

Date: 16/06	6/2022
Description	
NKE 100-250/274 BA2F2AESBQQEOW3	
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 performance according to EN 733. Flanges are PN 16 with dimensions according to axial suction port, a radial discharge port and horizontal shaft. It is of the back pull-ou coupling, bearing bracket and impeller without disturbing the motor, pump housing o	EN 1092-2. The pump has an ut design enabling removal of th
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 r base frame.	motor are mounted on a commo
The motor includes a frequency converter and PI controller in the motor terminal box variable control of the motor speed, which again enables adaptation of the performan	nce to a given requirement.
The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by t considered as an indicative benchmark for best-performing water pump available on 2013.	the Commission Regulation (EU the market as from 1 January
An external sensor can be connected if controlled pump operation is required for flow temperature control.	•
An operating panel on the motor terminal box enables setting of required setpoint as or "Max." operation or to "Stop". The operating panel has indicator lights for "Operati	o well as setting of pump to "Mir ion" and "Fault".
Communication with the pump is possible by means of Grundfos GO Remote (access enables further settings as well as reading out of a number of parameters such as "A input" and total "Power consumption".	ssory). The remote control Actual value", "Speed", "Power
Pump and motor are mounted on a common steel base frame in accordance with IS ¹ The back pull-out design together with a spacer coupling makes it possible to service 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 impelle double-curved blades with smooth surfaces. The impeller is statically balanced acco	r is a closed impeller with rding 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 a bellows. Due to the bellows, the seal does not wear the shaft, and the axial moveme on the shaft.	across the spring and around th nt is not prevented by deposits
{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

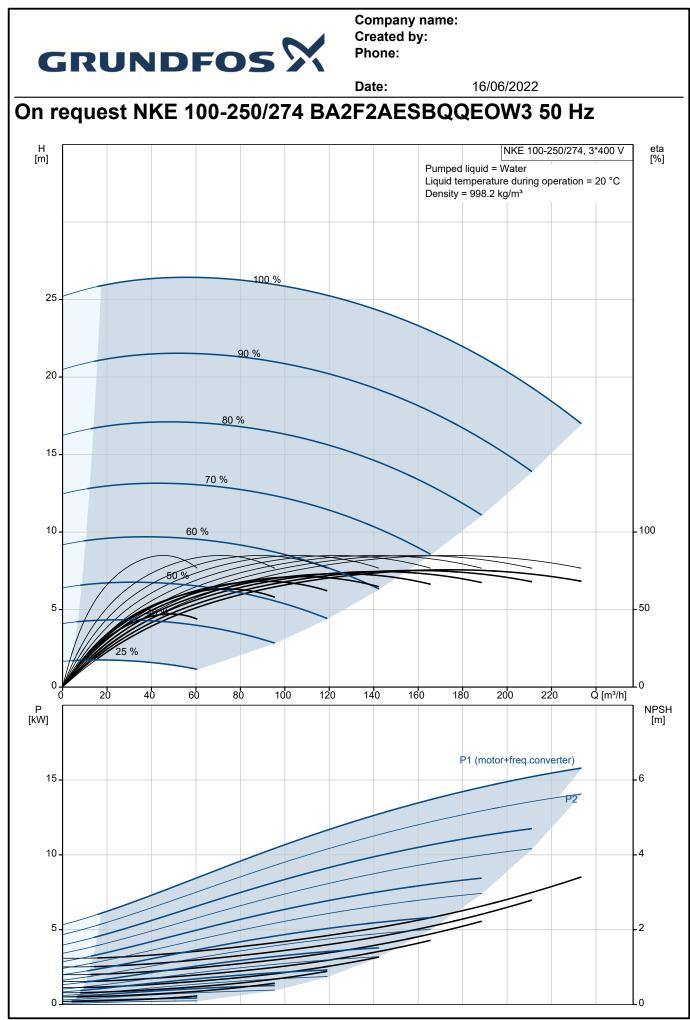
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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: 173.1 m³/h Y 22 m 274 mm 250	1460 rpm



