

Date:

28/12/2022

Qty. | Description

1

NK 150-200/218-200 AA2F1AESBQQEJW5



Note! Product picture may differ from actual product

Product No.: 98972462

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.

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.

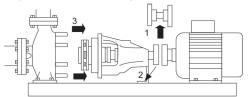
Pump and motor are mounted on a common steel base frame in accordance with ISO 3661.

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.

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Seal faces:

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 32 mm where the coupling is mounted.

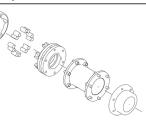
The pump uses a spacer coupling between the pump and motor shaft.



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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 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

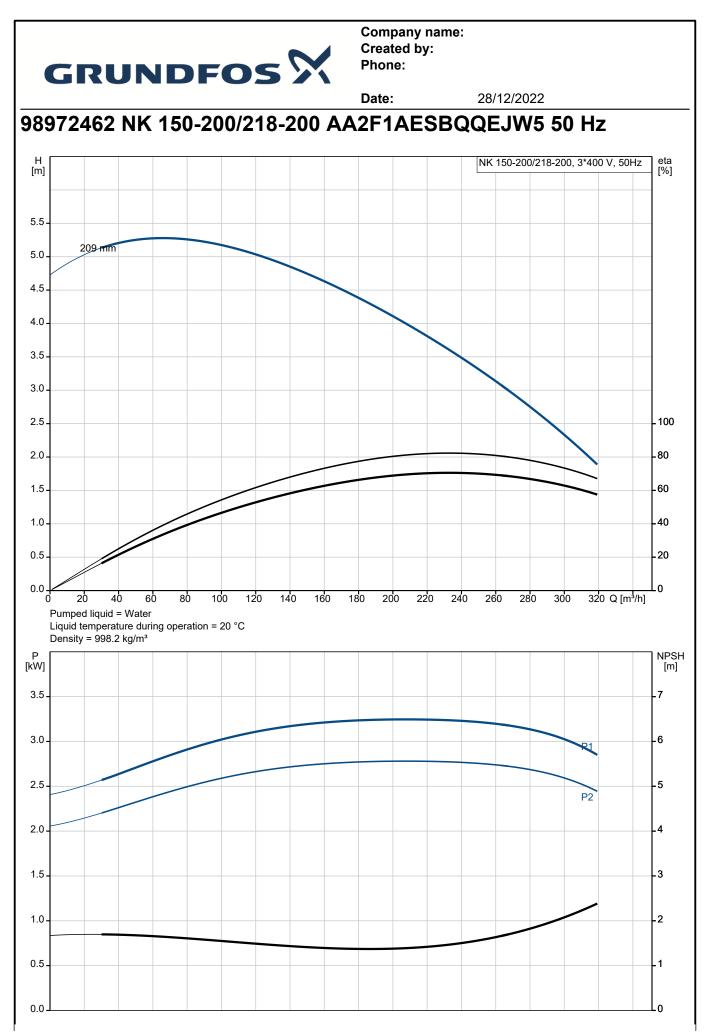
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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: 975 rpm 248.3 m³/h Y 3.637 m 209 mm 200 BQQE Single ISO9906:2012 3B2 Standard
Materials: Pump housing: Wear ring: Impeller:	Cast iron EN-GJL-250 ASTM class 35 Brass Cast iron EN-GJL-200



		Date	e:	28/12/2022	
.	Description				
		ASTM class 30			
	Internal pump house coating:	CED			
	Shaft:	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 200			
	Size of outlet connection:	DN 150			
	Pressure rating for connection:	PN 10			
	Coupling type:	Flexible w/spacer			
	Base frame design:	EN/ISO			
	Code for base frame:	9			
	Grouting (Yes/No):	Ν			
	Electrical data:				
	Motor type:	SIEMENS			
		IE3			
	IE Efficiency class:				
	Rated power - P2:	3 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 220-240D/380-420Y V			
	Rated current:	12.1/6.9 A			
	Starting current:	660-660 %			
	Cos phi - power factor:	0.73			
	Rated speed:	975 rpm			
	Efficiency:	IE3 85,6%			
	Motor efficiency at full load:	85.6-85.6 %			
	Motor efficiency at 3/4 load:	85.8-85.8 %			
	Motor efficiency at 1/2 load:	84.3-84.3 %			
	Number of poles:	6			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	98957422			
	Bearing insulation type N-end:	STEEL BEARING			
	Others:				
	Minimum efficiency index, MEI ≥:	0.70			
	Net weight:	421 kg			
		-			
	Gross weight:	535 kg			
	Shipping volume:	1.91 m³			





