

16/06/2022

Qty. | Description

1

NK 32-160.1/172 AA2F2AESBQQEDW3



Note! Product picture may differ from actual product

Product No.: 98986247

Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 16 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.

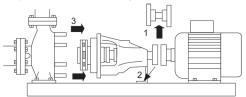
Pump and motor are mounted on a common steel base frame in accordance with ISO 3661.

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.

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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.

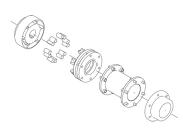
The shaft is made of stainless steel and has a diameter of 24 mm where the coupling is mounted.

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



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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 IE2 in accordance with IEC 60034-30.

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

# 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**

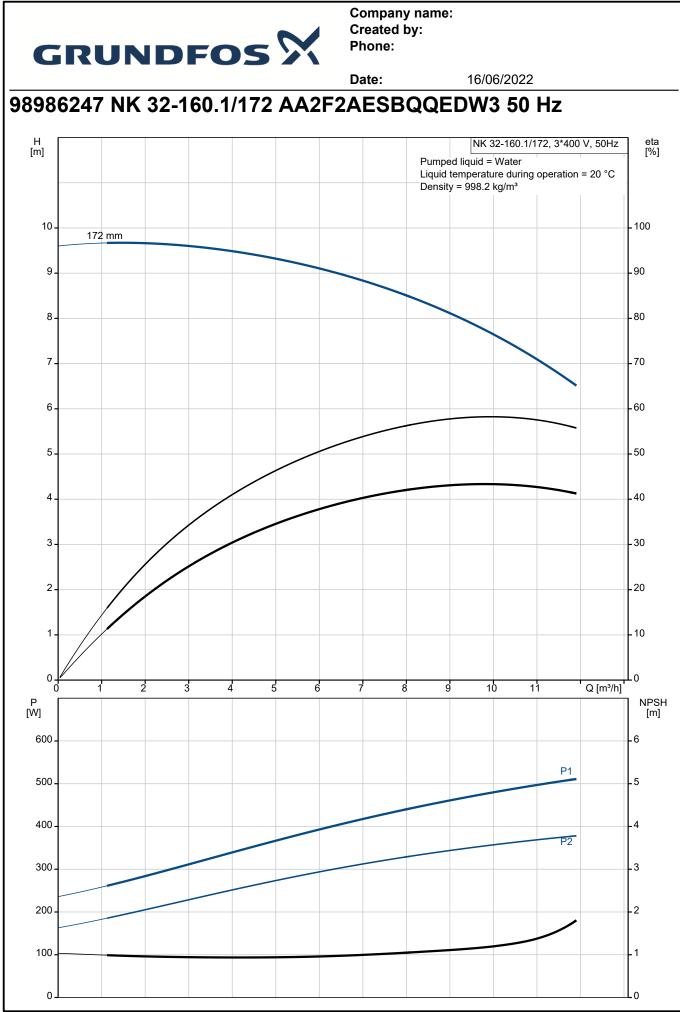
Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: Code for shaft seal: Mechanical seal type: Curve tolerance: Bearing design:	a are based: 1400 rpm 9.85 m³/h Y 7.551 m 172 mm 160.1 BQQE Single ISO9906:2012 3B2 Standard
Materials: Pump housing:	Cast iron EN-GJL-250 ASTM class 35
Wear ring: Impeller:	Brass Cast iron EN-GJL-200 ASTM class 30
Internal pump house coating: Shaft:	CED Stainless steel EN 1.4301



Date:

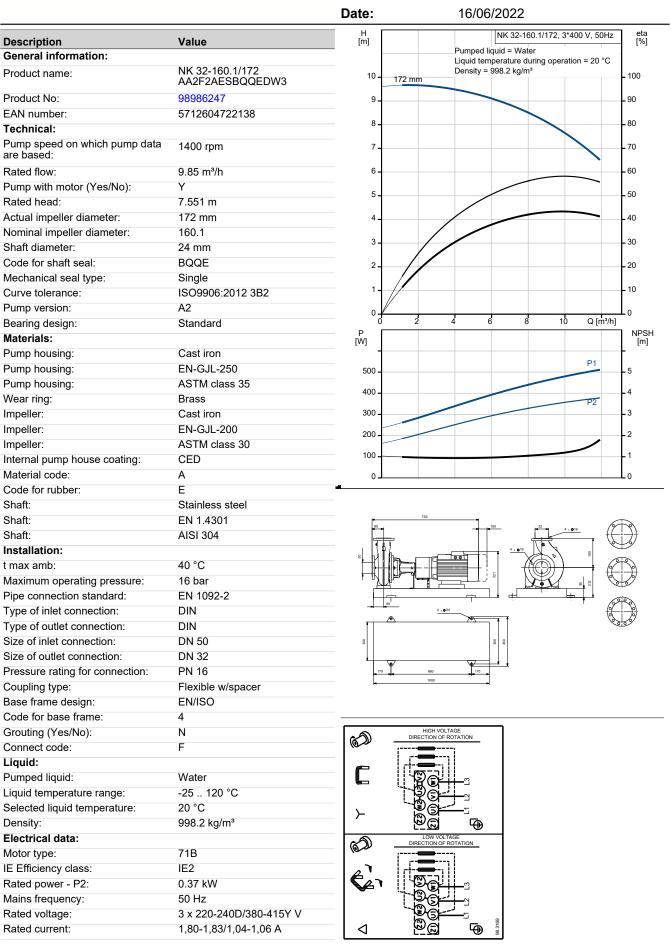
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Description		
	AISI 304	
	40.00	
	PN 16	
Coupling type:	Flexible w/spacer	
Base frame design:	EN/ISO	
	4	
Grouting (Yes/No):	Ν	
Electrical data:		
Motor type:		
	75.6 %	
Motor efficiency at 1/2 load:	73.8 %	
Number of poles:	4	
	-	
Bearing insulation type N-end:	STEEL BEARING	
Others:	0.70	
	Installation: t max amb: Maximum operating pressure: Pipe connection standard: Type of inlet 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): 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 at J/4 load: Motor efficiency at J/4 load: Motor efficiency at J/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 35): Motor No: Bearing insulation type N-end: Others:	AISI 304Installation: t max amb:40 °C Maximum operating pressure: Pipe connection standard: Type of inlet connection: DIN Size of inlet connection: DIN Size of outlet connection: DN 50 Dise of outlet connection: Pressure rating for connection: PN 16 Coupling type: Base frame design: Code for base frame: A Grouting (Yes/No): NElectrical data: Motor type: Rated power - P2: Cos phi - power factor: Cos phi - power factor: Cos phi - power factor: Disson 1300-1410 pm Efficiency at 3/4 load: T2.8-73.1 % Motor efficiency at 1/2 load: T3.8 % Number of poles: A Enclosure class (IEC 34-5): S5 Dust/Jetting Insulation class (IEC 34-5): S5 Dust/Jetting Insulation class (IEC 34-5): S5 Dust/Jetting Insulation type N-end: STEEL BEARINGOthers: Minimum efficiency index, MEI ≥: Minimum eff



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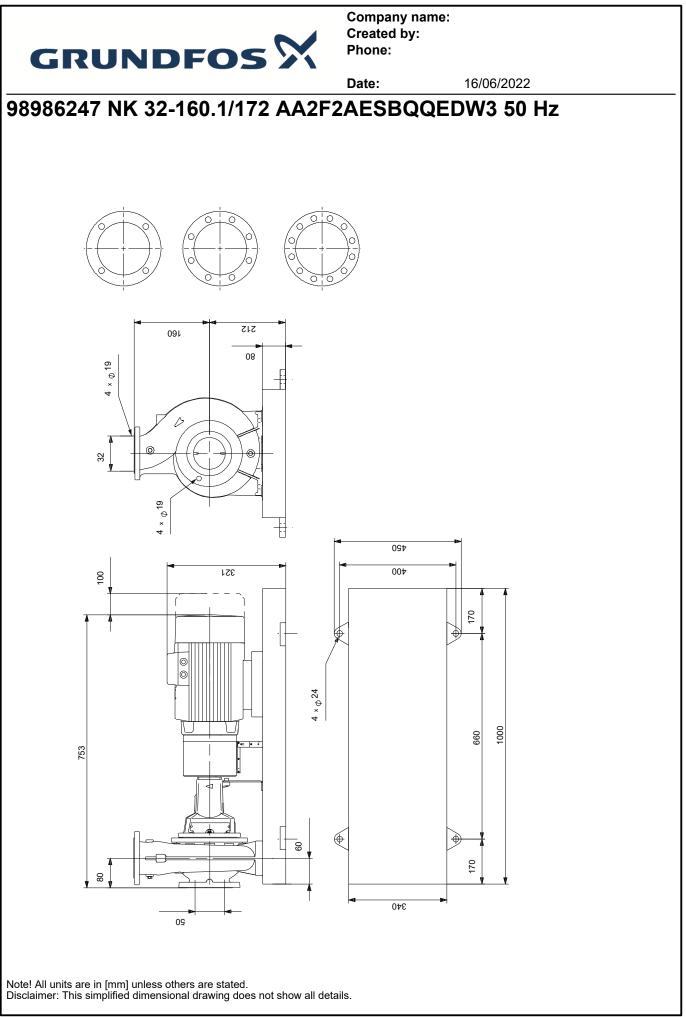


