

16/06/2022

Date: Qty. Description 1 NKE 150-200/218-208 AA2F1AESBQQENW3 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 10 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. lear 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)



16/06/2022

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Qty. | Description
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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.

Date:

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.

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

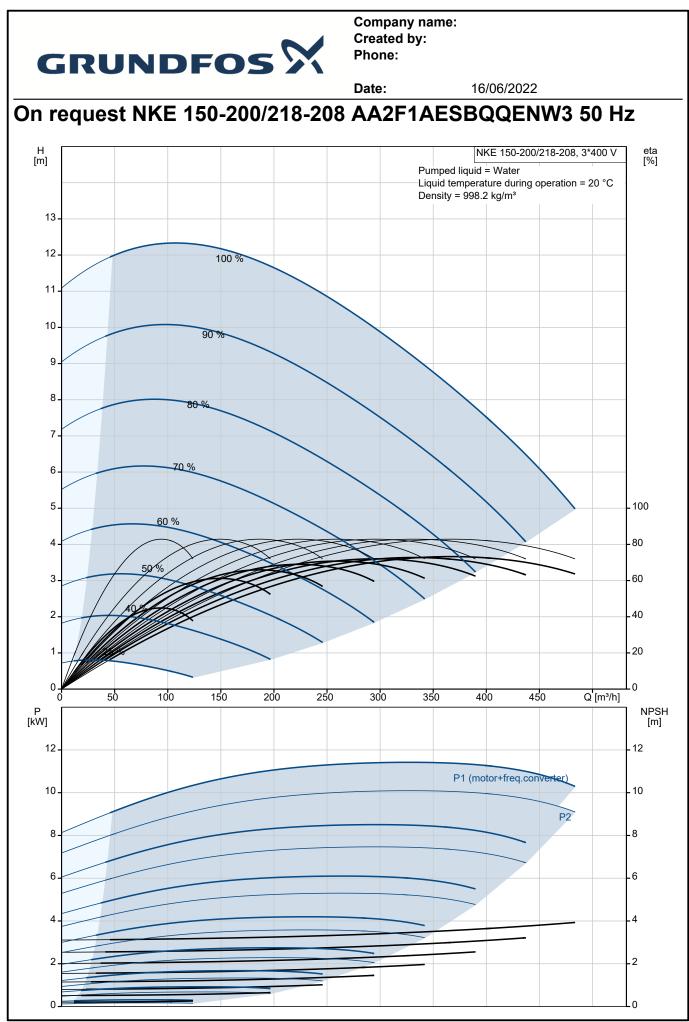
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

Technical data

Controls: Frequency converter: Pressure sensor:	Built-in N	
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Water -25 120 °C 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:	are based: 380 m³/h Y 8.415 m 213 mm 200	1460 rpm



Mechan Curve to Bearing Material Pump he Wear rin Impeller Internal Shaft: Installat Range of Maximu Pipe con Type of Size of of Size of of Size of of Size of of Coupling Base fra Code fo Grouting Electricat Motor ty IE Efficien Rated of Rated of Rated of Rated of Efficient	ical seal type: blerance: design: ls: ousing: ng: : pump house coating: ion: of ambient temperature: m operating pressure: nnection standard: inlet connection: outlet connection: outlet connection: outlet connection: e rating for connection:	BQQE Single ISO9906:2012 3B2 Standard Cast iron EN-GJL-250 ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30 CED Stainless steel EN 1.4301 AISI 304 -20 40 °C 10 bar EN 1092-2 DIN DIN DN 200 DN 150 PN 10 Flexible w/spacer EN/ISO 9 N		
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Rated v Rated c Cos phi Rated s Efficience		11 kW		
Rated c Cos phi Rated s Efficience		50 Hz		
Cos phi Rated s Efficience	oltage:	3 x 380-480 V		
Rated s Efficience	urrent:	22.0-17.8 A		
Rated s Efficience	- power factor:	0.91-0.90		
Efficiend	peed:	240-1750 rpm		
		IE3 91,4%		
Motor et	fficiency at full load:	91.4 %		
	of poles:	4		
	ire class (IEC 34-5):	IP55		
	on class (IEC 85):	F		
Motor N	10:	86906221		
Othora				
Others: Minimur	m efficiency index, MEI ≥:	: 0.70		
Net weig		480 kg		
Gross w		547 kg		
		1.56 m³		
	g volume:	HU		
Custom	of origin:	110		
		84137059		
	of origin:			



