

Date: 16/06/2022

Qty. | Description

1 NKE 100-160/167 BA2F2AESBQQEQW1



Note! Product picture may differ from actual product

Product No.: On request

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 motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

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.

An external sensor can be connected if controlled pump operation is required for flow, differential pressure or temperature control.

An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The operating panel has indicator lights for "Operation" and "Fault".

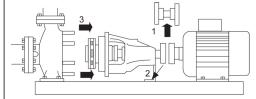
Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

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)



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Stationary seat material: silicon carbide (SiC)

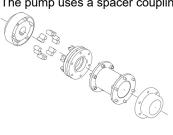
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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.



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 requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

The terminal box holds terminals for these connections:

- pump start/stop input (potential-free contact)
- remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA
- 10 V voltage supply for setpoint potentiometer, Imax = 5 mA
- one analog sensor input, 0-10 V, 0(4)-20 mA
- 24 V voltage supply for sensor, Imax = 40 mA
- one digital input
- two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"
- RS-485 GENIbus connection
- interface for Grundfos CIM fieldbus module.

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: Built-in 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: 2940 rpm

Rated flow: 227.1 m³/h

Pump with motor (Yes/No): Y
Rated head: 26 m
Actual impeller diameter: 167 mm
Nominal impeller diameter: 160



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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:

Impeller:

Cast iron
EN-GJL-200

ASTM class 30

Internal pump house coating: CED

Shaft: Stainless steel

EN 1.4301 AISI 304

Installation:

-20 .. 40 °C Range of ambient temperature: 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 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: 6
Grouting (Yes/No): N

Electrical data:

Motor type: 180MB
IE Efficiency class: IE3
Rated power - P2: 22 kW
Mains frequency: 50 Hz
Rated voltage: 3 x 380-480 V
Rated current: 43.5-35.0 A

Cos phi - power factor:

Rated speed:

Efficiency:

Motor efficiency at full load:

Number of poles:

Enclosure class (IEC 34-5):

Insulation class (IEC 85):

0.91-0.90

480-3540 rpm

IE3 92,7%

92.7 %

IP55

IP55

F

Motor No: 85901283

Others:

Minimum efficiency index, MEI ≥: 0.70

Net weight: 318 kg

Gross weight: 333 kg

Shipping volume: 0.577 m³

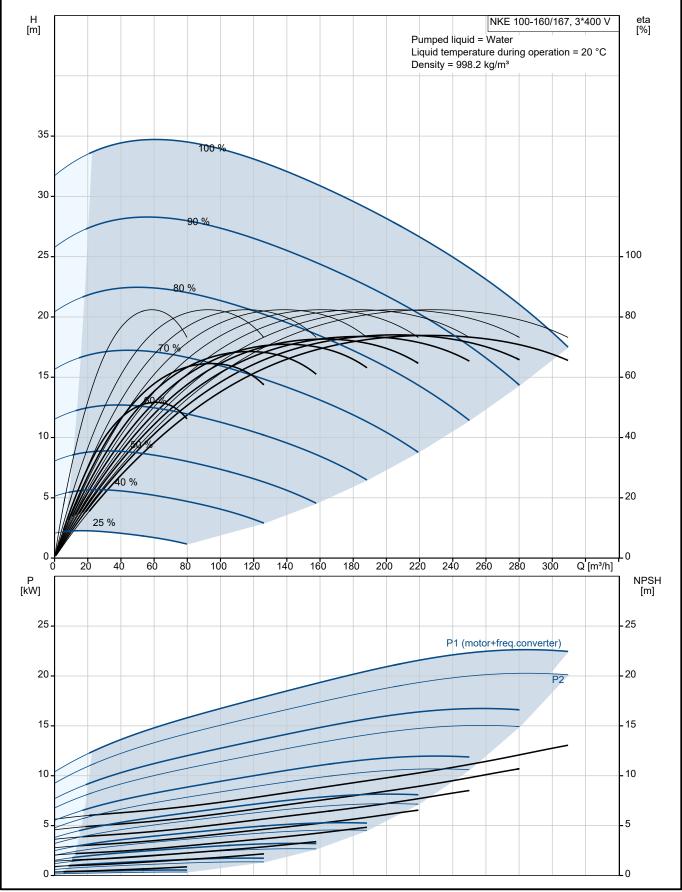
Country of origin: HU

Custom tariff no.: 84137059



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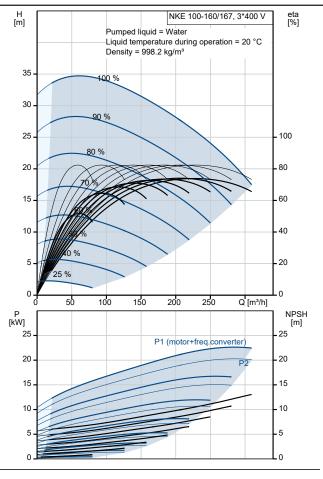
On request NKE 100-160/167 BA2F2AESBQQEQW1 50 Hz

