

28/12/2022

Qty. | Description

1

NK 125-250/269 AA2F2AESBQQEMW5



Note! Product picture may differ from actual product

Product No.: 98972429

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.

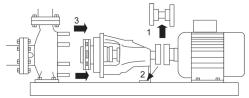
The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

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.

{IMG Filename: GRALON\_NB-NK-G\_SHAFTSEAL\_Bxxx.gif }
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 32 mm where the coupling is mounted.

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



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### 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**

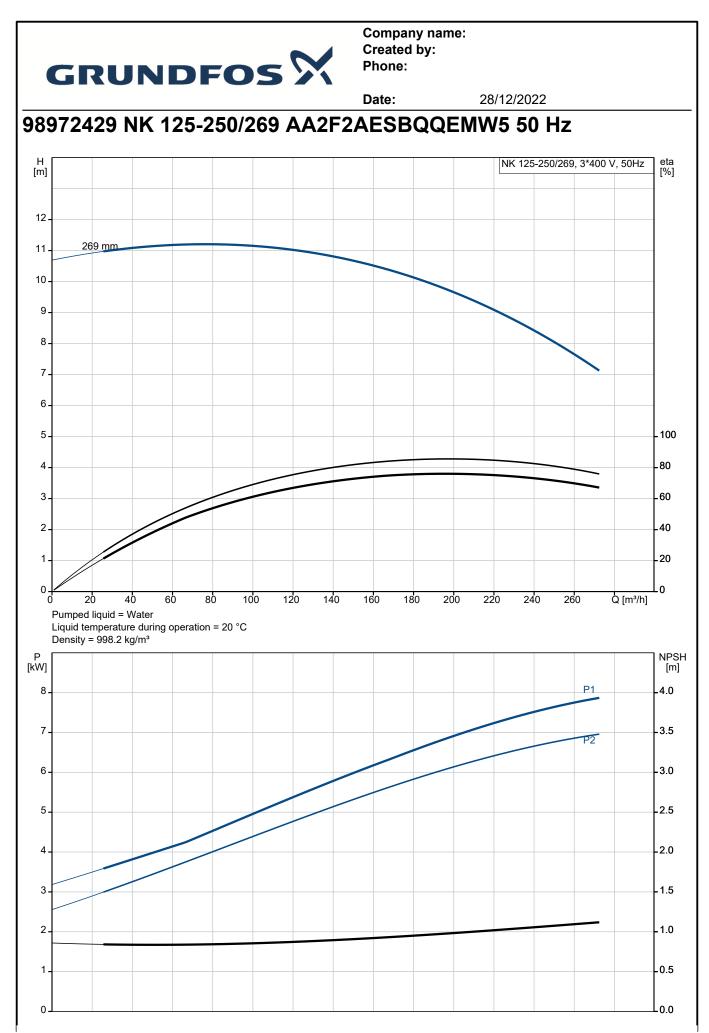
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

## **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: 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: 985 rpm 204.1 m³/h Y 9.487 m 269 mm 250 BQQE Single ISO9906:2012 3B2 Standard
Materials: Pump housing: Wear ring: Impeller: Internal pump house coating: Shaft:	Cast iron EN-GJL-250 ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30 CED Stainless steel EN 1.4301 AISI 304
Installation: t max amb: Maximum operating pressure:	55 °C 16 bar



		Date:	28/12/2022
ty.			
	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:	7	
	Grouting (Yes/No):	Ν	
	Electrical data:		
	Motor type:	SIEMENS	
	IE Efficiency class:	IE3	
	Rated power - P2:	7.5 kW	
	Mains frequency:	50 Hz	
	Rated voltage:	3 x 380-420D/660-725Y V	
	Rated current:	15/8.7 A	
	Starting current:	790-580 %	
	Cos phi - power factor:	0.81	
	Rated speed:	985 rpm	
	Efficiency:	IE3 89,1%	
	Motor efficiency at full load:	89.1-87.3 %	
	Motor efficiency at 3/4 load:	89.7-88.3 %	
	Motor efficiency at 1/2 load:	89-87.7 %	
	Number of poles:	6	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor No:	98957458	
	Bearing insulation type N-end:	STEEL BEARING	
	Others:		
	Minimum efficiency index, MEI ≥	: 0.68	
	Net weight:	344 kg	
	Gross weight:	371 kg	
	Shipping volume:	0.841 m <sup>3</sup>	



