

Date: 16/06/2022

Qty. | Description

1 NK 65-200/189 AA2F2AESBQQEIW3



Note! Product picture may differ from actual product

Product No.: 98973645

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.

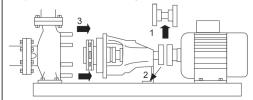
The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

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.

{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)

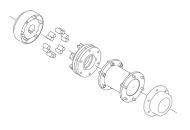
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

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.



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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).

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: NONE Pressure sensor: N

Liquid:

Pumped liquid: Water
Liquid temperature range: -25 .. 120 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 1465 rpm

Rated flow: 53.85 m³/h

Pump with motor (Yes/No): Y
Rated head: 10.41 m

Actual impeller diameter: 189 mm
Nominal impeller diameter: 200
Code for shaft seal: BQQE
Mechanical seal type: Single

Curve tolerance: ISO9906:2012 3B2

Bearing design: Standard

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Wear ring: Brass
Impeller: Cast iron
EN-GJL-200

ASTM class 30

Internal pump house coating: CED



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Shaft: Stainless steel

EN 1.4301 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: 5 Grouting (Yes/No): N

Electrical data:

Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 2.2 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 220-240D/380-420Y V

Rated current: 7.7/4.4 A 840-840 % Starting current: Cos phi - power factor: 0.83 Rated speed: 1465 rpm Efficiency: IE3 86,7% Motor efficiency at full load: 86.7-86.7 % Motor efficiency at 3/4 load: 87-87 % Motor efficiency at 1/2 load: 85.9-85.9 %

Number of poles: 4
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 98957752

Bearing insulation type N-end: N

Others:

Minimum efficiency index, MEI ≥: 0.70

Net weight: 156 kg

Gross weight: 177 kg

Shipping volume: 0.44 m³

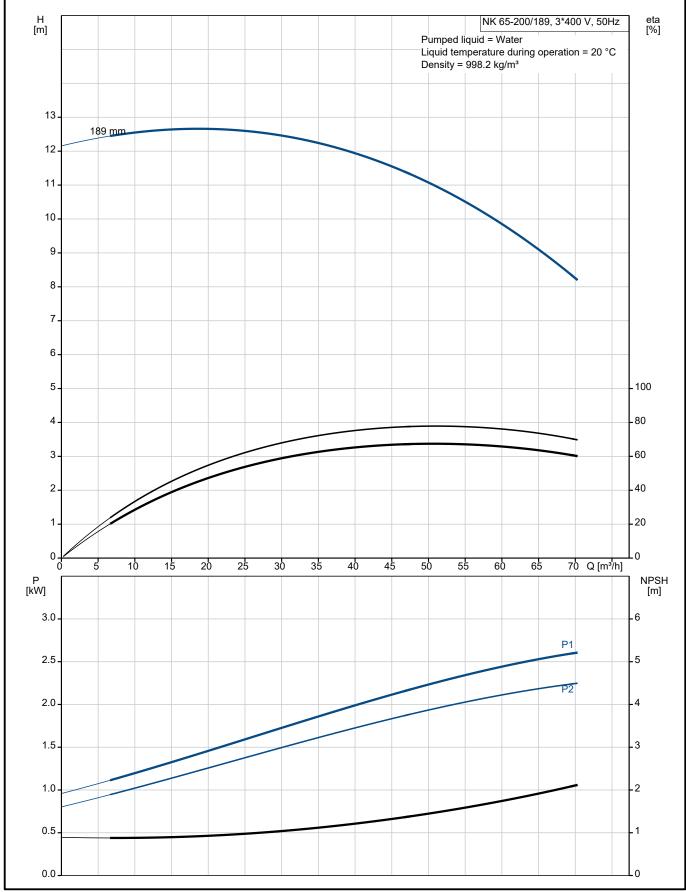
Country of origin: HU

Custom tariff no.: 84137059



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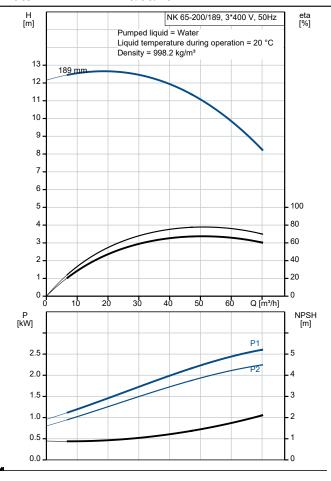
98973645 NK 65-200/189 AA2F2AESBQQEIW3 50 Hz

