

Description		
NKE 50-315/277 AA2F2AESBQQEKWA		
Notel Broduct (picture may differ from ac	stual product
Product No.: On request	ficture may differ from at	
Non-self-priming, single-stage, centrifugal pump of performance according to EN 733. Flanges are Pl axial suction port, a radial discharge port and hori coupling, bearing bracket and impeller without dis	N 16 with dimensions zontal shaft. It is of th	s according to EN 1092-2. The pump has an he back pull-out design enabling removal of the
The unbalanced rubber bellows seal is according The pump is fitted with a foot-mounted, fan-cooled mounted on a common base frame.		t synchronous motor. Pump and motor are
The motor includes a frequency converter and PI variable control of the motor speed, which again e	controller in the moto enables adaptation of	or terminal box. This enables continuously f the performance to a given requirement.
The product's minimum efficiency index (MEI) is g considered as an indicative benchmark for best-p 2013.	greater or equal to 0.3 erforming water pum	70. This is by the Commission Regulation (EU) p available on the market as from 1 January
An external sensor can be connected if controlled temperature control.	pump operation is re	equired for flow, differential pressure or
The operating panel on the motor terminal box fea indicator.	atures a four-inch TF	T display, push-buttons and the Grundfos Eye
The display gives an intuitive and user-friendly int The push-buttons are used to navigate through th enable setting of required setpoint as well as setti	e menu structure to a	access pump and performance data on site and
The Grundfos Eye indicator on the operating pane • "Power on": Motor is running (rotating gree	•	ication of pump status: not running (permanently green indicator lights
 "Warning": Motor is still running (rotating years) 	ellow indicator lights)) or has stopped (permanently yellow indicator
 "Alarm": Motor has stopped (flashing red in Communication with the pump is also possible by enables further settings as well as reading out of input" and total "Power consumption". 	means of Grundfos	GO Remote (accessory). The remote control ters such as "Actual value", "Speed", "Power
Pump and motor are mounted on a common stee The back pull-out design together with a spacer of the pump housing and motor from the base frame	oupling makes it pos	
This saves realignment of pump and motor after s1) Remove coupling.2) Remove the bolts in the bearing bracket supp		
3) Remove the bearing bracket from the pump h		



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.

{IMG Filename: GRALON_NB-NK-G_SHAFTSEAL_Bxxx.gif }

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

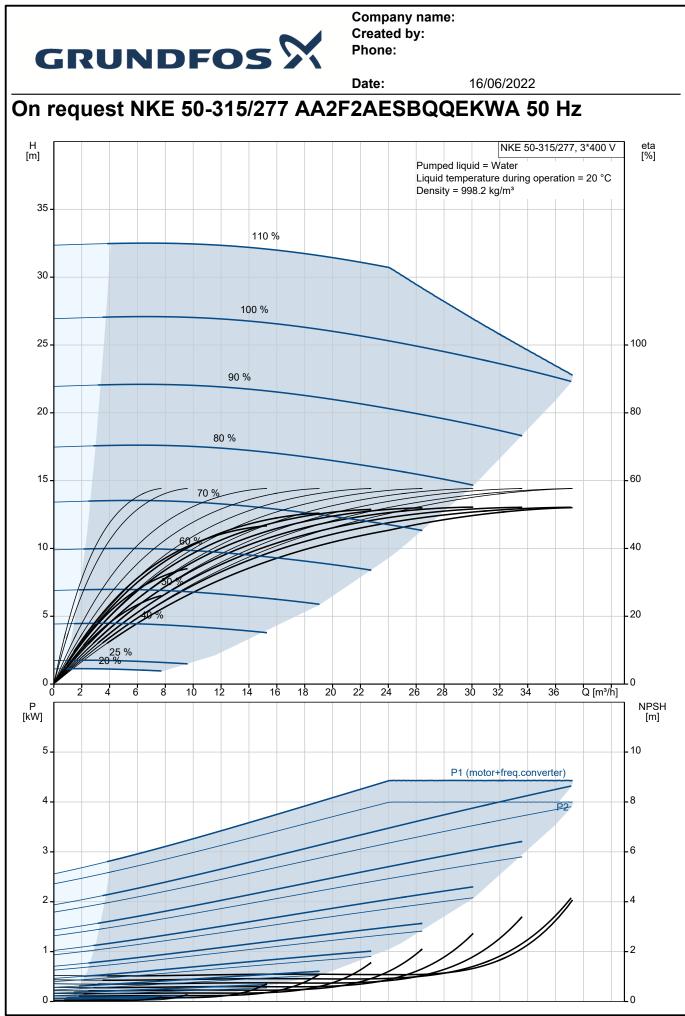


Qty.

