

30/12/2022

Qty. | Description

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NB 100-160/167 BASF2AESBQQEQW1



Note! Product picture may differ from actual product

Product No.: 98976326

Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

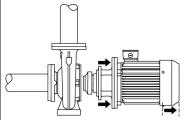
Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

The unbalanced rubber bellows seal is according to DIN EN 12756.

The pump is close-coupled to a fan-cooled asynchronous motor.

The product's minimum 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.

The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes.



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.

Pump

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. 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.

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 pump housing has feet.

The pump is to be secured to the foundation with bolts through the pump housing feet and motor feet. The pump is delivered with steel support blocks. The support blocks provide horizontal alignment of the pump and ensure clearance between the motor stool/motor flange and the foundation.

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.



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	Description			
-	The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.			
	The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.			
(Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.			
The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.				
	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:			
ł	Frequency converter:	NONE		
ł	Pressure sensor:	Ν		
I	Liquid:			
	Pumped liguid:	Water		
	Liquid temperature range:	-25 120 °C		
	Selected liquid temperature:	20 °C		
1	Density:	998.2 kg/m³		
	Tochnical			

Liquid: Pumped I Liquid ten Selected Density: Technical: Pump speed on which pump data are based: 2950 rpm Rated flow: 227.9 m³/h Rated head: 26.18 m Actual impeller diameter: 167 mm Nominal impeller diameter: 160

Shaft seal arrangement: Code for shaft seal:	Single BQQE
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:	
t max amb:	60 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 125
Size of outlet connection:	DN 100

PN 16

Pressure rating for connection:



Qty. | Description

Bearing lubrication:

Danish VVS No.:

Pump housing with feet:

Support block (Yes/No):

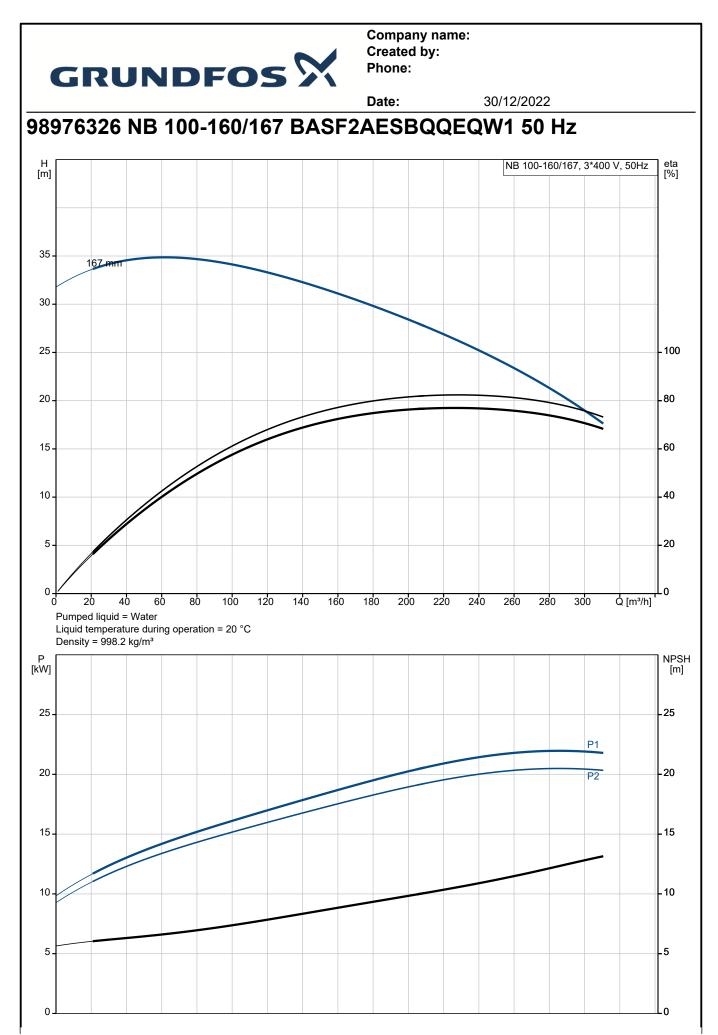
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Company name: Created by: Phone:

Grease Yes Y

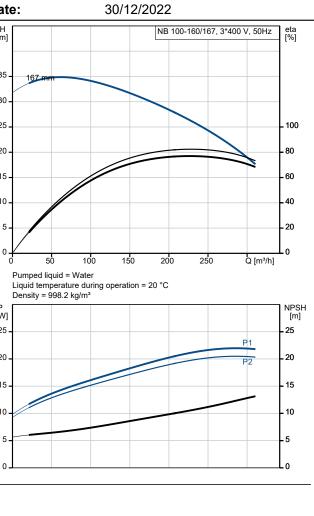
Electrical data:	
Motor type:	180MB
IE Efficiency class:	IE3
Rated power - P2:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	39.5/22.8 A
Starting current:	830 %
Cos phi - power factor:	0.90-0.90
Rated speed:	2950 rpm
Efficiency:	IE3 92,7%
Motor efficiency at full load:	92.7 %
Motor efficiency at 3/4 load:	93.7 %
Motor efficiency at 1/2 load:	94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor No:	87470023
Bearing insulation type N-end:	STEEL BEARING
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	214 kg
Gross weight:	239 kg
Shipping volume:	0.707 m³

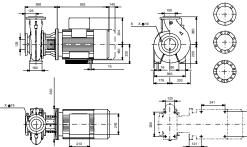
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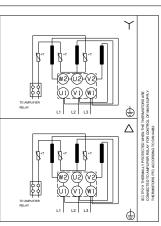




		Date:
Description	Value	H [m]
General information:	14140	
Product name:	NB 100-160/167 BASF2AESBQQEQW1	35 - 167 mm
Product No:	98976326	30
EAN number:	5712604560280	
Technical:		25 -
Pump speed on which pump data are based:	2950 rpm	20
Rated flow:	227.9 m³/h	
Rated head:	26.18 m	15-
Actual impeller diameter:	167 mm	10
Nominal impeller diameter:	160	
Shaft seal arrangement:	Single	5-
Shaft diameter:	24 mm	
Code for shaft seal:	BQQE	0 50 100
Curve tolerance:	ISO9906:2012 3B	Pumped liquid = Water
Pump version:	AS	Liquid temperature during Density = 998.2 kg/m ³
Bearing design:	Standard	P
Materials:		[kW]
Pump housing:	Cast iron	25 -
Pump housing:	EN-GJL-250	20
Pump housing:	ASTM class 35	20
Wear ring:	Brass	15
Impeller:	Cast iron	
Impeller:	EN-GJL-200	10
Impeller:	ASTM class 30	
Internal pump house coating:	CED	5
Material code:	А	
Code for rubber:	E	0
Shaft:	Stainless steel	-
Shaft:	EN 1.4301	
Shaft:	AISI 304	368 542
Installation:		
t max amb:	60 °C	
Maximum operating pressure:	16 bar	
Pipe connection standard:	EN 1092-2	
Size of inlet connection:	DN 125	
Size of outlet connection:	DN 100	88
Pressure rating for connection:	PN 16	┈── ◎ ×●¹? 、ਫ਼ᢪਙ▖ ੵ ਸ਼ੑੑੑੑੑੑੑੑੑੑੑੑਸ਼
Bearing lubrication:	Grease	
Pump housing with feet:	Yes	
Support block (Yes/No):	Υ	[⊥] 1
Connect code:	F2	
Liquid:		
Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m³	
Electrical data:		
Motor type:	180MB	
IE Efficiency class:	IE3	
Rated power - P2:	22 kW	RELAY L1 L2 L3
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-415D/660-690Y V	
Rated current:	39.5/22.8 A	\$\vee\$_{*T} \$\vee\$
Starting current:	830 %	
Cos phi - power factor:	0.90-0.90	
Rated speed:	2950 rpm	
Efficiency:	IE3 92,7%	L1 L2 L3
-	-	







