

28/12/2022

Qty. | Description

1

NK 125-400/433 AA2F2AESBQQEVW3



Note! Product picture may differ from actual product

Product No.: 98424188

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.

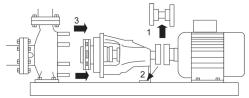
The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

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.

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

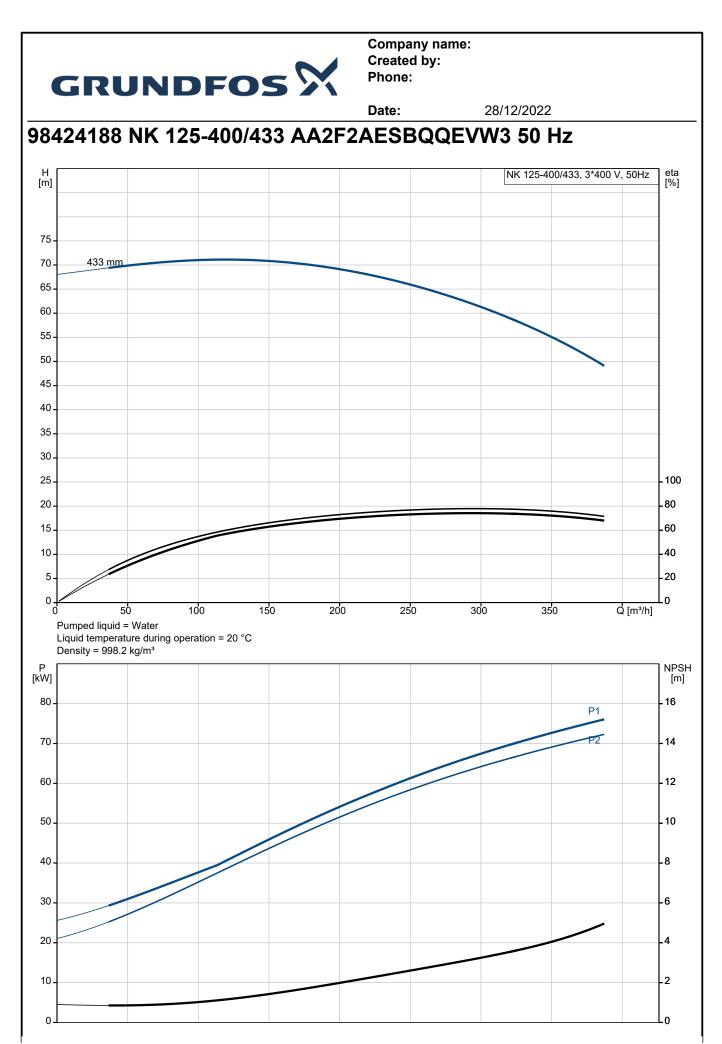
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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: 1485 rpm 307.2 m³/h Y 60.31 m 433 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 AISI 304
Installation: t max amb: Maximum operating pressure:	55 °C 16 bar



		Da	ate:	28/12/2022
y .	Description			
	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:	10		
	Grouting (Yes/No):	Ν		
	Electrical data:			
	Motor type:	SIEMENS		
	IE Efficiency class:	IE3		
	Rated power - P2:	75 kW		
	Mains frequency:	50 Hz		
			,	
	Rated voltage:	3 x 380-420D/660-725Y	/	
	Rated current:	133/77 A		
	Starting current:	690-690 %		
	Cos phi - power factor:	0.86		
	Rated speed:	1485 rpm		
	Efficiency:	IE3 95%		
	Motor efficiency at full load:	95-95 %		
	Motor efficiency at 3/4 load:	95.3-95.3 %		
	Motor efficiency at 1/2 load:	95-95 %		
	Number of poles:	4		
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor No:	98957824		
	Bearing insulation type N-end:	STEEL BEARING		
	bearing insulation type in-end.	STEEL BEARING		
	Others:			
	Minimum efficiency index, MEI ≥			
	Net weight:	1170 kg		
	Gross weight:	1210 kg		
	Shipping volume:	2.19 m³		



