

Qty. 1 Company name: Created by: Phone:

GRUNDFOS 21	i nono:	
	Date:	16/06/2022
Description		
NK 250-350/330 AA2F1AESBQQEPW5		
Note! Product picture	may differ from ac	ctual product
Product No.: 98973093		
Non-self-priming, single-stage, centrifugal pump design performance according to EN 733. Flanges are PN 10 axial suction port, a radial discharge port and horizonta coupling, bearing bracket and impeller without disturbin	with dimensions al shaft. It is of th ng the motor, pu	s according to EN 1092-2. The pump has an ne back pull-out design enabling removal of the
The unbalanced rubber bellows seal is according to DII The pump is fitted with a foot-mounted, fan-cooled asyn base frame.		or. Pump and motor are mounted on a common
The product's minimum efficiency index (MEI) is greate considered as an indicative benchmark for best-perform 2013.	er or equal to 0.3 ming water pum	70. This is by the Commission Regulation (EU) p available on the market as from 1 January
Pump and motor are mounted on a common steel base The back pull-out design together with a spacer couplir the pump housing and motor from the base frame.		
This saves realignment of pump and motor after service	e.	
1) Remove coupling.	4	
2) Remove the bolts in the bearing bracket support for3) Remove the bearing bracket from the pump housing		
	·ʊ·	
Pump The pump housing has both a priming and a drain hole	closed by plug	s. The impeller is a closed impeller with
double-curved blades with smooth surfaces. The impel and hydraulically balanced to compensate for axial thru	ler is statically t ust.	palanced according to ISO 1940-1 class G6.3
Wear rings used in pump housing and for impeller are not the pump is fitted with an unbalanced rubber bellows sellows. Due to the bellows, the seal does not wear the on the shaft.	seal with torque	transmission across the spring and around the
 {IMG Filename: GRALON_NB-NK-G_SHAFTSEAL_Bx 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.

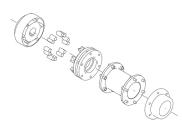
The shaft is made of stainless steel and has a diameter of 48 mm where the coupling is mounted.

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

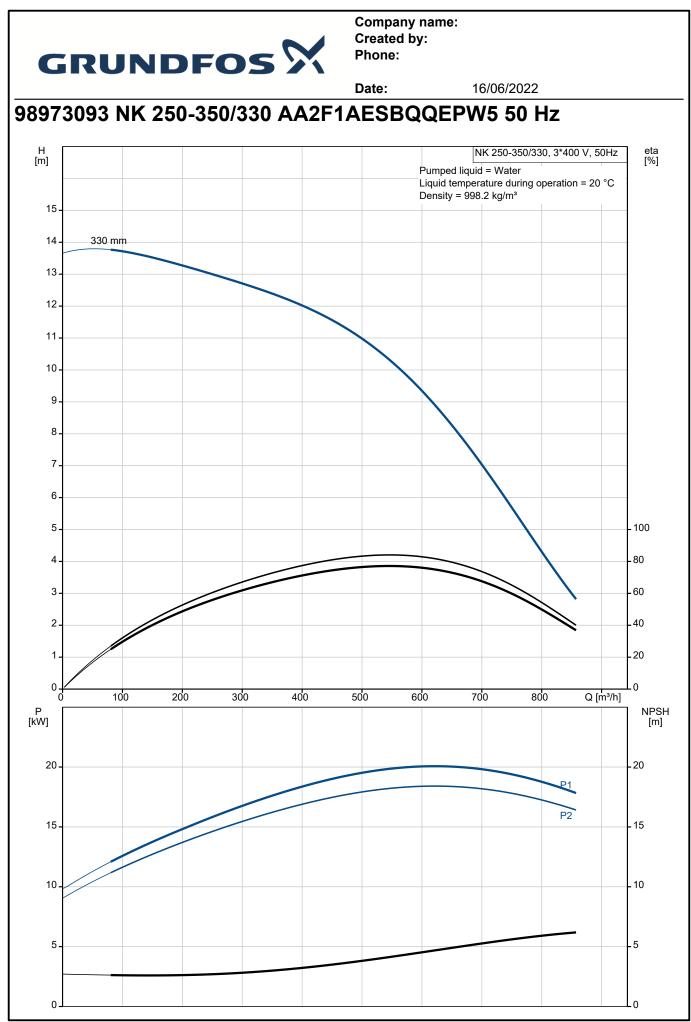
Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: Code for shaft seal: Mechanical seal type: Curve tolerance: Bearing design:	a are based: 978 rpm 542.4 m³/h Y 10.37 m 330 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



