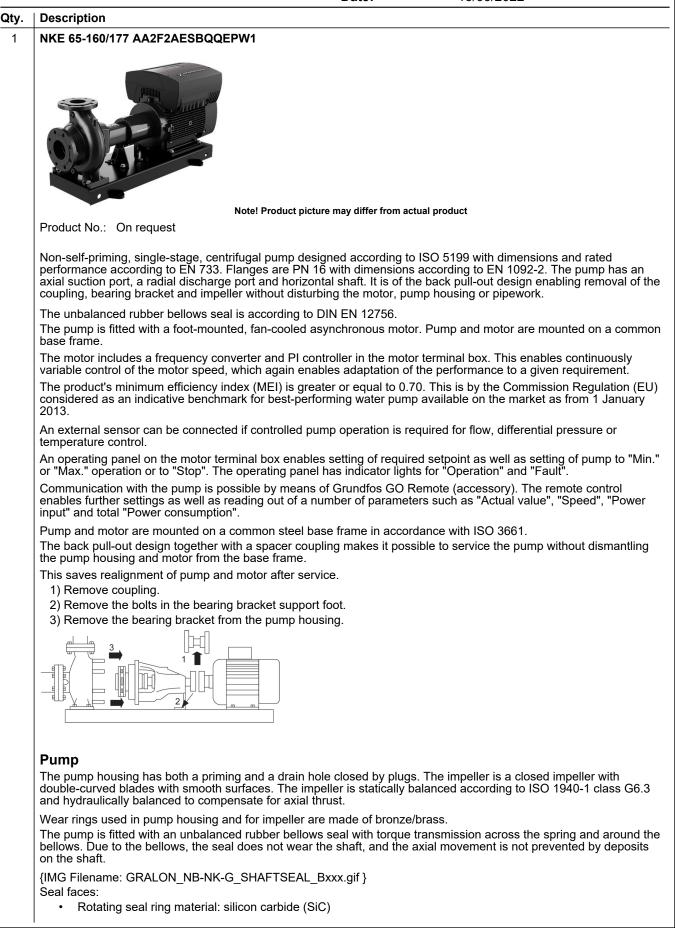


Date:

16/06/2022





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```
Qty. | Description
```

• 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

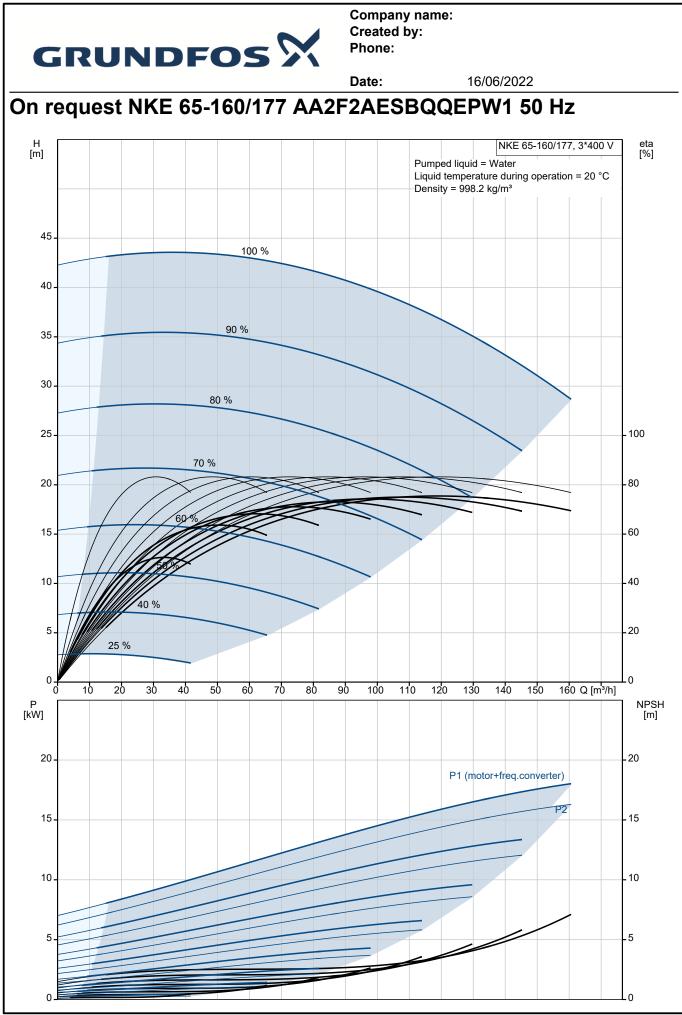
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

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: 118.6 m³/h Y 36.49 m 177 mm 160	2940 rpm



	Description		
	Code for shaft seal:	BQQE	
	Mechanical seal type:	Single	
	Curve tolerance:	ISO9906:2012 3B	
	Bearing design:	Standard	
	0 0		
	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):	Ν	
	F 1 ()		
	Electrical data:		
	Motor type:	160LB	
	IE Efficiency class:	IE3	
	Rated power - P2:	18.5 kW	
	Mains frequency:	50 Hz	
	Rated voltage:	3 x 380-480 V	
	Rated current:	37.0-31.0 A	
	Cos phi - power factor:	0.91-0.88	
	Rated speed:	480-3540 rpm	
	Efficiency:	IE3 92,4% 92.4 %	
	Motor efficiency at full load: Number of poles:		
		2	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor No:	85901282	
	Others:		
	Minimum efficiency index, MEI ≥:	0.70	
	Net weight:	269 kg	
	Gross weight:	284 kg	
	Shipping volume:	0.549 m ³	
	Country of origin:	HU	
	Custom tariff no.:	84137059	
