

Date:

16/06/2022

Qty. | Description

1

NK 65-160/135 AA2F2AESBQQEFW3



Note! Product picture may differ from actual product

Product No.: 98973634

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.

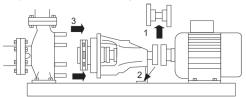
Pump and motor are mounted on a common steel base frame in accordance with ISO 3661.

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.

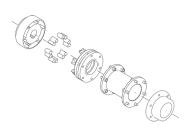
The shaft is made of stainless steel and has a diameter of 24 mm where the coupling is mounted.

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

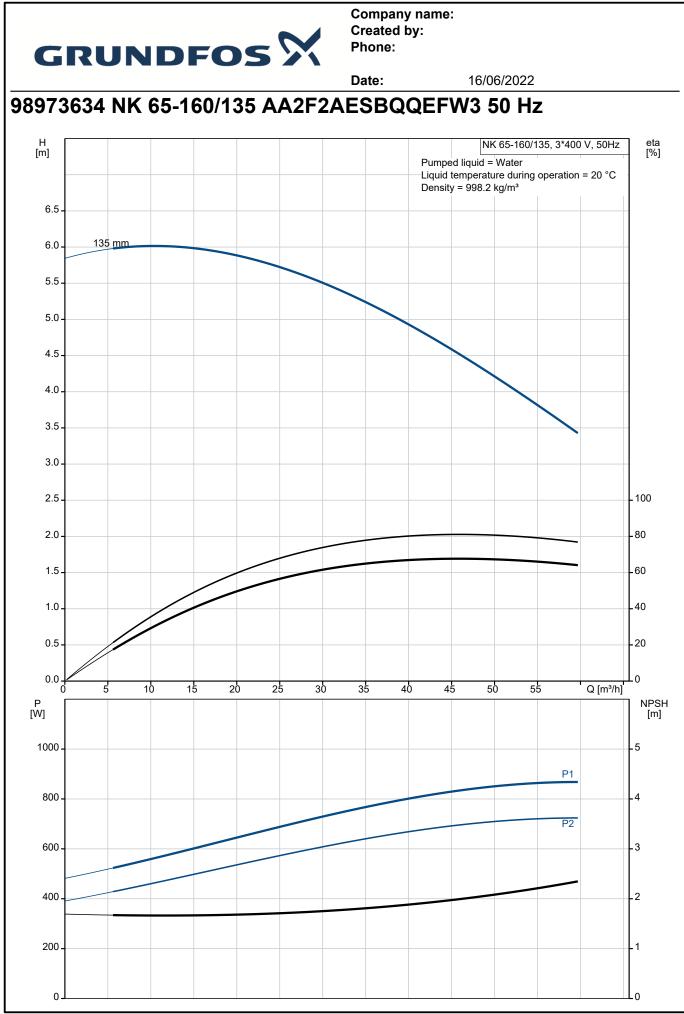
Controls: Frequency converter: Pressure sensor:	NONE N
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump data Rated flow: Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: Code for shaft seal: Mechanical seal type: Curve tolerance: Bearing design:	a are based: 1450 rpm 45.7 m³/h Y 4.5 m 135 mm 160 BQQE Single ISO9906:2012 3B2 Standard
Materials: Pump housing:	Cast iron EN-GJL-250 ASTM class 35
Wear ring: Impeller:	Brass Cast iron
Internal pump house coating: Shaft:	EN-GJL-200 ASTM class 30 CED Stainless steel EN 1.4301



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у.	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 80			
	Size of outlet connection:	DN 65			
	Pressure rating for connection:	PN 16			
	Coupling type:	Flexible w/spacer			
	Base frame design:	EN/ISO			
	Code for base frame:	4			
	Grouting (Yes/No):	Ν			
	Electrical data:				
	Motor type:	SIEMENS			
	IE Efficiency class:	IE3			
	Rated power - P2:	0.75 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 220-240D/380-4	201/ 1/		
	Rated current:	3.05/1.75 A	201 V		
		3.05/1.75 A 710-710 %			
	Starting current:				
	Cos phi - power factor:	0.75			
	Rated speed:	1450 rpm			
	Efficiency:	IE3 82,5%			
	Motor efficiency at full load:	82.5-82.5 %			
	Motor efficiency at 3/4 load:	82.3-82.3 %			
	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:	98957725			
	Bearing insulation type N-end:	Ν			
	Others:				
	Minimum efficiency index, MEI ≥:	0.70			
	Net weight:	114 kg			
	Gross weight:	127 kg			
	Shipping volume:	0.317 m ³			
	Country of origin:	HU			
	Custom tariff no.:	84137059			
		04137033			
	1				



