

			Date:	16/06/2022	
Description					
NKE 50-315/	331 AA2F2AESB0	QQEMWA			
Product No.:	On request	Note! Product p	picture may differ from a	ictual product	
FIOUUCI NO	Onrequest				
performance axial suction	according to EN 73 port, a radial disch	33. Flanges are Plarge port and hori	N 16 with dimensior zontal shaft. It is of	to ISO 5199 with dimensions and rated is according to EN 1092-2. The pump has the back pull-out design enabling remova ump housing or pipework.	s an I of the
The pump is mounted on a	a common base fra	ounted, fan-cooled me.	d, permanent-magn	et synchronous motor. Pump and motor a	
The motor in variable cont	cludes a frequency rol of the motor spe	converter and PI ed, which again e	controller in the mo nables adaptation o	or terminal box. This enables continuous of the performance to a given requirement	ly t.
The product's considered a 2013.	s minimum efficiences s an indicative ben	cy index (MEI) is g chmark for best-p	reater or equal to 0 erforming water pur	70. This is by the Commission Regulation pavailable on the market as from 1 Janu	n (EU) uary
An external s temperature		ected if controlled	pump operation is	required for flow, differential pressure or	
The operating indicator.	g panel on the mot	or terminal box fea	atures a four-inch Tl	T display, push-buttons and the Grundfo	s Eye
The push-bu	ttons are used to na	avigate through th	erface to all functior e menu structure to ng of pump to "Min.	is. access pump and performance data on s ' or "Max." operation or to "Stop".	site and
				dication of pump status: [,] not running (permanently green indicato	or lights
 "Warr lights) 		unning (rotating y	ellow indicator lights) or has stopped (permanently yellow ind	licator
 "Alarn Communicati enables furth 	n": Motor has stopp on with the pump i	s also possible by as reading out of a	means of Grundfos	GO Remote (accessory). The remote co ters such as "Actual value", "Speed", "Po	ontrol
The back pul		er with a spacer c	oupling makes it po	rdance with ISO 3661. ssible to service the pump without dismar	ntling
1) Remove	ealignment of pump coupling. the bolts in the bea				
	the bearing bracke				



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 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 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 ra	Water ange: -25 120 °C



Qty.

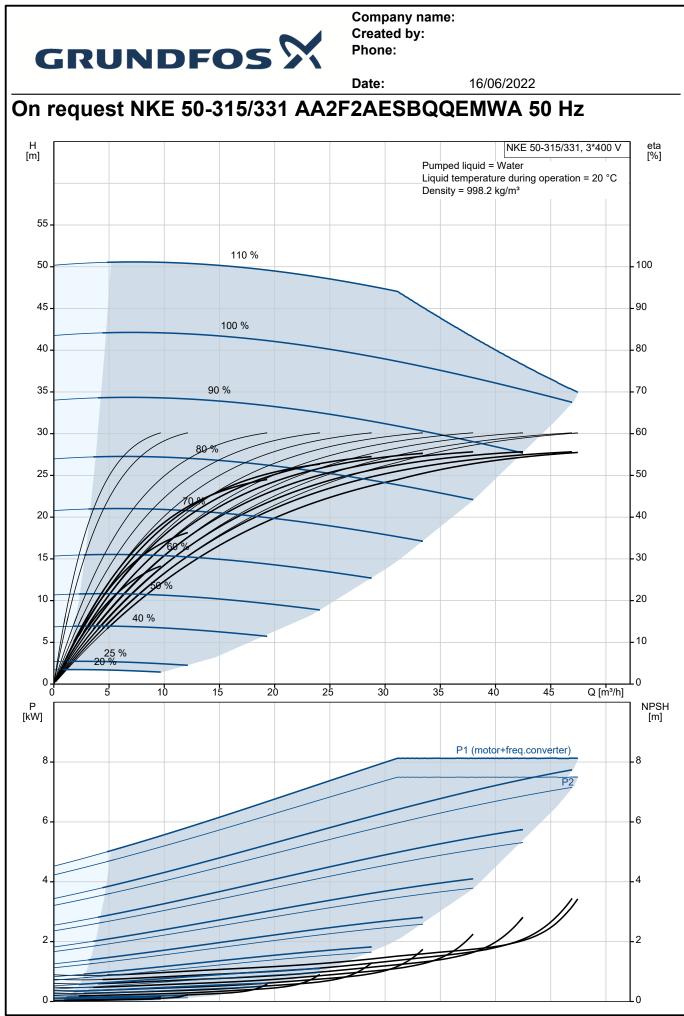
Company name: Created by: Phone:

GRUNDF		Deter	16/06/2022	
Description		Date:	16/06/2022	
Description				
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³			
Technical:				
Pump speed on which pump dat	ta are based: 1450 r	nm		
Rated flow:	47 m ³ /h	pm		
Pump with motor (Yes/No):	Y			
Rated head:	33.9 m			
Actual impeller diameter:	331 mm			
Nominal impeller diameter:	315			
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:	Brass			
Impeller:	Cast iron			
	EN-GJL-200			
Internal nump house costing	ASTM class 30 CED			
Internal pump house coating: Shaft:	Stainless steel			
Shan.	EN 1.4301			
	AISI 304			
Installation:	00 50 00			
Range of ambient temperature:	-20 50 °C 16 bar			
Maximum operating pressure: Pipe connection standard:	EN 1092-2			
Type of inlet connection:	DIN			
Type of outlet connection:	DIN			
Size of inlet connection:	DN 65			
Size of outlet connection:	DN 50			
Pressure rating for connection:	PN 16			
Coupling type:	Flexible w/spacer			
Base frame design:	EN/ISO			
Code for base frame:	6			
Grouting (Yes/No):	Ν			
Electrical data:				
Motor type:	132MH			
IE Efficiency class:	IE5			
Rated power - P2:	7.5 kW			
Mains frequency:	50 Hz			
Rated voltage: Rated current:	3 x 380-500 V 14.1-11.1 A			
Cos phi - power factor:	0.93-0.89			
Rated speed:	180-2200 rpm			
Efficiency:	92.2%			
Motor efficiency at full load:	92.2 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor No: Bearing insulation type N and:	99392847 STEEL BEADING			

Bearing insulation type N-end: STEEL BEARING



GRUND	FOS X	Pnone:		
		Date:	16/06/2022	
y. Description				
Others: Minimum efficiency inde	ex, MEI ≥: 0.70			
Net weight:	251 kg			
Gross weight:	266 kg 0.574 m³			
Shipping volume: Country of origin:	HU			
Custom tariff no.:	84137059			



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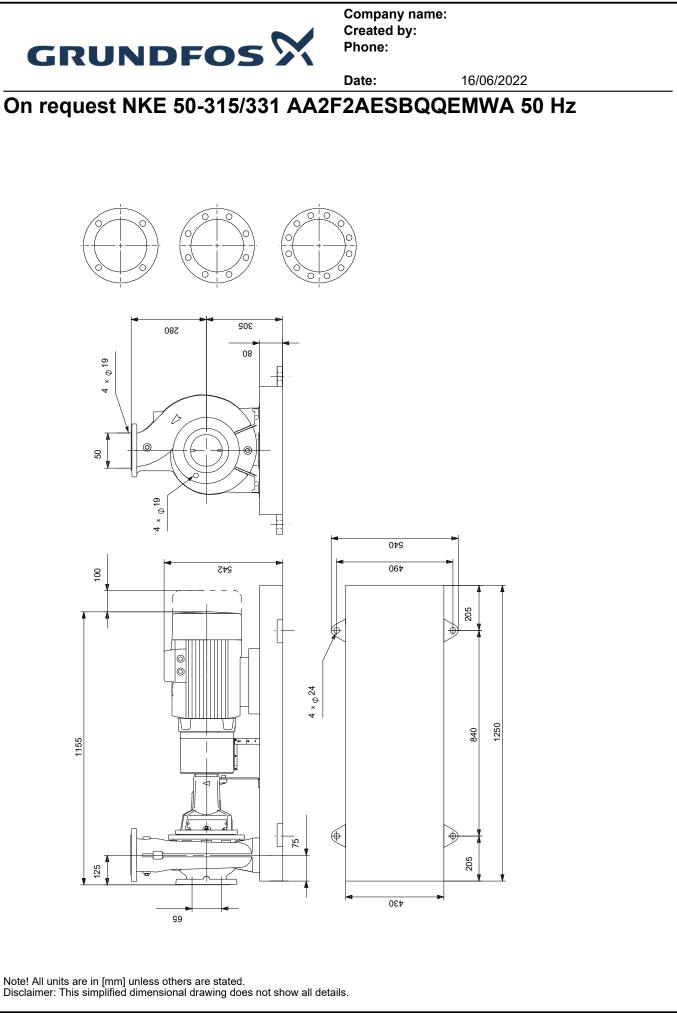
		Date:	16/06/2022
Description	Value	H [m]	NKE 50-315/331, 3*400 V eta [%]
General information:	Value	[11]	Pumped liquid = Water
Product name:	NKE 50-315/331 AA2F2AESBQQEMWA	55 -	Liquid temperature during operation = 20 °C Density = 998.2 kg/m ³
Product No:	On request	50 -	110 %
EAN number:	On request		
Technical:	On request	45	100 %
Pump speed on which pump data	1450	40 -	80
are based:	1450 rpm	35 -	90 %
Rated flow:	47 m³/h	30	60
Pump with motor (Yes/No):	Y		80-%
Rated head:	33.9 m	25 -	50
Actual impeller diameter:	331 mm	20 - //	40
Nominal impeller diameter:	315		
Shaft diameter:	32 mm	15 -	30
Code for shaft seal:	BQQE	10 _	20
Mechanical seal type:	Single		40 %
Curve tolerance:	ISO9906:2012 3B2	5-	2/0 10
Pump version:	A2	0	
Bearing design:	Standard	0 5	10 15 20 25 30 35 40 Q[m³/h]
Materials:		P [kW]	NPS [m]
Pump housing:	Cast iron	8	P1 (motor+freq.converter)
Pump housing:	EN-GJL-250		P2 0
Pump housing:	ASTM class 35	6 -	-6
Wear ring:	Brass	0-	ľ
Impeller:	Cast iron	4	4
Impeller:	EN-GJL-200	4-	// *
Impeller:	ASTM class 30		
Internal pump house coating:	CED	2-	
Material code:	A	0	
Code for rubber:	E		
Shaft:	Stainless steel		
Shaft:	EN 1.4301	_	1155
Shaft:	AISI 304	125	
Installation:	AISI 304		
	-20 50 °C		
Range of ambient temperature:	-2050 C		
Maximum operating pressure:			
Pipe connection standard:	EN 1092-2	75	
Type of inlet connection:	DIN	/®\	
Type of outlet connection:	DIN	[]	
Size of inlet connection:	DN 65		¥ 8
Size of outlet connection:	DN 50	 	
Pressure rating for connection:	PN 16	205	840 205 1250
Coupling type:	Flexible w/spacer		-
Base frame design:	EN/ISO		
Code for base frame:	6		
Grouting (Yes/No):	Ν	A	т
Connect code:	F		
Liquid:		PE	
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³	Fact Frank	
Electrical data:	-		
Motor type:	132MH	11 V C	
IE Efficiency class:	IE5		
Rated power - P2:	7.5 kW		T Boo T BoonaA T BoonaA
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-500 V		
Rated current:	14.1-11.1 A		
Nated Cullent.	14.1-11.1 A		=