L		5-10/003	



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Company name: Created by: Phone:

Description	Value	H [m]	NKE 65-160/177, 3*400 V
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C
Product name:	NKE 65-160/177 AA2F2AESBQQEPW1	45 -	Density = 998.2 kg/m ³
Product No:	On request		
EAN number:	On request	40 -	
Technical:		35 -	90 %
Pump speed on which pump data are based:	2940 rpm	30	
Rated flow:	118.6 m³/h		80 %
Pump with motor (Yes/No):	Y	25 -	10
Rated head:	36.49 m	20 -	70 %
Actual impeller diameter:	177 mm	20-	-00
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	0	
Bearing design:	Standard	0 2	20 40 60 80 100 120 140 Q [m³/h]
Materials:		P [kW]	N N
Pump housing:	Cast iron	20 -	_ 20
Pump housing:	EN-GJL-250		P1 (motor+freq.converter)
Pump housing:	ASTM class 35	15 -	P2 15
Wear ring:	Brass	10	
Impeller:	Cast iron	10 -	10
Impeller:	EN-GJL-200		
Impeller:	ASTM class 30	5	5
Internal pump house coating:	CED		
Material code:	A	0	0
Code for rubber:	E	4	
Shaft:	Stainless steel		
Shaft:	EN 1.4301		1177
Shaft:	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	60	4
Type of outlet connection:	DIN	/	
Size of inlet connection:	DN 80		840
