

28/12/2022

Qty. | Description

1

### NK 125-400/384 AA2F2AESBQQEOW5



#### Note! Product picture may differ from actual product

Product No.: 98972441

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.

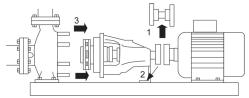
The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

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.

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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.

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.

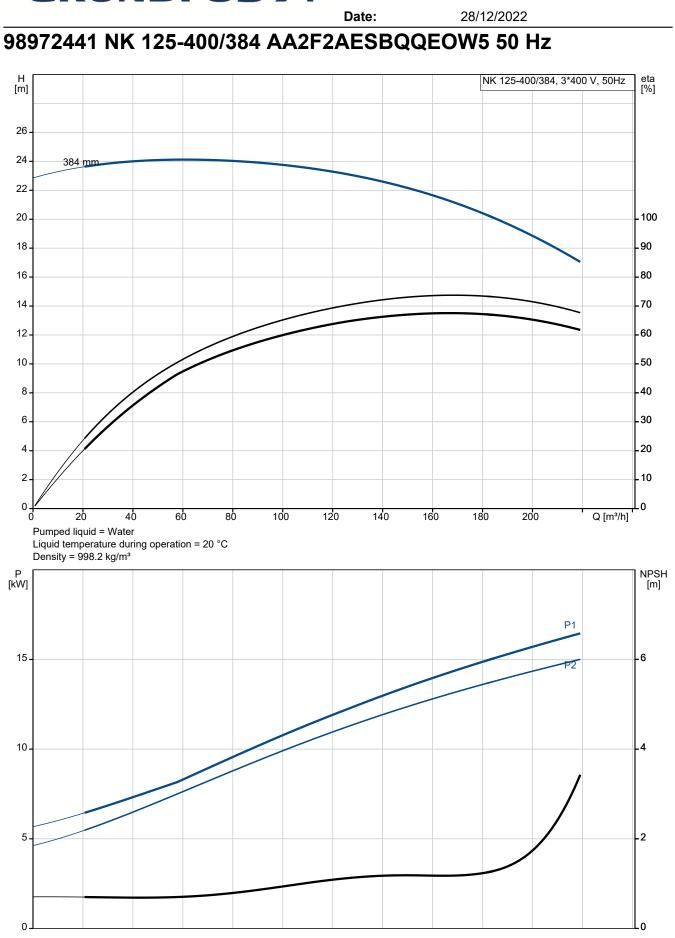
## **Technical data**

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: 975 rpm 169.9 m³/h Y 20.91 m 384 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



,	<b>S</b> 1.4		ate:	28/12/2022	
	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:	15 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-420D/660-725Y	V		
	Rated current:	29.5/17.2 A			
	Starting current:	590-590 %			
	Cos phi - power factor:	0.80			
	Rated speed:				
		975 rpm			
	Efficiency:	IE3 91,2%			
	Motor efficiency at full load:	91.2-91.2 %			
	Motor efficiency at 3/4 load:	92.0-92.0 %			
	Motor efficiency at 1/2 load:	91.9-91.9 %			
	Number of poles:	6			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	98957461			
	Bearing insulation type N-end:	STEEL BEARING			
	Others:				
	Minimum efficiency index, MEI ≥:	0.51			
	Net weight:	595 kg			
	Gross weight:	663 kg			
	Shipping volume:	1.61 m <sup>3</sup>			
	Shipping Volume.	1.01 11			



