

28/12/2022

Qty. | Description

1

NK 125-400/392 AA2F2AESBQQEUW3



Note! Product picture may differ from actual product

Product No.: 98972378

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.

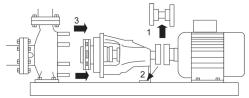
The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

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 42 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.

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.

Further product details

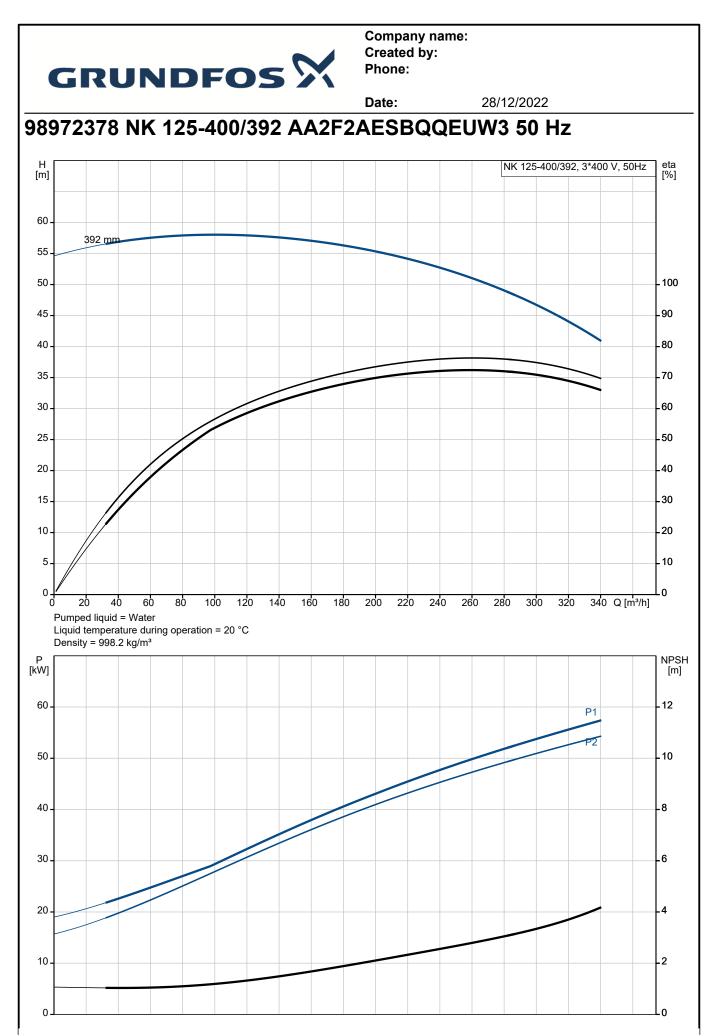
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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: 1482 rpm 265.7 m³/h Y 50.25 m 392 mm 400 BQQE Single ISO9906:2012 3B 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
Installation: t max amb: Maximum operating pressure:	AISI 304 55 °C 16 bar



Description		
Pipe connection standard:	EN 1092-2	
Type of inlet connection:	DIN	
Pressure rating for connection:		
Coupling type:		
	EN/ISO	
Code for base frame:	9	
Grouting (Yes/No):	Ν	
Electrical data:		
	SIEMENS	
Bearing insulation type N-end:	STEEL BEARING	
Others [.]		
	0.50	
	1.55 111	
	Type of outlet connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No: Bearing insulation type N-end: Others:	Type of outlet connection:DINSize of inlet connection:DN 150Size of outlet connection:DN 125Pressure rating for connection:PN 16Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:9Grouting (Yes/No):NElectrical data:Motor type:SIEMENSIE Efficiency class:IE3Rated power - P2:55 kWMains frequency:50 HzRated voltage:3 x 380-420D/660-725Y VRated voltage:0.87Rated speed:1482 rpmEfficiency:IE3 94,6%Motor efficiency at J/L load:95.1-95.1 %Motor efficiency at J/L load:95-95 %Number of poles:4Enclosure class (IEC 34-5):IP55Insulation class (IEC 45):FMotor No:98957823Bearing insulation type N-end:STEEL BEARINGOthers:0.50Minimum efficiency index, MEI ≥:0.50Net weight:864 kgGross weight:955 kg