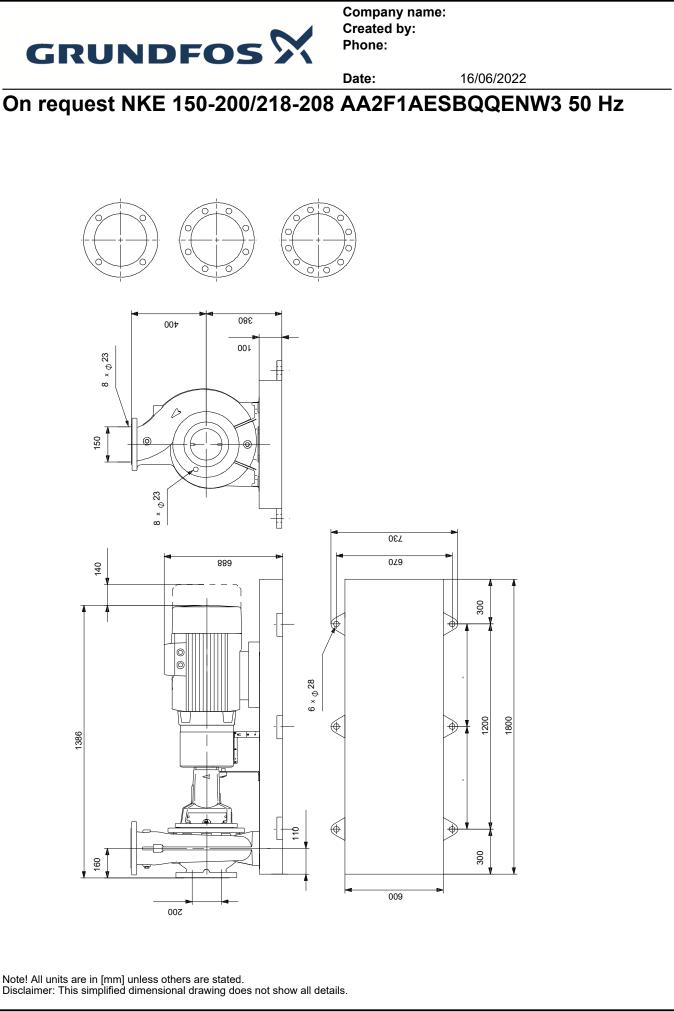


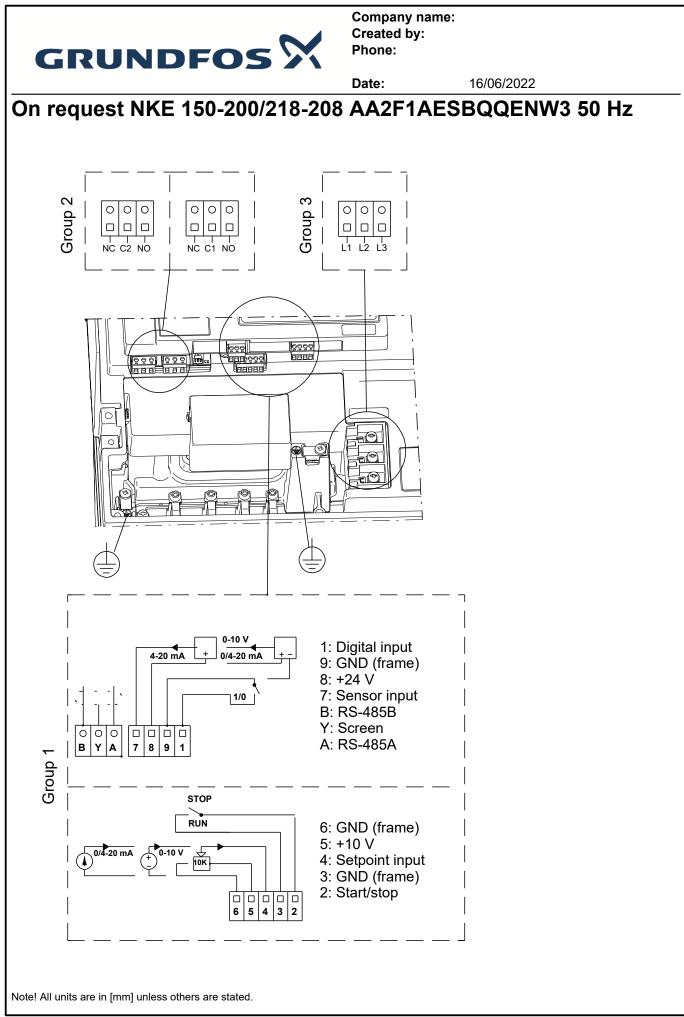
GRONE		Date:	16/06/2022	
Description	Value	H [m]	NKE 150-200/218-208, 3*400 V	eta [%]
General information:	Value	[11]	Pumped liquid = Water	[/0]
Product name:	NKE 150-200/218-208 AA2F1AESBQQENW3	13	Liquid temperature during operation = 20 °C Density = 998.2 kg/m ³	
Product No:	On request	11		
EAN number:	On request			
Technical:	•	10 -	90.%	
Pump speed on which pump data are based:	1460 rpm	9-	80 %	
Rated flow:	380 m³/h			
Pump with motor (Yes/No):	Y	7		
Rated head:	8.415 m	6-	70 %	
Actual impeller diameter:	213 mm	5		_ 100
Nominal impeller diameter:	200	4	60 %	- 80
Shaft diameter:	32 mm	5	8%	
Code for shaft seal:	BQQE	3-		- 60
Mechanical seal type:	Single	2		- 40
Curve tolerance:	ISO9906:2012 3B2	1 - 1		- 20
Pump version:	A2			-0
Bearing design:	Standard	0 -	100 200 300 400 Q [m³/h]	-0
Materials:		P [kW]		NPSH [m]
Pump housing:	Cast iron			-
Pump housing:	EN-GJL-250	10 -	P1 (motor+freq.converter)	- 10
Pump housing:	ASTM class 35		P2	
Wear ring:	Brass	8-		- 8
Impeller:	Cast iron	6		- 6
Impeller:	EN-GJL-200			
Impeller:	ASTM class 30	4-		- 4
Internal pump house coating:	CED	2		-2
Material code:	A	0		_0
Code for rubber:	E			
Shaft:	– Stainless steel			
Shaft:	EN 1.4301		1396	-
Shaft:	AISI 304	160		\rightarrow
Installation:				
Range of ambient temperature:	-20 40 °C			P)
Maximum operating pressure:	10 bar	─────┼╢╟╝━╡		J)
