

Date:

28/12/2022

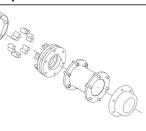
Qty. Description 1 NK 80-160/151 AA2F2AESBQQEOW1 Note! Product picture may differ from actual product Product No.: 98973525 Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 with dimensions and rated performance according to EN 733. Flanges are PN 16 with dimensions according 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 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 24 mm where the coupling is mounted. The pump uses a spacer coupling between the pump and motor shaft.



28/12/2022

Qty. | Description

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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

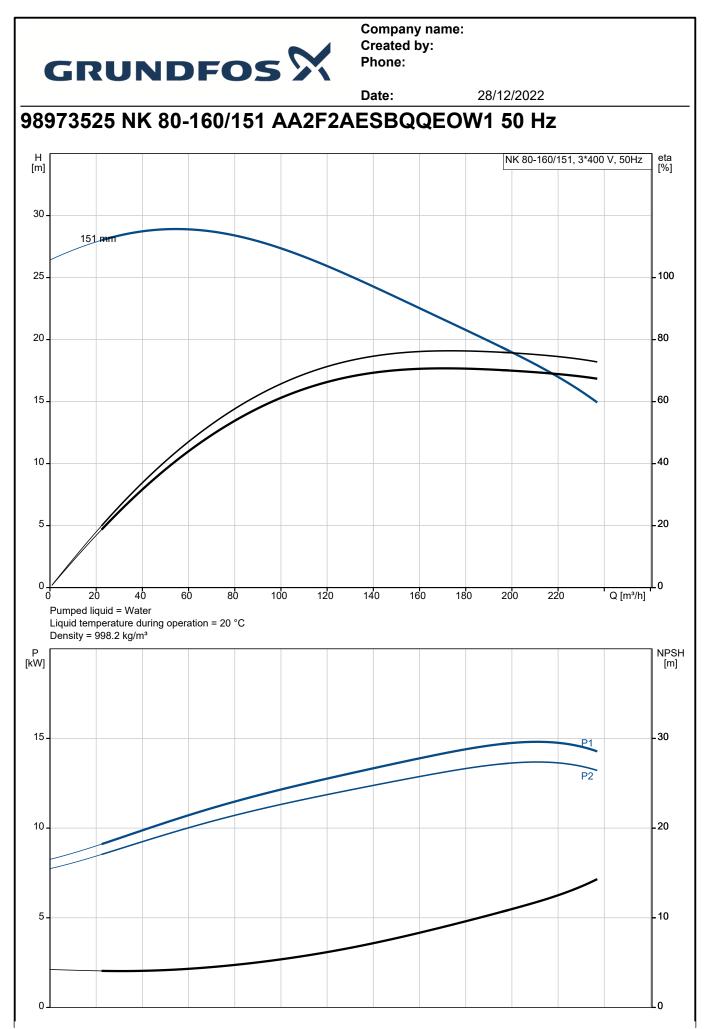
Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: Code for shaft seal: Mechanical seal type: Curve tolerance: Bearing design:	are based: 2940 rpm 181.5 m³/h Y 21.69 m 151 mm 160 BQQE Single ISO9906:2012 3B Standard
Materials: Pump housing: Wear ring: Impeller:	Cast iron EN-GJL-250 ASTM class 35 Brass Cast iron EN-GJL-200



		C	ate:	28/12/2022	
l	Description				
	Internal pump house coating: Shaft:	ASTM class 30 CED Stainless steel			
		EN 1.4301 AISI 304			
	Installation:				
	t max amb:	60 °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 100			
	Size of outlet connection:	DN 80			
		PN 16			
	Pressure rating for connection:				
	Coupling type:	Flexible w/spacer			
	Base frame design:	EN/ISO			
	Code for base frame:	6			
	Grouting (Yes/No):	Ν			
	Electrical data:				
	Motor type:	160MD			
	IE Efficiency class:	IE3			
	Rated power - P2:	15 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-415D/660-690Y	V		
	Rated current:	28,0-26,0/16,2-15,6 A			
	Starting current:	660-780 %			
	Cos phi - power factor:	0.89-0.87			
	Rated speed:	2930-2950 rpm			
	Efficiency:	IE3 91,9%			
	Motor efficiency at full load:	91.9 %			
	Motor efficiency at 3/4 load:	92.4 %			
	Motor efficiency at 1/2 load:	92.4 % 92.4 %			
	Number of poles:	2			
	-				
	Enclosure class (IEC 34-5):	55 Dust/Jetting			
	Insulation class (IEC 85):	F			
	Motor No:	87420025			
	Bearing insulation type N-end:	STEEL BEARING			
	Others:				
	Minimum efficiency index, MEI ≥:	0.70			
	Net weight:	241 kg			
	Cross weight	256 kg			

