

-	Date: 16/06/2022
	Description
	NKE 32-250/262 AA2F2AESBQQEIWA
	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 ar axial suction port, a radial discharge port and horizontal shaft. It is of the back pull-out design enabling removal of 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, permanent-magnet synchronous 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 (E considered as an indicative benchmark for best-performing water pump available on the market as from 1 Januar 2013.
	An external sensor can be connected if controlled pump operation is required for flow, differential pressure or temperature control.
	The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos E indicator.
	The display gives an intuitive and user-friendly interface to all functions. The push-buttons are used to navigate through the menu structure to access pump and performance data on site enable setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop".
	<ul> <li>The Grundfos Eye indicator on the operating panel provides visual indication of pump status:</li> <li>"Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)</li> </ul>
	<ul> <li>"Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indica lights)</li> </ul>
	• "Alarm": Motor has stopped (flashing red indicator lights). Communication with the pump is also possible by means of Grundfos GO Remote (accessory). The remote contro enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Powe 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 dismantlin the pump housing and motor from the base frame.
	This saves realignment of pump and motor after service. 1) Remove coupling.
	<ul><li>2) Remove the bolts in the bearing bracket support foot.</li><li>3) Remove the bearing bracket from the pump housing.</li></ul>



16/06/2022

Qty. | Description

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.

Date:

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.

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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 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 IE5 in accordance with IEC 60034-30-2.

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:

- one dedicated digital input

- two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V
- 5 V voltage supply to potentiometer and sensor
- one configurable digital input or open-collector output
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- 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: Pressure sensor:	Built-in N
Liquid: Pumped liquid: Liquid temperature range:	Water -25 120 °C



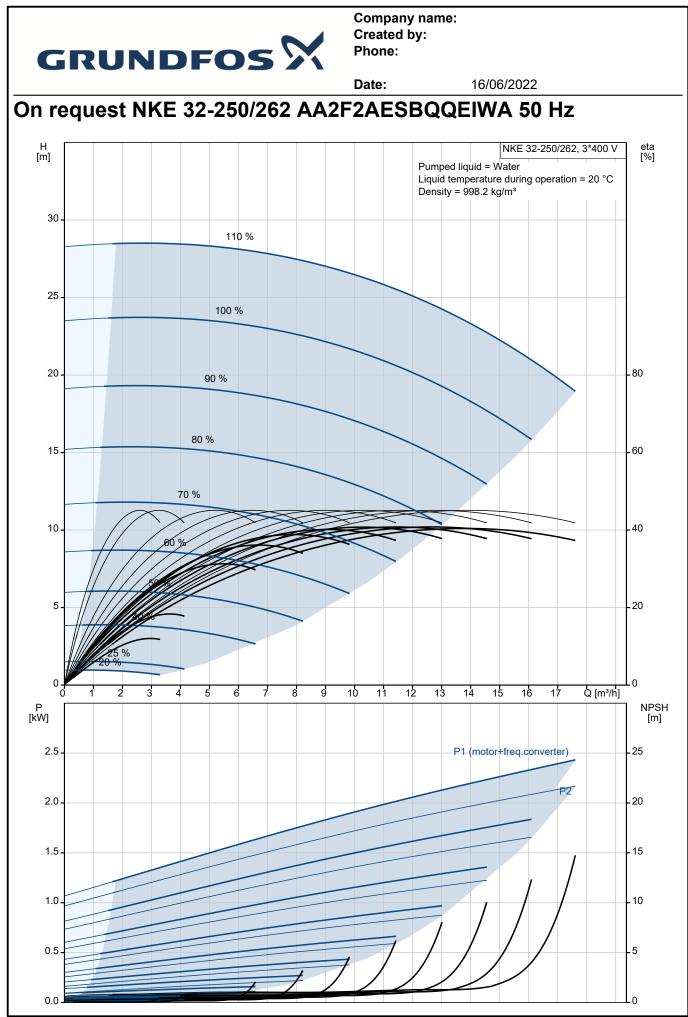
Qty.

