

16/06/2022

Qty. | Description

1

NK 40-160/151 AA2F2AESBQQEEW3



Note! Product picture may differ from actual product

Product No.: 98986504

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.

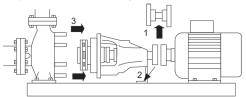
Pump and motor are mounted on a common steel base frame in accordance with ISO 3661.

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.

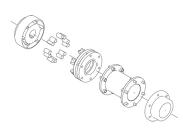
The shaft is made of stainless steel and has a diameter of 24 mm where the coupling is mounted.

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 IE3 in accordance with IEC 60034-30-1.

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

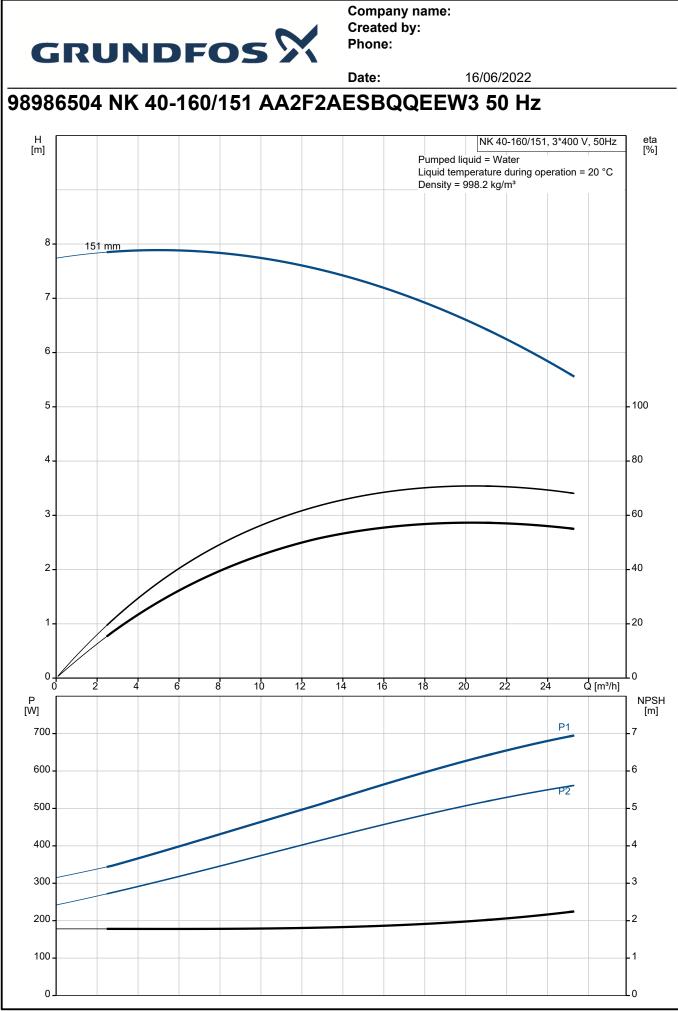
Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: Code for shaft seal: Mechanical seal type: Curve tolerance: Bearing design:	a are based: 1440 rpm 17.88 m³/h Y 6.904 m 151 mm 160 BQQE Single ISO9906:2012 3B2 Standard
Materials: Pump housing:	Cast iron EN-GJL-250
Wear ring: Impeller:	ASTM class 35 Brass Cast iron EN-GJL-200
Internal pump house coating: Shaft:	ASTM class 30 CED Stainless steel EN 1.4301



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Qty.	Description	
		AISI 304
	Installation:	
	t max amb:	55 °C
	Maximum operating pressure:	16 bar
	Pipe connection standard:	EN 1092-2
	Type of inlet connection:	DIN
	Type of outlet connection:	DIN
	Size of inlet connection:	DN 65
		DN 65
	Size of outlet connection:	PN 16
	Pressure rating for connection:	
	Coupling type:	Flexible w/spacer EN/ISO
	Base frame design: Code for base frame:	4
		4 N
	Grouting (Yes/No):	N
	Electrical data:	
	Motor type:	SIEMENS
	IE Efficiency class:	IE3
	Rated power - P2:	0.55 kW
	Mains frequency:	50 Hz
	Rated voltage:	3 x 220-240D/380-420Y V
	Rated current:	2.2/1.26 A
	Starting current:	590-590 %
	Cos phi - power factor:	0.78
	Rated speed:	1440 rpm
	Efficiency:	IE3 80,8%
	Motor efficiency at full load:	80.8-80.8 %
	Motor efficiency at 3/4 load:	81.1-81.1 %
	Motor efficiency at 1/2 load:	79.3-79.3 %
	Number of poles:	4
	Enclosure class (IEC 34-5):	IP55
	Insulation class (IEC 85):	F
	Motor No: Bearing insulation type N-end:	99901328 N
	bearing insulation type N-end.	
	Others:	0.70
	Minimum efficiency index, MEI ≥:	
	Net weight:	105 kg
	Gross weight:	118 kg
	Shipping volume:	0.279 m³ HU
	Country of origin: Custom tariff no.:	84137059
		64137039



