

16/06/2022

Qty. | Description

1

NK 200-400/364 AA2F1AESBQQEWW3



Note! Product picture may differ from actual product

Product No.: 98973143

Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 10 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.

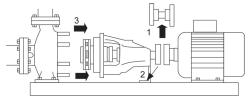
The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

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 housing has both a priming and a drain hole closed by plugs. The impeller is a closed impeller with double-curved blades with smooth surfaces. The impeller is statically balanced according to ISO 1940-1 class G6.3 and hydraulically balanced to compensate for axial thrust.

Wear rings used in pump housing and for impeller are made of bronze/brass.

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.

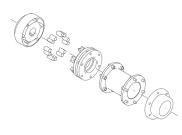
The shaft is made of stainless steel and has a diameter of 48 mm where the coupling is mounted.

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.

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:	a are based: 1485 rpm 588.2 m³/h Y 41.43 m 364 mm 400 BQQE Single ISO9906:2012 3B Standard
Materials: Pump housing:	Cast iron EN-GJL-250
Wear ring: Impeller:	ASTM class 35 Brass Cast iron EN-GJL-200



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Company name: Created by: Phone:

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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:	10 bar
Pipe connection standard:	EN 1092-2
Type of inlet connection:	DIN
Type of outlet connection:	DIN
Size of inlet connection:	DN 250
Size of outlet connection:	DN 200
Pressure rating for connection:	PN 10
Coupling type:	Flexible w/spacer
Base frame design:	EN/ISO
Code for base frame:	10D
Grouting (Yes/No):	Ν

Date:

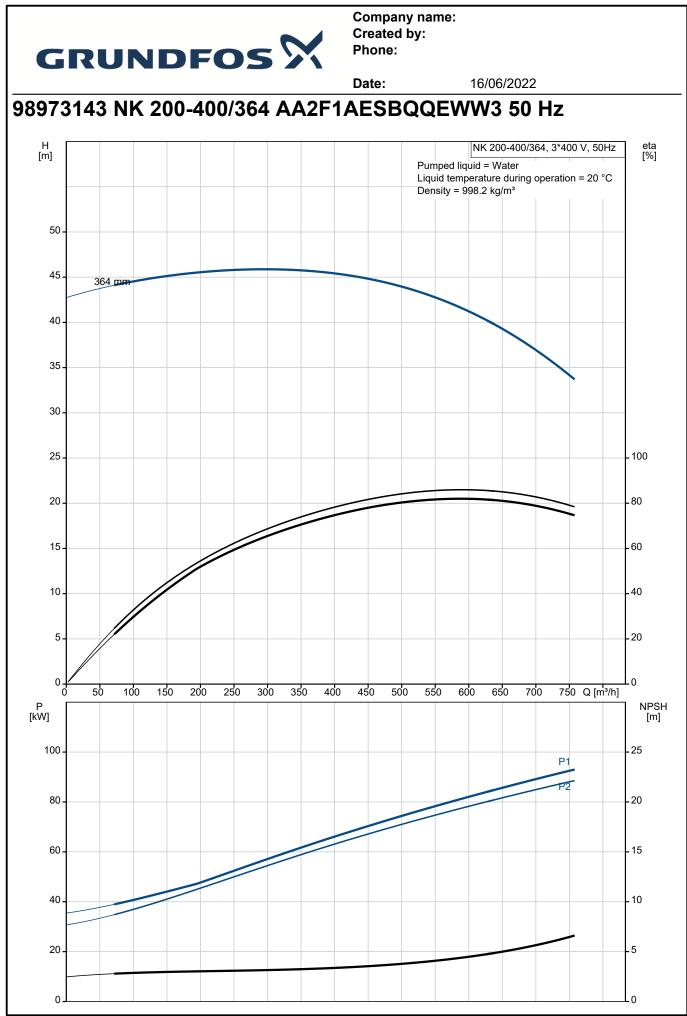
Grouting (Yes/No): Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 90 kW Mains frequency: 50 Hz 3 x 380-420D/660-725Y V Rated voltage: Rated current: 157/91 A 720-720 % Starting current: Cos phi - power factor: 0.87 Rated speed: 1485 rpm IE3 95,2% Efficiency: Motor efficiency at full load: 95.2-95.2 % Motor efficiency at 3/4 load: 95.5-95.5 % Motor efficiency at 1/2 load: 95.3-95.3 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98957825 Bearing insulation type N-end: STEEL BEARING Others: Minimum efficiency index, MEI ≥: 0.52 Net weight: 1520 kg Gross weight: 1620 kg Shipping volume: 2.75 m³

ΗU

84137059

Country of origin:

Custom tariff no .:



