

NK 250-400/365 AA2F1AESBQQE1W3

Company name: Created by: Phone:

16/06/2022

Note! Product picture may differ from actual product

Product No.: 98973052

Qty.

1

Description

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.

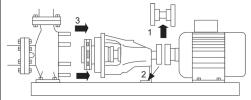
The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

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.

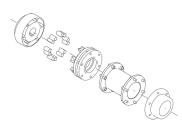
The shaft is made of stainless steel and has a diameter of 48 mm where the coupling is mounted.

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



Date:

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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: 1488 rpm 811.2 m³/h Y 38.44 m 365 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



Qty. |

Grouting (Yes/No):

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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: Maximum operating pressure: Pipe connection standard: Type of inlet connection: 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:	55 °C 10 bar EN 1092-2 DIN DIN DN 300 DN 250 PN 10 Flexible w/spacer EN/ISO 10D

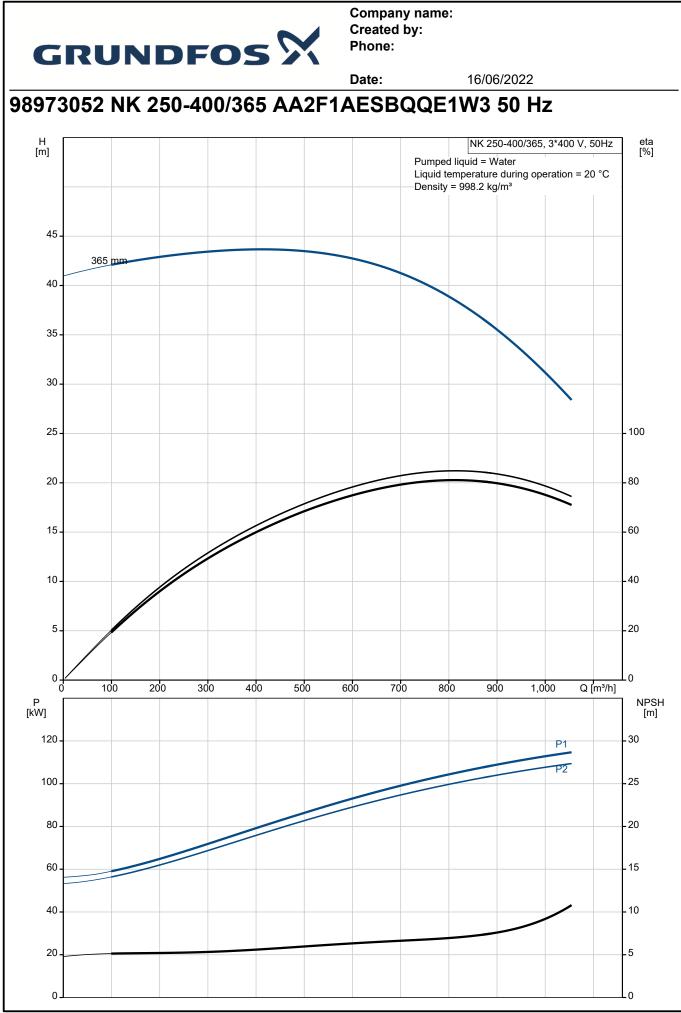
Date:

Electrical data:	
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	110 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	191/111 A
Starting current:	680-680 %
Cos phi - power factor:	0.87
Rated speed:	1488 rpm
Efficiency:	IE3 95,4%
Motor efficiency at full load:	95.4-95.4 %
Motor efficiency at 3/4 load:	95.8-95.8 %
Motor efficiency at 1/2 load:	95.5-95.5 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	98957827
Bearing insulation type N-end:	STEEL BEARING
Others:	
Minimum efficiency index, MEI ≥:	0.46
Net weight:	1690 kg
Gross weight:	1790 kg
Shipping volume:	3.29 m ³
Country of origin:	HU

84137059

Ν

Custom tariff no .:





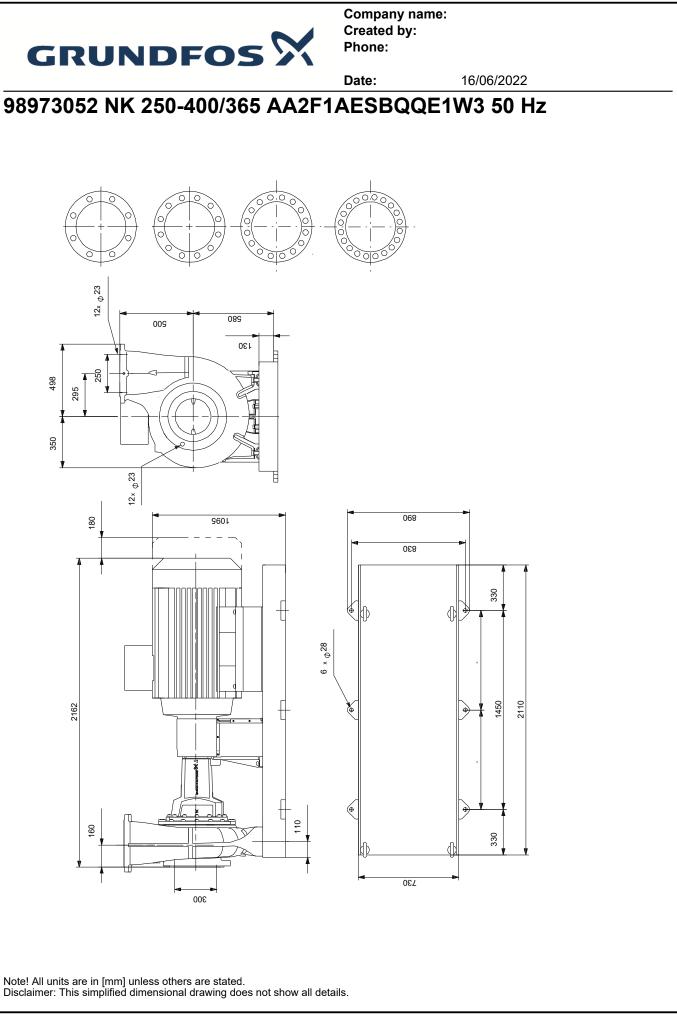
		Date:	16/06/2022	7
Description	Value	H [m]	NK 250-400/365, 3*400 V, 50Hz	eta [%]
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	NK 250-400/365 AA2F1AESBQQE1W3	45 -	Density = 998.2 kg/m ³	_
Product No:	98973052	40 -	roum	
EAN number:	5712604497395	40 -		
Technical:		35 -		
Pump speed on which pump data are based:	1488 rpm	30 -		
Rated flow:	811.2 m³/h			
Pump with motor (Yes/No):	Y	25 -		100
Rated head:	38.44 m	20		20
Actual impeller diameter:	365 mm	20		- 80
Nominal impeller diameter:	400	15 -		- 60
Shaft diameter:	48 mm			
Code for shaft seal:	BQQE	10 -		- 40
Mechanical seal type:	Single			
Curve tolerance:	ISO9906:2012 3B	5		- 20
Pump version:	A2			
Bearing design:	Standard	Ó	200 400 600 800 Q [m³/h]	-
Materials:		P [kW]		NPSH [m]
Pump housing:	Cast iron	- ` ' +	P1	+ ``
Pump housing:	EN-GJL-250	100 -	P2	- 25
Pump housing:	ASTM class 35	—		
Wear ring:	Brass	80 -		- 20
Impeller:	Cast iron	60 -		15
Impeller:	EN-GJL-200	40 -		- 10
Impeller:	ASTM class 30	40 -		- 10
Internal pump house coating:	CED	20		- 5
Material code:	Α			0
Code for rubber:	E	"A		
Shaft:	Stainless steel		950 408	
Shaft:	EN 1.4301	160	2162	6300
Shaft:	AISI 304			
Installation:				0000
t max amb:	55 °C			£
Maximum operating pressure:	10 bar			
Pipe connection standard:	EN 1092-2			
Type of inlet connection:	DIN	• 110	6 . Ф Ю	0000
Type of outlet connection:	DIN			0000000
Size of inlet connection:	DN 300		8 8	600000
Size of outlet connection:	DN 250	E		
Pressure rating for connection:	PN 10	· •		
Coupling type:	Flexible w/spacer	330	1460 330 2110	
Base frame design:	EN/ISO		·	
Code for base frame:	10D			
Grouting (Yes/No):	Ν		Y	
Connect code:	F			
Liquid:			1	
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C		909021111	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	RELAY L1		
Electrical data:				
Motor type:	SIEMENS			
IE Efficiency class:	IE3	\$ ⁺ [∓] \$	+T +T +T - Contractor	
Rated power - P2:	110 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V	TO AMPLIFIER RELAY		
Rated current:	191/111 A	U		

