

Date:

28/12/2022

Qty. | Description

1

NK 125-315/335 AA2F2AESBQQENW5



Note! Product picture may differ from actual product

Product No.: 98972435

Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, a radial discharge port and horizontal shaft. It is of the back pull-out design enabling removal of the coupling, bearing bracket and impeller without disturbing the motor, pump housing or pipework.

The unbalanced rubber bellows seal is according to DIN EN 12756.

The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

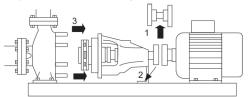
Pump and motor are mounted on a common steel base frame in accordance with ISO 3661.

The back pull-out design together with a spacer coupling makes it possible to service the pump without dismantling the pump housing and motor from the base frame.

This saves realignment of pump and motor after service.

1) Remove coupling.

- 2) Remove the bolts in the bearing bracket support foot.
- 3) Remove the bearing bracket from the pump housing.



Pump

The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.

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Seal faces:

Seal faces:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

The shaft is made of stainless steel and has a diameter of 42 mm where the coupling is mounted.

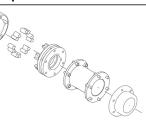
The pump uses a spacer coupling between the pump and motor shaft.



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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

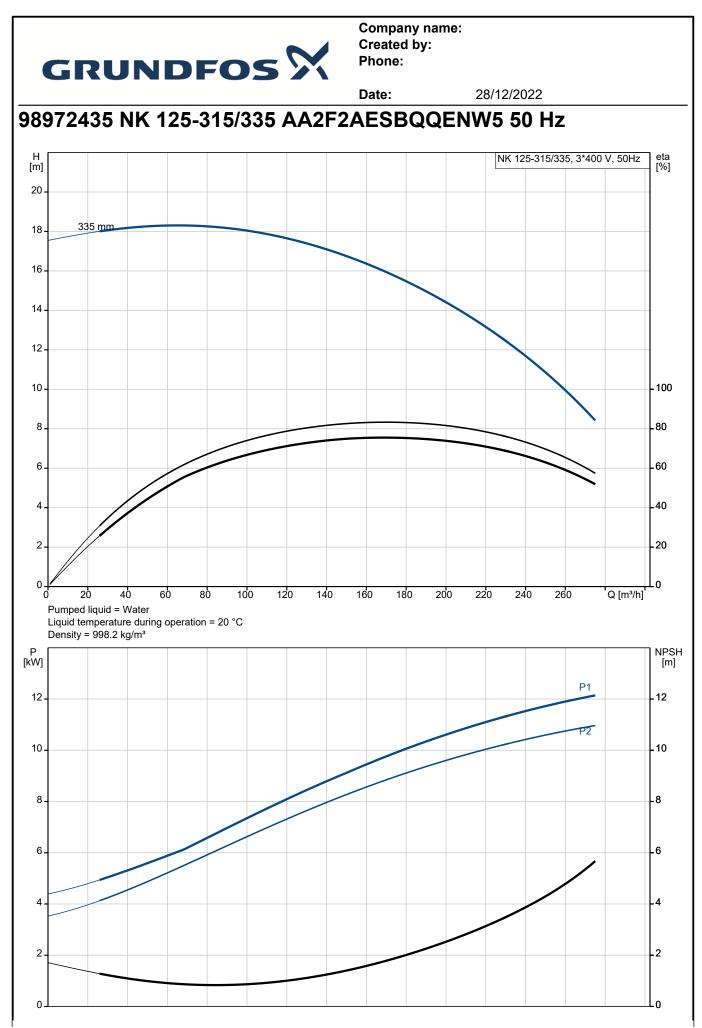
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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: Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: Code for shaft seal: Mechanical seal type: Curve tolerance: Bearing design:	are based: 980 rpm 169.4 m³/h Y 15.82 m 335 mm 315 BQQE Single ISO9906:2012 3B Standard
Materials: Pump housing: Wear ring: Impeller:	Cast iron EN-GJL-250 ASTM class 35 Brass Cast iron EN-GJL-200
	Frequency converter: Pressure sensor: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Technical: Pump speed on which pump data Rated flow: Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: Code for shaft seal: Mechanical seal type: Curve tolerance: Bearing design: Materials: Pump housing: Wear ring:



	Date:	28/12/2022
Description		
Internal pump house coating: Shaft:	ASTM class 30 CED Stainless steel	
	EN 1.4301 AISI 304	
Installation:		
t max amb:	55 °C	
Maximum operating pressure:	16 bar	
Pipe connection standard:	EN 1092-2	
Type of inlet connection:	DIN	
Type of outlet connection:	DIN	
Size of inlet connection:	DN 150	
Size of outlet connection:	DN 125	
Pressure rating for connection:	PN 16	
Coupling type:	Flexible w/spacer	
Base frame design:	EN/ISO	
Code for base frame:	9	
Grouting (Yes/No):	N	
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:	22.0/12.7 A	
Starting current:	680-680 %	
Cos phi - power factor:	0.80	
Rated speed:	980 rpm	
Efficiency:	IE3 90,3%	
Motor efficiency at full load:	90.3-90.3 %	
Motor efficiency at 3/4 load:	90.7-90.7 %	
Motor efficiency at 1/2 load:	89.8-89.8 %	
Number of poles:	6	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Motor No:	98957460	
Bearing insulation type N-end:	STEEL BEARING	
Others:		
Minimum efficiency index, MEI ≥:	0.70	
Net weight:	475 kg	
Gross weight:	542 kg	
Shipping volume:	1.49 m ³	