GRUNDFOS Phone:				
		Date:	16/06/2022	
Description				
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³			
Technical:				
Pump speed on which pump da	ata are based: 1450 r	ma		
Rated flow:	37.2 m³/h			
Pump with motor (Yes/No):	Y			
Rated head:	22.4 m			
Actual impeller diameter: Nominal impeller diameter:	277 mm 315			
Code for shaft seal:	BQQE			
Mechanical seal type:	Single			
Curve tolerance:	ISO9906:2012 3B2			
Bearing design:	Standard			
Materials:				
Pump housing:	Cast iron			
g.	EN-GJL-250			
	ASTM class 35			
Wear ring:	Brass			
Impeller:	Cast iron			
	EN-GJL-200 ASTM class 30			
Internal pump house coating:	CED			
Shaft:	Stainless steel			
	EN 1.4301			
	AISI 304			
Installation:				
Range of ambient temperature:	-20 50 °C			
Maximum operating pressure:	16 bar			
Pipe connection standard:	EN 1092-2			
Type of inlet connection:	DIN			
Type of outlet connection: Size of inlet connection:	DIN 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 N			
Grouting (Yes/No):	Ν			
Electrical data:				
Motor type:	112ME			
IE Efficiency class:	IE5			
Rated power - P2: Mains frequency:	4 kW 50 Hz			
Rated voltage:	3 x 380-500 V			
Rated current:	7.70-6.00 A			
Cos phi - power factor:	0.92-0.87			
Rated speed:	180-2200 rpm			
Efficiency:	90.3%			
Motor efficiency at full load: Number of poles:	90.3 % 4			
Enclosure class (IEC 34-5):	4 IP55			
Insulation class (IEC 85):	F			
Motor No:	99305882			
Bearing insulation type N-end:	STEEL BEARING			



	GRUNDFO	DS X	Phone:	
			Date:	16/06/2022
Qty.	Description			
	Others: Minimum efficiency index, MEI ≥: Net weight:	0.70 225 kg		
	Gross weight: Shipping volume:	240 kg 0.574 m³		
	Country of origin: Custom tariff no.:	HU 84137059		



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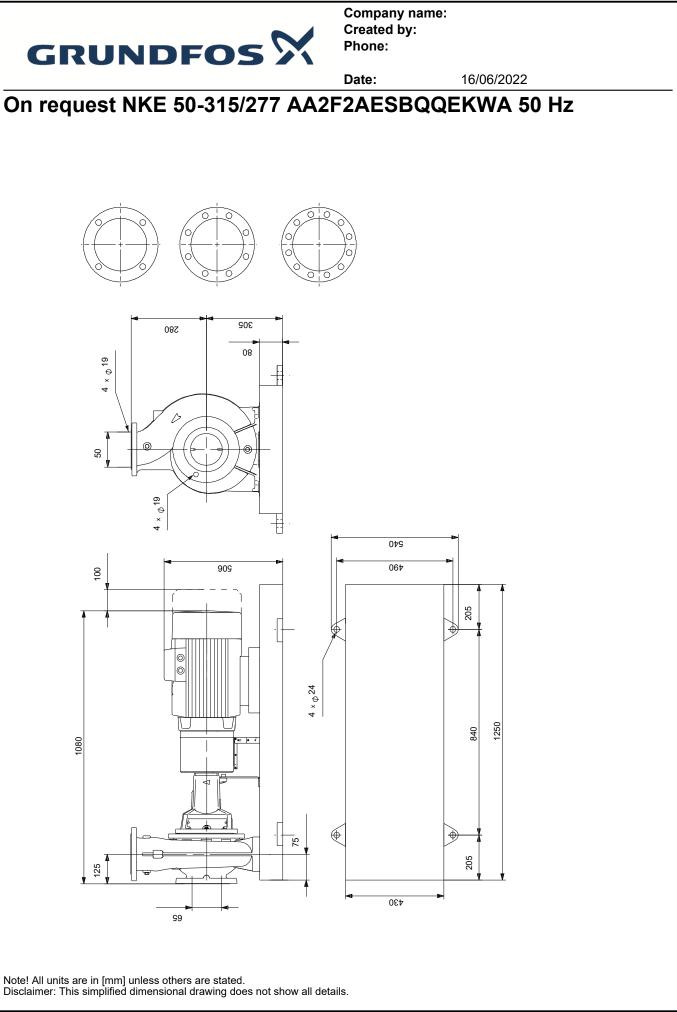