Company name: Created by: Phone:

GRUNDFO	os X	Phone:		
		Date:	16/06/2022	
Description				
Selected liquid temperature: Density:	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:	a are based: 1450 r 13.1 m³/h Y 19.3 m 262 mm 250 BQQE Single ISO9906:2012 3B2 Standard	pm		
Materials: Pump housing:	Cast iron EN-GJL-250 ASTM class 35			
Wear ring: Impeller:	Brass Cast iron EN-GJL-200 ASTM class 30			
Internal pump house coating: Shaft:	CED Stainless steel EN 1.4301 AISI 304			
Installation: Range of ambient temperature: Maximum operating pressure: Pipe connection standard: Type of inlet connection: Type of outlet connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Coupling type: Base frame design: Code for base frame: Grouting (Yes/No):	-20 50 °C 16 bar EN 1092-2 DIN DIN DN 50 DN 32 PN 16 Flexible w/spacer EN/ISO 5 N			
Electrical data: Motor type: IE Efficiency class: Rated power - P2: Mains frequency: Rated voltage: Rated current: Cos phi - power factor: Rated speed: Efficiency: Motor efficiency at full load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No: Bearing insulation type N-end:	100LB IE5 2.2 kW 50 Hz 3 x 380-500 V 4.30-3.60 A 0.90-0.82 180-2200 rpm 89.1% 89.1 % 4 IP55 F 99305880 STEEL BEARING			



GRUNDFC	<b>)5</b> %	i none.	
		Date:	16/06/2022
Description			
Others:			
Minimum efficiency index, MEI ≥:	0.70 151 kg		
Net weight: Gross weight:	151 kg 172 kg		
Shipping volume:	0.44 m <sup>3</sup>		
Country of origin:	HU		
Custom tariff no.:	84137059		