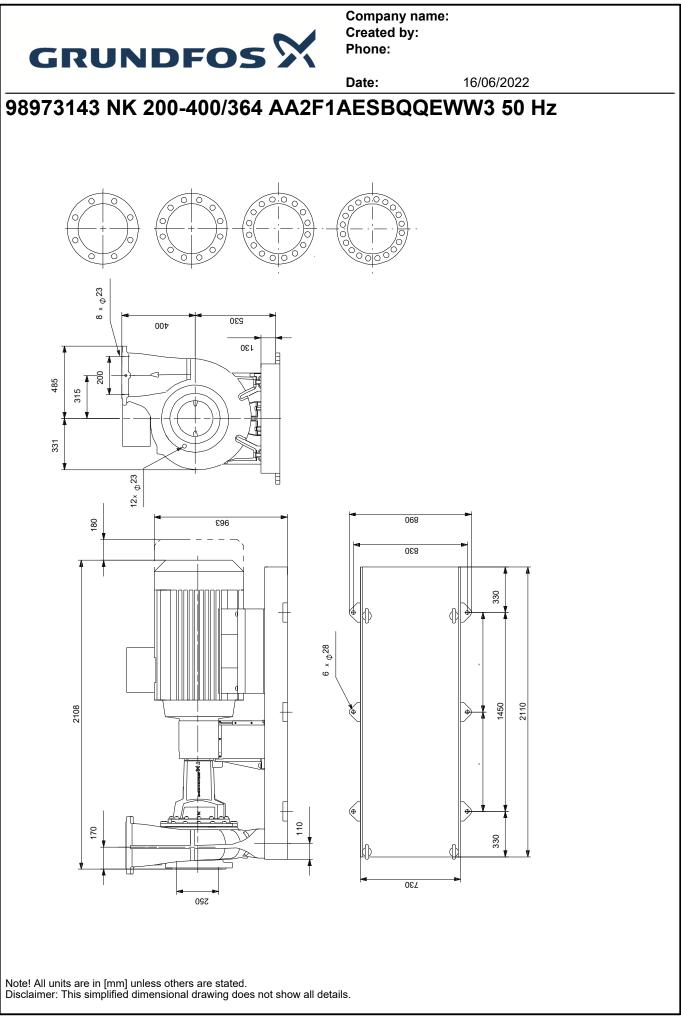


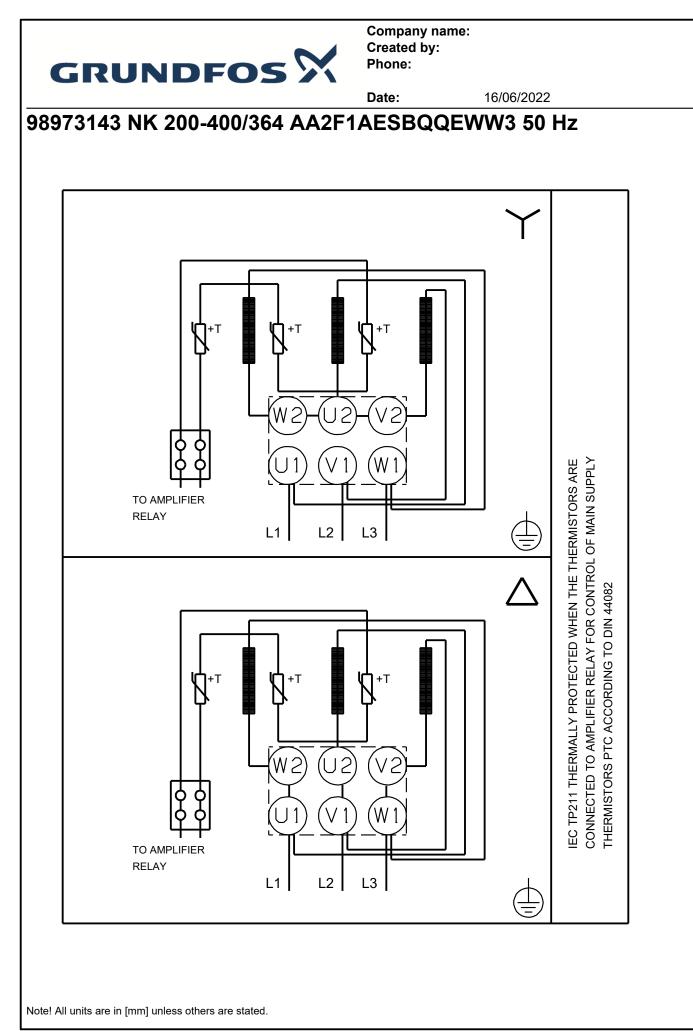
		Date:	16/06/2022	
Description	Value	H [m]	NK 200-400/364, 3*400 V, 50Hz	eta [%]
General information:	- uuu		Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	NK 200-400/364 AA2F1AESBQQEWW3	50 -	Density = 998.2 kg/m ³	
Product No:	98973143	45 - 364	pm	
EAN number:	5712604499351	_		
Technical:		40 -		
Pump speed on which pump data are based:	1485 rpm	35 -		-
Rated flow:	588.2 m³/h	30 -		
Pump with motor (Yes/No):	Υ			400
Rated head:	41.43 m	25 -		- 100
Actual impeller diameter:	364 mm	20 -		- 80
Nominal impeller diameter:	400			
Shaft diameter:	48 mm	15 -		- 60
Code for shaft seal:	BQQE	10 -		40
Mechanical seal type:	Single			- 10
Curve tolerance:	ISO9906:2012 3B	5-		- 20
Pump version:	A2			\Box_0
Bearing design:	Standard	0 10	00 200 300 400 500 600 Q [m³/h]	- 0
Materials:		P [kW]		NPSH [m]
Pump housing:	Cast iron	[KVV] 100 -	P1	_25
Pump housing:	EN-GJL-250	—		
Pump housing:	ASTM class 35	80 -	P2	- 20
Wear ring:	Brass	60 -		- 15
Impeller:	Cast iron	00-		- 15
Impeller:	EN-GJL-200	40 -		- 10
Impeller:	ASTM class 30			
Internal pump house coating:	CED	20 -		- 5
Material code:	A			0
Code for rubber:	E			
Shaft:	Stainless steel			
Shaft:	EN 1.4301		2108	(A Contraction of the second
Shaft:	AISI 304			
Installation:				
t max amb:	55 °C			
Maximum operating pressure:	10 bar			
Pipe connection standard:	EN 1092-2			
Type of inlet connection:	DIN	110		00000
Type of outlet connection:	DIN			0900000
Size of inlet connection:	DN 250			
Size of outlet connection:	DN 200	£	68	
Pressure rating for connection:	PN 10			
Coupling type:	Flexible w/spacer	330	1450 330 2110	
Base frame design:	EN/ISO	 _	A110	
Code for base frame:	10D			
Grouting (Yes/No):	N		~	
Connect code:	F	—	Y	
Liquid:	•			
Pumped liquid:	Water	§** 🖣 8	Ş ⁺ ' ₽ ₿ ^{+*} ₽	
Liquid temperature range:	-25 120 °C	— _ L _k		
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m ³	TO AMPLIFIER RELAY		
