

16/06/2022 Date: Qty. Description 1 NK 250-350/306 AA2F1AESBQQEOW5 Note! Product picture may differ from actual product Product No.: 98973091 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. The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013. 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.

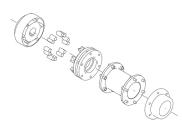
The shaft is made of stainless steel and has a diameter of 48 mm where the coupling is mounted.

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.

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:	a are based: 975 rpm 520.7 m³/h Y 8.689 m 306 mm 350 BQQE Single ISO9906:2012 3B Standard
Materials: Pump housing:	Cast iron EN-GJL-250 ASTM class 35
Wear ring: Impeller:	Brass Cast iron EN-GJL-200



Qty. |

Company name: Created by: Phone:

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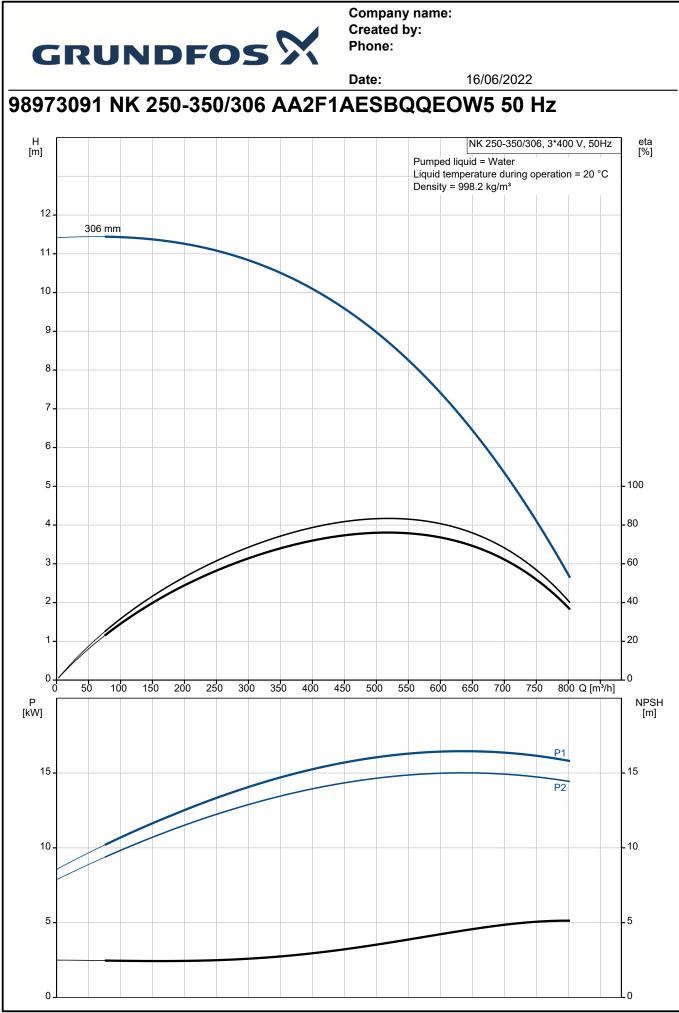
Description	
Internal pump house coating: Shaft:	ASTM class 30 CED Stainless steel EN 1.4301 AISI 304
Installation: t max amb: Maximum operating pressure: Pipe connection standard: Type of inlet connection: Type of outlet connection: Size of outlet connection: Size of outlet connection: Pressure rating 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 10E

Date:

Grouting (Yes/No):	Ν
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
5 51	_
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	1040 kg
Gross weight:	1130 kg
Shipping volume:	2.53 m ³
Country of origin:	HU

84137059

Custom tariff no .:



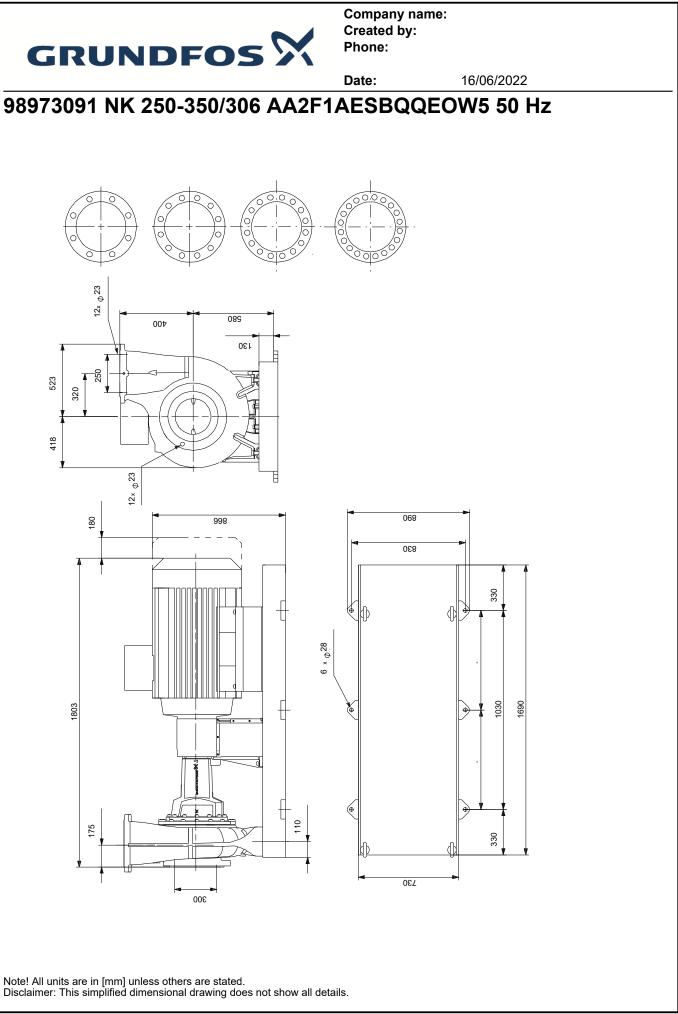


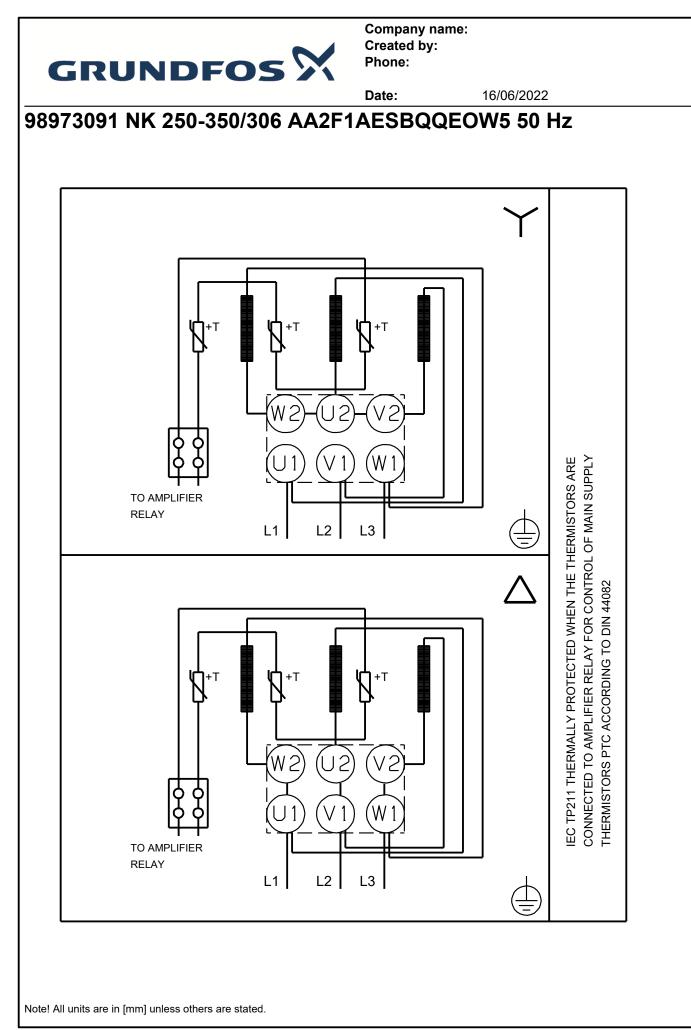
		Date: 16/06/2022
Description	Value	H [m] NK 250-350/306, 3*400 V, 50Hz [%]
General information:		Pumped liquid = Water Liquid temperature during operation = 20 °C
Product name:	NK 250-350/306 AA2F1AESBQQEOW5	12 - 306 mm Density = 998.2 kg/m ³
Product No:	98973091	
EAN number:	5712604498088	10
Technical:		9
Pump speed on which pump data are based:	975 rpm	8
Rated flow:	520.7 m³/h	7-
Pump with motor (Yes/No):	Y	6
Rated head:	8.689 m	
Actual impeller diameter:	306 mm	5
Nominal impeller diameter:	350	4 - 80
Shaft diameter:	48 mm	3 60
Code for shaft seal:	BQQE	
Mechanical seal type:	Single	2 40
Curve tolerance:	ISO9906:2012 3B	120
Pump version:	A2	
Bearing design:	Standard	0 100 200 300 400 500 600 700 Q [m³/h]
Materials:		P [kW] [m]
Pump housing:	Cast iron	[ivi]
Pump housing:	EN-GJL-250	15
Pump housing:	ASTM class 35	P2
Wear ring:	Brass	10 10
Impeller:	Cast iron	
Impeller:	EN-GJL-200	
Impeller:	ASTM class 30	55
Internal pump house coating:	CED	
Material code:	A	
Code for rubber:	E	
Shaft:	– Stainless steel	
Shaft:	EN 1.4301	
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	
Type of outlet connection:	DIN	
Size of inlet connection:	DN 300	
Size of outlet connection:	DN 250	
Pressure rating for connection:	PN 10	
Coupling type:	Flexible w/spacer	
Base frame design:	EN/ISO	le el
Code for base frame:	10E	
Grouting (Yes/No):	N	~
Connect code:	F	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m ³	NO AMPURER NELAW L1 L2 L3
Electrical data:	··· U···	
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	
	20.0/11.27	

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	Date:	16/06/2022
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 BEA	RING	
Controls:		
Frequency converter: NONE		
Pressure sensor: N		
Others:		
Minimum efficiency index, MEI ≥: 0.70		
Net weight: 1040 kg		
Gross weight: 1130 kg		
Shipping volume: 2.53 m ³		
Country of origin: HU		
Custom tariff no.: 84137059		







16/06/2022

Order Data:

Product name:NK 250-350/306Amount:1Product No:98973091

Total: Price on request