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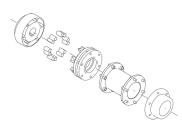
**Company name:** Created by:

Phone: Date: 16/06/2022 Qty. Description NK 250-500/485 AA2F1AESBQQEVW5 Note! Product picture may differ from actual product Product No.: 98973100 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 60 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: 990 rpm 625.2 m³/h Y 30.83 m 485 mm 500 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



16/06/2022

Description	
Internal pump house coating: Shaft:	ASTM class 30 CED Stainless steel EN 1.4301 AISI 304
Installation:	55 °C
t max amb:	10 bar
Maximum operating pressure:	EN 1092-2
Pipe connection standard:	DIN
Type of inlet connection:	DIN
Type of outlet connection:	DN 300
Size of outlet connection:	DN 250
Size of outlet connection:	PN 10
Pressure rating for connection:	Elevible w/spacer
Coupling type:	Flexible w/spacer
Base frame design:	EN/ISO
Code for base frame:	10D

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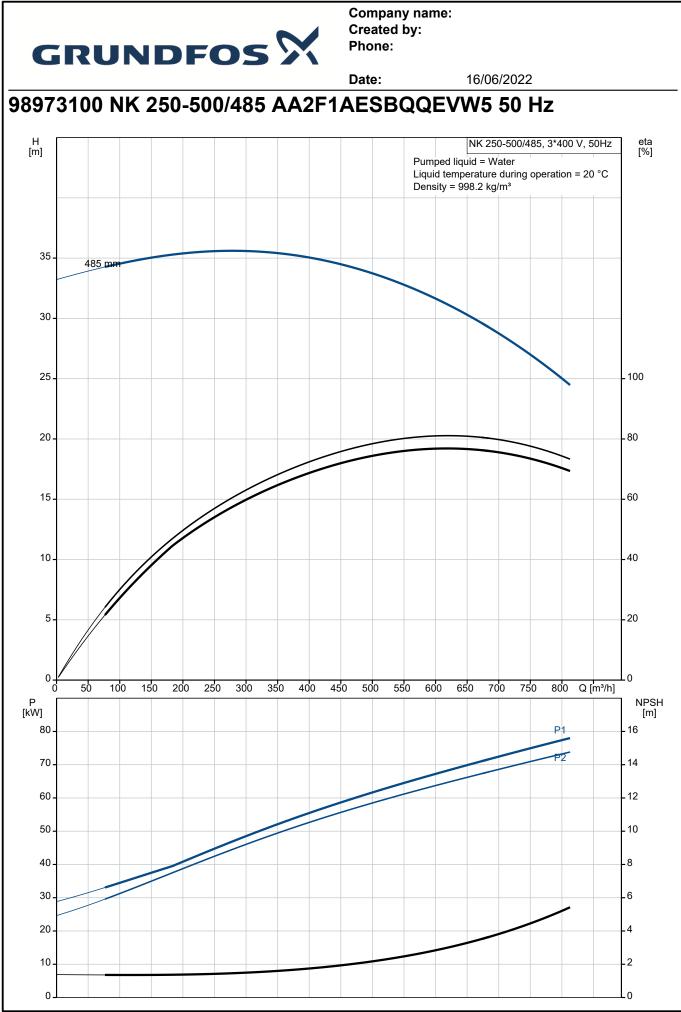
Date:

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
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:	136/79.0 A
Starting current:	750-750 %
Cos phi - power factor:	0.84
Rated speed:	990 rpm
Efficiency:	IE3 94,6%
Motor efficiency at full load:	94.6-94.6 %
Motor efficiency at 3/4 load:	94.9-94.9 %
Motor efficiency at 1/2 load:	94.9-94.9 %
Number of poles:	6
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	98957470
Bearing insulation type N-end:	STEEL BEARING
Others:	
Minimum efficiency index, MEI ≥:	0.45
Net weight:	1620 kg
Gross weight:	1740 kg
Shipping volume:	4.53 m³
Country of origin:	HU
0 1 1 10	04407050