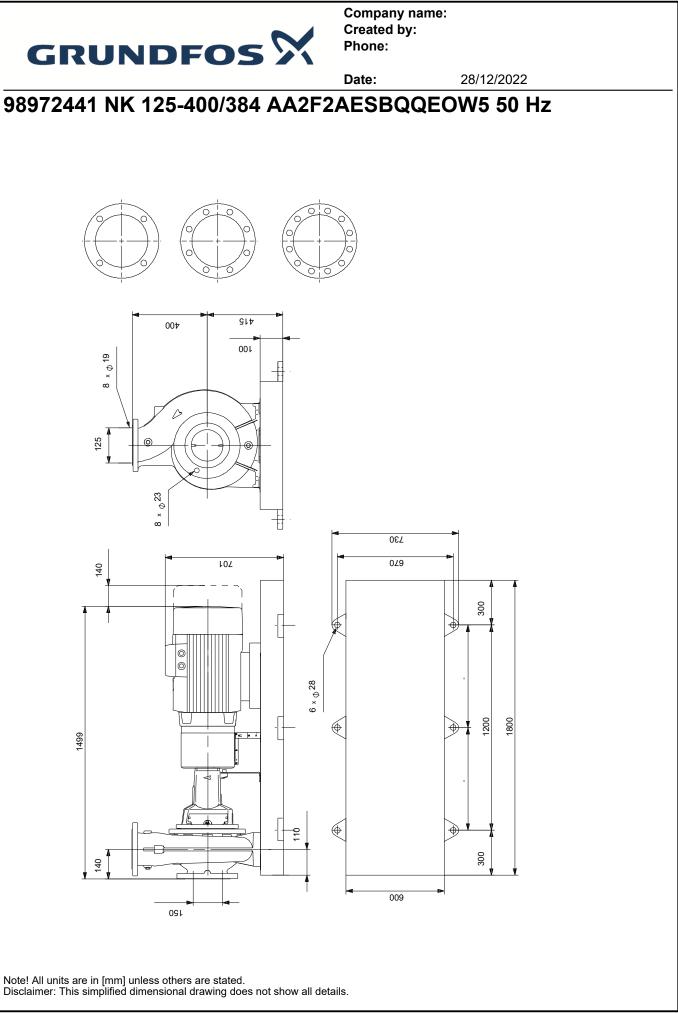


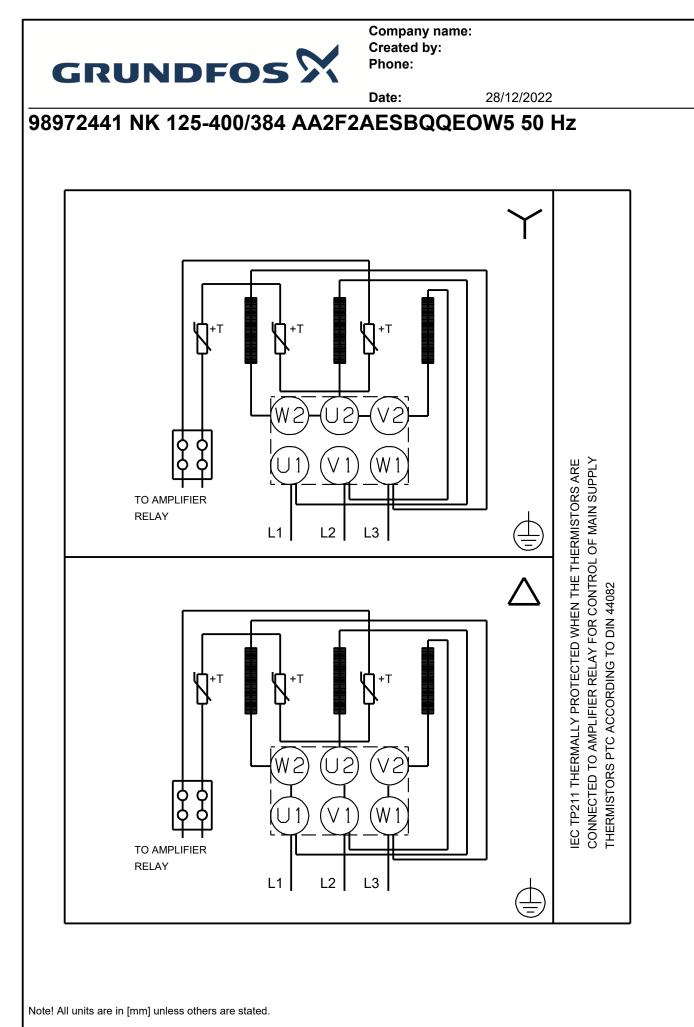


		<b>Date:</b> 28/12/2022
Description	Value	H [m] NK 125-400/384, 3*400 V, 50Hz [%]
General information:		26
Product name:	NK 125-400/384 AA2F2AESBQQEOW5	24 - <u>384 mm</u> 22 -
Product No:	98972441	22
EAN number:	5712604485354	
Technical:		16
Pump speed on which pump data are based:	975 rpm	14 - 70
Rated flow:	169.9 m³/h	
Pump with motor (Yes/No):	Y	
Rated head:	20.91 m	8 40 20
Actual impeller diameter:	384 mm	
Nominal impeller diameter:	400	
Shaft diameter:	42 mm	
Code for shaft seal:	BQQE	0 <u>1</u> <u>1</u> 0 0 50 100 150 200 Q [m³/h]
Mechanical seal type:	Single	Pumped liquid = Water
Curve tolerance:	ISO9906:2012 3B	Liquid temperature during operation = 20 °C Density = 998.2 kg/m³
Pump version:	A2	P NP
Bearing design:	Standard	[kW] [n
Materials:		
Pump housing:	Cast iron	15
Pump housing:	EN-GJL-250	
Pump housing:	ASTM class 35	10 4
Wear ring:	Brass	
Impeller:	Cast iron	
Impeller:	EN-GJL-200	5
Impeller:	ASTM class 30	
Internal pump house coating:	CED	
Material code:	A	0 L 0
Code for rubber:	E	
Shaft:	Stainless steel	
Shaft:	EN 1.4301	
Shaft:	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	38
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):	Ν	Y
Connect code:	F	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:		
Motor type:	SIEMENS	
IE Efficiency class:	IE3	
Rated power - P2:	15 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-420D/660-725Y V	
Rated current:	29.5/17.2 A	



		Date:	28/12/2022
Description	Value		
Starting current:	590-590 %	_	
Cos phi - power factor:	0.80		
Rated speed:	975 rpm		
Efficiency:	IE3 91,2%		
Motor efficiency at full load:	91.2-91.2 %		
Motor efficiency at 3/4 load:	92.0-92.0 %		
Motor efficiency at 1/2 load:	91.9-91.9 %		
Number of poles:	6		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	98957461		
Bearing insulation type N-end:	STEEL BEARING		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.51		
Net weight:	595 kg		
Gross weight:	663 kg		
Shipping volume:	1.61 m³		







Your pos.

Position

Company name: Created by: Phone:

28/12/2022 Date: **Order Data: Product name Product No** Total Amount NK 125-400/384 1 98972441 Price on request

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