Qty. | Description

1

NK 100-400/395 BA2F2AESBQQETW3



Note! Product picture may differ from actual product

Product No.: 98973238

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.

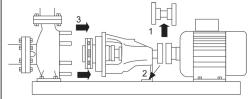
The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

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

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Seal faces:

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

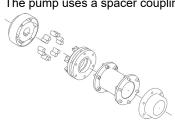
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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 42 mm where the coupling is mounted.

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



Motor

Qty. | Description

1 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.

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.

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: 1478 rpm

Rated flow: 210.8 m³/h

Pump with motor (Yes/No): Y
Rated head: 49.87 m
Actual impeller diameter: 395 mm
Nominal impeller diameter: 400
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B

Bearing design: Standard

Materials:

Mechanical seal type:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Single

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

EN-GJL-200 ASTM class 30

Internal pump house coating: CED

Shaft: Stainless steel

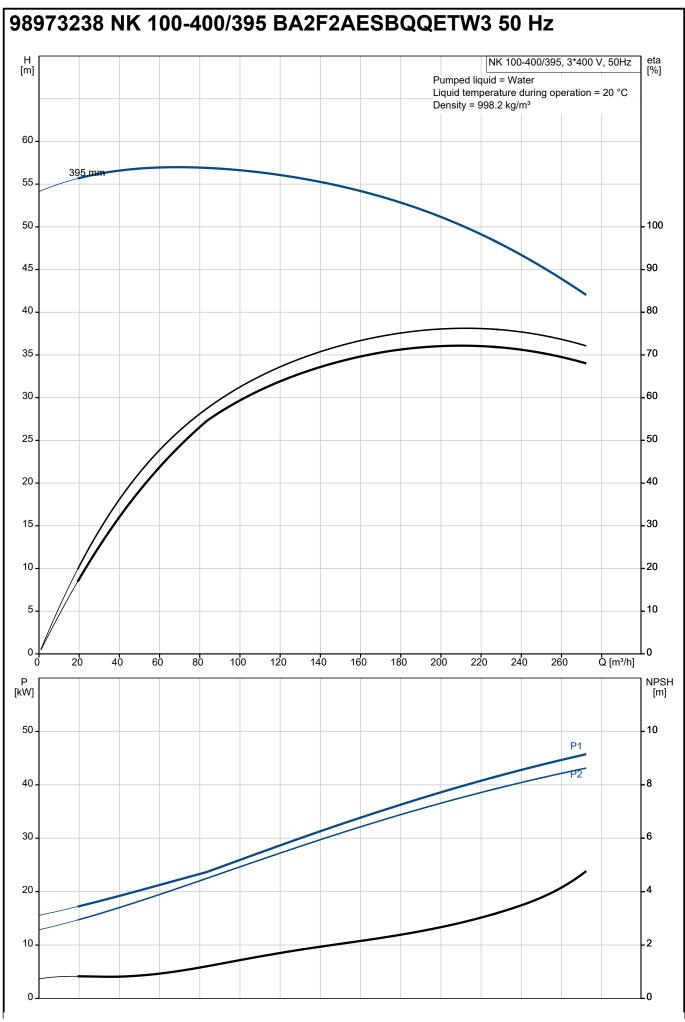
EN 1.4301 AISI 304

Installation:

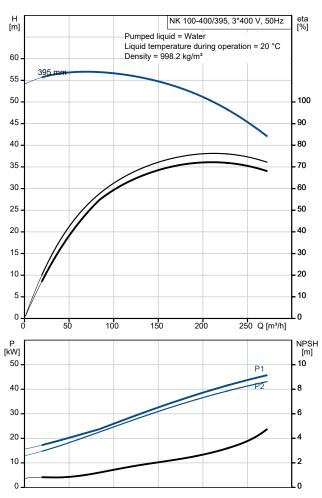
t max amb: 55 °C Maximum operating pressure: 16 bar EN 1092-2 Pipe connection standard: Type of inlet connection: DIN Type of outlet connection: DIN Size of inlet connection: **DN 125** Size of outlet connection: **DN 100** Pressure rating for connection: PN 16

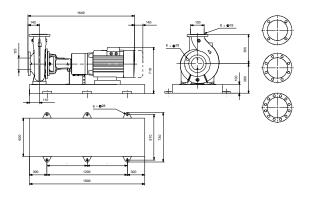
Coupling type: Flexible w/spacer

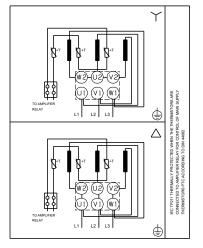
Description EN/ISO Base frame design: Code for base frame: Grouting (Yes/No): Ν Electrical data: SIEMENS Motor type: IE Efficiency class: IE3 Rated power - P2: 45 kW Mains frequency: 50 Hz 3 x 380-420D/660-725Y V Rated voltage: Rated current: 80/46.5 A Starting current: 660-660 % Cos phi - power factor: 0.86 Rated speed: 1478 rpm Efficiency: IE3 94,2% Motor efficiency at full load: 94.2-94.2 % Motor efficiency at 3/4 load: 94.9-94.9 % Motor efficiency at 1/2 load: 95-95 % Number of poles: 4 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98957821 Bearing insulation type N-end: STEEL BEARING Minimum efficiency index, MEI ≥: 0.70 Net weight: 744 kg Gross weight: 811 kg Shipping volume: 1.49 m³ Country of origin: HU Custom tariff no.: 84137059