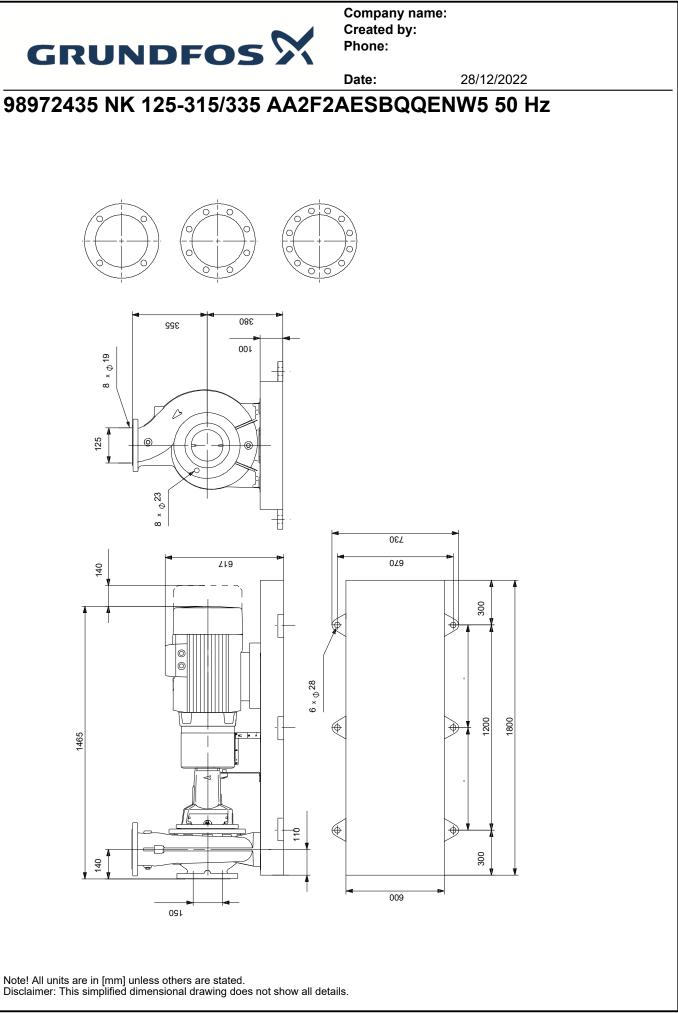


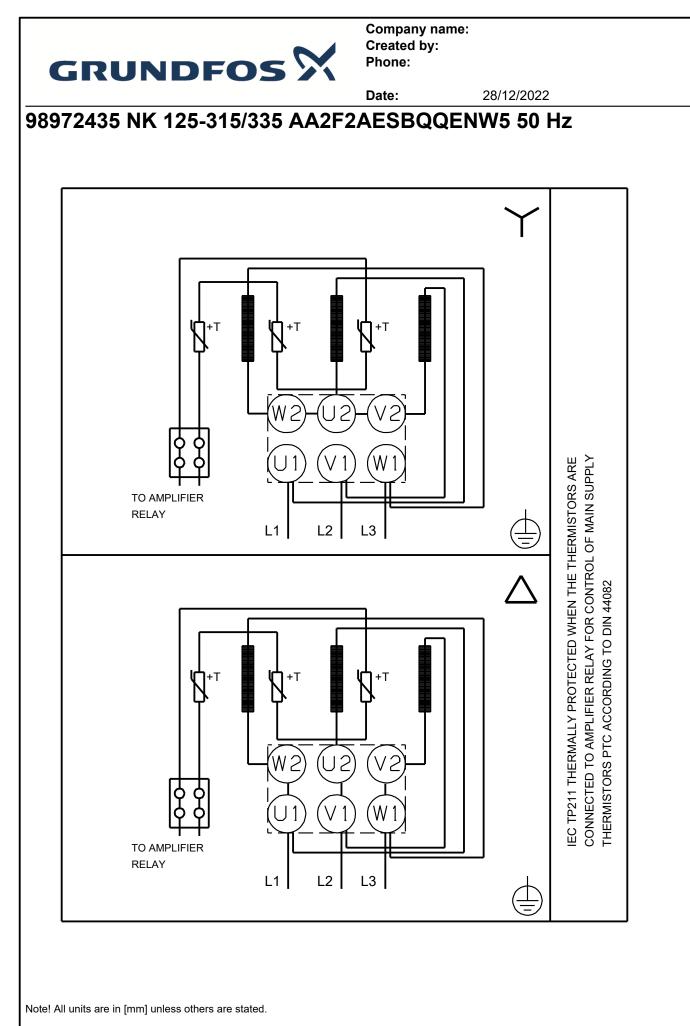
GRUND		Date: 28/12/2022			
Description	Value	H [m]	NK 125-315/335, 3*400 V, 50Hz [%]		
General information:					
Product name:	NK 125-315/335 AA2F2AESBQQENW5	18 <u>335 mm</u>			
Product No:	98972435	10-			
EAN number:	5712604485231	14 -			
Technical:		12 -			
Pump speed on which pump data are based:	980 rpm	10 -	- 100		
Rated flow:	169.4 m³/h	8-	- 80		
Pump with motor (Yes/No):	Υ	6	60		
Rated head:	15.82 m				
Actual impeller diameter:	335 mm	4-	- 40		
Nominal impeller diameter:	315	2	- 20		
Shaft diameter:	42 mm				
Code for shaft seal:	BQQE	0 1/ 50	100 150 200 250 Q [m³/h]		
Mechanical seal type:	Single	Pumped liquid = W			
Curve tolerance:	ISO9906:2012 3B	Liquid temperature Density = 998.2 kg	during operation = 20 °C		
Pump version:	A2	Density = 998.2 kg	m ³ NPSH		
Bearing design:	Standard	[kW]	P1 [m]		
Materials:					
Pump housing:	Cast iron	10 -	P2 10		
Pump housing:	EN-GJL-250				
Pump housing:	ASTM class 35	8-	-8		
Wear ring:	Brass	6-	-6		
Impeller:	Cast iron	-			
Impeller:	EN-GJL-200	4	-4		
Impeller:	ASTM class 30	2-	2		
Internal pump house coating:	CED				
Material code:	Α	0	Lo		
Code for rubber:	E	4			
Shaft:	Stainless steel				
Shaft:	EN 1.4301	1485	1		
Shaft:	AISI 304	140			
Installation:					
t max amb:	55 °C	─── [°] ┼ ╎┤╽╔╖━ _╼ ┎╶╴			
Maximum operating pressure:	16 bar	──── <u></u> ┼╫ <u>╢</u> ╠┉┉┞ _{╍┙}			
Pipe connection standard:	EN 1092-2				
Type of inlet connection:	DIN	110	6 × 028		
Type of outlet connection:	DIN				
Size of inlet connection:	DN 150	8	38		
Size of outlet connection:	DN 125				
Pressure rating for connection:	PN 16				
Coupling type:	Flexible w/spacer	a			
Base frame design:	EN/ISO				
Code for base frame:	9				
Grouting (Yes/No):	Ν		Y		
Connect code:	F				
Liquid:					
Pumped liquid:	Water	— Ÿ [°] ∎ Ÿ [°] ■	₽ ■		
Liquid temperature range:	-25 120 °C		F@-		
Selected liquid temperature:	20 °C				
Density:	998.2 kg/m ³	TO AMPLIFIER RELAY L1 L2			
Electrical data:	-				
Motor type:	SIEMENS				
IE Efficiency class:	IE3	B ^{+T} B ^{+T}			
Rated power - P2:	11 kW				
Mains frequency:	50 Hz				
Rated voltage:	3 x 380-420D/660-725Y V				
Rated current:	22.0/12.7 A	L1 L2			

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Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	98957460		
Bearing insulation type N-end:	STEEL BEARING		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	475 kg		
Gross weight:	542 kg		
Shipping volume:	1.49 m³		







Your pos.

Position

Company name: Created by: Phone:

28/12/2022 Date: Order Data: **Product name** Total **Product No** Amount

	NK 125-315/335		1	98972435	Price on request
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