Description       Value         General Information:       NKE 32-20/282         Product name:       AACF3AESBQCEIWAA         Product No:       On request         EAN number:       On request         Tachnicai:       Base do which pump data are based.         are based.       19.3 m         Actail modeller dameter:       220         Shaft diameter:       220         Shaft diameter:       220         Pump tensing:       General type:         Pump tensing:       Cast from         Pump housing:       Cast from         Pump housing:       Cast from         Pump housing:       Cast from         Pump housing:       Cast from         Insellation:       Rate dion:         Pump housing:       Cast from         Insellation:       Shaft         Range of ambient temperature:       20			Date:	16/06/2022
General Information:       WEE 32-250/262         Product Name:       MXE 32-250/262         MACFA2ESBOOEWA       MACFA2ESBOOEWA         Ponduct Na:       On request         EAN number:       On request         Technical:       Pump pased on which pump data at 1450 rpm         Rated flow:       13 1 m <sup>3</sup> h         Pump spaced on which pump data at 1450 rpm       19.3 m         Rated flow:       19.3 m         Rated hasd:       19.3 m         Actual impelier diameter:       250         Shaft diameter:       250         Shaft diameter:       250         Dump housing:       Cast iron         Pump housing:       Cast iron         Pumpet ining pressure:       Cast iron	Description	Value	H [m]	NKE 32-250/262, 3*400 V
Product name: NKE 32-250/262 ACP2/AESBOCEWAA Product No: On request EAN number: On request Technical: Pump speed on which pump data are based: Technical: Pump speed on which pump data to speed the speed the speed on which pump data to speed the spee	•	Valuo	L	
EAN number: On request Technical: Pump space of which pump data are based: Rated flow: 13.1 m <sup>3</sup> /h Pump with motor (YesINo): Y Rated head: 13.3 m Actual impelier diameter: 250 Shaft diameter: 250 Shaft diameter: 250 Code for shaft real: BOODE Mechanical seal type: Single Curve tolerance: IISO9906:2012 3B2 Pump version: A2 Baering design: Standard Materials: Pump housing: Cast Iron Pump housing: ASTM class 30 Internal pump house coating: CED Shaft ENLAL-250 Pump house coating: CED Shaft ENLAL-250 Shaft ENLAL-250 Shaft ENLAL-250 Internal pump house coating: CED Shaft ASTM class 30 Internal pump house coating: CED Shaft ENLAL-200 Impelier: Cast Iron Pumpel and the reparature: 20.50 °C Maximum operating pressure: 16 bar Pipe or inter connection: DIN Type of outlet connection: DIN Type of outlet connection: DIN Type of outlet connection: DIN 32 Pressure rating for connecton: DIN N Size of outlet connection: DIN 32 Pressure rating for connecton: DIN N Size of outlet connection: DIN N Size of outlet connection: DIN 32 Pressure rating for connecton: DIN N Size of outlet connection: DIN N Size of outlet connection: DIN 32 Pressure rating for connecton: DIN N Size of outlet connection: DIN 32 Pressure rating for connecton: DIN N Size of outlet connection: DIN N Size of outlet connecton: DIN SI Size of outlet connecton: DIN SI Efficiency class: IE55	Product name:		30 -	Density = 998.2 kg/m <sup>3</sup>
Ever indices: Pump speed on which pump data are based: Pump speed on which pump data are based: Pump speed on which pump data are based: Pump version: Backal diameter: 262 mm Nominal impeller diameter: 262 mm Nominal impeller: Cast iron Pump housing: Pump housing: Pump housing: Pump housing: Pump housing: Pump housing: Pump housing: Pump housing: Part i A301 Installation: Range of ambient temperature: Part i A301 Strat: Code for hase frame: 50 metion point 20 of the connection: DN 32 Pressure rating for connection: DN 4 Pressure rating for connection: DN 5 Pressure rating for connection: DN 4 Pressure rating for connection: DN 4 Pressu	Product No:	On request		
Technical:         Pump speed on which pump dela         are based.         Rated flow:       13.1 m <sup>2</sup> /h         Pump with motor (Yes/No):       Y         Rate head:       13.1 m <sup>2</sup> /h         Nominal impeller diameter:       262 mm         Nominal impeller diameter:       250         Shaft diameter:       24 mm         Code for shaft seal:       BOQDE         Mechanical seal type:       Single         Curve tolerance:       ISO9906:2012 382         Pump housing:       Cast iron         Internal pump house coating:       CED         Material code:       A         Code for tubber:       E         Shaft:       Stalleness steel         Shaft:       Stallews steel         Shaft:       Stallewise/steel         Shaft:       EN 14.301         Stard finate connection:       DN 50         Size of inite connection:       DN 50         Size of inite connection:       DN 50         Size of inite connection:       DN 50	EAN number:	On request	25 -	100 %