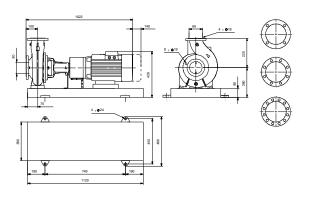


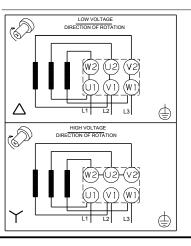


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Description Value General Information: NK 65-200/189 AA2F2AESBQQEIW3 Product name: NK 65-200/189 AA2F2AESBQQEIW3 Product No: 98973645 EAN number: 5712604509852 Technical: 1465 rpm Pump speed on which pump data are based: 1465 rpm are based: 10.41 m Actual impeller diameter: 189 mm Nominal impeller diameter: 200 Shaft diameter: 24 mm Code for shaft seal: BQQE Mechanical seal type: Single Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Value Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: Cast iron Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: <t< th=""><th></th><th></th></t<>		
Product No: 98973645 EAN number: 5712604509852 Technical: 1465 rpm Pump speed on which pump data are based: 1465 rpm Rated flow: 53.85 m³/h Pump with motor (Yes/No): Y Rated head: 10.41 m Actual impeller diameter: 189 mm Nominal impeller diameter: 200 Shaft diameter: 24 mm Code for shaft seal: BQQE Mechanical seal type: Single Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Wall Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel	Description	Value
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Pump speed on which pump data are based: Rated flow: 53.85 m³/h Pump with motor (Yes/No): Y Rated head: 10.41 m Actual impeller diameter: 189 mm Nominal impeller diameter: 200 Shaft diameter: 24 mm Code for shaft seal: BQQE Mechanical seal type: Single Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: A5TM class 35 Wear ring: Brass Impeller: Cast iron Impeller: A5TM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: Imax amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Size of inlet connection: DN 80 Size of outlet 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 Celectrical data: Motor type: SIEMENS EIE Efficiency class: IE3 Rated power - P2: SIEMENS Rated voltage: 3 x 220-240D/380-420Y V Rated voltage: 3 x 220-240D/380-420Y V	EAN number:	5712604509852
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Rated head: 10.41 m Actual impeller diameter: 189 mm Nominal impeller diameter: 240 mm Code for shaft seal: BQQE Mechanical seal type: Single Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: It max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet connection: DN 80 Size of outlet 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: 5 Grouting (Yes/No): N Connect code: F Liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420 Y V	Rated flow:	53.85 m³/h
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Nominal impeller diameter: 24 mm Code for shaft seal: BQQE Mechanical seal type: Single Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: ASTM class 30 Impeller: BRASM class 30 Impeller: BRAS	Rated head:	10.41 m
Shaft diameter: 24 mm Code for shaft seal: BQQE Mechanical seal type: Single Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Pump housing: Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: ASTM class 35 Impeller: ASTM class 30 Internal pump house coating: CED Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: Internal pump house coating: I max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN	Actual impeller diameter:	189 mm
Code for shaft seal: Mechanical seal type: Curve tolerance: Pump version: A2 Bearing design: Pump housing: Materials: Pump housing: Matrial cass 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-250 Impeller: Cast iron Impeller: ASTM class 35 Wear ring: Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: t max amb: Type of inlet connection: DIN Type of outlet connection: DIN Size of outlet connection: DN 80 Size of outlet connection: DN 85 Pressure rating for connection: DN 86 Pressure rating for connection: Code for base frame: Grouting type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Nominal impeller diameter:	200
Mechanical seal type: Single Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: It max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1.92-2 Type of inlet connection: DIN Type of outlet connection: DN 80 Size of outlet connection: DN 80 Size of outlet connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420 V	Shaft diameter:	24 mm
Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: I 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: 5 Grouting (Yes/No): N Connect code: F Liquid: Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420 V	Code for shaft seal:	BQQE
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Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: I 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: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Pump version:	A2
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Pump housing: EN-GJL-250 Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: I 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 80 Size of outlet connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Materials:	
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Wear ring: Impeller: Impel	Pump housing:	EN-GJL-250
Impeller: Cast iron Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AISI 304 Installation: I 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: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Pump housing:	ASTM class 35
Impeller: EN-GJL-200 Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation: I 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 80 Size of outlet connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Wear ring:	Brass
Impeller: Internal pump house coating: CED Material code: A Code for rubber: EShaft: Shaft: Stainless steel Shaft: Installation: It max amb: Maximum operating pressure: Pipe connection standard: Type of inlet connection: DIN Type of outlet connection: DIN Size of inlet connection: DIN Size of outlet connection: DN 80 Size of outlet connection: PN 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: Selected liquid temperature: DN 80 SIEMENS IE Efficiency class: Rated power - P2: Cate Maximum operating CED Stainless 30 A A CED A A A A A A A A A A A A A A A A A A A	Impeller:	Cast iron
Internal pump house coating: Material code: A Code for rubber: Shaft: Shaft: Stainless steel Shaft: Installation: I max amb: Maximum operating pressure: Pipe connection standard: Type of inlet connection: DIN Type of outlet connection: DIN Size of inlet connection: DIN Size of outlet connection: DN 80 Size of outlet connection: PN 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: DN 80 SIEMENS IE Efficiency class: Rated power - P2: Code for baze Rated voltage: Stainless steel A A CED A A A A A A A A A A A A A A A A A A A	Impeller:	EN-GJL-200