Pipe connection standard:	EN 1092-2			sin.
Type of inlet connection:	DIN	110		
Type of outlet connection:	DIN	/®		000
Size of inlet connection:	DN 200	8	39	
Size of outlet connection:	DN 150			
Pressure rating for connection:	PN 10	¥		
Coupling type:	Flexible w/spacer		1800	
Base frame design:	EN/ISO			
Code for base frame:	9			
Grouting (Yes/No):	Ν			
Connect code:	F			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C	FUS		
Density:	998.2 kg/m ³			
Electrical data:	<u> </u>		<u>ل</u>	
Motor type:	160LB		1: Digital input 9: SNO (frame)	
IE Efficiency class:	IE3		9: GNO (frame) 8: +24 V 7: Sensor input 8: RS-458	
Rated power - P2:	11 kW		B: RS-486B Y: Streen A: RS-485A	
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-480 V		6: GND (frame) 5: +10 V 4: Selpoint input 3: GND (frame)	
Rated current:	22.0-17.8 A		2: Start/stop	
			 = _ = _ =	

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		Date:	16/06/2022
Description	Value		
Cos phi - power factor:	0.91-0.90	_	
Rated speed:	240-1750 rpm		
Efficiency:	IE3 91,4%		
Motor efficiency at full load:	91.4 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	YES		
Motor No:	86906221		
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:	480 kg		
Gross weight:	547 kg		
Shipping volume:	1.56 m³		
Country of origin:	HU		
Custom tariff no.:	84137059		







16/06/2022

Order Data:

Product name:NKE 150-200/218-208Amount:1Product No:On request

Total: Price on request