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		
Liquid:	-		
Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C	P.J.C.	
Density:	998.2 kg/m ³	14-1-1	
Electrical data:	· · · · · · · · · · · · · · · ·		
Motor type:	160LB		
IE Efficiency class:	IE3		
Rated power - P2:	18.5 kW		B: RS-4868 Y: Streen A: RS-485A
Mains frequency:	50 Hz		<u></u>
Rated voltage:	3 x 380-480 V		CAD (fame) S-100 (fame) S-100 (fame) S-400 (fame)
Rated voltage:			3: GND (frame) 0(0)00 2: Start/stop
Nateu current.	37.0-31.0 A	L	J

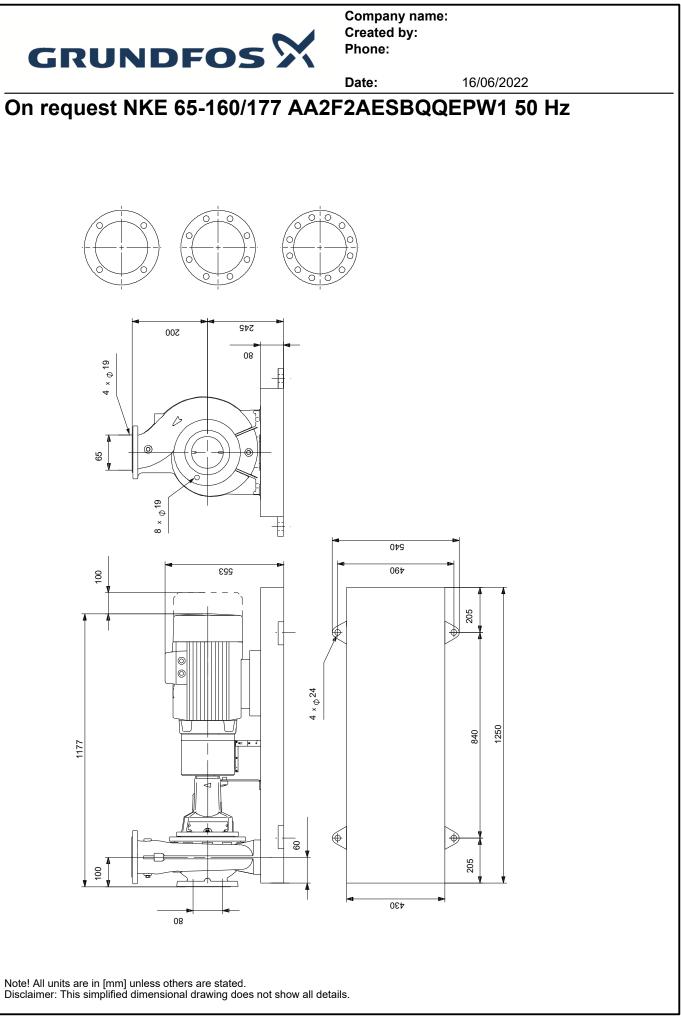
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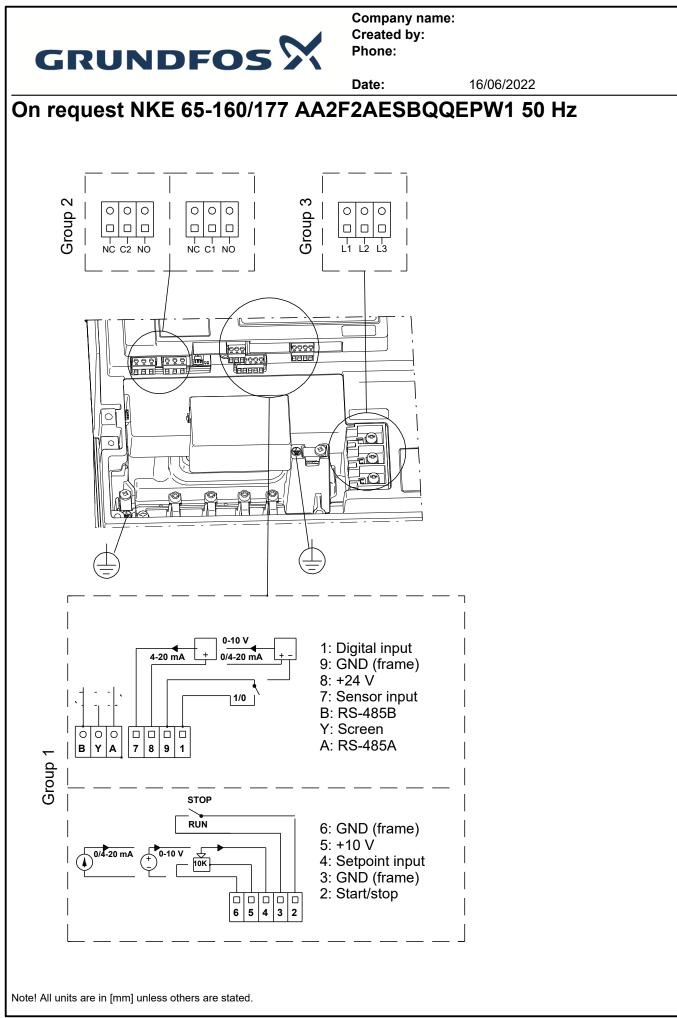
NPSH [m]



16/06/2022

		Date:
Description	Value	
Cos phi - power factor:	0.91-0.88	-
Rated speed:	480-3540 rpm	
Efficiency:	IE3 92,4%	
Motor efficiency at full load:	92.4 %	
Number of poles:	2	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	YES	
Motor No:	85901282	
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:	269 kg	
Gross weight:	284 kg	
Shipping volume:	0.549 m³	
Country of origin:	HU	
Custom tariff no.:	84137059	







16/06/2022

Order Data:

Product name:NKE 65-160/177Amount:1Product No:On request

Total: Price on request