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#### Qty. Description

Custom tariff no .:



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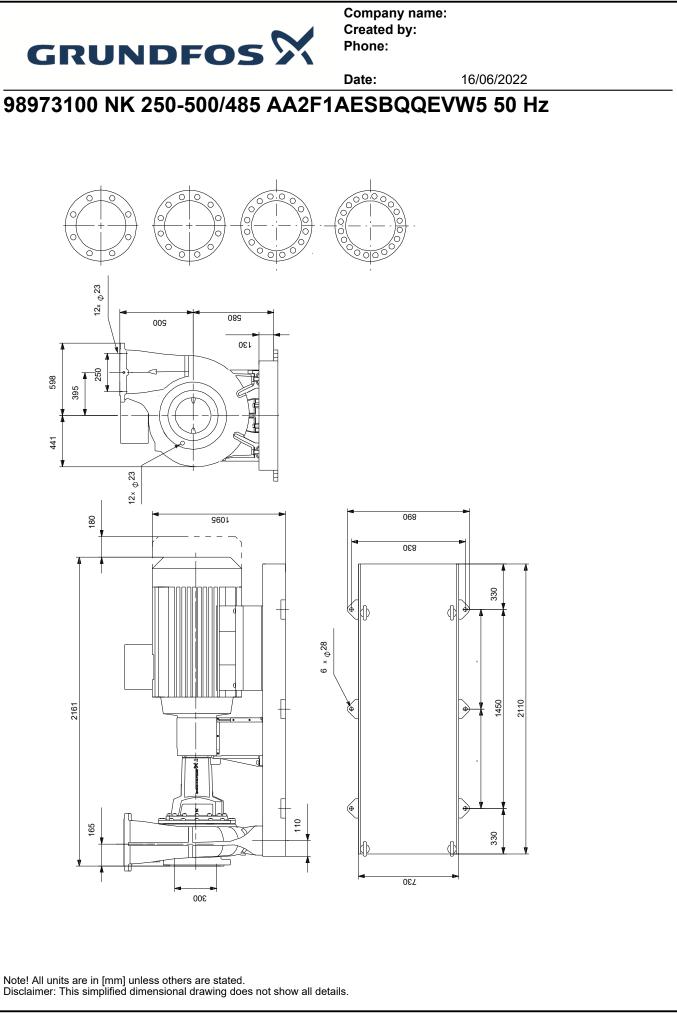