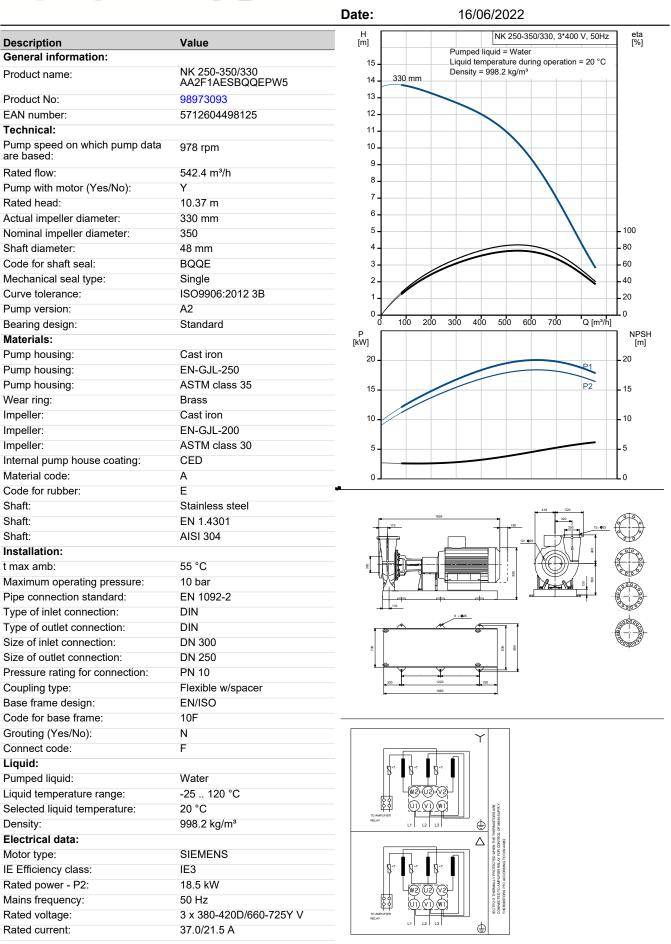
		Date:	16/06/2022	
Description				
Internal pump house coating: Shaft:	ASTM class 30 CED Stainless steel EN 1.4301 AISI 304			
Installation: t max amb: Maximum operating pressure:	55 °C 10 bar			
Pipe connection standard: Type of inlet connection: Type of outlet connection:	EN 1092-2 DIN DIN			
Size of inlet connection: Size of outlet connection: Pressure rating for connection:	DN 300 DN 250 PN 10			
Coupling type: Base frame design: Code for base frame:	Flexible w/spacer EN/ISO 10F			
Grouting (Yes/No):	N			
Electrical data:				
Motor type:	SIEMENS			
IE Efficiency class:	IE3			
Rated power - P2:	18.5 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-72	5Y V		
Rated current: Starting current:	37.0/21.5 A 560-560 %			
Cos phi - power factor:	0.79			
Rated speed:	978 rpm			
Efficiency:	IE3 91,7%			
Motor efficiency at full load:	91.7-91.7 %			
Motor efficiency at 3/4 load:	92.5-92.5 %			
Motor efficiency at 1/2 load:	92.4-92.4 %			
Number of poles:	6			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor No:	98957462			
Bearing insulation type N-end:	STEEL BEARING			

Others:

Outors.	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	1120 kg
Gross weight:	1220 kg
Shipping volume:	2.78 m³
Country of origin:	HU
Custom tariff no.:	84137059