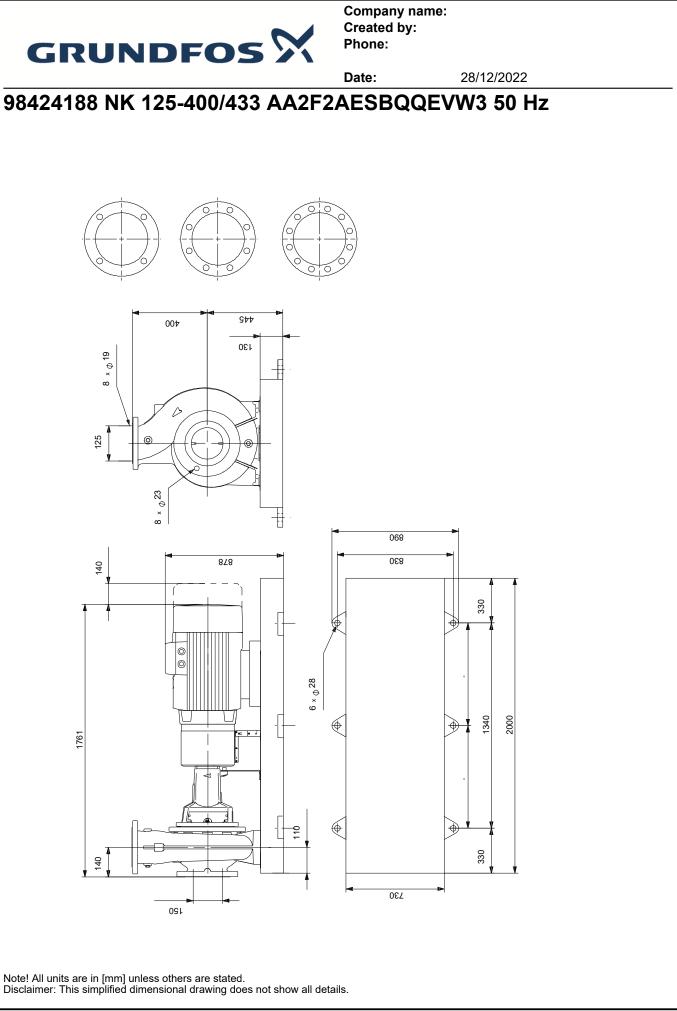


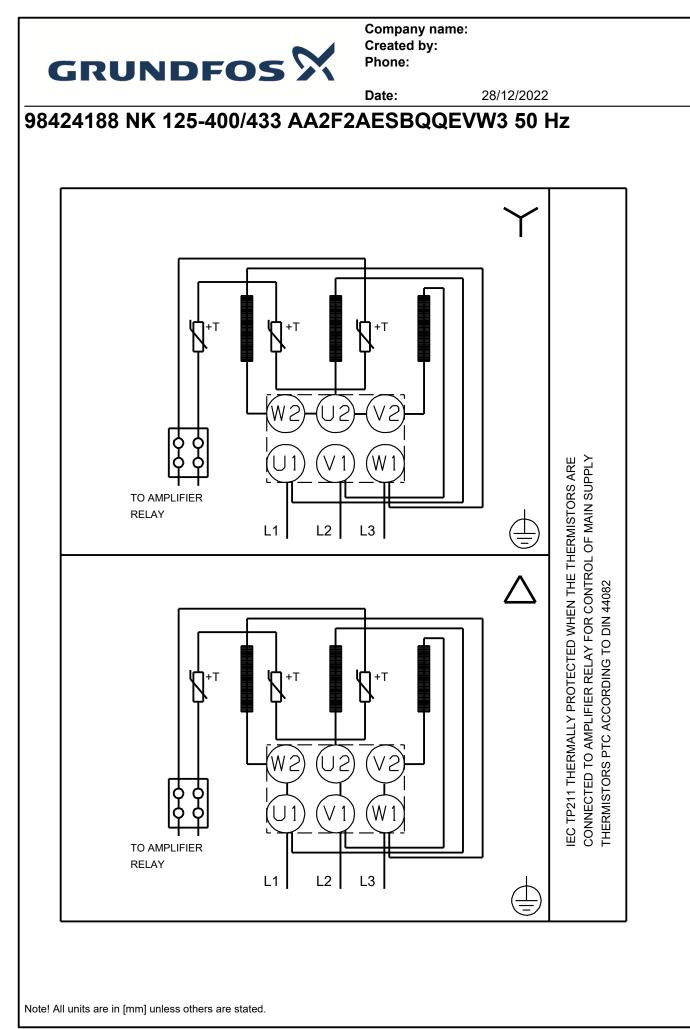
GRUND		Date:	28/12/2022	
Description	Value	H [m]	NK 125-400/433, 3*400 V, 50Hz	eta [%]
Description General information:	value			[%]
	NK 125-400/433	75		
Product name:	AA2F2AESBQQEVW3	70 <u>433 mm</u>		_
Product No:	98424188	65 - 60 -		_
EAN number:	5711494770960	55 -		
Technical:		50		
Pump speed on which pump data are based:	1485 rpm	45 - 40 -		_
Rated flow:	307.2 m³/h	35 _		_
Pump with motor (Yes/No):	Y	30 - 25 -		100
Rated head:	60.31 m	20		80
Actual impeller diameter:	433 mm	15		60
Nominal impeller diameter:	400	10-		40
Shaft diameter:	42 mm	5-		- 20
Code for shaft seal:	BQQE	0 50 10	0 150 200 250 300 350 Q [m³/h]	o
Mechanical seal type:	Single	Pumped liquid = W		-
Curve tolerance:	ISO9906:2012 3B	Liquid temperature	e during operation = 20 °C	
Pump version:	A2	Density = 998.2 kg		NPSH
Bearing design:	Standard	[kW]	P1	[m]
Materials:		70 -		14
Pump housing:	Cast iron		P2	
Pump housing:	EN-GJL-250	60 -		12
Pump housing:	ASTM class 35	50 -		10
Wear ring:	Brass	40 -		- 8
Impeller:	Cast iron	30 -		-6
Impeller:	EN-GJL-200	20-		4
Impeller:	ASTM class 30			
Internal pump house coating:	CED	10 -		-2
Material code:	Α	0		Lo
Code for rubber:	E	4		
Shaft:	Stainless steel			
Shaft:	EN 1.4301	1761		2
Shaft:	AISI 304			- <u>}</u> }
Installation:				<u> </u>
t max amb:	55 °C			P)
Maximum operating pressure:	16 bar	──		D
Pipe connection standard:	EN 1092-2	110		2