256 kg 0.495 m³

Gross weight: Shipping volume:

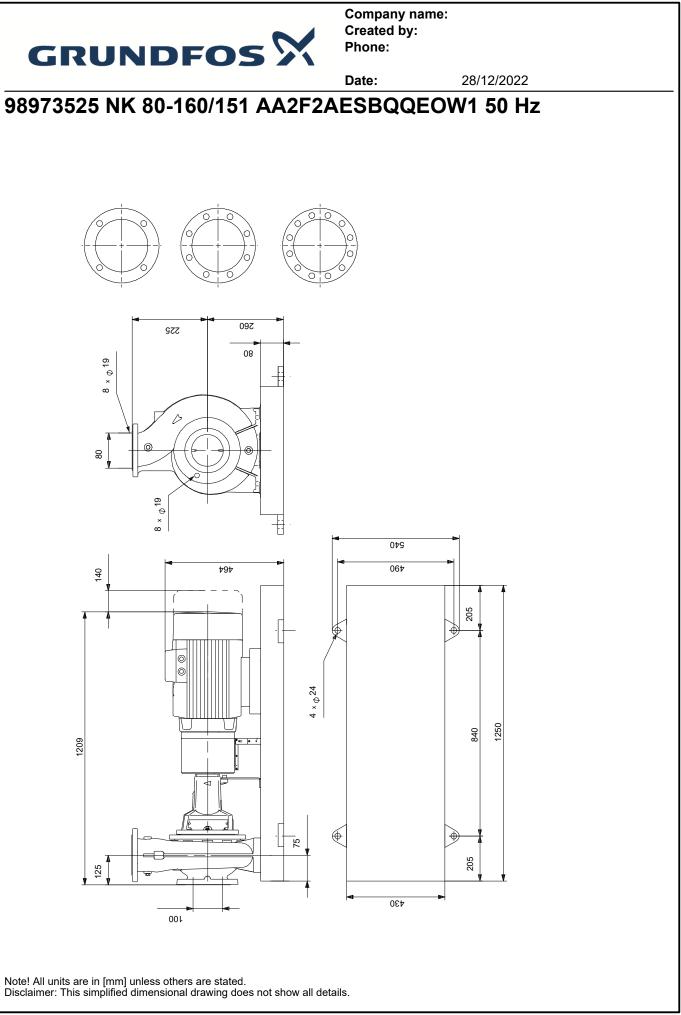


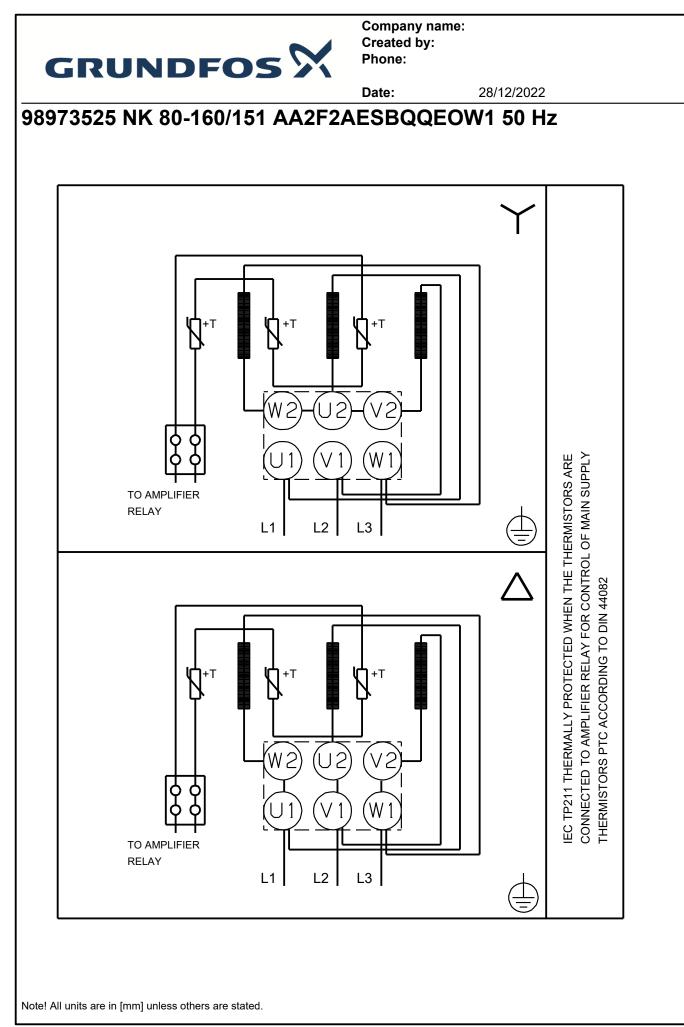


Description Value General Information: NK 89:180/151 Product name: NK 89:180/151 Addred Association (Control of the second of th	GRUND		Date:	28/12/2022
General Information: WK 80-160/151 Product Name: MXE2AESRQGEOW1 Product Name: 69073525 EAN number: 57/2804507315 Technical: Pump spaced on which pump data are based. Parae based. 2940 pm Rated flow: 1915 m/h Pump with moor (YusANo): Y Y Rated flow: 1915 m/h Pump with moor (YusANo): Y Y Rated flow: 1915 m/h Pump with moor (YusANo): Y Y Rated flow: 1915 m/h Pump with moor (YusANo): Y Y Rated flow: 1900 point Pump with moor (YusANo): Y Y Rated flow: 151 mm Normal impelier 1600 point Carse tagen: 150000E/D1212 3B Pump housing: EN-SL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeler: Cast iron Impeler: Cast iron Impeler: Cast iron Impeler: ASTM class 30 Internal pump house coating: A <	Description	Value	H [m]	NK 80-160/151, 3*400 V, 50Hz eta
Product name: NK 80/0131 AA2F2AESBODECWVI Product No: 948/735/5 EAN number: 97/1204567315 Technical: 940 rpm Pump sege of which pump data are based: 1815 m/h Pump sege of which pump data are based: 1815 m/h Pump visition: 1815 m/h Pump with motor (Yes/No): Y Rated head: 21 08 m Actual impolier diameter: 161 mm Dark of diameter: 24 mm Code for shaft seal: BOOE Pump with motor (Yes/No): Y Pump with motor (Yes/No): Y Pump with motor (Yes/No): Y Pump with motor (Yes/No): A2 Pump with motor (Yes/No): Cast (non Pump housing: ENSdL Pump housing: ENSdL Pump housing: ENSdL Pump housing: ENSdL				
Product No: Staff 3025 ENN number: 571280450315 Technical: Pumps speed on which pump data are based: Pump speed on which pump data are based: 2940 rpm Rated flow: 181.5 m/h Pump speed on which pump data 2940 rpm Rated flow: 181.5 m/h Pump speed on which pump data 2940 rpm Rated flow: 181.5 m/h Pump with motor (YesNo): Y Rated flow: 180.5 m/h Actual impalier diameter: 151 nm Oxde for shaft seai: BQQE Pump version: A2 Bearing delign: Standard Materials: Pump housing: Pump housing: Cast iron Pump housing: Cast iron Pump housing: Cast iron Pump housing: ASTM class 30 Intereller: Cast iron Ingeller: Cast iron Pump housing: ASTM class 30 Intereller: EN Ingeller: Cast iron Ingeller: Cast iron Ingeller: Cast iron Ingeller: Cast iron Ingeller: N Ingeller: N Ingel Inter connection: DIN	Product name:		151 mm	
