



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 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 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

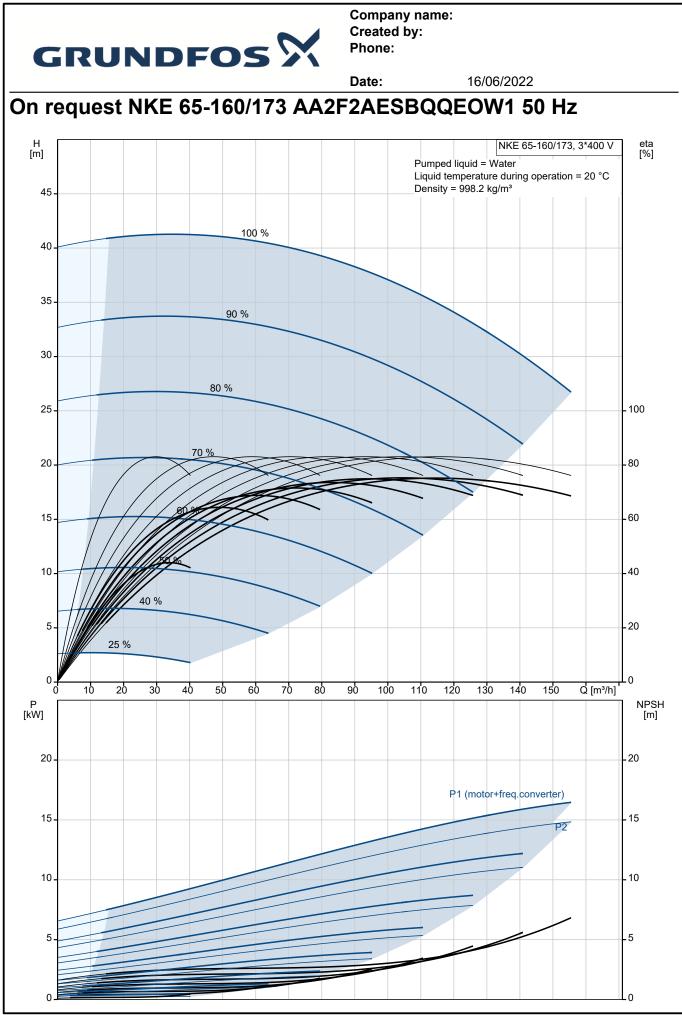
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