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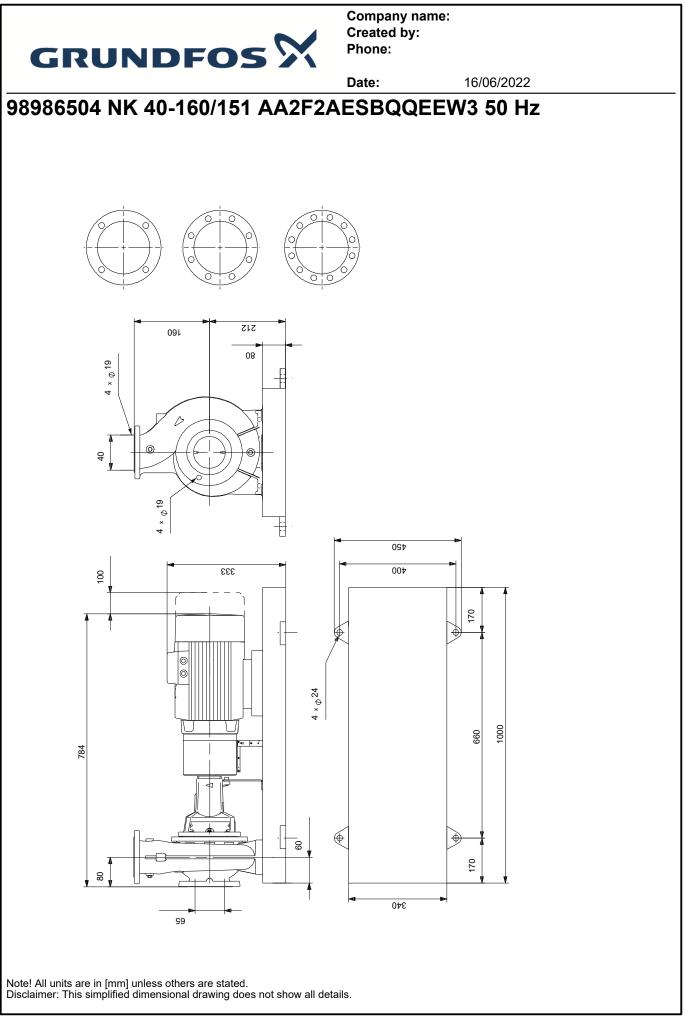