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Pump space of which pump data are based: Ratad flow: Pump with motor (YesNo): Y Ratad fload: 21.69 m Actual impeller diameter: 51 m Actual impeller: Carle tolarance: Pump kousing: Curve tolerance: Pump kousing: Curve tolerance: Pump kousing: Curve tolerance: Pump kousing: Curve tolerance: Pump kousing: Curve tolerance: Pump kousing: Carle tolerance: Pum kousing: Carle t	EAN number:	5712604507315		
are based: Rated flow: Pump with motor (Yes/No): Y Rated head: Nominal impeller diameter: 150 mm. Nominal impeller diameter: 160 Shaft diameter: 160 OSD Shaft diameter: 160 OSD Shaft diameter: 160 OSD Pump housing: Pump housing: P	Technical:		20 -	- 80
Pump with motor (Yes/No): Y Rated head: 21.69 m Actual impeller diameter: 160 Nominal impeller diameter: 160 Code for shaft seal: BOOE Matchanical seal hype: Single Curve tolerance: ISO9906:2012 38 Pump version: A2 Bearing design: Standard Matchanis: Pump housing: EN-G3L-260 Pump housing: EN-G3L-260 Impeller: Cast iron Pump housing: EN-G3L-200 Impeller: Cast iron Pump housing: EN-G3L-200 Impeller: Cast iron Pump housing: CED Matchanical seal: Single Cast iron Pump housing: CED Matchanical seal: Single Cast iron Pump housing: CED Matchanical seal: A Shaft: Stanlass steel Shaft: Stanlass steel Shaft: Stanlass steel Shaft: EN 14301 Shaft: EN 1500 Code for hase frame: 6 Crouling (Ype: Flexble wispacer Ease frame design: EN/SO Code for hase frame: 6 Crouling (Ype: Flexble wispacer Ease frame design: EN/SO Code for hase frame: 6 Crouling (Ype: Flexble wispacer Ease frame design: EN/SO Code for hase frame: 6 Crouling (Ype: Flexble wispacer Ease frame design: EN/SO Code for hase frame: 3 Couling (Ype: Flexble wispacer Ease frame design: EN/SO Code for hase frame: 3 Couling (Ype: Flexble wispacer Ease frame design: 2 Code for hase frame: 3 Code for hase frame: 4 Code for hase frame design: 2	Pump speed on which pump data are based:	2940 rpm	15 -	-60