		Date	28/	/12/2022		
Description	Value	H [m]		NK 150-200/218-200, 3	*400 V, 50Hz ['	eta [%]
General information:		5.5				
Product name:	NK 150-200/218-200 AA2F1AESBQQEJW5	5.0 -	20 9 mm			
Product No:	98972462	4.5 -				
EAN number:	5712604485774	4.0				
Technical:		3.5				
Pump speed on which pump data are based:	975 rpm	3.0				
Rated flow:	248.3 m³/h	2.5				100
Pump with motor (Yes/No):	Y	2.0			-8	80
Rated head:	3.637 m	1.5				60
Actual impeller diameter:	209 mm					
Nominal impeller diameter:	200	1.0 -				40
Shaft diameter:	32 mm	0.5 -			-2	20
Code for shaft seal:	BQQE	0.0		<u> </u>		0
		0		150 200 250	Q [m³/h]	
Mechanical seal type:	Single		umped liquid = Water quid temperature during oper	ration = 20 °C		
Curve tolerance:	ISO9906:2012 3B2		ensity = 998.2 kg/m ³			
Pump version:	A2	P				NPSH
Bearing design:	Standard	[kW]				[m]
Materials:		2.0				6
Pump housing:	Cast iron	3.0 -			P1 - 6	U
Pump housing:	EN-GJL-250	2.5 -			P2 -5	5
Pump housing:	ASTM class 35	2.0			P2	1
Wear ring:	Brass	2.0-				4
Impeller:	Cast iron	1.5 -			- 3	3
Impeller:	EN-GJL-200	1.0				2
Impeller:	ASTM class 30					-
Internal pump house coating:	CED	0.5 -			- 1	1
Material code:		0.0			La	0
	A	-				
Code for rubber:						
Shaft:	Stainless steel		1226			
Shaft:	EN 1.4301		160		23 000	
Shaft:	AISI 304					r
Installation:		200				
t max amb:	55 °C					ŀ
Maximum operating pressure:	10 bar	ł				
Pipe connection standard:	EN 1092-2			╒╴╹╹╺┿└───────────────────────────────────		
Type of inlet connection:	DIN		6 × 0 ²⁸			ŀ
Type of outlet connection:	DIN	Ī			6006	
Size of inlet connection:	DN 200	8		8 8		
Size of outlet connection:	DN 150					
Pressure rating for connection:	PN 10	1				
Coupling type:	Flexible w/spacer		300 1200	L 300		
Base frame design:	EN/ISO			-		
Code for base frame:	9					
Grouting (Yes/No):	N			Υ		
Connect code:	F					
Liquid:			8 ^{+T} 8 ^{+T} 8 ^{+T}			
Pumped liquid:	Water					
Liquid temperature range:	-25 120 °C					
Selected liquid temperature:	20 °C			I SUPLY .		
Density:	998.2 kg/m³		ELAY L1 L2 L3			
Electrical data:						
Motor type:	SIEMENS			ED WHEN A FOR 0 TO DIN 4-		
IE Efficiency class:	IE3		\$+T \$+T	IRATECT IER REL/		
Rated power - P2:	3 kW			PTC ACCI PTC ACCI		
Mains frequency:	50 Hz			211 THER SCTED TC #STORS		
Rated voltage:	3 x 220-240D/380-420Y V	,		THE RMAS		
Rated current:	12.1/6.9 A	/	ELAY L1 L2 L3	¢		
Nateu Current.	12.1/0.3 M					