Material code: Code for rubber: Shaft: Shaft	Impeller:	ASTM class 30
Code for rubber: Shaft: Shaft: Shaft: Shaft: EN 1.4301 Shaft: Installation: It max amb: Maximum operating pressure: Pipe connection standard: 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: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: DN 80 Size of outlet connection: DN 65 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: Code for base frame: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Internal pump house coating:	CED
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 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: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Material code:	A
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: DN 80 Size of inlet connection: DN 80 Size of outlet connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Code for rubber:	E
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: DN 80 Size of inlet connection: DN 85 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: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Shaft:	Stainless steel
Installation: t max amb: Maximum operating pressure: Pipe connection standard: 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: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: P98.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: Rated power - P2: Rated voltage: 3 x 220-240D/380-420Y V	Shaft:	EN 1.4301
t max amb: Maximum operating pressure: Pipe connection standard: Type of inlet connection: Type of outlet connection: DIN Size of inlet connection: DN 80 Size of outlet connection: PN 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pessure rating for connection: N Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: SIEMENS IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: 3 x 220-240D/380-420Y V	Shaft:	AISI 304
Maximum operating pressure: 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: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Uiquid temperature range: Coelected liquid temperature: Density: Density: Density: Density: SIEMENS IE Efficiency class: Rated power - P2: Mains frequency: SIEMENS IN Electrical data: Rated voltage: SIEMENS Rated voltage: SIEMENS IN	Installation:	
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Type of inlet connection: 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: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Density: P98.2 kg/m³ Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: DN 80 SN 80 EN/ISO EN/ISO Water Livide EN/ISO EN/ISO EN/ISO Selexity Pumped liquid: Water Liquid temperature range: 20 °C Density: SIEMENS IE 3 Rated voltage: Rated voltage: 3 x 220-240D/380-420Y V		16 bar
Type of outlet connection: Size of inlet connection: DN 80 Size of outlet connection: Pressure rating for connection: PN 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pessive: Biectrical data: Motor type: Siemens: Rated power - P2: Rated voltage: DN 80 DN 80 Sie		EN 1092-2
Size of inlet connection: Size of outlet connection: Pressure rating for connection: PN 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pensity: Pensity: SIEMENS IE Efficiency class: Rated power - P2: Rated voltage: DN 80 N 65 PN 16 Evible w/spacer Flexible w/spacer Flexible w/spacer Selvise w/spacer En/ISO Vater Liquid: Vater Liquid: Vater Siemens Siemens Siemens Siemens Siemens Siemens Rated voltage: Siemens	Type of inlet connection:	DIN
Size of outlet connection: Pressure rating for connection: PN 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pensity: Pensity: SIEMENS IE Efficiency class: Rated power - P2: Rated voltage: PN 16 Electrical design: PN 16 Electrical design: Electrical design: No C Siewishe Water Liquid temperature: 20 °C 20 °C Siewishe Water Siewishe Water Liquid temperature: 20 °C Siewishe Water Liquid temperature: 20 °C Density: Siewishe Water Liquid temperature: Siewishe Water Liquid temperature: Siewishe Water Liquid temperature: Siewishe Water Liquid temperature: Liquid temperature: 20 °C Density: Siewishe Water Liquid temperature: Liquid temperature: Siewishe Water Liquid temperature: Siew	Type of outlet connection:	DIN
Pressure rating for connection: Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pest yes Blectrical data: Motor type: IE Efficiency class: Rated power - P2: Rated voltage: Piexible w/spacer Flexible w/spacer Selvise w/spacer Water Laure 20 °C Selected liquid temperature: SIEMENS IE 3 Rated power - P2: Cauchy 22 kW Mains frequency: SIEMENS Rated voltage: SIEMENS Rated voltage: SIEMENS	Size of inlet connection:	DN 80
Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Size of outlet connection:	DN 65
Base frame design: EN/ISO Code for base frame: 5 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Pressure rating for connection:	PN 16
Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: Motor type: IE Efficiency class: Rated power - P2: August Aug	Coupling type:	•
Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: N Vater 20 °C 998.2 kg/m³ Electrical data: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Base frame design:	EN/ISO
Connect code: Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Selectrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: Mains frequency: SIEMENS Rated voltage: SIEMENS	Code for base frame:	5
Liquid: Pumped liquid: Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: A 2.2 kW Mains frequency: SIEMENS Rated voltage: 3 x 220-240D/380-420Y V	Grouting (Yes/No):	N
Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Connect code:	F
Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: 3 x 220-240D/380-420Y V	Liquid:	
Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V		
Density: 998.2 kg/m³ Electrical data: SIEMENS Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V		
Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V		
Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	-	998.2 kg/m³
IE Efficiency class: IE3 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V	Electrical data:	
Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V		SIEMENS
Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V		
Rated voltage: 3 x 220-240D/380-420Y V		2.2 kW
		50 Hz
Rated current: 7.7/4.4 A	•	
	Rated current:	7.7/4.4 A