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ription				
for shaft seal:	BQQE			
anical seal type:	Single			
	ISO9906:2012 3B2			
na desian:				
rials:				
housing:	Cast iron			
C C	EN-GJL-250			
ring:				
	-			
al nump house coating:				
	AISI 304			
lation:				
	-20 40 °C			
	EN/ISO			
for base frame:	7			
ing (Yes/No):	Ν			
	1601 B			
	-			
efficiency at full load:	92.1 %			
	4			
sure class (IEC 34-5):	IP55			
	F			
No:	86906223			
	403 kg			
	430 kg			
ving volume:	0.769 m³			
try of origin:	HU			
om tariff no.:	84137059			
nn tann no	04137039			
	04137039			
in tann no	04107009			
	veight: s weight: ving volume:	for shaft seal:BQQEanical seal type:Singlea tolerance:ISO9906:2012 3B2ng design:Standardrials:Cast ironb housing:Cast ironEN-GJL-250ASTM class 35ring:Brassler:Cast ironEN-GJL-200ASTM class 30tail pump house coating:CED:Stainless steel:Stainless steelEN 1.4301AISI 304lation:e of ambient temperature:e of ambient temperature:-20 40 °Cnum operating pressure:16 barconnection standard:DINof outlet connection:DINof outlet connection:DN 125of outlet connection:DN 100sure rating for connection:PN 16ling type:Flexible w/spacerframe design:FN/ISOfor base frame:7ting (Yes/No):Nrical data:type:type:160LBiciency class:IE3d power - P2:15 kWd voltage:3 x 380-480 Vd current:30.0-25.4 Aohi - power factor:0.90-0.85d speed:240-1750 rpmency:IE3 92,1%refficiency at full load:92.1 %serue class (IEC 34-5):IP55ation class (JoinBQQEanical seal type:Singleanical seal type:Singleanical seal type:Singleanical seal type:ISO9906:2012 3B2ng design:Standardrials:Cast ironblousing:Cast ironEN-GJL-250ASTM class 35ring:Brassler:Cast ironEN-GJL-200ASTM class 30hal pump house coating:CED:Stainless steel:Stainless steel:Stainless steel:EN 1.4301ANSI 304lation:e of ambient temperature::2040 °Cnum operating pressure:16 barconnection:DINof inlet connection:DN 100sure rating for connection:DN 125of utlet connection:DN 100sure rating for connection:PN 16ling type:Flexible w/spacerframe design:EN/ISOfor base frame:7ting (Yes/No):Nrical data:15 kWis frequency:50 Hz4 voltage:3 x 380-480 V3 current:30.0-25.4 Awhi - power factor:0.90-0.854 speed:240-1750 rpmency:IE3 92,1%e efficiency at full load:92.1 %e efficiency at full load:92.1 %e of poles:4sure class (IEC 34-5):IP55ation class (IEC 45):F• No:86906223<	Tor shaft seal: BQQE anical seal type: Single tolerance: ISO9906:2012 3B2 ng design: Standard tials: • housing: Cast iron EN-GUL-250 ASTM class 35 ring: Brass ler: Cast iron EN-GUL-250 ASTM class 30 lal pump house coating: CED : Stainless steel EN 1.4301 AISI 304 lation: e of ambient temperature: connection: DIN of inlet connection: DIN of outlet connection: DN 125 ing (yes/No): N tical data: : t/per: 160LB ticency class: IE3 tpower + P2: 15 kW is repeat: 240-1750 rpm ancy: IE