Rated head: Patcal impeller diameter: Start diameter: Start diameter: Code for shaft seal: BOOE Machanical seal type: Single Curve tolerance: ISO9906 2012 3B Pump version: A2 Bearing design: Cast fron Pump housing: Cast fron Pump housing: Cast fron Pump housing: Cast fron Pump housing: Cast fron Pump housing: Cast fron Inpeller: Inpeller: Inpeller: Inpeller: Inpeller: Internal pump house coating: CED Material code: A Code for nubber: Start: EN-GJL-200 Impeller: Inpeller: Inpeller: Inpeller: Inpeller: Start: Stainless stael Shaft: EN-GJL-200 Impeller: Inpeller: Instaliation: Instaliation: Instaliation: Instaliation: Instaliation: Type of outlet connection: DN N0 Size of nuble connection: DN N0 Size	Rated flow:	181.5 m³/h		
Rated head: 21.69 m Actual impeller diameter: 151 mm Nominal impeller diameter: 24 mm Code for shaft statl: BQQE Mechanical seal type: Single Curve tolerance: ISO990622012 38 Pump version: A2 Bearing design: Cast fron Pump housing: Pump housing: Pump housing: Pump housing: Pump housing: Pump housing: Pump housing: Cast fron Pump housing: Cast fron Pump housing: Cast fron Pump housing: Cast fron Pump house coating: Cast fron Start: ENGUL-200 Ingeler: Ingeler: Cast fron Pump house coating: Cast fron Start: ENGUL-200 Ingeler: Ingeler: Cast fron Pump house coating: Cast fron Cast for oubder: Start: ENGUL-200 Ingeler: Ingeler: Cast fron Couling for connection: DN 100 Size of ould connection: DN 100 Size	Pump with motor (Yes/No):	Y	10	40
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Mains frequency: 50 Hz Rated voltage: 3 x 380-415D/660-690Y V			₿⁺т ∎ ₿⁺т	
Rated voltage: 3 x 380-415D/660-690Y V				
Rated voltage: 3 X 380-4 I SD/060-690 Y V			日日日	
LI 121 121 121 1			TO AMPLIFIER RELAY	
Rated current: 28,0-26,0/16,2-15,6 A	Rated current:	28,0-26,0/16,2-15,6 A		



		Date:	28/12/2022
Description	Value		
Starting current:	660-780 %		
Cos phi - power factor:	0.89-0.87		
Rated speed:	2930-2950 rpm		
Efficiency:	IE3 91,9%		
Motor efficiency at full load:	91.9 %		
Motor efficiency at 3/4 load:	92.4 %		
Motor efficiency at 1/2 load:	92.4 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	87420025		
Bearing insulation type N-end:	STEEL BEARING		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	241 kg		
Gross weight:	256 kg		
Shipping volume:	0.495 m³		







Your pos.

Position

Company name: Created by: Phone:

28/12/2022 Date: **Order Data: Product name** Amount **Product No** Total NK 80-160/151 1 98973525 Price on request

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