Type of inlet connection:	DIN	110		
Type of outlet connection:	DIN	/*\/		59
Size of inlet connection:	DN 150	Ŕ	89	
Size of outlet connection:	DN 125			
Pressure rating for connection:	PN 16	330		
Coupling type:	Flexible w/spacer	e 2	2000	
Base frame design:	EN/ISO			
Code for base frame:	10			
Grouting (Yes/No):	Ν		Y	
Connect code:	F		<u></u>	
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C		504 1	
Selected liquid temperature:	20 °C		A LAG	
Density:	998.2 kg/m³	TO AMPLIFIER RELAY L1 L2		
Electrical data:				
Motor type:	SIEMENS			
IE Efficiency class:	IE3	₿ ^{+⊤} ₿ ^{+⊤}		
Rated power - P2:	75 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V			
Rated current:	133/77 A	L1 L2		

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		Date:	28/12/2022
Description	Value		
Starting current:	690-690 %	_	
Cos phi - power factor:	0.86		
Rated speed:	1485 rpm		
Efficiency:	IE3 95%		
Motor efficiency at full load:	95-95 %		
Motor efficiency at 3/4 load:	95.3-95.3 %		
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:	98957824		
Bearing insulation type N-end:	STEEL BEARING		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.50		
Net weight:	1170 kg		
Gross weight:	1210 kg		
Shipping volume:	2.19 m³		







Your pos.

Position

Company name: Created by: Phone:

Date: 28/12/2022Order Data:Product nameAmountProduct NoTotalNK 125-400/433198424188Price on
request

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