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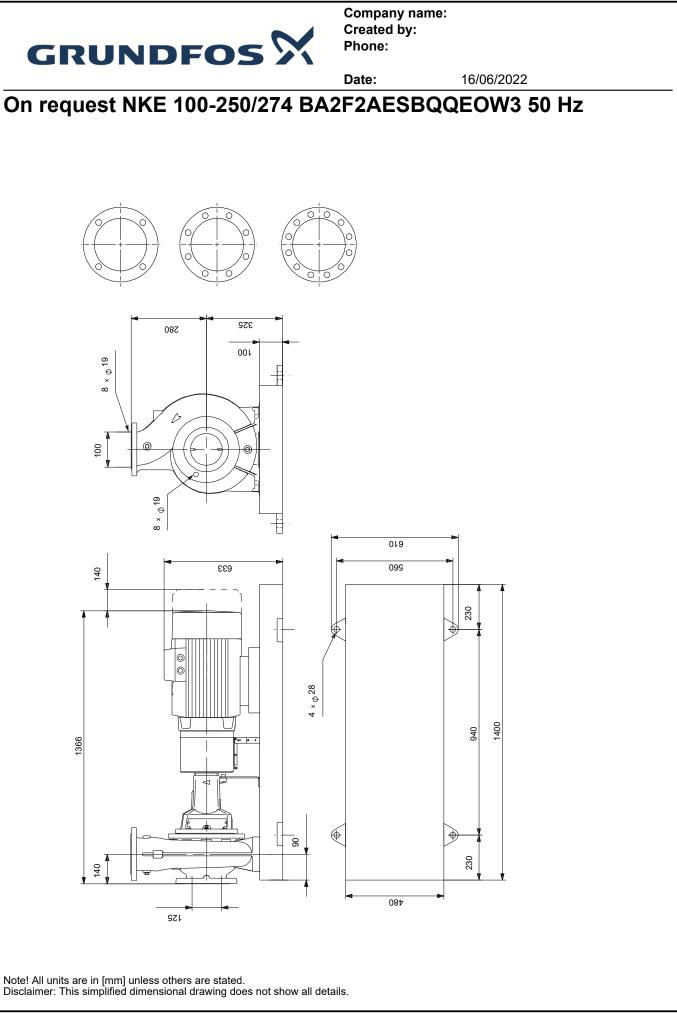
GRUND		Date:	16/06/2022
Description	Value	H [m]	NKE 100-250/274, 3*400 V eta
General information:	Value	[]	Pumped liquid = Water
Product name:	NKE 100-250/274 BA2F2AESBQQEOW3		Liquid temperature during operation = 20 °C Density = 998.2 kg/m³
Product No:	On request		100 %
EAN number:	On request	25 _	
Technical:			
Pump speed on which pump data are based:	1460 rpm	20 -	90 %
Rated flow:	173.1 m³/h		80 %
Pump with motor (Yes/No):	Y	15	
Rated head:	22 m		70 %
Actual impeller diameter:	274 mm		
Nominal impeller diameter:	250	10 -	60 %
Shaft diameter:	32 mm		50 %
Code for shaft seal:	BQQE		
Mechanical seal type:	Single	5-	50
Curve tolerance:	ISO9906:2012 3B2		25 %
Pump version:	A2		
Bearing design:	Standard	o j	50 100 150 200 Q [m³/h]
Materials:		P [kW]	NPSH [m]
Pump housing:	Cast iron		P1 (motor+freq.converter)
Pump housing:	EN-GJL-250	15 -	- 6
Pump housing:	ASTM class 35		FZ
Wear ring:	Brass	10 -	-4
Impeller:	Cast iron		
Impeller:	EN-GJL-200	5-	2
Impeller:	ASTM class 30		
Internal pump house coating:	CED		
Material code:	A	0	
Code for rubber:	E		
Shaft:	Stainless steel		-
Shaft:	EN 1.4301	140	
Shaft:	AISI 304		
Installation:		×/	
Range of ambient temperature:	-20 40 °C		
Maximum operating pressure:	16 bar	' <u>`}\\</u>	
Pipe connection standard:	EN 1092-2	90	
Type of inlet connection:	DIN		
Type of outlet connection:	DIN DN 485		
Size of inlet connection:	DN 125		00 00
Size of outlet connection:	DN 100	*	940 230
Pressure rating for connection:	PN 16 Elevible w/spacer		940 230
Coupling type: Base frame design:	Flexible w/spacer EN/ISO		
Code for base frame:	7		
	N		
Grouting (Yes/No): Connect code:	F		
Liquid:	F		
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m ³		
Electrical data:			
Motor type:	160LB		entre in the second sec
IE Efficiency class:	IE3		□ Ustran 1.Digbal prot ■ Ustran 0.Colo (terms) = Ustran 0.Colo (t
Rated power - P2:	15 kW		B. RS-4858 Y. Soreen A. RS-485A
Mains frequency:	50 Hz	®	
Rated voltage:	3 x 380-480 V		à 0.0X0 (famo)
Rated current:	30.0-25.4 A		