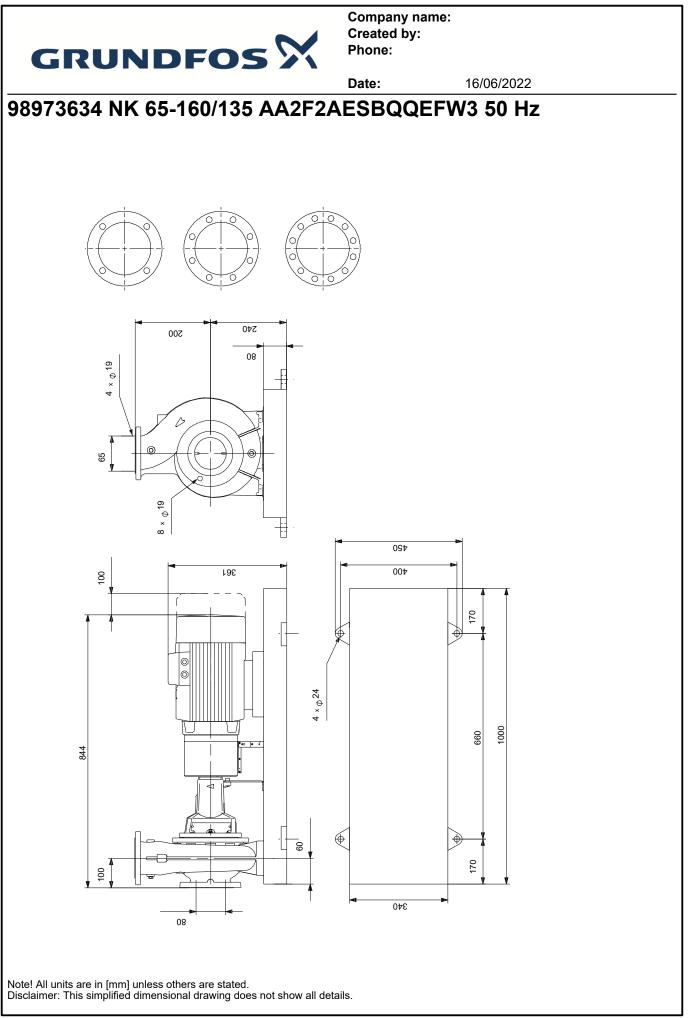


		н		NK 65-160/135,	3*400 \/ FOU-	eta
Description	Value	[m]	Pumped liqu		3 400 V, 50HZ	[%]
General information:		6.5 -	Liquid temp	erature during ope	ration = 20 °C	
Product name:	NK 65-160/135 AA2F2AESBQQEFW3	6.0 – 135 r	Density = 99	98.2 kg/m³		
Product No:	98973634	5.5 -				
EAN number:	5712604509630					
Technical:		5.0 -				
Pump speed on which pump data are based:	1450 rpm	4.5 - 4.0 -				
Rated flow:	45.7 m³/h					
Pump with motor (Yes/No):	Y	3.5 -				
Rated head:	4.5 m	3.0 -				
Actual impeller diameter:	135 mm	2.5				100
Nominal impeller diameter:	160	2.0 -				- 80
Shaft diameter:	24 mm					
Code for shaft seal:	BQQE	1.5 -				- 60
Mechanical seal type:	Single	1.0 -				40
Curve tolerance:	ISO9906:2012 3B2	0.5				20
Pump version:	A2	0.0				
Bearing design:	Standard	Ó	10 20 30	40 5	50 Q [m³/h]	-
Materials:		P [W]				NPSH [m]
Pump housing:	Cast iron	1000 -				-5
Pump housing:	EN-GJL-250				P1	
Pump housing:	ASTM class 35	800 -				4
Wear ring:	Brass	600 -			P2	_ 3
Impeller:	Cast iron					Γ
Impeller:	EN-GJL-200	400				2
Impeller:	ASTM class 30					
Internal pump house coating:	CED	200 -				† ¹
Material code:	А					
Code for rubber:	E					-
Shaft:	Stainless steel					
Shaft:	EN 1.4301	-	844		/	1
Shaft:	AISI 304	100			<u>4 × 019</u>	\rightarrow
Installation:					× 6	<u>_</u> 6
t max amb:	55 °C	╶╴┊┼╎┤╽╗┍╾╗				200
Maximum operating pressure:	16 bar	────┼₩∭₽₽━┩				
Pipe connection standard:	EN 1092-2		 		цТ.)	
Type of inlet connection:	DIN		4 x 0 24		f f	
Type of outlet connection:	DIN		X	† †	E	000
Size of inlet connection:	DN 80	98	8	99		
Size of outlet connection:	DN 65	_				
Pressure rating for connection:	PN 16	170	660	<u>•</u> •		
Coupling type:	Flexible w/spacer	•	1000			
Base frame design:	EN/ISO					
Code for base frame:	4					
Grouting (Yes/No):	Ν		LOW VOLTAGE CTION OF ROTATION			
Connect code:	F					
Liquid:						
Pumped liquid:	Water		$(\sqrt{2})$			
Liquid temperature range:	-25 120 °C		\mathbb{E}			
Selected liquid temperature:	20 °C					
Density:	998.2 kg/m ³		L1 L2 L3			
Electrical data:		HIC	GH VOLTAGE ON OF ROTATION	· ·		
Motor type:	SIEMENS					
IE Efficiency class:	IE3					
Rated power - P2:	0.75 kW		(w3-(r3)-(r3)			
Mains frequency:	50 Hz					
Rated voltage:	3 x 220-240D/380-420Y V	──│ ाँ╹┸				
Rated current:	3.05/1.75 A					