GRUND		Date: 16/06/2022
Description General information:	Value	H [m] NK 40-160/151, 3*400 V, 50Hz [%] Pumped liquid = Water
Product name:	NK 40-160/151 AA2F2AESBQQEEW3	Liquid temperature during operation = 20 °C Density = 998.2 kg/m³ 8 - 151 mm
Product No:	98986504	8 - 151 mm
EAN number:	5712604725979	7
Technical:	0112001120010	
Pump speed on which pump data are based:	1440 rpm	6-
Rated flow:	17.88 m³/h	5 - 100
Pump with motor (Yes/No):	Υ	
Rated head:	6.904 m	4
Actual impeller diameter:	151 mm	
Nominal impeller diameter:	160	3-60
Shaft diameter:	24 mm	
Code for shaft seal:	BQQE	2-40
Mechanical seal type:	Single	120
Curve tolerance:	ISO9906:2012 3B2	
Pump version:	A2	
Bearing design:	Standard	0 5 10 15 20 Q [m³/h]
Materials:		P [W] P1 [m]
Pump housing:	Cast iron	
Pump housing:	EN-GJL-250	600 6
Pump housing:	ASTM class 35	500 5
Wear ring:	Brass	400 - 4
Impeller:	Cast iron	300 - 3
Impeller:	EN-GJL-200	
Impeller:	ASTM class 30	200 - 2
Internal pump house coating:	CED	100 - 1
Material code:	A	0
Code for rubber:	E	
Shaft:	Stainless steel	
Shaft:	EN 1.4301	
Shaft:	AISI 304	
Installation:		
t max amb:	55 °C	
Maximum operating pressure:	16 bar	
Pipe connection standard:	EN 1092-2	
Type of inlet connection:	DIN	
Type of outlet connection:	DIN	
Size of inlet connection:	DN 65	99
Size of outlet connection:	DN 40	
Pressure rating for connection:	PN 16	
Coupling type:	Flexible w/spacer	▶ <u>+</u>
Base frame design:	EN/ISO	
Code for base frame:	4	
Grouting (Yes/No):	Ν	LOW VOLTAGE DIRECTION OF ROTATION
Connect code:	F	
Liquid:		
Pumped liquid:	Water	(W2) (V2)
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:		HIGH VOLTAGE DIRECTION OF ROTATION
Motor type:	SIEMENS	
IE Efficiency class:	IE3	
Rated power - P2:	0.55 kW	(w2)-(v2)
Mains frequency:	50 Hz	
Rated voltage: Rated current:	3 x 220-240D/380-420Y V 2.2/1.26 A	

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		Date:	16/06/2022
Description	Value		
Starting current:	590-590 %	_	
Cos phi - power factor:	0.78		
Rated speed:	1440 rpm		
Efficiency:	IE3 80,8%		
Motor efficiency at full load:	80.8-80.8 %		
Motor efficiency at 3/4 load:	81.1-81.1 %		
Motor efficiency at 1/2 load:	79.3-79.3 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	NONE		
Motor No:	99901328		
Bearing insulation type N-end:	Ν		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	105 kg		
Gross weight:	118 kg		
Shipping volume:	0.279 m³		
Country of origin:	HU		
Custom tariff no.:	84137059		

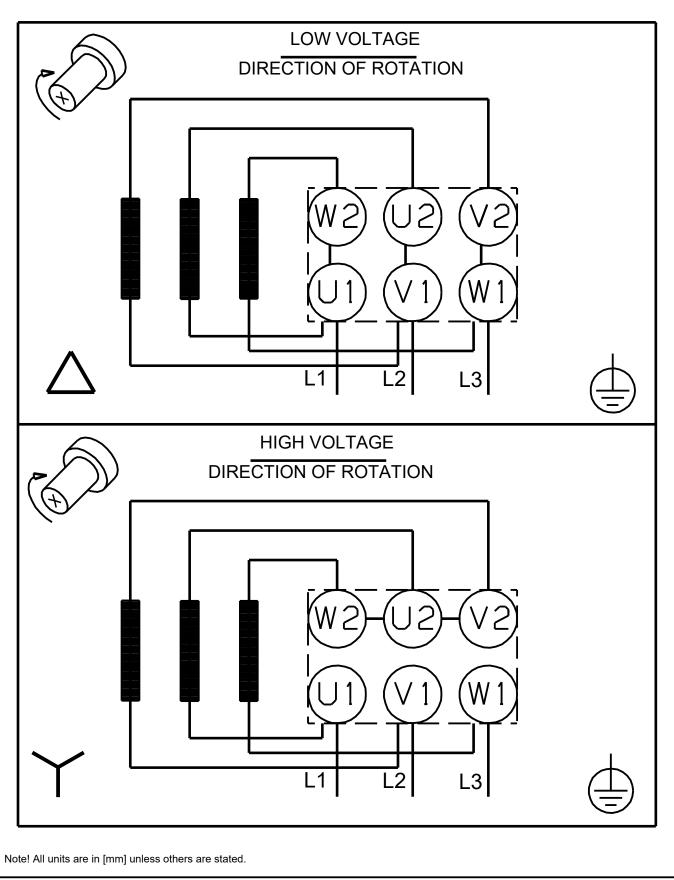




Date:

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98986504 NK 40-160/151 AA2F2AESBQQEEW3 50 Hz





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Order Data:

Product name:NK 40-160/151Amount:1Product No:98986504

Total: Price on request