## **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: 115.4 m³/h Y 34.74 m 173 mm 160	2940 rpm



		Date:	16/06/2022
Description			
Code for shaft seal:	BQQE		
Mechanical seal type:	Single		
Curve tolerance:	ISO9906:2012 3B		
Bearing design:	Standard		
Materials:			
Pump housing:	Cast iron		
	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 40 °C		
Maximum operating pressure:	16 bar		
Pipe connection standard:	EN 1092-2		
Type of inlet connection:	DIN		
Type of outlet connection:	DIN		
Size of inlet connection:	DN 80		
Size of outlet connection:	DN 65		
Pressure rating for connection:	PN 16		
Coupling type:	Flexible w/spacer		
Base frame design:	EN/ISO		
Code for base frame:	6		
Grouting (Yes/No):	Ň		
Electrical data:			
Motor type:	160MD		
IE Efficiency class:	IE3		
Rated power - P2:	15 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-480 V		
Rated current:	30.0-26.0 A		
Cos phi - power factor:	0.91-0.86		
Rated speed:	480-3540 rpm		
Efficiency:	IE3 91,9%		
Motor efficiency at full load:	91.9 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor No:	85901281		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	255 kg		
Gross weight:	270 kg		
Shipping volume:	0.549 m <sup>3</sup>		
Country of origin:	HU		
Custom tariff no.:	84137059		
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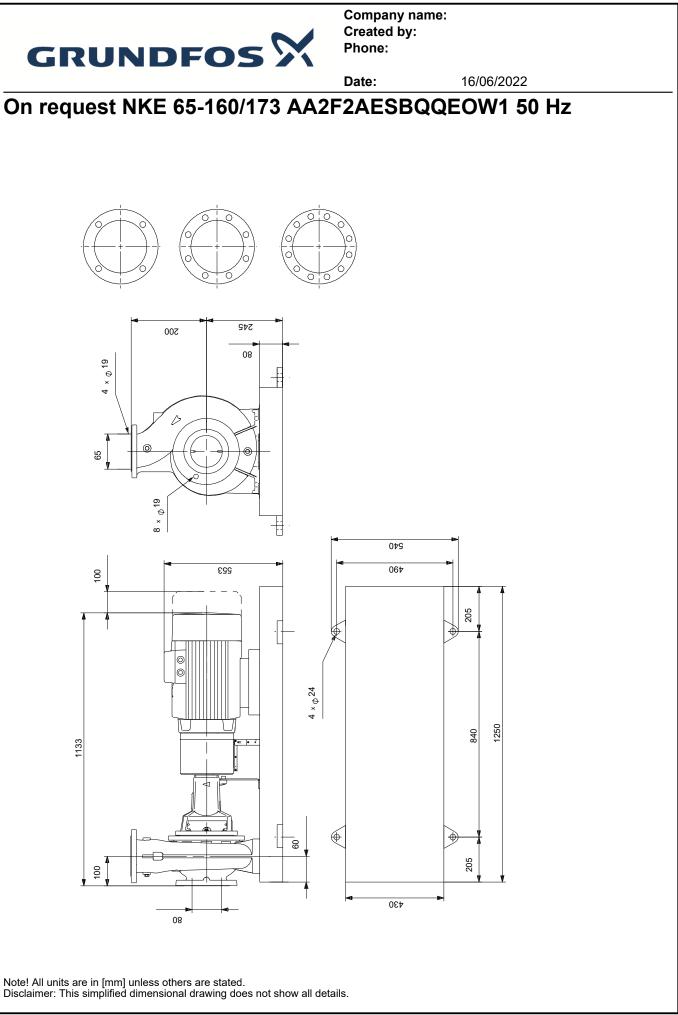
GRUND		Date:	16/06/2022
Description	Value	H [m]	NKE 65-160/173, 3*400 V eta
General information:	Value	45	Pumped liquid = Water
Product name:	NKE 65-160/173 AA2F2AESBQQEOW1	40 -	Liquid temperature during operation = 20 °C Density = 998.2 kg/m <sup>3</sup>
Product No:	On request		
EAN number:	On request	35 -	
Technical:	0		90 %
Pump speed on which pump data are based:	2940 rpm	30 -	80 %
Rated flow:	115.4 m³/h	25 -	100
Pump with motor (Yes/No):	Y		70 %
Rated head:	34.74 m	20 -	-80
Actual impeller diameter:	173 mm		
Nominal impeller diameter:	160	15	-60
Shaft diameter:	24 mm		
Code for shaft seal:	BQQE	10	40
Mechanical seal type:	Single		40 %
Curve tolerance:	ISO9906:2012 3B	5-	25 %
Pump version:	A2		
Bearing design:	Standard	o'	20 40 60 80 100 120 140 Q [m³/h]
Materials:		P [kW]	NPSH [m]
Pump housing:	Cast iron	20 <b>-</b>	
Pump housing:	EN-GJL-250	20 -	
Pump housing:	ASTM class 35	15 -	P1 (motor+freq.converter)
Wear ring:	Brass	13-	P2 - 13
Impeller:	Cast iron	10 -	10
Impeller:	EN-GJL-200		
Impeller:	ASTM class 30	5	5
Internal pump house coating:	CED		
Material code:	A		0
Code for rubber:	E		
Shaft:	Stainless steel		
Shaft:	EN 1.4301	r	1133
Shaft:	AISI 304	100	
Installation:			
Range of ambient temperature:	-20 40 °C	* <b> </b> }_	
Maximum operating pressure:	16 bar	++էլ	
Pipe connection standard:	EN 1092-2		
Type of inlet connection:	DIN		
Type of outlet connection:	DIN	<u></u>	
Size of inlet connection:	DN 80	ê	8
Size of outlet connection:	DN 65		
Pressure rating for connection:	PN 16	205	
Coupling type:	Flexible w/spacer		1250
Base frame design:	EN/ISO		
Code for base frame:	6		
Grouting (Yes/No):	N		
Connect code:	F		(이이) [ 전] (이이) [ 
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m <sup>3</sup>	<b>Ig_</b>	
Electrical data:	· · · · · · · · · ·		
Motor type:	160MD		- 1 : Digital input
IE Efficiency class:	IE3	I	L2 Joseph L2 0 (Sh() (fame) 8 - 24 V   7 - Sensor input   8 - 82-45 V
Rated power - P2:	15 kW		B: RS-485A Y: Screen A: RS-485A
Mains frequency:	50 Hz		100
Rated voltage:	3 x 380-480 V		mini SchOlfanne)   : 4.Septoni tiput   :
Rated current:	30.0-26.0 A		GOGOGO 2. Startistop
	00.0-20.0 A		