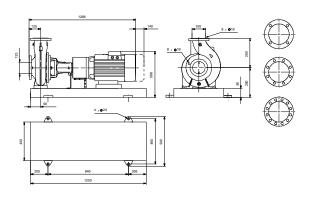


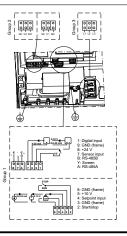


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Description Value General Information: NKE 100-160/167 BA2F2AESBQQEQW1 Product name: NKE 100-160/167 BA2F2AESBQQEQW1 Product No: On request EAN number: On request Technical: On request Pump speed on which pump data are based: 2940 rpm Rated flow: 227.1 m³/h Pump with motor (Yes/No): Y Rated head: 26 m Actual impeller diameter: 160 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: Cast iron Pump housing: Cast iron Pump housing: ASTM class 35 Wear ring: Brass Impeller: Cast iron Impeller: ANTM class 30 Internal pump house coating: CED Material code: A Code for rubber:		
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Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: 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: Rass Impeller: Cast iron Impeller: ASTM class 30 Internal pump house coating: CED Material code: ACode for rubber: Shaft: Shaft: Stainless steel Shaft: AISI 3004 Installation: Range of ambient temperature: Pipe connection standard: Type of inlet connection: DIN Type of outlet connection: DIN Type of outlet connection: DN 100 Pressure rating for connection: DN 16 Coupling type: Flexible w/spacer Base frame design: Connect code: F Liquid: Pumped liquid: Water Liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: IBOMB IIE Efficiency class: IE3 Rated power - P2: Rated voltage: 3 x 380-480 V	Pump speed on which pump data are based:	2940 rpm
Rated head: 26 m Actual impeller diameter: 160 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: EN-GJL-250 Pump housing: Brass Impeller: Cast iron Impeller: BN-GJL-200 Impeller: EN-GJL-200 Impeller: ASTM class 35 Material code: A Code for rubber: E Shaft: Stainless steel Shaft: Stainless steel Shaft: AlSi 304 Installation: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type 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: 6 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature: 20 °C Density: 98.2 kg/m³ Electrical data: Motor type: 180MB Ile Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Rated flow:	227.1 m³/h
Actual impeller diameter: 160 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: 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: EN 1.4301 Shaft: AISI 304 Installation: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of outlet connection: DIN 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: 6 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IlE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Pump with motor (Yes/No):	Υ
Nominal impeller diameter: 24 mm Code for shaft seal: BQCE 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: EN-GJL-250 Impeller: ASTM class 35 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: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Size of inlet connection: DN 100 Pressure rating for connection: DN 100 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Rated head:	26 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: Cast iron Pump housing: EN-GJL-250 Pump housing: Brass Impeller: Cast iron Impeller: Cast iron Impeller: ASTM class 35 Wear ring: Brass Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet 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: 6 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Actual impeller diameter:	167 mm
Code for shaft seal: Mechanical seal type: Curve tolerance: ISO9906:2012 3B2 Pump version: Bearing design: Pump housing: Rarss Impeller: Impeller: Impeller: ASTM class 35 Wear ring: Impeller: Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Shaft: Shaft: Shaft: AISI 304 Installation: Range of ambient temperature: Pipe connection standard: Type of inlet connection: DIN Type of outlet connection: DIN Size of outlet connection: DN 100 Pressure rating for connection: DN 100 Pressure rating for connection: PN 16 Coupling type: Base frame design: CAzet iron EN/ISO Code for base frame: 6 Grouting (Yes/No): Connect code: Liquid: Pumped liquid: Liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Nominal impeller diameter:	160
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: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Size of outlet connection: DN 100 Pressure rating for connection: DN 100 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 6 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Shaft diameter:	24 mm
Curve tolerance: ISO9906:2012 3B2 Pump version: A2 Bearing design: Standard Materials: Pump housing: EN-GJL-250 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: AIS1 304 Installation: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet connection: DIN 25 Size of inlet connection: DN 100 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Code for shaft seal:	
Pump version: A2 Bearing design: Standard Materials: 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: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet 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: 6 Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Water Liquid temperature: 20 °C Selected liquid temperature: 20 °C Selected liquid temperature: 20 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: I80MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Mechanical seal type:	Single
Bearing design: Standard Materials: Pump housing: Cast iron Pump housing: EN-GJL-250 Pump housing: 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: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet 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: 6 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: I80MB IEE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Curve tolerance:	
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: Range of ambient temperature: -20 40 °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 100 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	•	· ·=
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: Range of ambient temperature: -20 40 °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 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: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	•	Standard
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: Range of ambient temperature: -20 40 °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 125 Size of outlet connection: PN 16 Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		
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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: EN 1.4301 Shaft: EN 1.4301 Shaft: AISI 304 Installation: Range of ambient temperature: -20 40 °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 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: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		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: Range of ambient temperature: -20 40 °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 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: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	•	Brass
