

WKE 80-160/177 AA2F2AESBQQEKWA Image: State		Date: 16/06/2022
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 Product No.: On request Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 with dimensions and rated performance according to EM 733. Flanges are PM 16 with dimensions according to EM 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 impelier 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, permanent-magnet synchronous 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 Sminimum 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 emperature control. The oparting panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye Indicator. The display gives an intuitive and user-friendly interface to all functions. The grundfos Eye indicator on the operating panel provides visual indication of pump status: "Power on". Motor is still running (rotating green indicator lights) or not running (permanently gellew indicator lights). "Warning". Motor is still running (rotating yellow indicator lights) or not supper (accessory). The remote control enables further support of unamenters as "Actual value", "Speed", "Power nput the pump is also possible by means of Grundfos GO Remote (accessory). The remote		NKE 80-160/177 AA2F2AESBQQEKWA
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 "Alarm": Motor has stopped (flashing red indicator lights). Communication with the pump is also 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 nput" 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. 		
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 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 and motor are mounted on a common steel base frame in accordance with ISO 3661.
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 2) Remove the bolts in the bearing bracket support foot. 3) Remove the bearing bracket from the pump housing. 		This saves realignment of pump and motor after service.
3) Remove the bearing bracket from the pump housing.		
Pump		
Pump		
Pump		
Pump		
Pump		
		Pump



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 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 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 range:	Water -25 120 °C



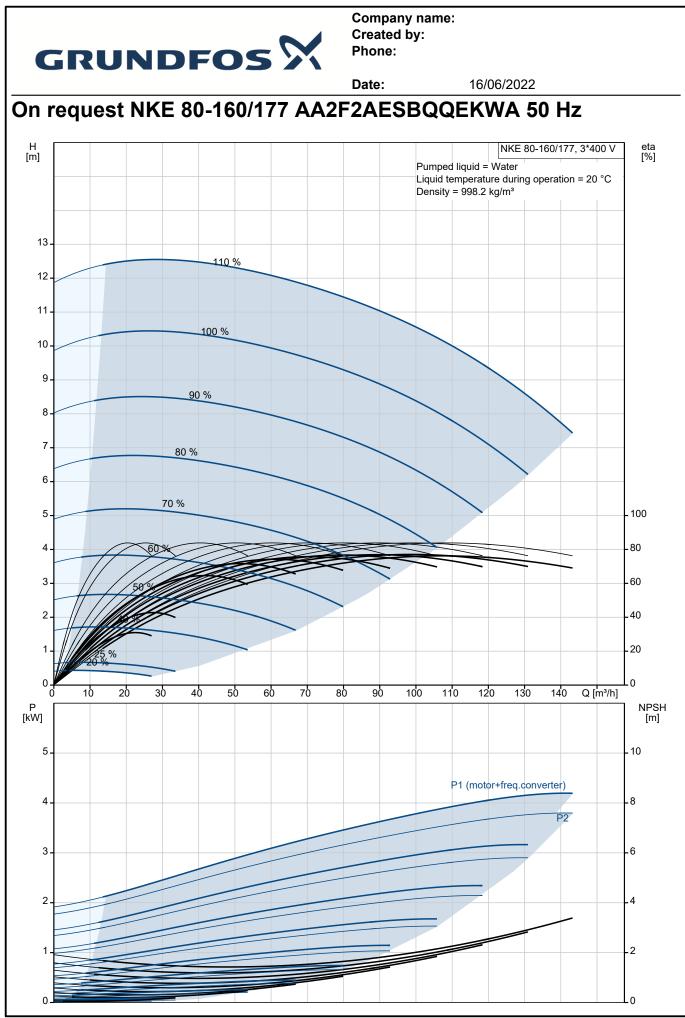
Qty.