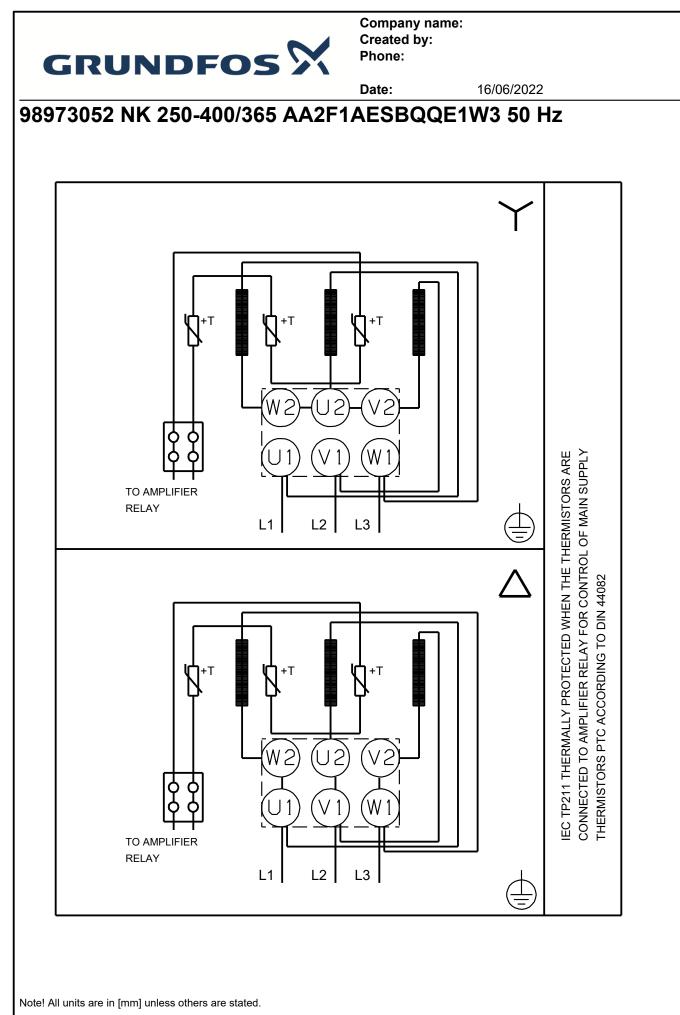
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Date:

Description	Value
Starting current:	680-680 %
Cos phi - power factor:	0.87
Rated speed:	1488 rpm
Efficiency:	IE3 95,4%
Motor efficiency at full load:	95.4-95.4 %
Motor efficiency at 3/4 load:	95.8-95.8 %
Motor efficiency at 1/2 load:	95.5-95.5 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	98957827
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.46
Net weight:	1690 kg
Gross weight:	1790 kg
Shipping volume:	3.29 m ³
Country of origin:	HU
Custom tariff no.:	84137059







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Order Data:

Product name:NK 250-400/365Amount:1Product No:98973052

Total: Price on request