Description General information:	Value		
	NK 100 400/20F		
Product name:	NK 100-400/395 BA2F2AESBQQETW3		
Product No:	98973238		
EAN number:	5712604501153		
Technical:			
Pump speed on which pump data ire based:	1478 rpm		
Rated flow:	210.8 m³/h		
Pump with motor (Yes/No):	Υ		
Rated head:	49.87 m		
Actual impeller diameter:	395 mm		
Nominal impeller diameter:	400		
Shaft diameter:	42 mm		
Code for shaft seal:	BQQE		
Mechanical seal type:	Single		
Curve tolerance:	ISO9906:2012 3B		
Pump version:	A2		
Bearing design:	Standard		
Materials:			
Pump housing:	Cast iron		
Pump housing:	EN-GJL-250		
Pump housing:	ASTM class 35		
Wear ring:	Brass		
mpeller:	Cast iron		
mpeller:	EN-GJL-200		
mpeller:	ASTM class 30		
nternal pump house coating:	CED		
Material code:	A		
Code for rubber:	F		
Shaft:	Stainless steel		
Shaft:	EN 1.4301		
Shaft:	AISI 304		
nstallation:	AIOI JU T		
max amb:	55 °C		
	16 bar		
Maximum operating pressure:			
Pipe connection standard: Type of inlet connection:	EN 1092-2		
••	DIN		
Type of outlet connection:	DIN		
Size of inlet connection:	DN 125		
Size of outlet connection:	DN 100		
Pressure rating for connection:	PN 16		
Coupling type:	Flexible w/spacer		
Base frame design:	EN/ISO		
Code for base frame:	9		
Grouting (Yes/No):	N		
Connect code:	F		
-iquid:			
Pumped liquid:	Water		
iquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:			
Motor type:	SIEMENS		
E Efficiency class:	IE3		
Rated power - P2:	45 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-420D/660-725Y V		
tatoa voitago.	80/46.5 A		
Rated current:			
Rated current:	660-660 %		
Rated current: Starting current:	660-660 %		
Rated current: Starting current: Cos phi - power factor:	660-660 % 0.86		
Rated current:	660-660 %		



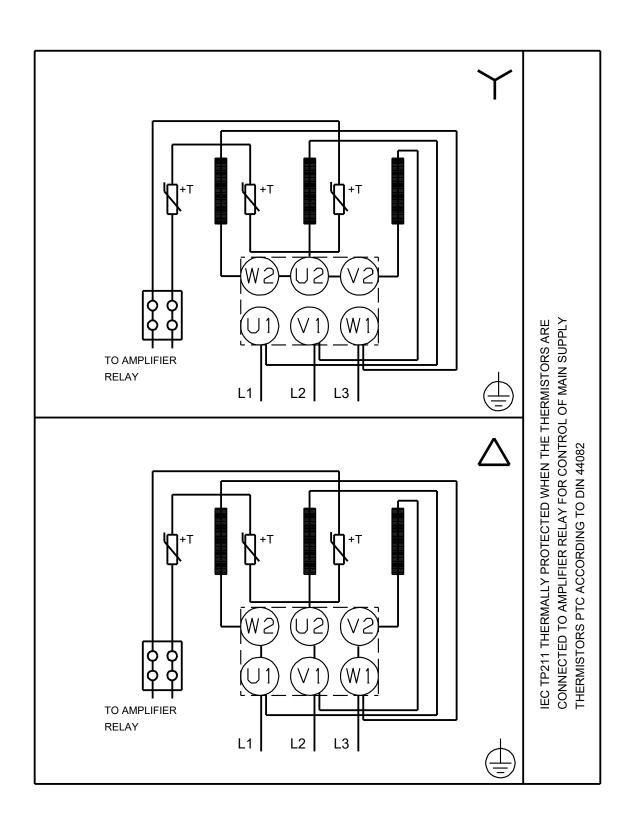




Description	Value
Motor efficiency at 3/4 load:	94.9-94.9 %
Motor efficiency at 1/2 load:	95-95 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	98957821
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	744 kg
Gross weight:	811 kg
Shipping volume:	1.49 m³
Country of origin:	HU
Custom tariff no.:	84137059

98973238 NK 100-400/395 BA2F2AESBQQETW3 50 Hz 8 × $_{\oplus}$ 19 Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.

98973238 NK 100-400/395 BA2F2AESBQQETW3 50 Hz



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

Order Data:						
Position	Your pos.	Product name	Amount	Product No	Total	
		NK 100-400/395	1	98973238	Price or request	
					reques	
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