#### Qty. | Description

1

#### NK 125-250/216 AA2F2AESBQQEJW5



Note! Product picture may differ from actual product

Product No.: 98972424

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.

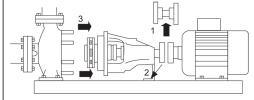
The pump is fitted with a foot-mounted, fan-cooled asynchronous motor. Pump and motor are mounted on a common base frame.

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:

- · Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

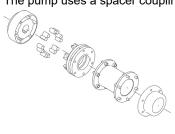
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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.



#### 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.

#### Qty. | Description

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: 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: 975 rpm

Rated flow: 145.6 m³/h

Pump with motor (Yes/No): Y
Rated head: 5.557 m
Actual impeller diameter: 216 mm
Nominal impeller diameter: 250

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

Shaft: Stainless steel

EN 1.4301 AISI 304

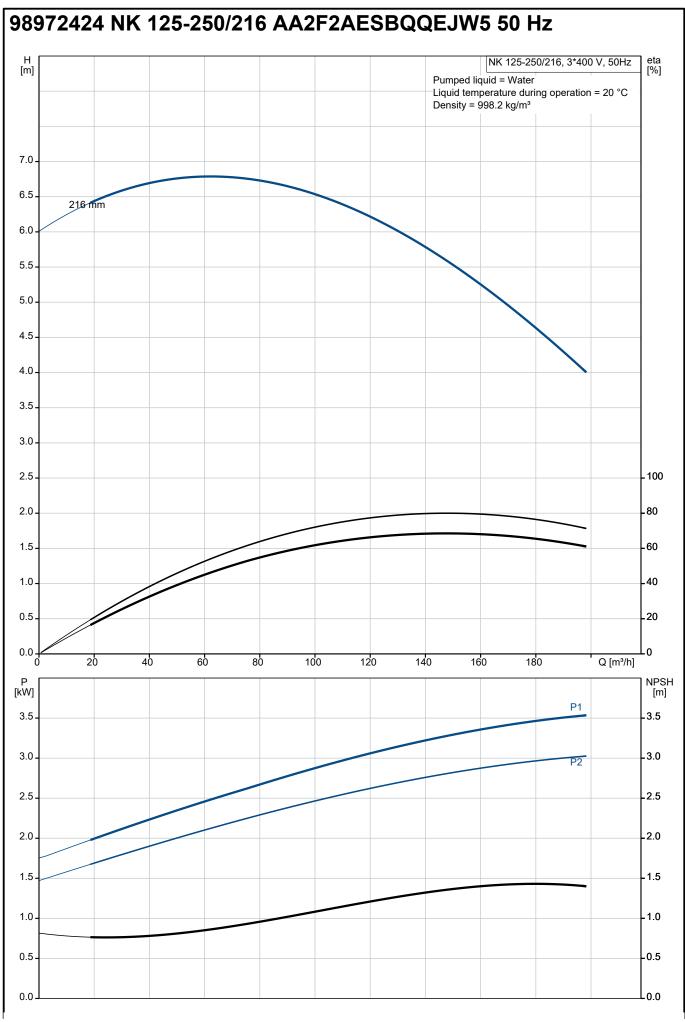
Installation:

t max amb: 55 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN DIN Type of outlet connection: Size of inlet connection: DN 150 Size of outlet connection: DN 125 Pressure rating for connection: PN 16

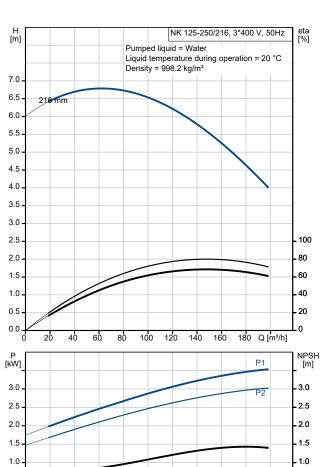
Coupling type: Flexible w/spacer

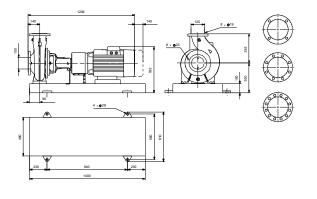
Base frame design: EN/ISO Code for base frame: 7 Grouting (Yes/No): N