Company name: Created by: Phone:

GRUNDF	os X	Phone:		
		Date:	16/06/2022	
Description				
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³			
Technical:				
Pump speed on which pump dat	a are based: 1450	man		
Rated flow:	103 m³/h			
Pump with motor (Yes/No):	Y			
Rated head:	8.1 m			
Actual impeller diameter: Nominal impeller diameter:	177 mm 160			
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			
	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 DIN			
Type of inlet connection: Type of outlet connection:	DIN			
Size of inlet connection:	DN 100			
Size of outlet connection:	DN 80			
Pressure rating for connection:	PN 16			
Coupling type: Base frame design:	Flexible w/spacer			
Code for base frame:	EN/ISO 5			
Grouting (Yes/No):	Ň			
Electrical data:	440145			
Motor type: IE Efficiency class:	112ME IE5			
Rated power - P2:	4 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-500 V			
Rated current:	7.70-6.00 A			
Cos phi - power factor: Rated speed:	0.92-0.87 180-2200 rpm			
Efficiency:	90.3%			
Motor efficiency at full load:	90.3 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	IP55 F			
Insulation class (IEC 85): Motor No:	F 99305882			
Bearing insulation type N-end:	STEEL BEARING			



	GRUNDFO	JS 21	Thone.	
			Date:	16/06/2022
•	Description			
	Others:			
	Minimum efficiency index, MEI ≥:	0.70		
	Net weight:	157 kg		
	Gross weight: Shipping volume:	177 kg 0.44 m³		
	Country of origin:	HU		
	Custom tariff no.:	84137059		



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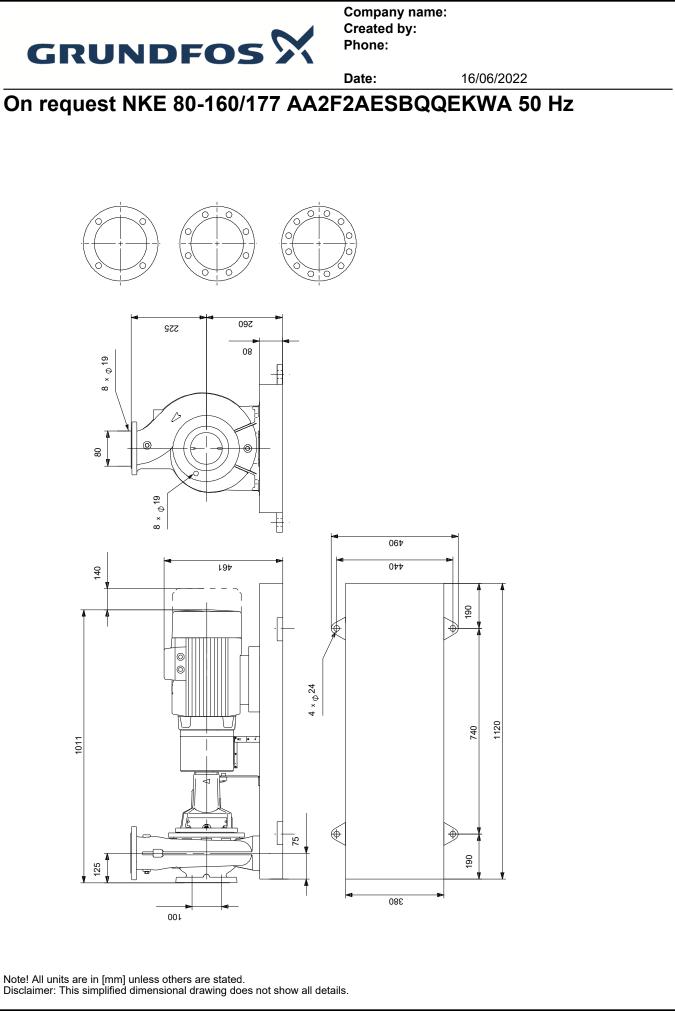
		Date:	16/06/2022	
Description	Value	H [m]	NKE 80-160/177, 3*400 V	eta [%]
General information:	14140		Pumped liquid = Water	
Product name:	NKE 80-160/177 AA2F2AESBQQEKWA	13 -	Liquid temperature during operation = 20 °C Density = 998.2 kg/m ³	
Product No:	On request	12	110 %	
EAN number:	On request			
Technical:	0	11-	100 %	
Pump speed on which pump data are based:	1450 rpm	10 - 9 -	90 %	
Rated flow:	103 m³/h	8-	50 /0	
Pump with motor (Yes/No):	Y	7	80 %	
Rated head:	8.1 m	6		
Actual impeller diameter:	177 mm		70 %	
Nominal impeller diameter:	160	5-		100
Shaft diameter:	24 mm	4- 1	60 %	80
Code for shaft seal:	BQQE	3	58	60
Mechanical seal type:	Single	2-		40
Curve tolerance:	ISO9906:2012 3B2			.20
Pump version:	A2			
Bearing design:	Standard	0 20	0 40 60 80 100 120 Q [m³/h]	0
Materials:		P [kW]		NPSH
Pump housing:	Cast iron	5		[m] .10
Pump housing:	EN-GJL-250		P1 (motor+freq.converter)	
Pump housing:	ASTM class 35	4 -		8
Wear ring:	Brass		P2	
Impeller:	Cast iron	3		6
Impeller:	EN-GJL-200	2-		4
Impeller:	ASTM class 30			
Internal pump house coating:	CED	1_		2
Material code:				
Code for rubber:	A	0_5		0
Shaft:	⊏ Stainless steel			
			1011	
Shaft:	EN 1.4301	125		2
Shaft:	AISI 304			J
Installation:	-20 50 °C			-
Range of ambient temperature:				
Maximum operating pressure:	16 bar			5
Pipe connection standard:	EN 1092-2	75		2
Type of inlet connection:	DIN	^		J
Type of outlet connection:	DIN DN 482	[]		
Size of inlet connection:	DN 100	88	40	
Size of outlet connection:	DN 80	! \		
Pressure rating for connection:	PN 16	4 ¹⁹⁰	740 190 190 190 190 190 190 190 190 190 19	
Coupling type:	Flexible w/spacer			
Base frame design:	EN/ISO			
Code for base frame:	5			
Grouting (Yes/No):	N	&		
Connect code:	F			
Liquid:		PE		
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C	-31/P 00		
Density:	998.2 kg/m³	317 Q 317 Q		
Electrical data:				
Motor type:	112ME			
IE Efficiency class:	IE5	- <u>3577</u>		
Rated power - P2:	4 kW		A. (1000au A V) Globau V Globau A Globau B	
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-500 V			
Rated current:	7.70-6.00 A			