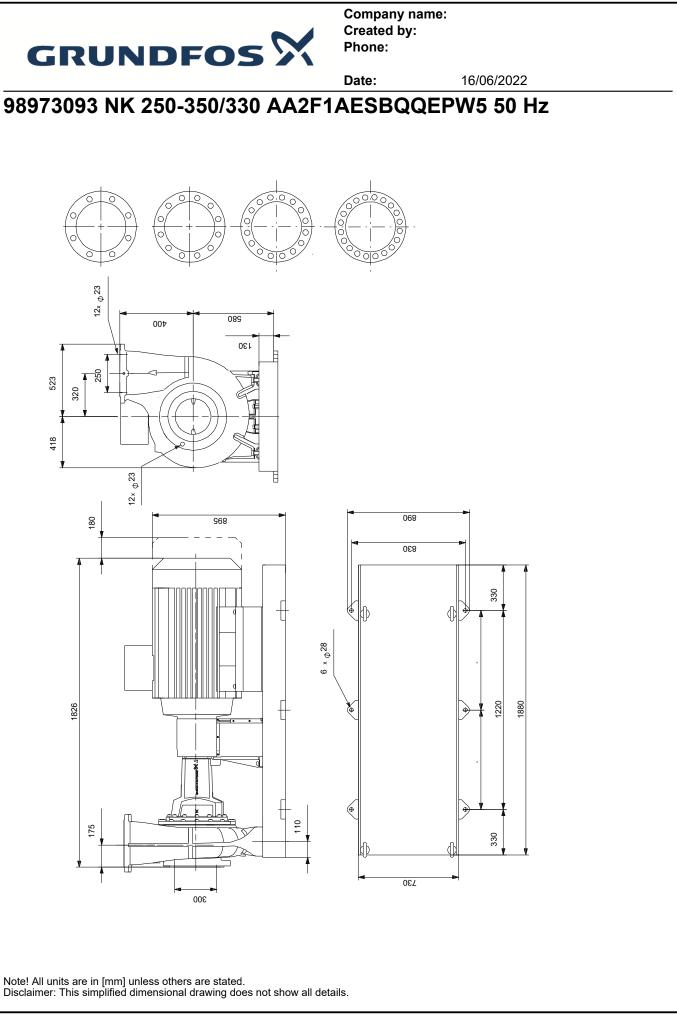


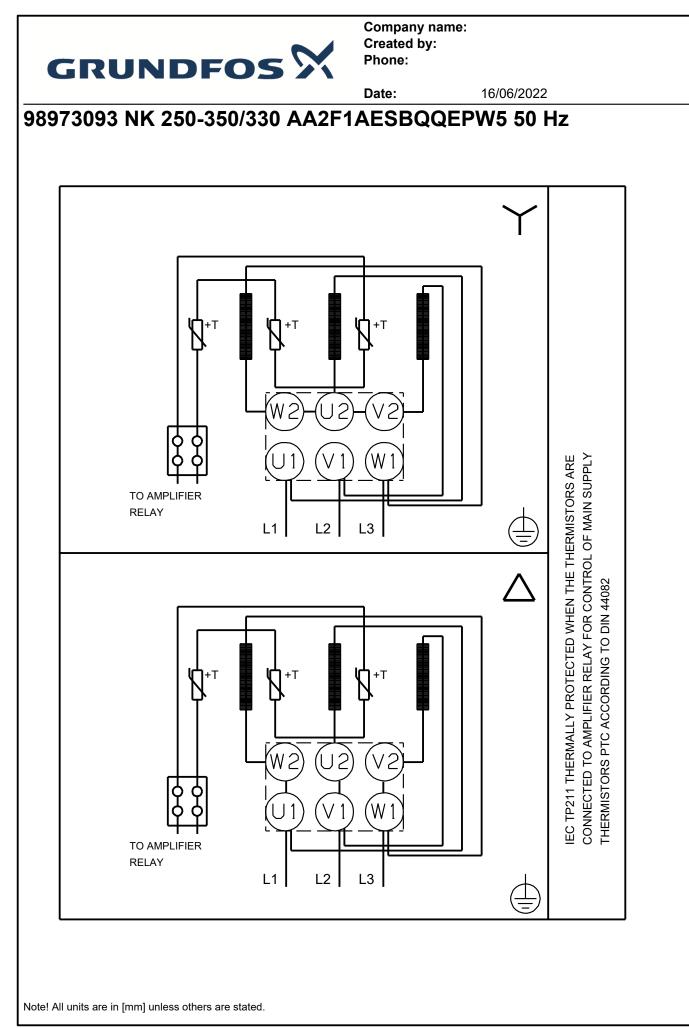


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		Date:	16/06/2022
Description	Value		
Starting current:	560-560 %		
Cos phi - power factor:	0.79		
Rated speed:	978 rpm		
Efficiency:	IE3 91,7%		
Motor efficiency at full load:	91.7-91.7 %		
Motor efficiency at 3/4 load:	92.5-92.5 %		
Motor efficiency at 1/2 load:	92.4-92.4 %		
Number of poles:	6		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	98957462		
Bearing insulation type N-end:	STEEL BEARING		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	1120 kg		
Gross weight:	1220 kg		
Shipping volume:	2.78 m³		
Country of origin:	HU		
Custom tariff no.:	84137059		







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Order Data:

Product name:NK 250-350/330Amount:1Product No:98973093

Total: Price on request