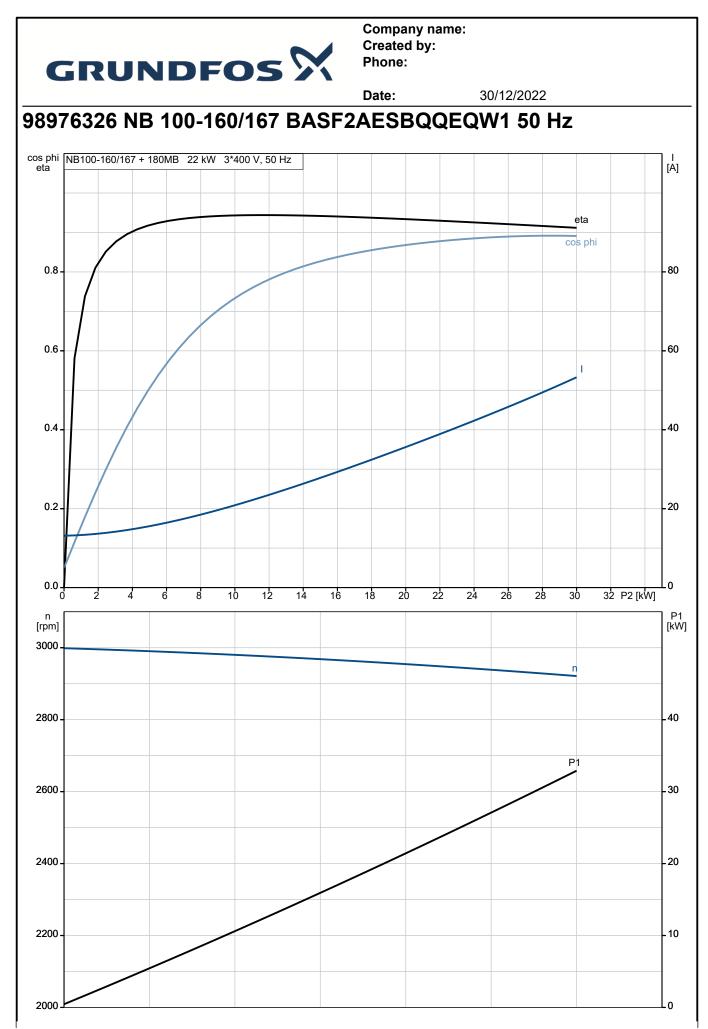
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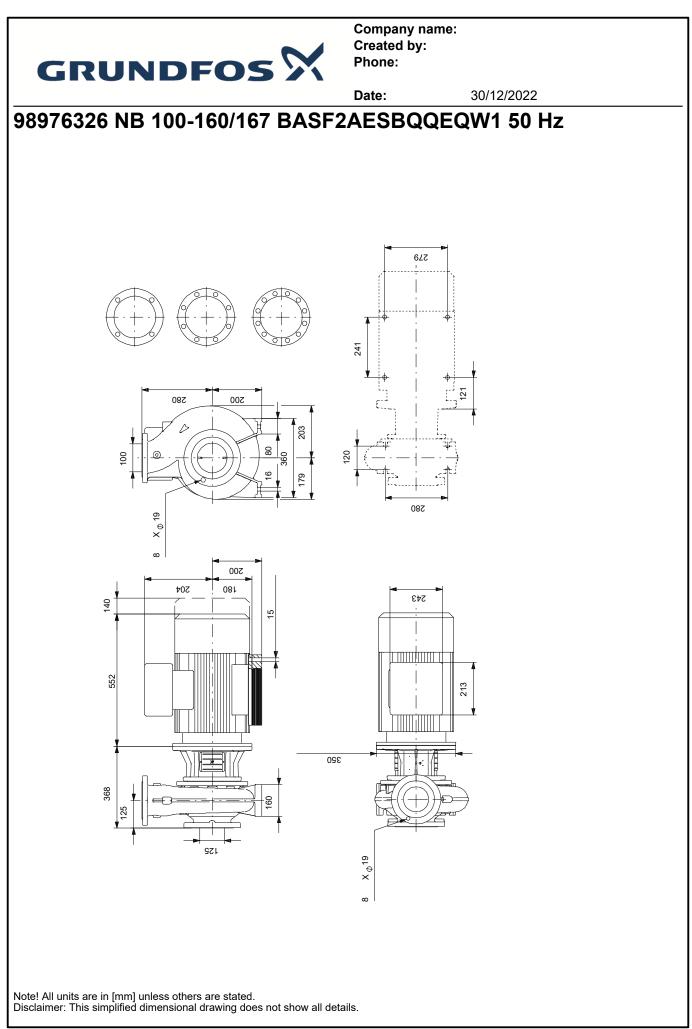