are based: The stade flow: Pump with motor (Yes/No): Pump duti motor (Yes/No): Nominal impeller diameter: 250 Shaft diameter: 260 Pump housing: Curve tolerance: ISOS9906.2012 3B2 Pump version: A2 Beering design: Cast iron Impeller: Impeller: Internal pump house coating: A3 Shaft: Sha	Technical:	•		
Pump with motor (Yes/No): Y Rated head: 19.3 m Actual impeller diameter: 250 Shaft diameter: 250 Shaft diameter: 24 mm Code for shaft seal: BOQE Mechanical seal type: Single Curve tolerance: ISO9900.2012 3B2 Pump version: A2 Baaring design: Standard Material: Pump housing: Cast iron Pump housing: Cast iron Inpeller: Cast iron Inpeller: Cast iron Inpeller: Cast iron Inpeller: Cast iron Inpeller: Cast iron Stati: Stalless steel Shaft: Stalless steel Shaft: Stalless steel Shaft: AISI 304 Installation: Range of ambient temperature: 20.0 for C Maximum operating pressure: 16 bar Pipe connection standard: EN 1109.2 Type of intel connection: DN S0 Size of outlet connection: DN S0 Code for base frame: S S0 (S0 Code for base frame: S S0 (S	Pump speed on which pump data are based:	1450 rpm	20 -	90 %
Partip Wait Induel (Tesno). Partip Wait Indu	Rated flow:	13.1 m³/h		
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Mechanical seal type:       Single         Curve tolerance:       ISO9906:2012 3B2         Pump version:       A2         Bearing design:       Standard         Materials:	Shaft diameter:	24 mm		
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Code for rubber:EShaft:Stainless steelShaft:EN 1.4301Shaft:AISI 304Installation: $-2050  ^{\circ}C$ Maximum operating pressure:16 barPipe connection standard:EN 1092-2Type of inlet connection:DINSize of outlet connection:DINSize of outlet connection:DN 50Size of outlet connection:DN 32Pressure rating for connection:PN 16Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:5Grouting (Yes/No):NConnect code:FLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:99 CDensity:99 CDensity:90 CBase frame:5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V	Internal pump house coating:	CED	0.5	
Shaft:       Stainless steel         Shaft:       EN 1.4301         Shaft:       AISI 304         Installation:       Range of ambient temperature:         Range of ambient temperature:       -2050 °C         Maximum operating pressure:       16 bar         Pipe connection standard:       EN 1092-2         Type of outlet connection:       DIN         Size of inlet connection:       DN 50         Size of outlet connection:       DN 32         Pressure rating for connection:       PN 32         Pressure rating for connection:       PN 32         Pressure rating for connection:       PN 32         Code for base frame:       5         Grouting (Yes/No):       N         Connect code:       F         Liquid       Water         Liquid temperature:       20 °C         Selectrical data:       Motor type:         Motor type:       100LB         IE Efficiency class:       IE5         Rated power - P2:       2.2 kW         Mains frequency:       30 Hz         Rated voltage:       3 x 380-500 V	Material code:	Α	0.0	
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Shaft: AISI 304   Installation: Range of ambient temperature:   -2050 °C   Maximum operating pressure: 16 bar   Pipe connection standard: EN 1092-2   Type of inlet connection: DIN   Size of outlet connection: DN 50   Size of outlet connection: DN 32   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   Pumped liquid: Water   Liquid temperature range: -25120 °C   Selected liquid temperature: 20 °C   Density: 998.2 kg/m³   Electrical data: Motor type:   Motor type: 100LB   IE Efficiency class: IE5   Rated power - P2: 2.2 kW   Mains frequency: 50 Hz   Rated voltage: 3 x 380-500 V	Shaft:	Stainless steel		
Installation:Range of ambient temperature: $-2050$ °CMaximum operating pressure:16 barPipe connection standard:EN 1092-2Type of inlet connection:DINSize of inlet connection:DN 50Size of outlet connection:DN 32Pressure rating for connection:PN 16Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:5Grouting (Yes/No):NConnect code:FLiquid temperature range: $-25120$ °CDensity:998.2 kg/m³Electrical data:100LBMotor type:100LBIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V	Shaft:	EN 1.4301	100	945.5