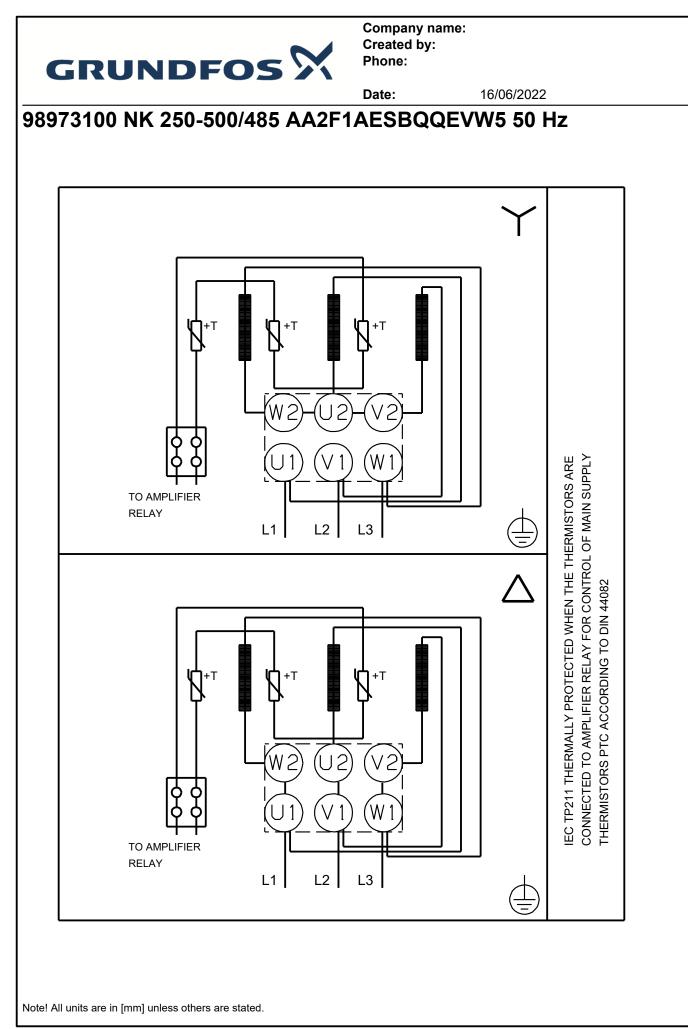
		Date:	16/06/2022
Description	Value	H [m]	NK 250-500/485, 3*400 V, 50Hz eta [%]
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C
Product name:	NK 250-500/485 AA2F1AESBQQEVW5		Density = 998.2 kg/m³
Product No:	98973100	35 -	485 mm
EAN number:	5712604498262		
Technical:		30 -	
Pump speed on which pump data are based:	990 rpm	25 -	100
Rated flow:	625.2 m³/h		
Pump with motor (Yes/No):	Y	20 -	80
Rated head:	30.83 m		
Actual impeller diameter:	485 mm	15 -	60
Nominal impeller diameter:	500		
Shaft diameter:	60 mm	10 -	40
Code for shaft seal:	BQQE		
Mechanical seal type:	Single	5 -	20
Curve tolerance:	ISO9906:2012 3B		
Pump version:	A2	0 -	
Bearing design:	Standard	0	100 200 300 400 500 600 700 Q [m³/h]
Materials:		P [kW]	P1 [m]
Pump housing:	Cast iron		
Pump housing:	EN-GJL-250	70 -	P2 14
Pump housing:	ASTM class 35	60 -	-12
Wear ring:	Brass	50 -	10
Impeller:	Cast iron	40 -	8
Impeller:	EN-GJL-200	30 -	-6
Impeller:	ASTM class 30	20 -	4
Internal pump house coating:	CED	10 -	2
Material code:	A		0
Code for rubber:	E		
Shaft:	Stainless steel		441 588
Shaft:	EN 1.4301	r	
Shaft:	AISI 304		
Installation:		A	
t max amb:	55 °C	8	
Maximum operating pressure:	10 bar	•_t/	
Pipe connection standard:	EN 1092-2		
Type of inlet connection:	DIN	-	tio Copes
Type of outlet connection:	DIN		
Size of inlet connection:	DN 300	_	
Size of outlet connection:	DN 250	200	) .
Pressure rating for connection:	PN 10		
Coupling type:	Flexible w/spacer		330 1450 330 2110
Base frame design:	EN/ISO		<del></del> ₩
Code for base frame:	10D		
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 <sup>3</sup>	TO AMPL RELAY	
Electrical data:	J		
Motor type:	SIEMENS		
IE Efficiency class:	IE3		
Rated power - P2:	75 kW		
Mains frequency:	50 Hz	—   r	
Rated voltage:	3 x 380-420D/660-725Y V	TO AMP	
Rated current:	136/79.0 A	RELAY	

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		Date:	16/06/2022
Description	Value		
Starting current:	750-750 %		
Cos phi - power factor:	0.84		
Rated speed:	990 rpm		
Efficiency:	IE3 94,6%		
Motor efficiency at full load:	94.6-94.6 %		
Motor efficiency at 3/4 load:	94.9-94.9 %		
Motor efficiency at 1/2 load:	94.9-94.9 %		
Number of poles:	6		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	98957470		
Bearing insulation type N-end:	STEEL BEARING		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.45		
Net weight:	1620 kg		
Gross weight:	1740 kg		
Shipping volume:	4.53 m³		
Country of origin:	HU		
Custom tariff no.:	84137059		







16/06/2022

# Order Data:

Product name:NK 250-500/485Amount:1Product No:98973100

Total: Price on request