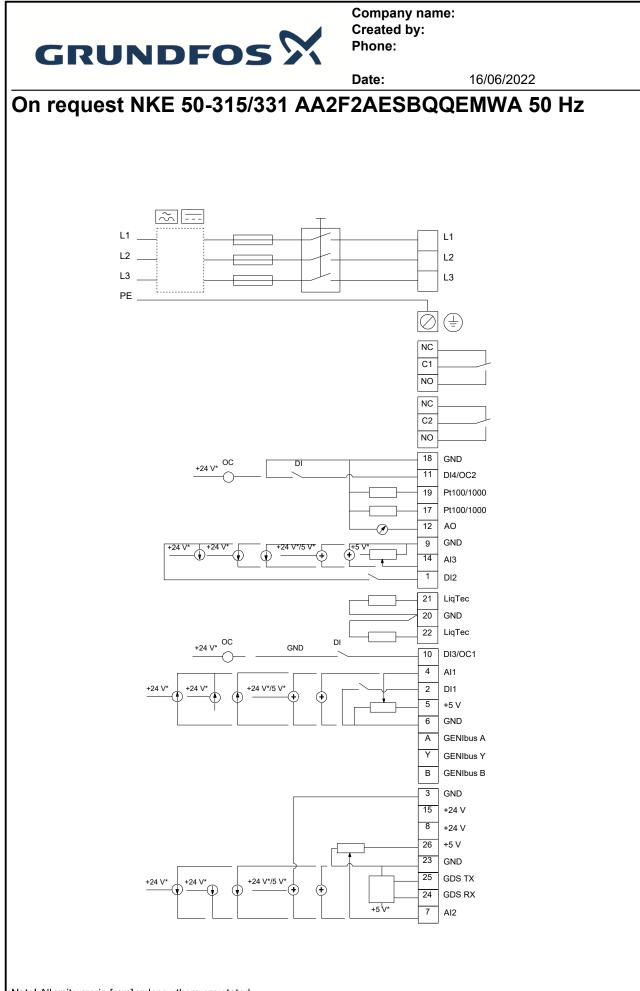
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16/06/2022

		Date:
Description	Value	
Cos phi - power factor:	0.93-0.89	
Rated speed:	180-2200 rpm	
Efficiency:	92.2%	
Motor efficiency at full load:	92.2 %	
Number of poles:	4	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	ELEC	
Motor No:	99392847	
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:	251 kg	
Gross weight:	266 kg	
Shipping volume:	0.574 m³	
Country of origin:	HU	
Custom tariff no.:	84137059	







16/06/2022

Order Data:

Product name:NKE 50-315/331Amount:1Product No:On request

Total: Price on request