

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.



Company name: Created by: Phone:

				Date	:	30/	12/2022
.	Description						
	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-b high-quality dip-painting process a thin, well-controlled layer on th	where an elec	m ct	ade in a catho rical field arou	dic electro- nd the prod	depositior ucts ensu	n (CED) process. CED is a ires deposition of paint particles a
	Technical data						
	Controls:						
	Frequency converter:	NONE					
	Pressure sensor:	Ν					
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-25 120 °C	С				
	Selected liquid temperature:	20 °C					
	Density:	998.2 kg/m ³					
	Technical:						
	Pump speed on which pump dat			2955 rpm			
I	Rated flow:	244.2 m³/h					
	Rated head:	29.59 m					
	Actual impeller diameter: Nominal impeller diameter:	176 mm 160					
	Shaft seal arrangement:	Single					
	Code for shaft seal:	BQQE					
	Curve tolerance:	ISO9906:20	12	2 3B			
	Bearing design:	Standard					
	Materials:						
	Pump housing:	Cast iron					
		EN-GJL-250					
l		ASTM class	3	5			
	Wear ring:	Brass					
	Impeller:	Cast iron EN-GJL-200	`				
		ASTM class		0			
	Internal pump house coating:	CED		0			
	Shaft:	Stainless ste	ee	I			
		EN 1.4301					
		AISI 304					
	Installation:						
	t max amb:	55 °C					
	Maximum operating pressure:	16 bar					
	Pipe connection standard:	EN 1092-2					
	Size of inlet connection: Size of outlet connection:	DN 125 DN 100					
	Pressure rating for connection:	PN 16					
I	Bearing lubrication:	Grease					

Bearing lubrication:

Grease

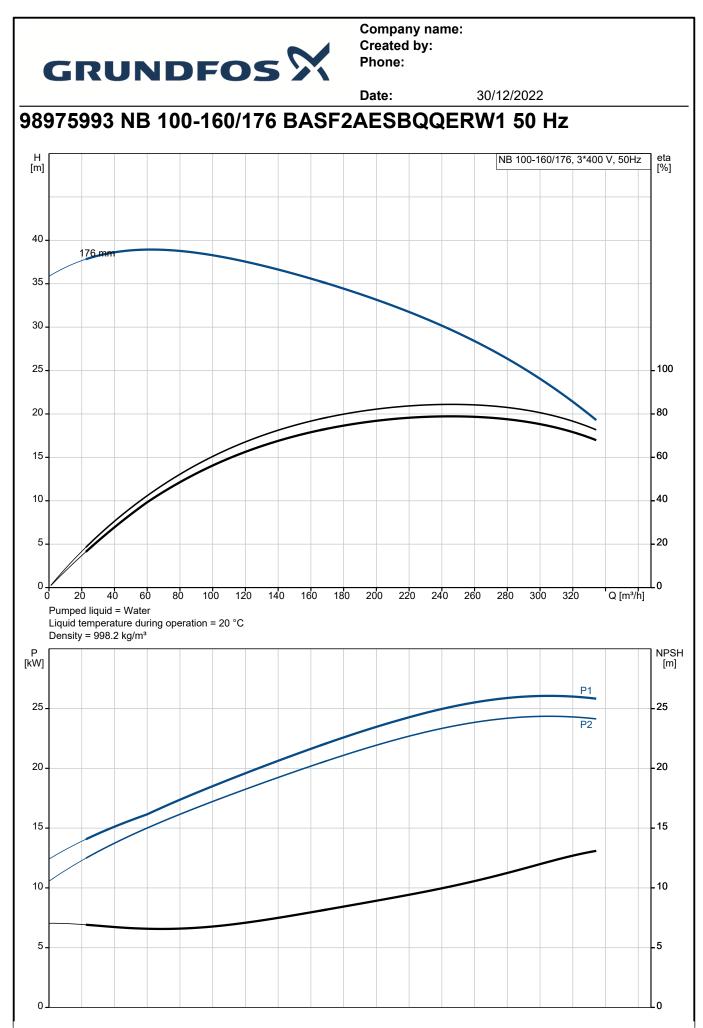


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Date:

30/12/2022

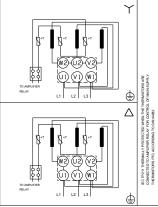
		Da	ite:	30/12/2022
Qty.	Description			
1	Pump housing with feet:	Yes		
•	Support block (Yes/No):	Y		
	Electrical data:			
	Motor type:	SIEMENS		
	IE Efficiency class:	IE3		
	Rated power - P2:	30 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 380-420D/660-725Y	/	
	Rated current:	53/31 A		
	Starting current:	700-700 %		
	Cos phi - power factor:	0.87		
	Rated speed:	2955 rpm		
	Efficiency:	IE3 93,3%		
	Motor efficiency at full load:	93.3-93.3 %		
	Motor efficiency at 3/4 load:	93.5-93.5 %		
	Motor efficiency at 1/2 load:	92.9-92.9 %		
	Number of poles:	2		
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor No:	99032145		
	Bearing insulation type N-end:	STEEL BEARING		
	Others:			
	Minimum efficiency index, MEI ≥:			
	Net weight:	322 kg		
	Gross weight:	347 kg		
	Shipping volume:	0.707 m ³		
	Danish VVS No.:	386065167		





		Date:	30/12/2022
Description	Value	H [m]	NB
General information:			
Product name:	NB 100-160/176 BASF2AESBQQERW1	40 - 176 mm	
Product No:	98975993	35 -	
EAN number:	5712604553404	30 -	
echnical:			
Pump speed on which pump data re based:	2955 rpm	25 -	
Rated flow:	244.2 m³/h	20 -	
ated head:	29.59 m	15 -	
ctual impeller diameter:	176 mm	10 -	
lominal impeller diameter:	160		
haft seal arrangement:	Single	5-	
haft diameter:	24 mm	0	
code for shaft seal:	BQQE	0 50	100 150 200
Curve tolerance:	ISO9906:2012 3B	Pumped liqui	
ump version:	AS	Liquid temper Density = 998	ature during operation = 20 °C
earing design:	Standard	P	7.2 Ng/111
laterials:		[kW]	
ump housing:	Cast iron	25 -	
ump housing:	EN-GJL-250		
ump housing:	ASTM class 35	20 -	
Vear ring:	Brass	15 -	
npeller:	Cast iron	- "1	
npeller:	EN-GJL-200	10	
npeller:	ASTM class 30		
ternal pump house coating:	CED	5 -	
laterial code:	A	—	
ode for rubber:	E	0	
haft:	Stainless steel		
haft:	EN 1.4301	368	611 - 140
haft:	AISI 304		
stallation:			ġŀġŢġ Ţţ∦ [≞]
max amb:	55 °C	22	
laximum operating pressure:	16 bar		
ipe connection standard:	EN 1092-2	160	- 19
ize of inlet connection:	DN 125		8
ize of outlet connection:	DN 100		1
ressure rating for connection:	PN 16		
earing lubrication:	Grease		
ump housing with feet:	Yes		
upport block (Yes/No):	Y		
onnect code:	F2		
iquid:			
umped liquid:	Water		
iquid temperature range:	-25 120 °C		
elected liquid temperature:	20 °C		Y
ensity:	998.2 kg/m ³		
lectrical data:		₿⁺⁻ ■ ₿	
Notor type:	SIEMENS		<u>aqa</u>
E Efficiency class:	IE3		
ated power - P2:	30 kW	TO AMPLIFIER RELAY	
lains frequency:	50 Hz		× 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ated voltage:	3 x 380-420D/660-725Y V		
ated voltage. Rated current:	53/31 A	N ₁₊₇	+T THEAT
tarting current:	700-700 %		
cos phi - power factor:	0.87	\	
		TO AMER FIRE	
Rated speed:	2955 rpm IE3 93,3%	RELAY L1	
fficiency:	123 33,370	L	9

NB 100-160/176, 3*400 V, 50Hz eta [%] 100 . 80 - 60 40 . 20 - 0 200 250 300 Q [m³/h] = 20 °C NPSH [m] P1 25 P2 20 15 . 10 - 5 . 0 205