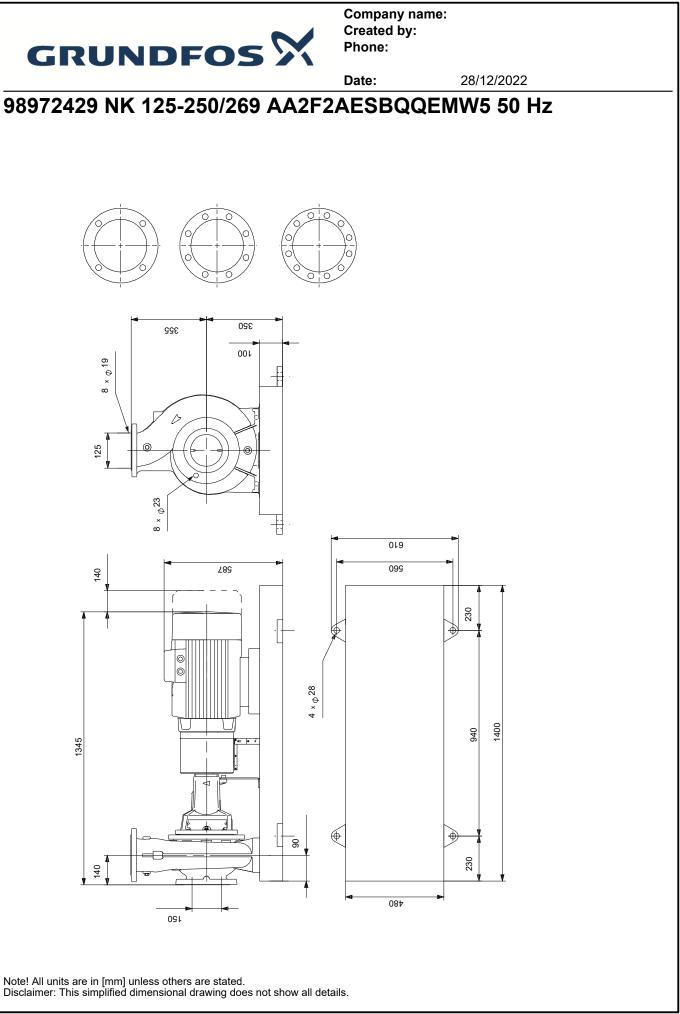


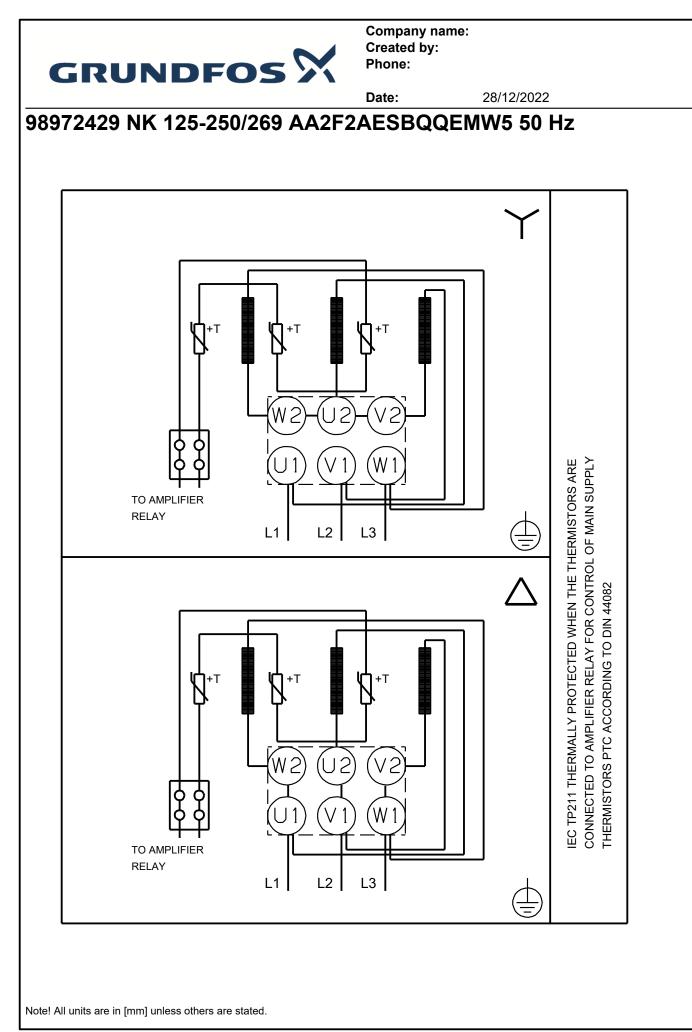
		Date:		28/12/	/2022		
Description	Value	H [m]			NK 125-250/26	69, 3*400 V, 50Hz	eta [%]
General information:		12					
Product name:	NK 125-250/269 AA2F2AESBQQEMW5		269 mm				
Product No:	98972429	10 -					-
EAN number:	5712604485118	9					-
Technical:		8					-
Pump speed on which pump data are based:	985 rpm	7 -					_
Rated flow:	204.1 m³/h						
Pump with motor (Yes/No):	Y	5-					100
Rated head:	9.487 m	4-					- 80
Actual impeller diameter:	269 mm	3-					- 60
	250	2 -					- 40
Nominal impeller diameter:		1					20
Shaft diameter:	32 mm	o 🖊	·				⊥₀
Code for shaft seal:	BQQE	o		100	150 200	250 Q [m³/h]	
Mechanical seal type:	Single		mped liquid = Water uid temperature duri	na operatio-	= 20 °C		
Curve tolerance:	ISO9906:2012 3B2		nsity = 998.2 kg/m <sup>3</sup>	ng operation	- 20 0		
Pump version:	A2	P					NPS
Bearing design:	Standard	[kW]				P1	[m
Materials:		7 -					3.5
Pump housing:	Cast iron	6 -				P2	3.0
Pump housing:	EN-GJL-250						
Pump housing:	ASTM class 35	5 -					- 2.5
Wear ring:	Brass	4 -					2.0
Impeller:	Cast iron	3					1.5
Impeller:	EN-GJL-200						
Impeller:	ASTM class 30	2-					1.0
Internal pump house coating:	CED	1					- 0.5
Material code:	A	0					L 0.0
Code for rubber:	E	4					
Shaft:	Stainless steel						
Shaft:	EN 1.4301		1345			-	
Shaft:	AISI 304	14	•		40	8 × 019	3)
Installation:	AI31 304	— . Īī			15		6)
		<sup>2</sup>			T The share		<u> </u>
t max amb:	55 °C						Ð
Maximum operating pressure:	16 bar	I	╨╙╶╹╼┱╼		XIX		9
Pipe connection standard:	EN 1092-2			Ϋ́	_•		6