Range of ambient temperature: -2050 °C Maximum operating pressure: 16 bar Pipe connection standard: EN 1092-2 Type of inlet connection: DIN Type of outlet connection: DN 50 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: 20 °C Density: 998.2 kg/m <sup>3</sup> Electrical data: Motor type: 100LB IE Efficiency class: IE5 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V	Shaft:	AISI 304	••	
Maximum operating pressure:16 barPipe connection standard:EN 1092-2Type of inlet connection:DINSize of inlet connection:DN 50Size of outlet connection:DN 32Pressure rating for connection:PN 16Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:5Grouting (Yes/No):NConnect code:FLiquid:Pumped liquid:Uiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:IooLBMotor type:100LBIE Efficiency class:IE5Rated voltage:3 x 380-500 V	Installation:			
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Type of inlet connection:DINType of outlet connection:DINSize of inlet connection:DN 50Size of outlet connection:DN 32Pressure rating for connection:PN 16Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:5Grouting (Yes/No):NConnect code:FLiquid:WaterPumped liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V	Maximum operating pressure:	16 bar		
Type of outlet connection:DINSize of inlet connection:DN 50Size of outlet connection:DN 32Pressure rating for connection:PN 16Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:5Grouting (Yes/No):NConnect code:FLiquid:WaterLiquid:20 °CPensyle liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:Motor type:100LBIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V	Pipe connection standard:	EN 1092-2		
Size of inlet connection:DN 50Size of outlet connection:DN 32Pressure rating for connection:PN 16Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:5Grouting (Yes/No):NConnect code:FLiquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V	Type of inlet connection:	DIN		4 × 924 (0)
Size of outlet connection: DN 32 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: 100LB IE Efficiency class: IE5 Rated power - P2: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V	Type of outlet connection:	DIN		
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Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:5Grouting (Yes/No):NConnect code:FLiquid:FPumped liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V	Size of outlet connection:	DN 32		
Coupling type:Flexible w/spacerBase frame design:EN/ISOCode for base frame:5Grouting (Yes/No):NConnect code:FLiquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:100LBMotor type:100LBIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V	Pressure rating for connection:	PN 16	- 190	740 1120
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Liquid:WaterLiquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:Motor type:100LBIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V				T
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Liquid temperature range:-25 120 °CSelected liquid temperature:20 °CDensity:998.2 kg/m³Electrical data:100LBMotor type:100LBIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V			PE	
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Density:998.2 kg/m³Electrical data:Motor type:100LBIE Efficiency class:IE5Rated power - P2:2.2 kWMains frequency:50 HzRated voltage:3 x 380-500 V				
Electrical data:     100LB       Motor type:     100LB       IE Efficiency class:     IE5       Rated power - P2:     2.2 kW       Mains frequency:     50 Hz       Rated voltage:     3 x 380-500 V				
Electrical data:       Motor type:       100LB       IE Efficiency class:       IE5       Rated power - P2:       2.2 kW       Mains frequency:       50 Hz       Rated voltage:       3 x 380-500 V	•	998.2 kg/m³		
IE Efficiency class:     IE5       Rated power - P2:     2.2 kW       Mains frequency:     50 Hz       Rated voltage:     3 x 380-500 V				
Rated power - P2:     2.2 kW       Mains frequency:     50 Hz       Rated voltage:     3 x 380-500 V				
Mains frequency:     50 Hz       Rated voltage:     3 x 380-500 V			-317° <b>0</b> -317° <b>0</b>	
Rated voltage: 3 x 380-500 V				A [MATINA A G GORma V B GORma V C mathematical and a second and a s
	· · ·			
Rated current: 4.30-3.60 A	-		- <u>avv</u> <b>p</b> - <u>avv</u> <b>p</b> - <u>avv</u> <b>p</b>	
	Rated current:	4.30-3.60 A		