Electrical data:				
Motor type:	SIEMENS			
IE Efficiency class:	IE3	кр _{+т} 🖡 қ		
Rated power - P2:	90 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V	TO AMPLIFIER		
Rated current:	157/91 A	RELAY L1		
		L		

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Starting current:720-720 %Cos phi - power factor:0.87Rated speed:1485 rpmEfficiency:IE3 95,2%Motor efficiency at full load:95.2-95.2 %Motor efficiency at 3/4 load:95.5-95.5 %Motor efficiency at 1/2 load:95.3-95.3 %Number of poles:4Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:PTCMotor No:98957825Bearing insulation type N-end:STEEL BEARINGControls:FFrequency converter:NONEPressure sensor:NOthers:0.52Minimum efficiency index, MEI ≥:0.52Net weight:1520 kgGross weight:1620 kgShipping volume:2.75 m³Country of origin:HU			Date:	16/06/2022
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Bearing insulation type N-end:STEEL BEARINGControls:NONEFrequency converter:NONEPressure sensor:NOthers:	Built-in motor protection:	PTC		
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Others:Minimum efficiency index, MEI ≥:0.52Net weight:1520 kgGross weight:1620 kgShipping volume:2.75 m³Country of origin:HU	Frequency converter:	NONE		
Minimum efficiency index, MEI ≥:0.52Net weight:1520 kgGross weight:1620 kgShipping volume:2.75 m³Country of origin:HU	Pressure sensor:	Ν		
Net weight:1520 kgGross weight:1620 kgShipping volume:2.75 m³Country of origin:HU	Others:			
Gross weight:1620 kgShipping volume:2.75 m³Country of origin:HU	Minimum efficiency index, MEI ≥:	0.52		
Shipping volume:2.75 m³Country of origin:HU	Net weight:	1520 kg		
Country of origin: HU	Gross weight:	1620 kg		
	Shipping volume:	2.75 m³		
Custom tariff no.: 84137059	Country of origin:	HU		
	Custom tariff no.:	84137059		







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Order Data:

Product name:NK 200-400/364Amount:1Product No:98973143

Total: Price on request