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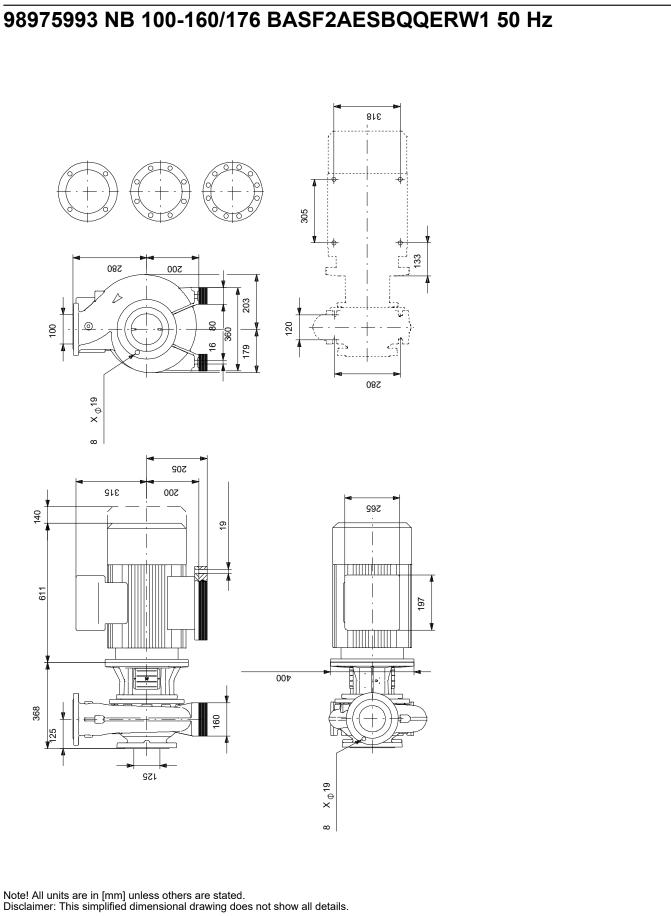
Description	Value
Motor efficiency at full load:	93.3-93.3 %
Motor efficiency at 3/4 load:	93.5-93.5 %
Motor efficiency at 1/2 load:	92.9-92.9 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	99032145
Mount. design. acc. IEC 34-7:	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:	322 kg
Gross weight:	347 kg
Shipping volume:	0.707 m³
Danish VVS No.:	386065167

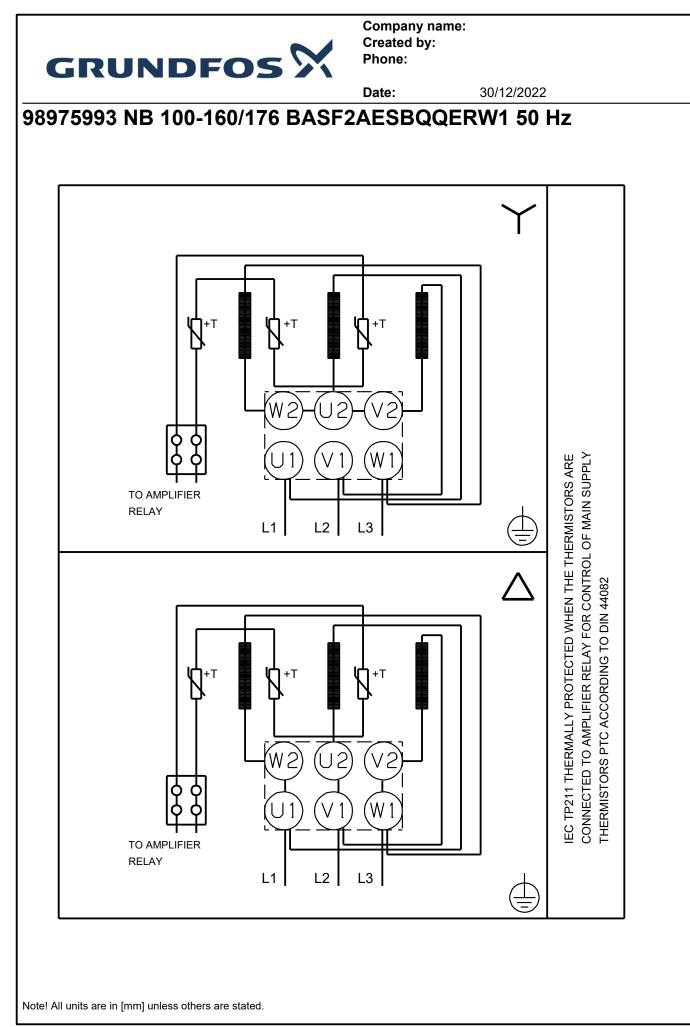
30/12/2022



Date:

30/12/2022







Your pos.

Position

Company name: Created by: Phone:

30/12/2022 Date: **Order Data: Product name** Amount **Product No** Total NB 100-160/176 1 98975993 Price on request