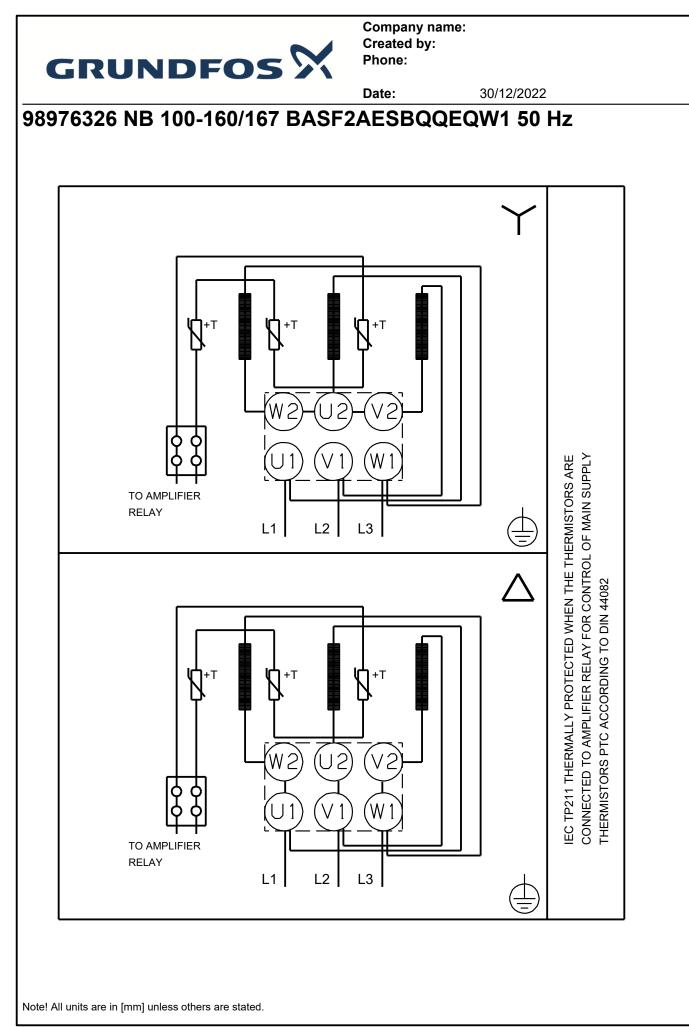
Date:

30/12/2022

Description	Value
Motor efficiency at full load:	92.7 %
Motor efficiency at 3/4 load:	93.7 %
Motor efficiency at 1/2 load:	94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	87470023
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	214 kg
Gross weight:	239 kg
Shipping volume:	0.707 m ³
Danish VVS No.:	386065164









Your pos.

Position

Company name: Created by: Phone:

30/12/2022 Date: **Order Data: Product No Product name** Total Amount NB 100-160/167 1 98976326 Price on request

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