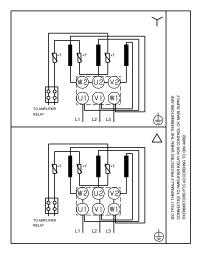
### Description Electrical data: Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 3 kW Mains frequency: 50 Hz 3 x 220-240D/380-420Y V Rated voltage: Rated current: 12.1/6.9 A Starting current: 660-660 % Cos phi - power factor: 0.73 Rated speed: 975 rpm Efficiency: IE3 85,6% Motor efficiency 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): Motor No: 98957422 Bearing insulation type N-end: STEEL BEARING Minimum efficiency index, MEI ≥: 0.68 Net weight: 298 kg Gross weight: 407 kg Shipping volume: 1.11 m<sup>3</sup> Country of origin: HU Custom tariff no.: 84137059



Description General information:	Value	
Product name:	NK 125-250/216	
	AA2F2AESBQQEJW5	
Product No:	98972424	
EAN number:	5712604485019	
Technical:		
Pump speed on which pump data are based:	975 rpm	
Rated flow:	145.6 m³/h	
Pump with motor (Yes/No):	Υ	
Rated head:	5.557 m	
Actual impeller diameter:	216 mm	
Nominal impeller diameter:	250	
Shaft diameter:	32 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:	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 150	
Size of outlet connection:	DN 125	
Pressure rating for connection:	PN 16	
Coupling type:	Flexible w/spacer	
Base frame design:	EN/ISO	
Code for base frame:	7	
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:	550.E Ng/111	
Motor type:	SIEMENS	
IE Efficiency class:	IE3	
Rated power - P2:	3 kW	
•	50 Hz	
Mains frequency:		
Rated voltage:	3 x 220-240D/380-420Y V 12.1/6.9 A	
Rated current:		
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 %	







0.5

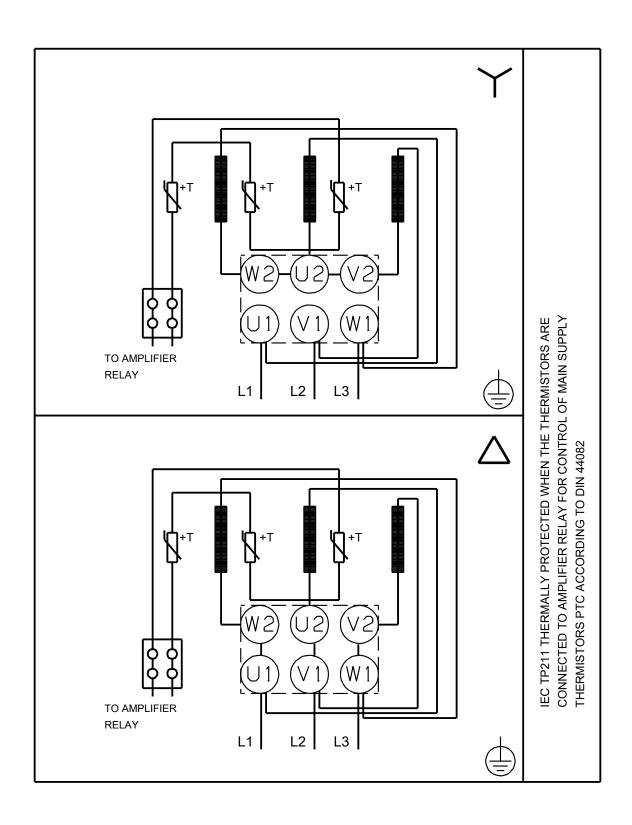
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0.5

Description	Value
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
Built-in motor protection:	PTC
Motor No:	98957422
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.68
Net weight:	298 kg
Gross weight:	407 kg
Shipping volume:	1.11 m³
Country of origin:	HU
Custom tariff no.:	84137059

# 98972424 NK 125-250/216 AA2F2AESBQQEJW5 50 Hz 8 × ⊕ 19 $\bigoplus$ Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.

## 98972424 NK 125-250/216 AA2F2AESBQQEJW5 50 Hz



Note! All units are in [mm] unless others are stated.

Order Data:						
Position	Your pos.		Amount	Product No	Total	
		NK 125-250/216	1	98972424	Price or request	
					reques	