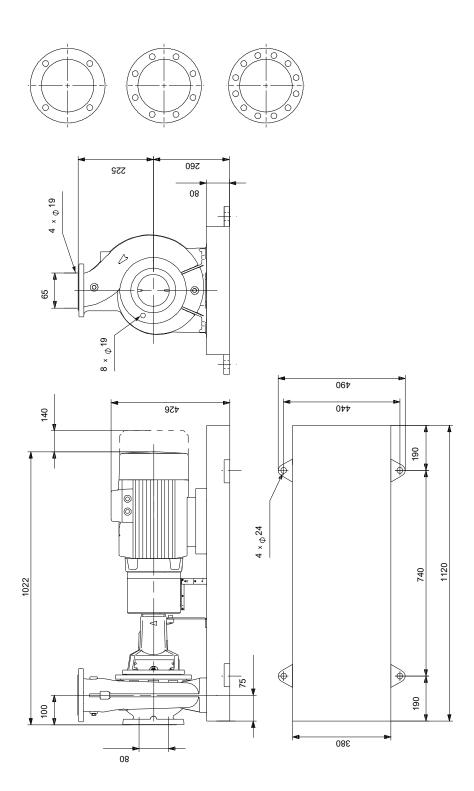
Date: 16/06/2022

Description	Value
Starting current:	840-840 %
Cos phi - power factor:	0.83
Rated speed:	1465 rpm
Efficiency:	IE3 86,7%
Motor efficiency at full load:	86.7-86.7 %
Motor efficiency at 3/4 load:	87-87 %
Motor efficiency at 1/2 load:	85.9-85.9 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Motor No:	98957752
Bearing insulation type N-end:	N
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	156 kg
Gross weight:	177 kg
Shipping volume:	0.44 m³
Country of origin:	HU
Custom tariff no.:	84137059



16/06/2022 Date:

98973645 NK 65-200/189 AA2F2AESBQQEIW3 50 Hz



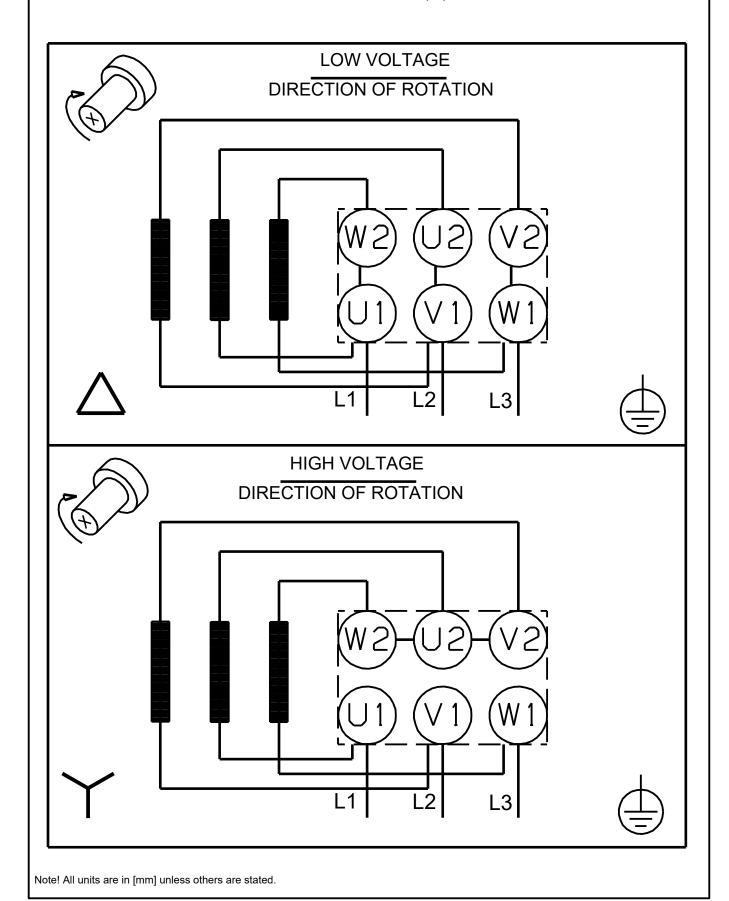
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

16/06/2022

98973645 NK 65-200/189 AA2F2AESBQQEIW3 50 Hz





Date: 16/06/2022

Order Data:

Product name: NK 65-200/189

Amount: 1

Product No: 98973645

Total: Price on request