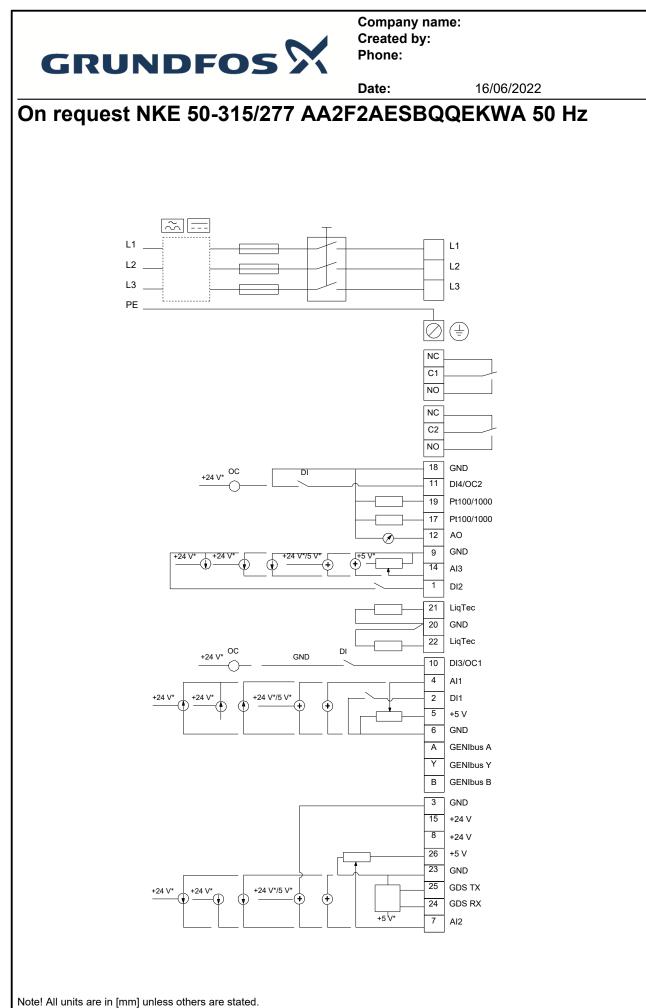
		Date:	16/06/2022
Description	Value	H [m]	NKE 50-315/277, 3*400 V eta [%]
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C
Product name:	NKE 50-315/277 AA2F2AESBQQEKWA	35	Density = 998.2 kg/m ³
Product No:	On request	30 -	
EAN number:	On request	_	100 %
Technical:	•		
Pump speed on which pump data are based:	1450 rpm	25 -	90 %
Rated flow:	37.2 m³/h	20 -	- 80
Pump with motor (Yes/No):	Y		80 %
Rated head:	22.4 m	15 -	-60
Actual impeller diameter:	277 mm		70 %
Nominal impeller diameter:	315		60 34
Shaft diameter:	32 mm	10-///	-40
Code for shaft seal:	BQQE		
Mechanical seal type:	Single	5-	20
Curve tolerance:	ISO9906:2012 3B2	25.0	%
Pump version:	A2	0 - 26%	
Bearing design:	Standard	0 5	10 15 20 25 30 Q [m³/h]
Materials:		P [kW]	NPSH [m]
Pump housing:	Cast iron	5_	10
Pump housing:	EN-GJL-250		P1 (motor+freq.converter)
Pump housing:	ASTM class 35	4 -	P2 - 8
Wear ring:	Brass	3-	6
Impeller:	Cast iron	°	-0
Impeller:	EN-GJL-200	2	4
Impeller:	ASTM class 30		
Internal pump house coating:	CED	1-	
Material code:	A	0	
Code for rubber:	E		
Shaft:	Stainless steel		
Shaft:	EN 1.4301		1080
Shaft:	AISI 304	125	
Installation:			
Range of ambient temperature:	-20 50 °C		
Maximum operating pressure:	16 bar	─────┼╢╢╝━∹	
Pipe connection standard:	EN 1092-2		
Type of inlet connection:	DIN	75	4
Type of outlet connection:	DIN	/	
Size of inlet connection:	DN 65		88
Size of outlet connection:	DN 50	*	
Pressure rating for connection:	PN 16	205	840
Coupling type:	Flexible w/spacer		1250
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/m ³		
Electrical data:		<u></u>	
Motor type:	112ME		
IE Efficiency class:	IE5		
Rated power - P2:	4 kW		
Mains frequency:	50 Hz		I dolma i T 960 T 3 3 V
Rated voltage:	3 x 380-500 V		
Rated current:	7.70-6.00 A		

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		Date:	16/06/2022
Description	Value		
Cos phi - power factor:	0.92-0.87	_	
Rated speed:	180-2200 rpm		
Efficiency:	90.3%		
Motor efficiency at full load:	90.3 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	ELEC		
Motor No:	99305882		
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:	225 kg		
Gross weight:	240 kg		
Shipping volume:	0.574 m³		
Country of origin:	HU		
Custom tariff no.:	84137059		







16/06/2022

Order Data:

Product name:NKE 50-315/277Amount:1Product No:On request

Total: Price on request