Impeller: ASTM class 30 Internal pump house coating: CED Material code: A Code for rubber: E Shaft: Stainless steel Shaft: AISI 304 Installation: Range of ambient temperature: -20 40 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet 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: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Impeller:	Cast iron
Internal pump house coating: Material code: Code for rubber: Shaft: Stainless steel Shaft: Shaft: Installation: Range of ambient temperature: Pipe connection standard: Type of inlet connection: DIN Type of outlet connection: Dix of outlet connection: Dix of outlet connection: Dix of outlet connection: Dix of outlet connection: Pressure rating for connection: Ph 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: Fuiquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Dix of code for base frame: Coelected liquid temperature: Dix of code for base frame: Base frame design: Connect code: Fuiquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Dix of code for base frame: Base frame design: Base frame design: Code for base frame: Base frame design: Base frame design: Code for base frame: Base frame design: Code for base frame: Base frame design: Base frame design: Code for base frame: Base frame design: Base frame design:	Impeller:	EN-GJL-200
Material code: Code for rubber: Shaft: Shaft: Shaft: Shaft: AISI 304 Installation: Range of ambient temperature: Pipe connection standard: Type of inlet connection: Size of inlet connection: DIN Type of outlet connection: DN 100 Pressure rating for connection: Phase frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: DN 180MB IE Efficiency class: Rated power - P2: Rated voltage: Shaft: Stainless steel Stainless steel Stainless steel Stainless steel Stainless steel Shaft: Stainless steel Shaft: Stainless steel Shaft: Stainless steel Shaft: Shaft: Shaft: Shaft: Stainless steel Shaft: Shaft	Impeller:	ASTM class 30
Code for rubber: Shaft: Shaft: Shaft: Shaft: AISI 304 Installation: Range of ambient temperature: Pipe connection standard: Type of inlet connection: DIN Type of outlet connection: Dize of inlet connection: Dize of outlet connection: Dixize of outlet connection: Pressure rating for connection: Ph 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Uquid temperature range: Desity: Density: Dens	Internal pump house coating:	CED
Shaft: Stainless steel Shaft: EN 1.4301 Shaft: AISI 304 Installation: Range of ambient temperature: -20 40 °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 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: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	Material code:	A
Shaft: EN 1.4301 Shaft: AISI 304 Installation: Range of ambient temperature: -20 40 °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 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: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		E
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Installation: Range of ambient temperature: Pipe connection standard: Type of inlet connection: Size of inlet connection: DIN Size of outlet connection: DN 100 Pressure rating for connection: PN 16 Coupling type: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: FLiquid: Pumped liquid: Liquid temperature range: Liquid temperature range: Selected liquid temperature: DN 100 Pressure rating for connection: PN 16 Coupling type: Flexible w/spacer Base frame design: Code for base frame: Fully So Code for base frame: Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Pensity: Pe		
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Maximum operating pressure: Pipe connection standard: EN 1092-2 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: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Poss. 20 °C Density: Pelectrical data: Motor type: IE Efficiency class: Rated power - P2: Rated voltage: Selected liquid: Selection: Selected liquid: Selection: Selected liquid: Selection: Selected liquid temperature: Selection: Selected liquid temperature: Selection: Select		
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Type of inlet connection: 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: Base frame design: Code for base frame: Grouting (Yes/No): Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: Density: Pumped: Base frame: Base	. 01	
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Size of inlet connection: Size of outlet connection: DN 100 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: Personal data: Motor type: Rated power - P2: Rated voltage: DN 125 Selection: DN 100 N 100 PN 16 Electrical design: No Electrical data: Rated voltage: DN 100 PN 16 Elexible w/spacer Bu/ISO Elexible w/spacer Rated power - 26 Elexible w/spacer Elexible w/spacer Elexible w/spacer Elexible w/spacer Bo/ISO NO Connect code: F Liquid: Pumped liquid: Water Liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: Rated voltage: 3 x 380-480 V	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: Liquid temperature: 20 °C Selected liquid temperature: 20 °C Density: Pelectrical data: Motor type: IE Efficiency class: Rated power - P2: Rated voltage: DN 100 PN 16 Elexible w/spacer Bu/ISO Valver Liquid w/spacer PUMater Liquid temperature: 20 °C Poensity: Poen	• •	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: Plectrical data: Motor type: Rated power - P2: Rated voltage: Plexible w/spacer Flexible w/spacer EN/ISO Water Vater Liquid: Vater Lago °C Selected liquid temperature: 20 °C Density: BOMB 1E3 Rated voltage: So Hz Rated voltage: So Hz	Size of inlet connection:	DN 125
Coupling type: Flexible w/spacer Base frame design: EN/ISO Code for base frame: 6 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: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		
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Code for base frame: Grouting (Yes/No): N Connect code: F Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: Rated voltage: 3 x 380-480 V		•
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Connect code: Liquid: Pumped liquid: Uiquid temperature range: Selected liquid temperature: Density: Selectrical data: Motor type: IE Efficiency class: Rated power - P2: Rated voltage: F Water Water L20 °C Selected liquid temperature: 20 °C Selected liquid temperature: 180 °C Selectrical data:		6
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		
Pumped liquid: Water Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		F
Liquid temperature range: -25 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		
Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		
Density: 998.2 kg/m³ Electrical data:	-	
Electrical data: Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		
Motor type: 180MB IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	-	998.2 kg/m³
IE Efficiency class: IE3 Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		
Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V		
Mains frequency: 50 Hz Rated voltage: 3 x 380-480 V	-	IE3
Rated voltage: 3 x 380-480 V	Rated power - P2:	22 kW
•		50 Hz
Rated current: 43.5-35.0 A	•	
	Rated current:	43.5-35.0 A