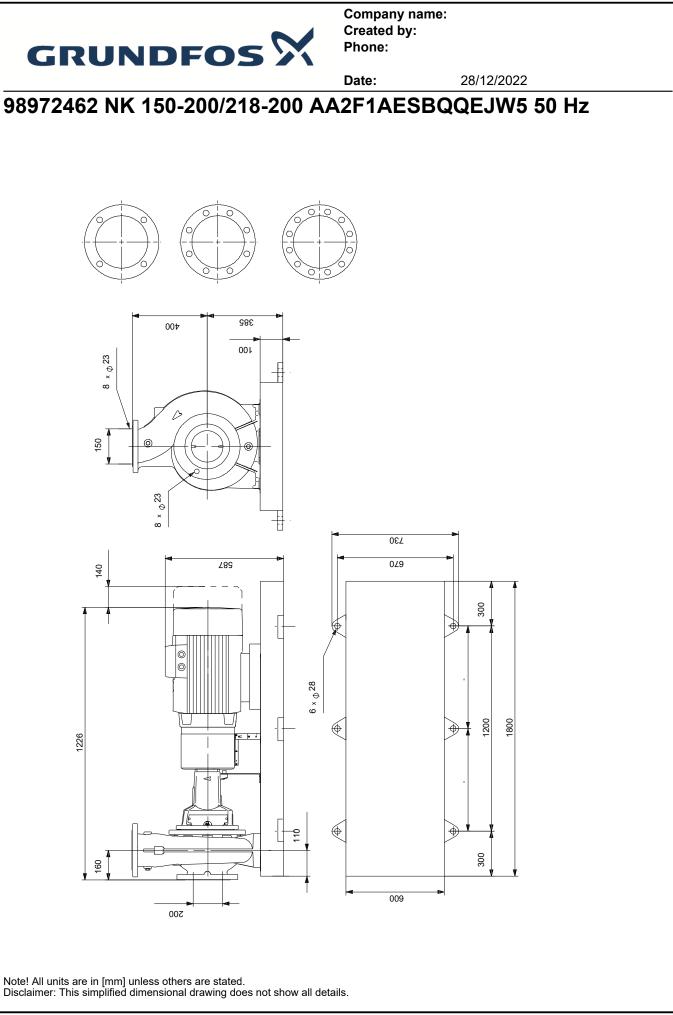
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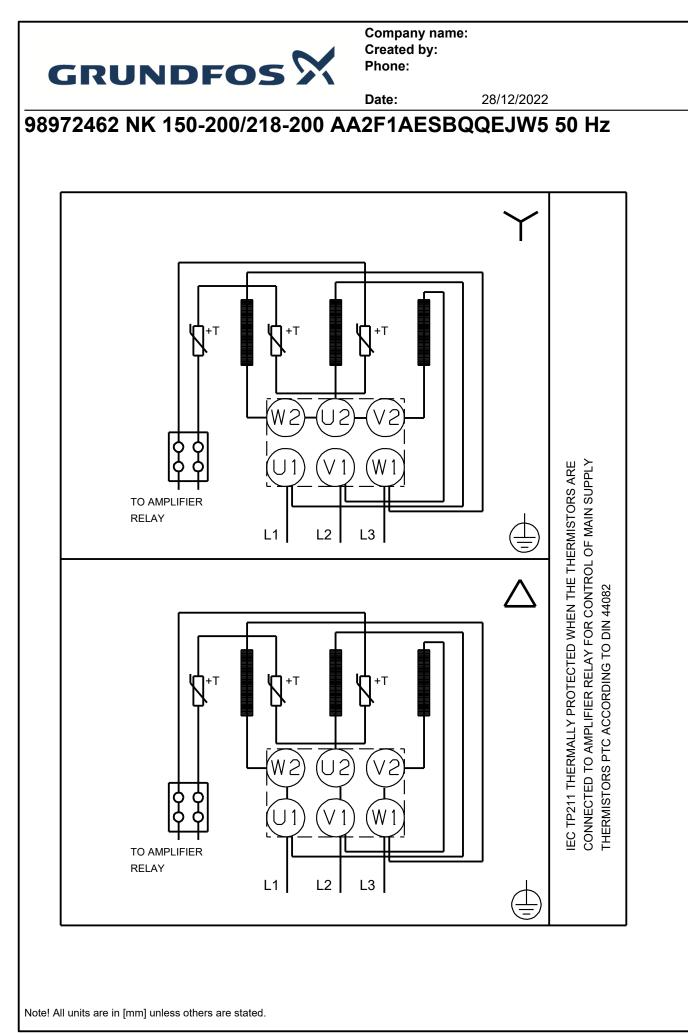


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Date:

Description	Value
Starting current:	660-660 %
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Rated speed:	975 rpm
Efficiency:	IE3 85,6%
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Number of poles:	6
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	98957422
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	421 kg
Gross weight:	535 kg
Shipping volume:	1.91 m³







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Date: 28/12/2022 Order Data: Context (Context						
Position	Your pos.	Product name	Amount	Product No	Total	
	•	NK 150-200/218-200	1	98972462	Price o	
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