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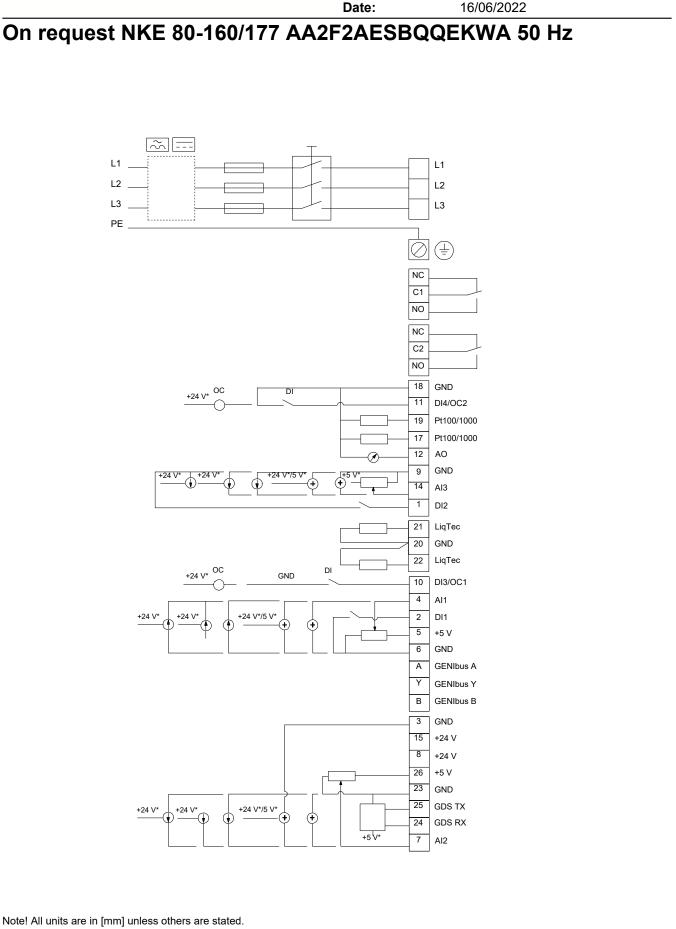
16/06/2022

		Date:
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:	157 kg	
Gross weight:	177 kg	
Shipping volume:	0.44 m³	
Country of origin:	HU	
Custom tariff no.:	84137059	





16/06/2022





16/06/2022

Order Data:

Product name:NKE 80-160/177Amount:1Product No:On request

Total: Price on request