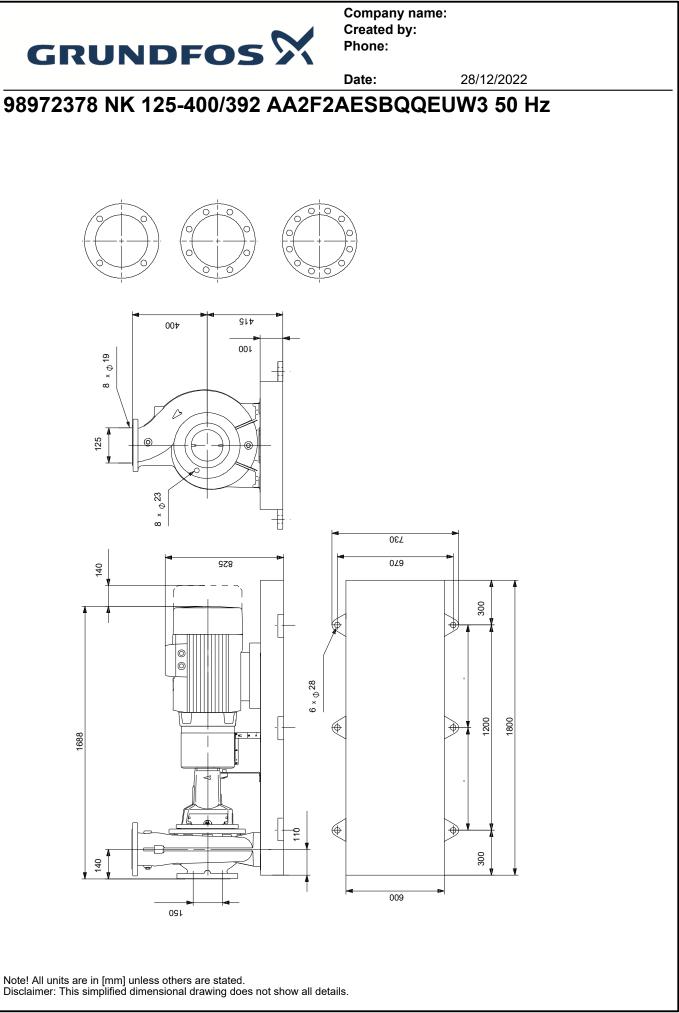


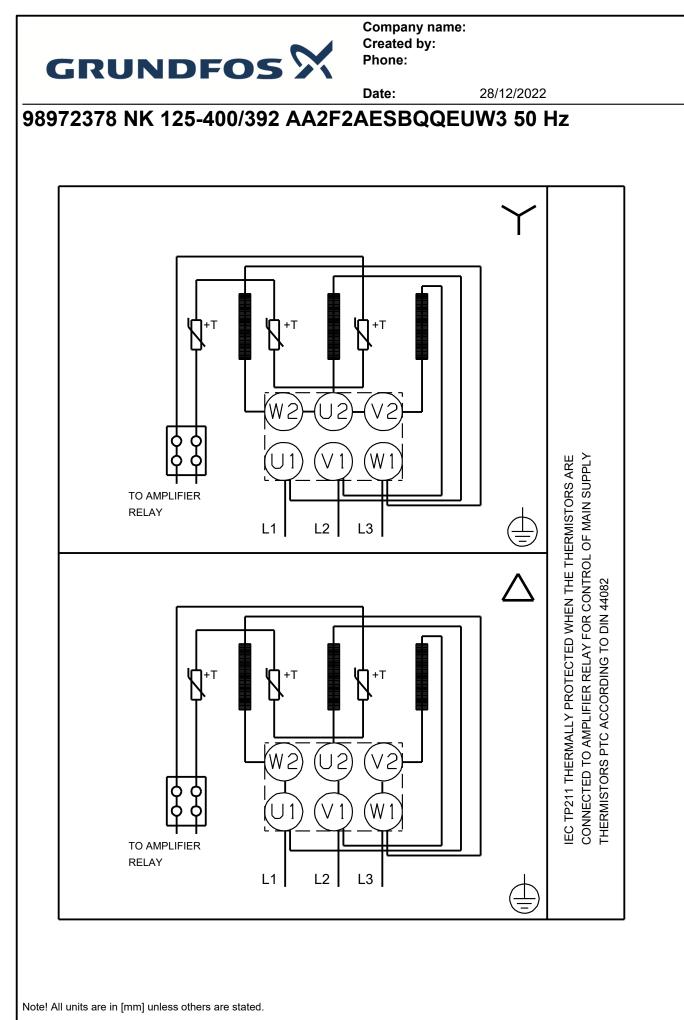
GRUND		Date:	28/12/2022	
Description	Value	H [m]	NK 125-400/392, 3*400 V, 50Hz	eta [%]
General information:		60 -		
Product name:	NK 125-400/392 AA2F2AESBQQEUW3	392 mm		-
Product No:	98972378	50 -		- 100
EAN number:	5712604484098	45 -		- 90
Technical:		40 -		- 80
Pump speed on which pump data are based:	1482 rpm	35 - 30 -		- 70 - 60
Rated flow:	265.7 m³/h	25 -		- 50
Pump with motor (Yes/No):	Υ	20		40
Rated head:	50.25 m	15		- 30
Actual impeller diameter:	392 mm	10		20
Nominal impeller diameter:	400	5-		
Shaft diameter:	42 mm			
Code for shaft seal:	BQQE	0 50	100 150 200 250 300 Q [m³/h]	LO
Mechanical seal type:	Single	Pumped liquid =		
Curve tolerance:	ISO9906:2012 3B	Liquid temperatur Density = 998.2 k	re during operation = 20 °C (a/m³	
Pump version:	A2	P		NPSH
Bearing design:	Standard	[kW]		[m]
Materials:			P1	Γ
Pump housing:	Cast iron	50 -	P2	10
Pump housing:	EN-GJL-250	-		
Pump housing:	ASTM class 35	40 -		-8
Wear ring:	Brass	30 -		-6
Impeller:	Cast iron			
Impeller:	EN-GJL-200	20 -		-4
Impeller:	ASTM class 30	10 -		2
Internal pump house coating:	CED			
Material code:	A	0		Lo
Code for rubber:	E			
Shaft:	Stainless steel			
Shaft:	EN 1.4301	16		2
Shaft:	AISI 304	••••		<u>}</u> }
Installation:				9
t max amb:	55 °C			Ø
Maximum operating pressure:	16 bar	──────── ────────────────────────────		Joj
Pipe connection standard:	EN 1092-2			<u>`</u>
Type of inlet connection:	DIN			
Type of outlet connection:	DIN			6/
Size of inlet connection:	DN 150	8	8	