Type of inlet connection:	DIN		4 x • 2		- <b>-</b> - +	E.	お
Type of outlet connection:	DIN					00	/
Size of inlet connection:	DN 150	68			610		
Size of outlet connection:	DN 125	i			_ <b>i</b>		
Pressure rating for connection:	PN 16	-	230 940	230	—		
Coupling type:	Flexible w/spacer		1400	-			
Base frame design:	EN/ISO						
Code for base frame:	7						
Grouting (Yes/No):	Ν			Y			
Connect code:	F	—	[]				
Liquid:		—					
Pumped liquid:	Water	—	Ŋ. <b> </b> Ŋ. <b> </b> Ŋ.	<b> </b>			
Liquid temperature range:	-25 120 °C	—		L			
Selected liquid temperature:	20 °C				PRLY		
Density:	998.2 kg/m <sup>3</sup>	TO AI RELA	MPLFIER VV L1 L2 L3		OF MAIN SUPPLY		
Electrical data:			L1   L2   L3		RROL OF		
	SIEMENS				MEN TH CONTROL ON A CONTROL ON		
Motor type:	SIEMENS				REAF		
IE Efficiency class:	IE3			<b>₽</b>	PLLY PRO		
Rated power - P2:	7.5 kW		14000		ED TO AN ORS PTC		
Mains frequency:	50 Hz		<u><u><u>u</u></u> <u>d</u> <u>d</u> <u>d</u> <u>d</u> <u>d</u> <u>d</u> <u>d</u> <u>d</u> <u>d</u> <u></u></u>		THE RMSTO THE RMSTO		
Rated voltage:	3 x 380-420D/660-725Y V	TO AI RELA			≡o ⊨		
Rated current:	15/8.7 A		LI L2 L3	⊜			

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		Date:	28/12/2022
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Others:			
Minimum efficiency index, MEI ≥:	0.68		
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Your pos.

Position

Company name: Created by: Phone:

28/12/2022 Date: **Order Data: Product name** Product No Total Amount | NK 125-250/269 1 98972429 Price on

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