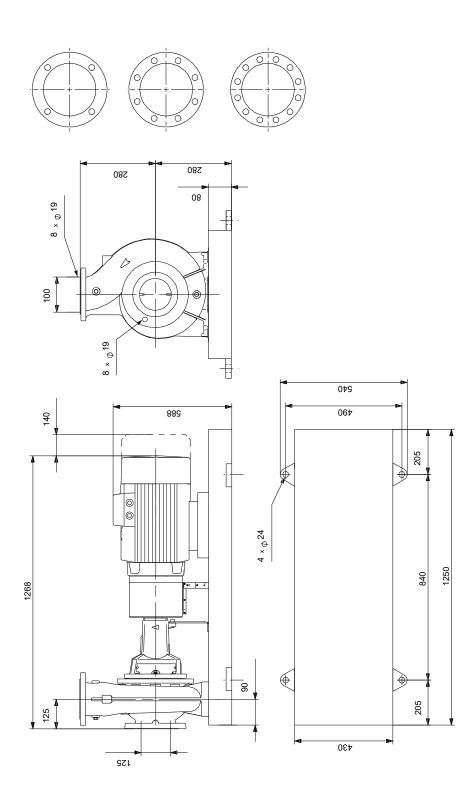
Date: 16/06/2022

Description	Value
Cos phi - power factor:	0.91-0.90
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,7%
Motor efficiency at full load:	92.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	YES
Motor No:	85901283
Controls:	
Control panel:	Standard
Function Module:	PUMP I/O
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	318 kg
Gross weight:	333 kg
Shipping volume:	0.577 m³
Country of origin:	HU
Custom tariff no.:	84137059



16/06/2022 Date:

On request NKE 100-160/167 BA2F2AESBQQEQW1 50 Hz

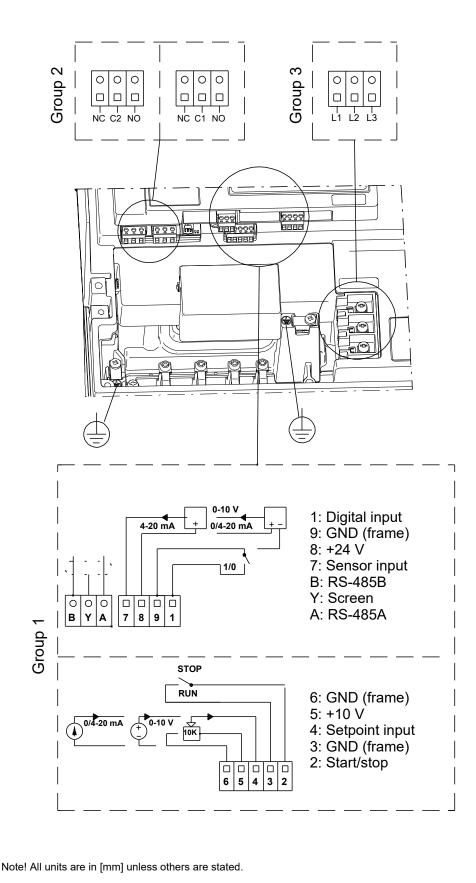


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 16/06/2022

On request NKE 100-160/167 BA2F2AESBQQEQW1 50 Hz





Date: 16/06/2022

Order Data:

Product name: NKE 100-160/167

Amount: 1

Product No: On request

Total: Price on request