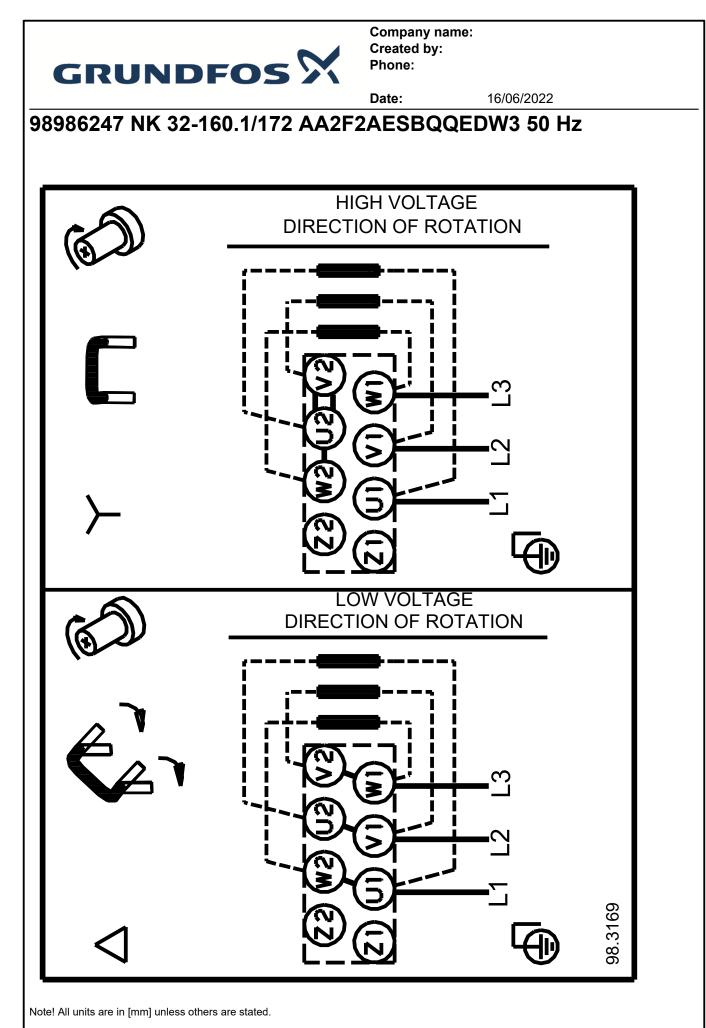


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		Date:	16/06/2022	
Description	Value			
Starting current:	390-430 %			
Cos phi - power factor:	0.78-0.69			
Rated speed:	1390-1410 rpm			
Efficiency:	IE2 72,8% - IE2 73,1%			
Motor efficiency at full load:	72.8-73.1 %			
Motor efficiency at 3/4 load:	75.6 %			
Motor efficiency at 1/2 load:	73.8 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Built-in motor protection:	NONE			
Motor No:	99957666			
Bearing insulation type N-end:	STEEL BEARING			
Controls:				
Frequency converter:	NONE			
Pressure sensor:	Ν			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	97.2 kg			
Gross weight:	111 kg			
Shipping volume:	0.279 m³			
Country of origin:	HU			
Custom tariff no.:	84137059			







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# Order Data:

Product name:NK 32-160.1/172Amount:1Product No:98986247

Total: Price on request