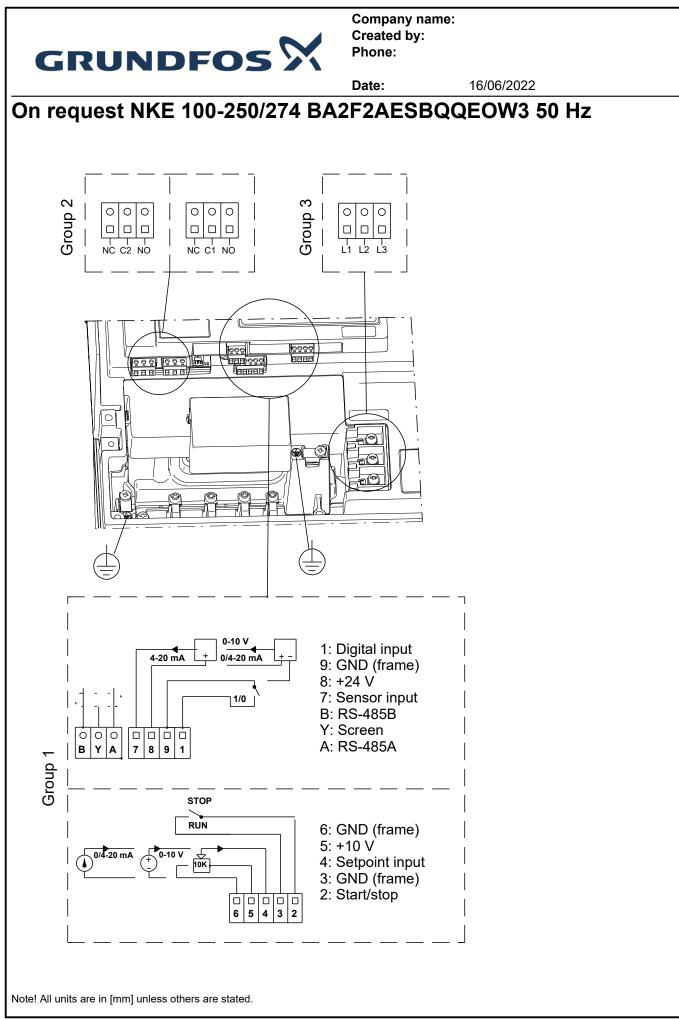
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16/06/2022

		Date:
Description	Value	
Cos phi - power factor:	0.90-0.85	
Rated speed:	240-1750 rpm	
Efficiency:	IE3 92,1%	
Motor efficiency at full load:	92.1 %	
Number of poles:	4	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	YES	
Motor No:	86906223	
Controls:		
Control panel:	Standard	
Function Module:	PUMP I/O	
Frequency converter:	Built-in	
Pressure sensor:	Ν	
Others:		
Minimum efficiency index, MEI ≥:	0.70	
Net weight:	403 kg	
Gross weight:	430 kg	
Shipping volume:	0.769 m³	
Country of origin:	HU	
Custom tariff no.:	84137059	







16/06/2022

Order Data:

Product name:NKE 100-250/274Amount:1Product No:On request

Total: Price on request