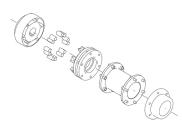


Date: 16/06/2022 Qty. Description 1 NK 200-400/308 AA2F1AESBQQEOW5 Note! Product picture may differ from actual product Product No.: 98973148 Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 10 with 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.

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 306.7 m³/h Y 12.73 m 308 mm 400 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



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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	10E

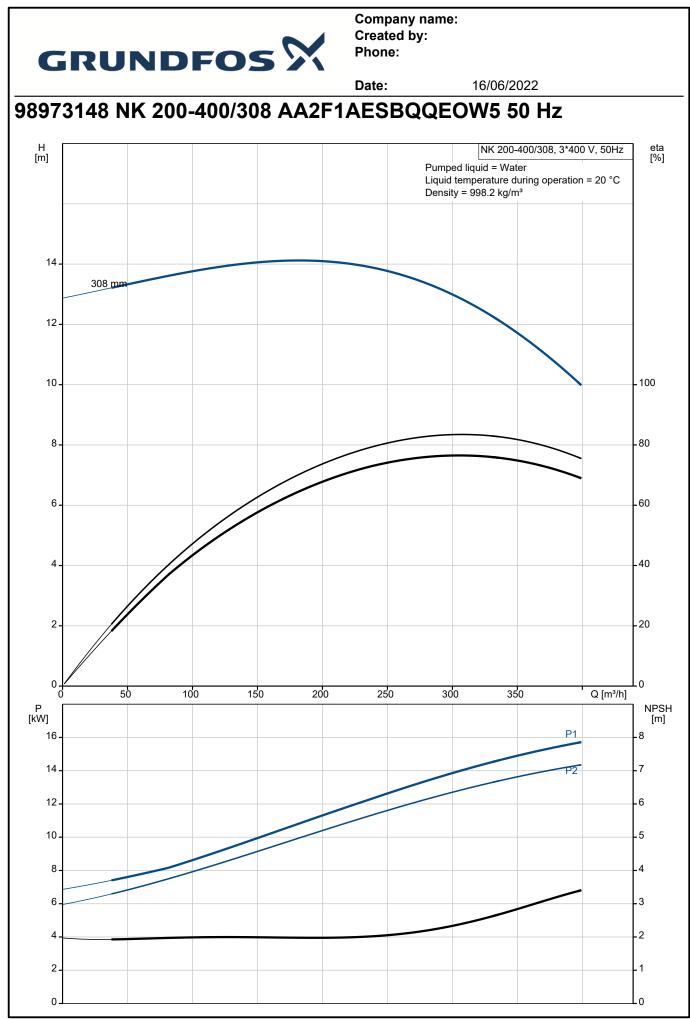
Date:

Qty. | Description

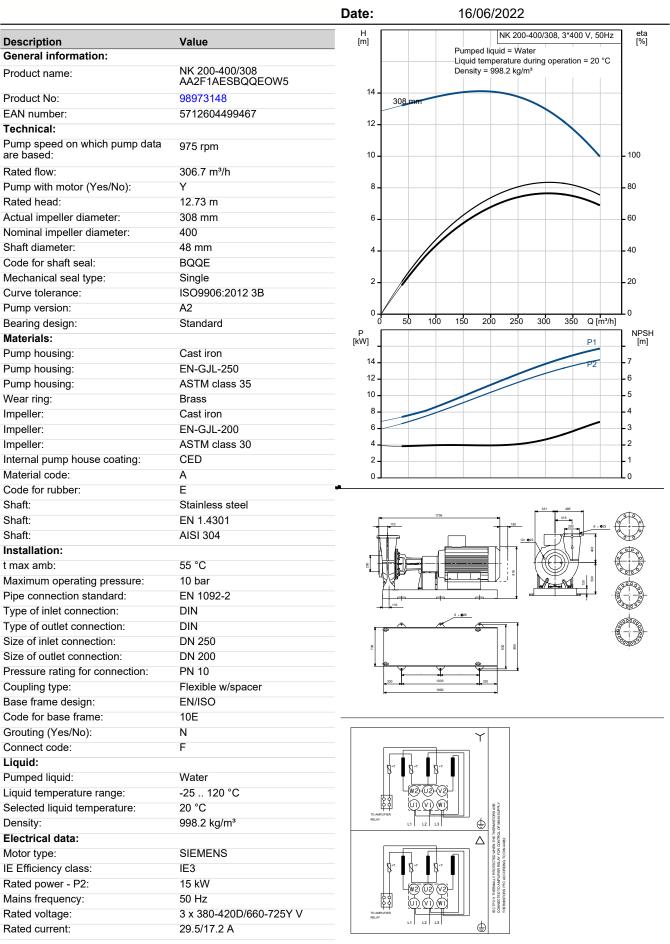
Maximum operating pressure: Pipe connection standard: Type of inlet connection: Type of outlet connection: Size of outlet connection: Size of outlet connection: Pressure rating for connection: Coupling type: Base frame design: Code for base frame: Grouting (Yes/No):	10 bar EN 1092-2 DIN DIN DN 250 DN 200 PN 10 Flexible w/spacer EN/ISO 10E N
Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No: Bearing insulation type N-end:	SIEMENS IE3 15 kW 50 Hz 3 x 380-420D/660-725Y V 29.5/17.2 A 590-590 % 0.80 975 rpm IE3 91,2% 91.2-91.2 % 92.0-92.0 % 91.9-91.9 % 6 IP55 F 98957461 STEEL BEARING
Others: Minimum efficiency index, MEI ≥: Net weight: Gross weight: Shipping volume: Country of origin:	0.69 931 kg 1020 kg 2.42 m ³ HU