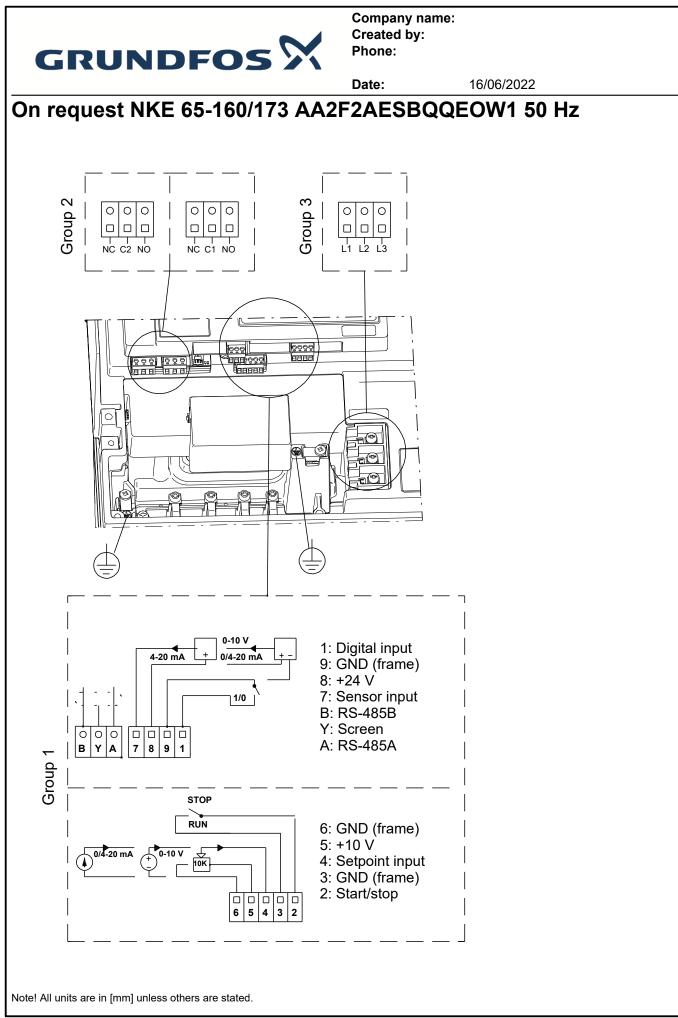
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		Date:
Description	Value	
Cos phi - power factor:	0.91-0.86	-
Rated speed:	480-3540 rpm	
Efficiency:	IE3 91,9%	
Motor efficiency at full load:	91.9 %	
Number of poles:	2	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	YES	
Motor No:	85901281	
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:	255 kg	
Gross weight:	270 kg	
Shipping volume:	0.549 m³	
Country of origin:	HU	
Custom tariff no.:	84137059	







16/06/2022

# Order Data:

Product name:NKE 65-160/173Amount:1Product No:On request

Total: Price on request