Printed from Grundfos Product Centre [2022.26.009]

eta [%]

- 80

- 60

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20

0

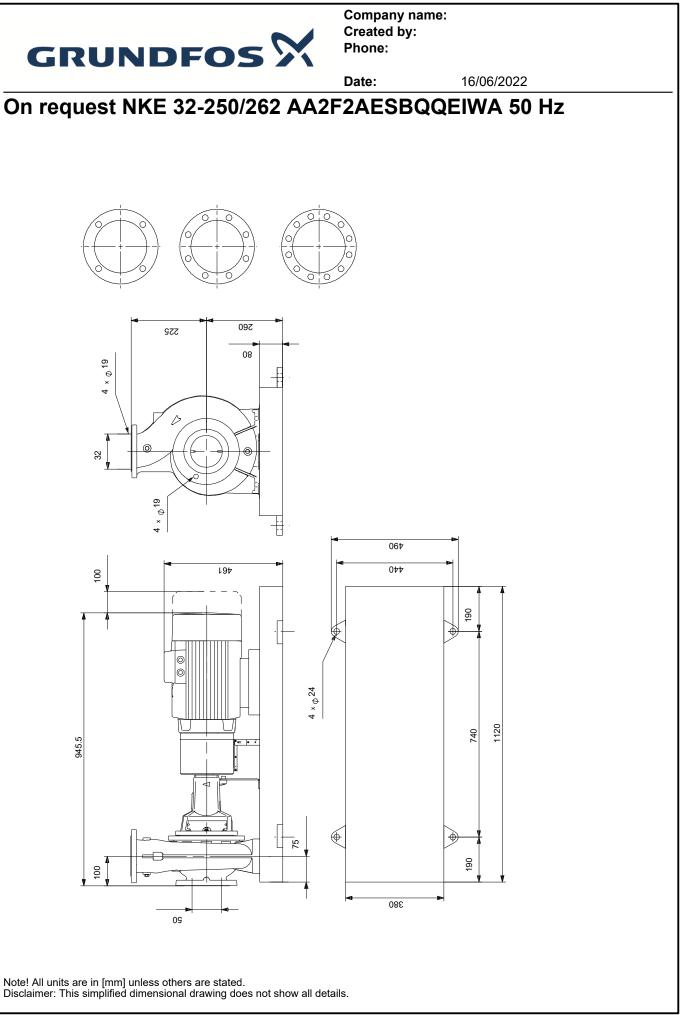
- 25 - 20 - 15 - 10 - 5 - 0

NPSH [m]



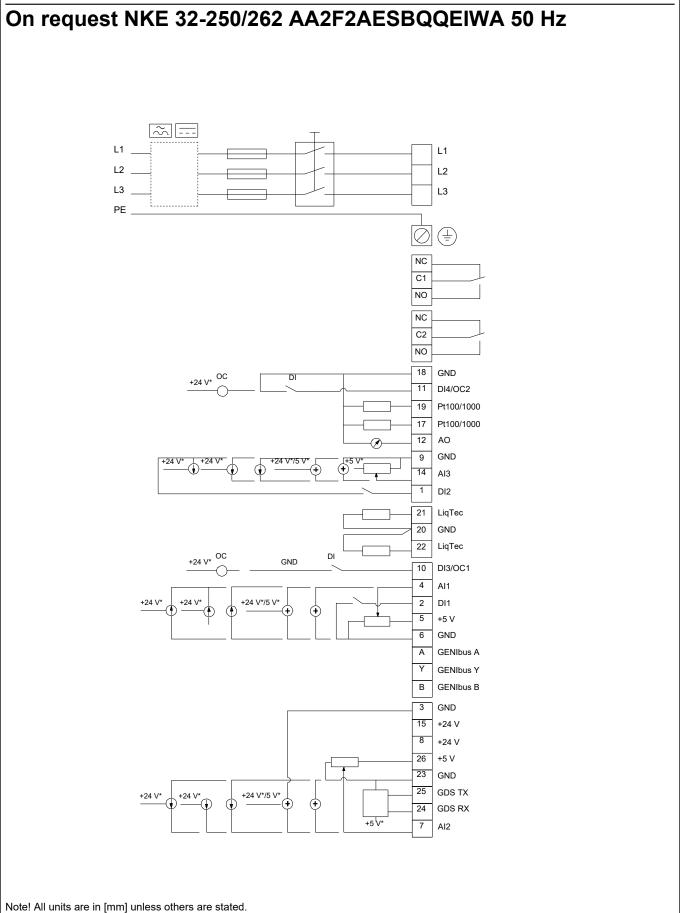
16/06/2022

		Date:
Description	Value	
Cos phi - power factor:	0.90-0.82	
Rated speed:	180-2200 rpm	
Efficiency:	89.1%	
Motor efficiency at full load:	89.1 %	
Number of poles:	4	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	ELEC	
Motor No:	99305880	
Bearing insulation type N-end:	STEEL BEARING	
Controls:		
Control panel:	HMI300 - Advanced	
Function Module:	FM300 - Advanced	
Frequency converter:	Built-in	
Pressure sensor:	Ν	
Others:		
Minimum efficiency index, MEI ≥:	0.70	
Net weight:	151 kg	
Gross weight:	172 kg	
Shipping volume:	0.44 m³	
Country of origin:	HU	
Custom tariff no.:	84137059	





16/06/2022





16/06/2022

# Order Data:

Product name:NKE 32-250/262Amount:1Product No:On request

Total: Price on request