84137059

Custom tariff no .:



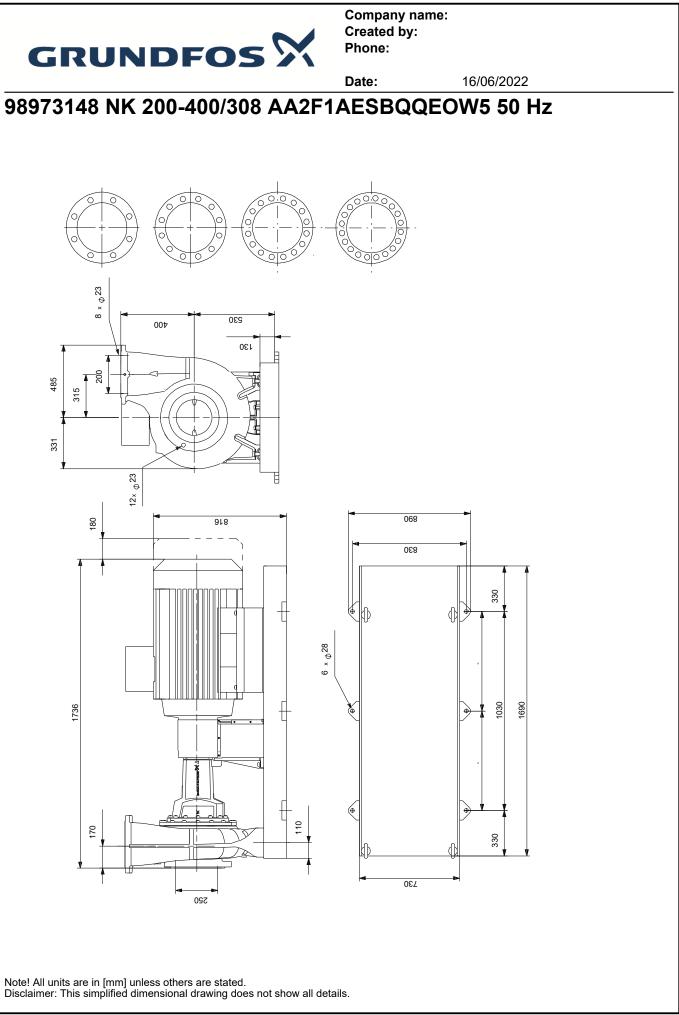


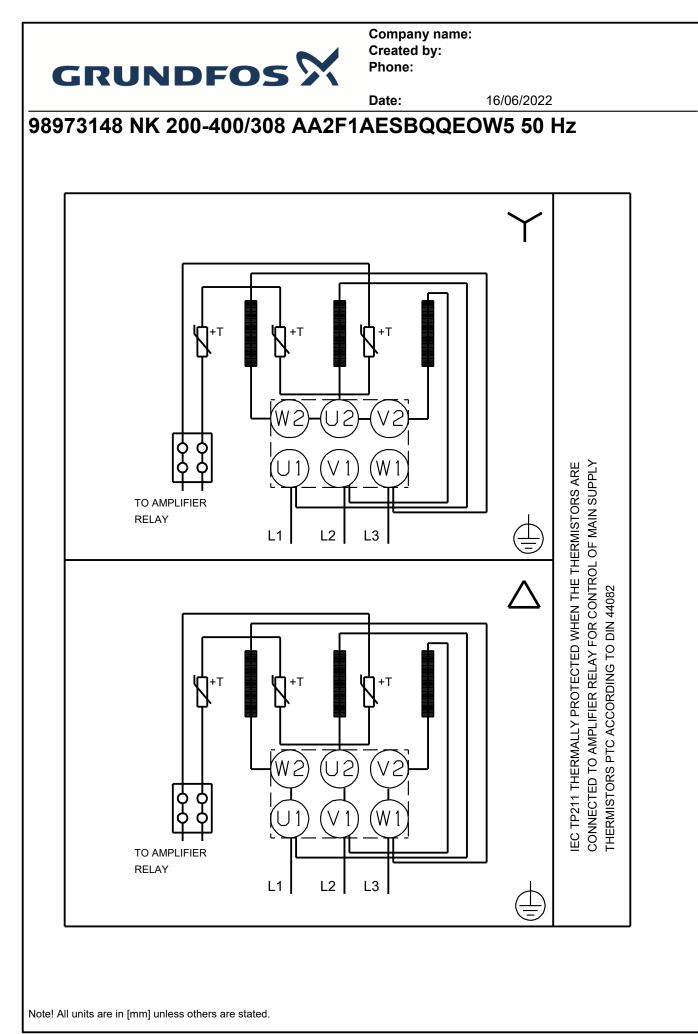


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		Date:	16/06/2022	
Description	Value			
Starting current:	590-590 %			
Cos phi - power factor:	0.80			
Rated speed:	975 rpm			
Efficiency:	IE3 91,2%			
Motor efficiency at full load:	91.2-91.2 %			
Motor efficiency at 3/4 load:	92.0-92.0 %			
Motor 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 BEARING			
Controls:				
Frequency converter:	NONE			
Pressure sensor:	Ν			
Others:				
Minimum efficiency index, MEI ≥:	0.69			
Net weight:	931 kg			
Gross weight:	1020 kg			
Shipping volume:	2.42 m ³			
Country of origin:	HU			
Custom tariff no.:	84137059			







16/06/2022

Order Data:

Product name:NK 200-400/308Amount:1Product No:98973148

Total: Price on request