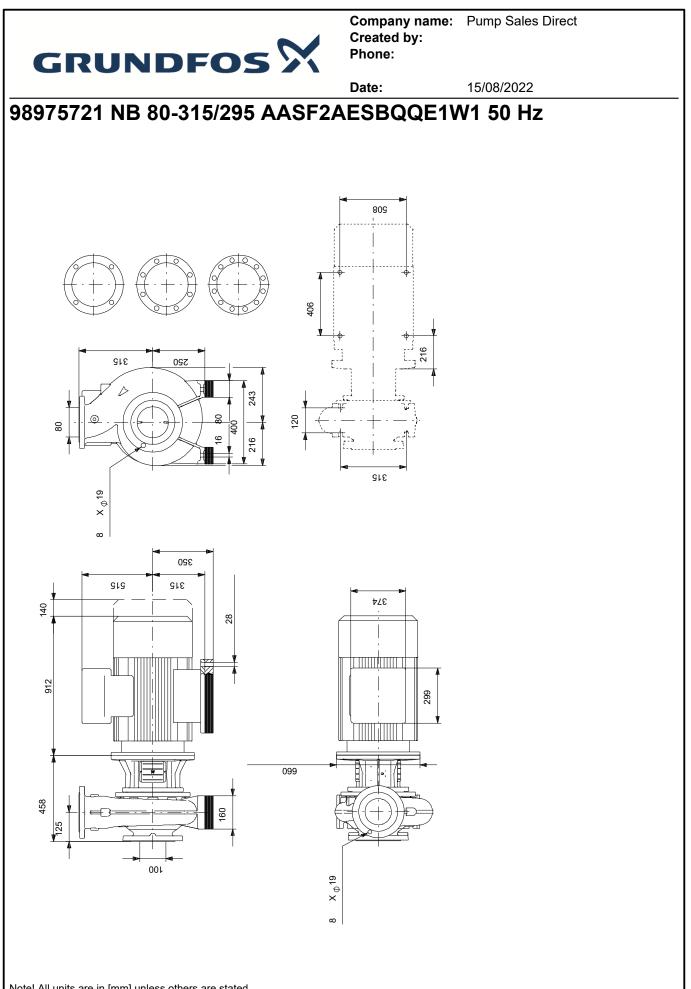


		Date:	15/08/2022	
Description	Value	H [m]	NB 80-315/295, 3*400 V, 50Hz	eta [%]
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	NB 80-315/295 AASF2AESBQQE1W1	130 - 295	Density = 998.2 kg/m ³	
Product No:	98975721	120		
EAN number:	5712604548028	110 -		
Technical:				1
Pump speed on which pump data are based:	2982 rpm	100 - 90 -		- 100 - 90
Rated flow:	243.7 m³/h	80 -		- 80
Rated head:	114 m	70 -		_70
Actual impeller diameter:	295 mm	60 -		- 60
Nominal impeller diameter:	315			
Shaft seal arrangement:	Single	50 -		- 50
Shaft diameter:	32 mm	40 -		- 40
Code for shaft seal:	BQQE	30		- 30
Curve tolerance:	ISO9906:2012 3B	20		- 20
Pump version:	AS	10		_ 10
Bearing design:	Standard	— /		
Materials:		0 1	50 100 150 200 250 Q [m³/h]	-0
Pump housing:	Cast iron	P [kW]		NPSH
Pump housing:	EN-GJL-250		P1	[m] -
Pump housing:	ASTM class 35	100 -	P2	- 25
Wear ring:	Brass	100 -		-23
Impeller:	Cast iron	80 -		- 20
Impeller:	EN-GJL-200	60 -		_ 15
Impeller:	ASTM class 30	_		
Internal pump house coating:	CED	40 -		- 10
Material code:	A	20		- 5
Code for rubber:	E			Lo
Shaft:	Stainless steel			L 0
Shaft:	EN 1.4301	458	912140	
Shaft:	AISI 304	125		8
Installation:	AI31 304			Į –
t max amb:	55 °C			A
Maximum operating pressure:	16 bar			9
Pipe connection standard:	EN 1092-2	160		2
1				9
Size of inlet connection: Size of outlet connection:	DN 100 DN 80			
	PN 16		╷ <mark>╢</mark> ╔╤╤╤╤╗┑╻ ┍┲┩╎╠ _╝ ╌┎┯╤┙	
Pressure rating for connection:				- · - · · 8
Bearing lubrication:	Grease			
Pump housing with feet:	Yes		· • • •	
Support block (Yes/No):	Y			
Connect code:	F2			
Liquid:	Matan			
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C		Υ	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	B** 8	р+т Б +т	
Electrical data:				
Motor type:	SIEMENS			
IE Efficiency class:	IE3			
Rated power - P2:	110 kW	L1		
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V		T T T T T T T T T T T T T T T T T T T	
Rated current:	183/106 A	₿⁺ [∓] ∎ ₿		
Starting current:	710-710 %			
Cos phi - power factor:	0.91			
Rated speed:	2982 rpm	TO AMPLIFIER RELAY		
Efficiency:	IE3 95,2%	L1		