Size of outlet connection:	DN 125			
Pressure rating for connection:	PN 16	300		
Coupling type:	Flexible w/spacer		1800	
Base frame design:	EN/ISO			
Code for base frame:	9			
Grouting (Yes/No):	Ν		Y	
Connect code:	F			
Liquid:		N ^{+T} N ^{+T}		
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C	TO AMPLIFIER		
Density:	998.2 kg/m³	RELAY L1 L2		
Electrical data:				
Motor type:	SIEMENS		T T T T T T T T T T T T T T T T T T T	
IE Efficiency class:	IE3	\$ [†] ^{+⊤} ■ \$ [†] ^{+⊤}		
Rated power - P2:	55 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V	TO AMPLIFIER RELAY		
Rated current:	96/56 A			

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		Date:	28/12/2022	
Description	Value			
Starting current:	680-680 %			
Cos phi - power factor:	0.87			
Rated speed:	1482 rpm			
Efficiency:	IE3 94,6%			
Motor efficiency at full load:	94.6-94.6 %			
Motor efficiency at 3/4 load:	95.1-95.1 %			
Motor efficiency at 1/2 load:	95-95 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Built-in motor protection:	PTC			
Motor No:	98957823			
Bearing insulation type N-end:	STEEL BEARING			
Controls:				
Frequency converter:	NONE			
Pressure sensor:	Ν			
Others:				
Minimum efficiency index, MEI ≥:	0.50			
Net weight:	864 kg			
Gross weight:	955 kg			
Shipping volume:	1.99 m³			







Your pos.

Position

Company name: Created by: Phone:

28/12/2022 Date: **Order Data:** Total **Product name** Amount **Product No** NK 125-400/392 1 98972378 Price on request

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