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		Date:	16/06/2022
Description	Value		
Starting current:	710-710 %		
Cos phi - power factor:	0.75		
Rated speed:	1450 rpm		
Efficiency:	IE3 82,5%		
Motor efficiency at full load:	82.5-82.5 %		
Motor efficiency at 3/4 load:	82.3-82.3 %		
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:	98957725		
Bearing insulation type N-end:	Ν		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	114 kg		
Gross weight:	127 kg		
Shipping volume:	0.317 m³		
Country of origin:	HU		
Custom tariff no.:	84137059		

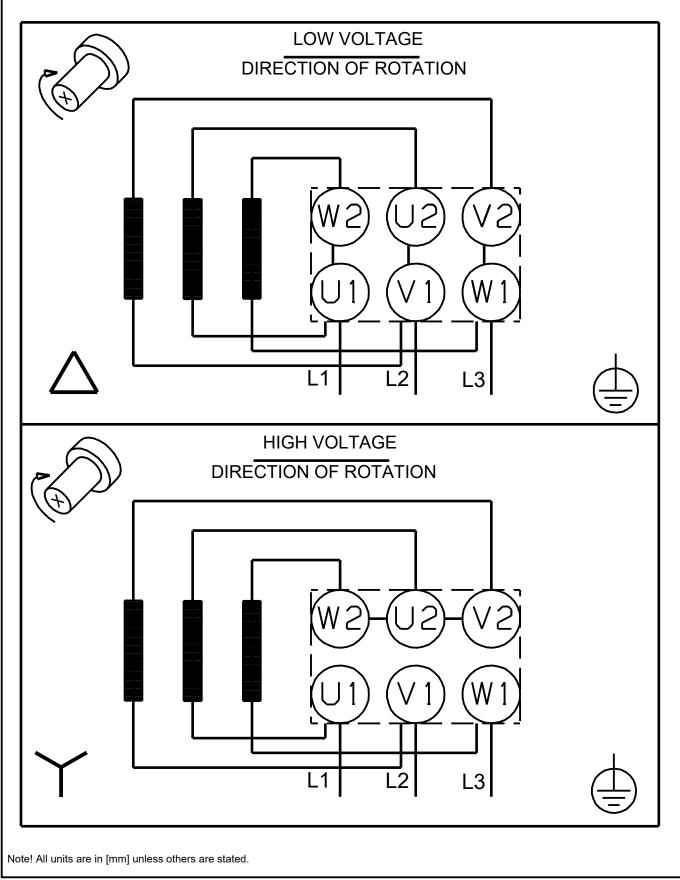




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98973634 NK 65-160/135 AA2F2AESBQQEFW3 50 Hz





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Order Data:

Product name:NK 65-160/135Amount:1Product No:98973634

Total: Price on request