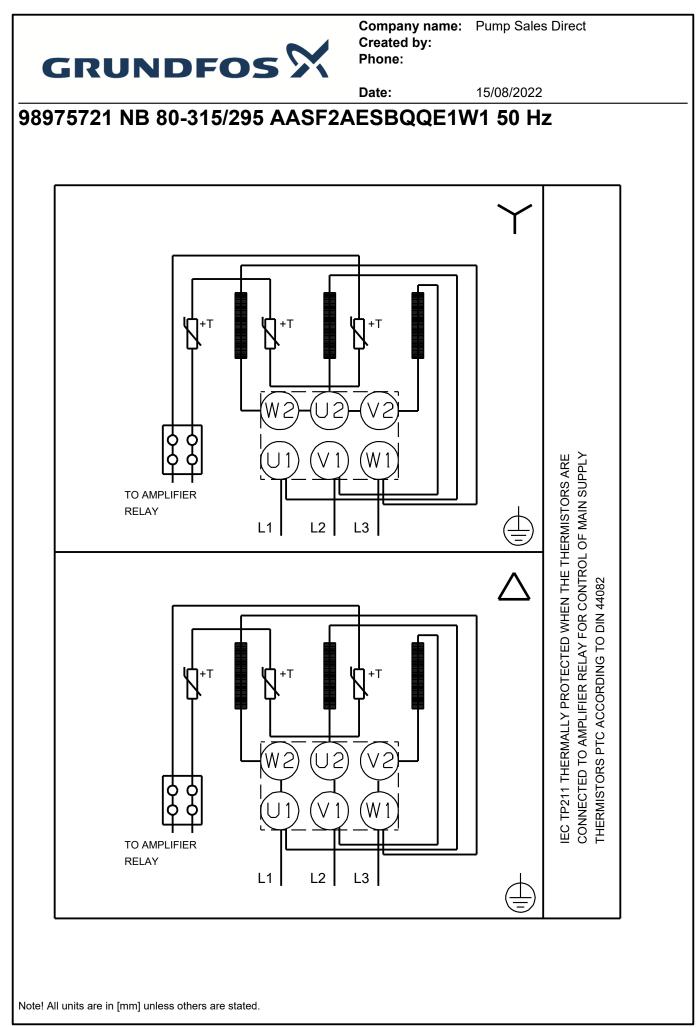
Printed from Grundfos Product Centre [2022.35.005]



		Date:	15/08/2022
Description	Value		
Motor efficiency at full load:	95.2-95.2 %	—	
Motor efficiency at 3/4 load:	95.4-95.4 %		
Motor efficiency at 1/2 load:	94.9-94.9 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	83U15444		
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 ≥:	0.68		
Net weight:	959 kg		
Gross weight:	1010 kg		
Shipping volume:	1.38 m³		
Danish VVS No.:	386064318		
Country of origin:	HU		
Custom tariff no.:	84137051		



Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.





		DFOS 21	ate:	15/08/2022		
Order Data:						
Position	Your pos.	Product name	Amount	Product No	Total	
		NB 80-315/295	1	98975721	Price on request	