



15/08/2022

Qty. | Description

1 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 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

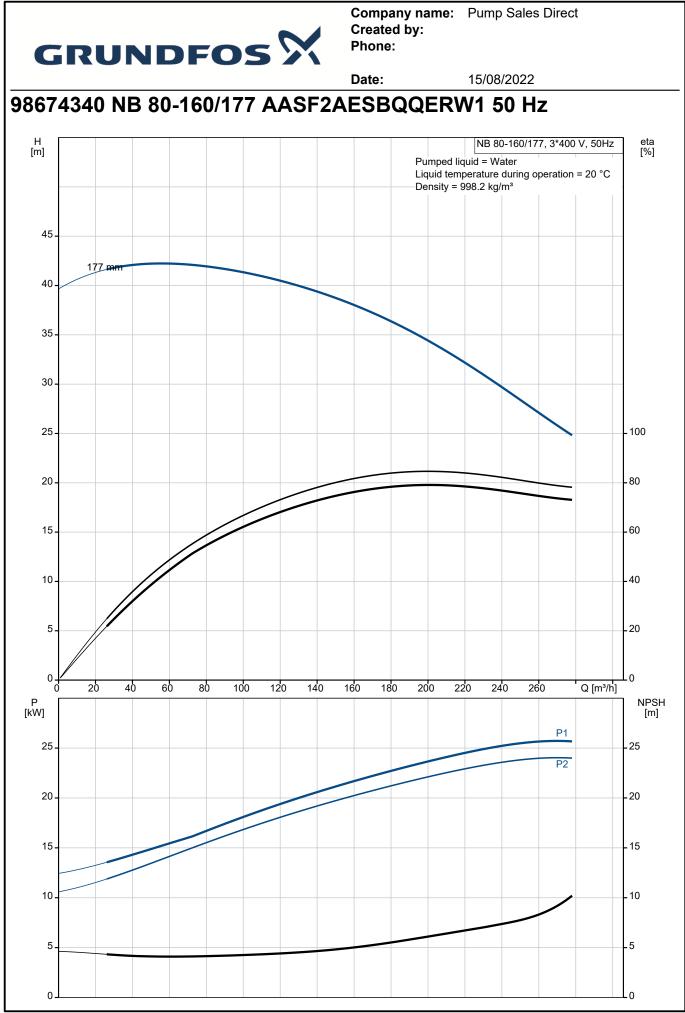
Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

Technical data

Controls: Frequency converter: Pressure sensor:	NONE 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: Rated head: Actual impeller diameter: Nominal impeller diameter: Shaft seal arrangement: Code for shaft seal: Curve tolerance: Bearing design:	are based: 2955 rpm 213 m³/h 33.54 m 177 mm 160 Single BQQE ISO9906:2012 3B Standard
Materials: Pump housing:	Cast iron EN-GJL-250
Wear ring: Impeller:	ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30
Internal pump house coating: Shaft:	CED Stainless steel EN 1.4301 AISI 304
Installation: t max amb: Maximum operating pressure: Pipe connection standard:	55 °C 16 bar EN 1092-2



		Da	te:	15/08/2022
/. D	escription			
s	ize of inlet connection:	DN 100		
S	ize of outlet connection:	DN 80		
	ressure rating for connection:	PN 16		
	searing lubrication:	Grease		
	Pump housing with feet:	No		
	Support block (Yes/No):	Y		
5	Support block (Yes/No):	Y		
E	lectrical data:			
N	lotor type:	SIEMENS		
	E Efficiency class:	IE3		
	ated power - P2:	30 kW		
	lains frequency:	50 Hz		
	Rated voltage:	3 x 380-420D/660-725Y \	/	
R	lated current:	53/31 A		
S	starting current:	700-700 %		
c	cos phi - power factor:	0.87		
	Rated speed:	2955 rpm		
	ifficiency:	IE3 93,3%		
	Notor efficiency at full load:	93.3-93.3 %		
	lotor efficiency at 3/4 load:	93.5-93.5 %		
	lotor efficiency at 1/2 load:	92.9-92.9 %		
	lumber of poles:	2		
E	nclosure class (IEC 34-5):	IP55		
	nsulation class (IEC 85):	F		
	lotor No:	99032145		
	earing insulation type N-end:	STEEL BEARING		
-				
	Others:			
	1inimum efficiency index, MEI ≥			
	let weight:	303 kg		
G	Bross weight:	328 kg		
	hipping volume:	0.707 m ³		
	anish VVS No.:	386064169		
	Country of origin:	HU		
	Custom tariff no.:	84137051		
	Justom tariff no.:	84137051		





_		브	NB 80-160/177, 3*400 V, 5	0Hz eta
Description	Value	[m]	Pumped liquid = Water	[%]
General information:	ND 00 460/477		Liquid temperature during operation = 20	°C
Product name:	NB 80-160/177 AASF2AESBQQERW1	45 -	Density = 998.2 kg/m ³	
Product No:	98674340	40 -	m	
EAN number:	5711499388764	+0 -		
Technical:		35 -		
Pump speed on which pump data are based:	2955 rpm	30 -		
Rated flow:	213 m³/h			
Rated head:	33.54 m	25 -		_ 100
Actual impeller diameter:	177 mm			
Nominal impeller diameter:	160	20 -		- 80
Shaft seal arrangement:	Single	15 -		- 60
Shaft diameter:	24 mm	10		
Code for shaft seal:	BQQE	10-		- 40
Curve tolerance:	ISO9906:2012 3B	— //		
Pump version:	AS	5-		- 20
Bearing design:	Standard			
Materials:			50 100 150 200 250 Q [r	0 m³/h]
Pump housing:	Cast iron	P		NPSH
Pump housing:	EN-GJL-250	[kW] 25 -	P1	[m]
Pump housing:	ASTM class 35		P2	
Wear ring:	Brass	20 -		- 20
Impeller:	Cast iron			
Impeller:	EN-GJL-200	15-		1 5
Impeller:	ASTM class 30	10		10
Internal pump house coating:	CED			
Material code:	A	5 -		- 5
Code for rubber:	E			
Shaft:	⊏ Stainless steel	0		0
Shaft:	EN 1.4301			
Shaft:	AISI 304	125		
Installation:	AISI 304			
t max amb:	55 °C			
	16 bar			1 AM
Maximum operating pressure:	EN 1092-2	Ψ	19 139 182	
Pipe connection standard:		8 X • 19	¥	5
Size of inlet connection: Size of outlet connection:	DN 100 DN 80		▓ <mark>╔╡<mark>╢</mark>╞╤══┱<u>┲</u>╶╢┰╸╶╷╝╵┝╌╝╜┸╪┈┈</mark>	
Pressure rating for connection:	PN 16			
		¥		<u></u>
Bearing lubrication: Pump housing with feet:	Grease			
	No Y			
Support block (Yes/No):				
Connect code:	F2			
Liquid:	\A/atau			
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C		Υ	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	\$	·т \$\$+т	
Electrical data:				
Motor type:	SIEMENS			
IE Efficiency class:	IE3			
Rated power - P2:	30 kW	L1		
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V			
Rated current:	53/31 A	₿⁺* ₿		
Starting current:	700-700 %			
Cos phi - power factor:	0.87			
Rated speed:	2955 rpm	TO AMPLIFIER RELAY		
Efficiency:	IE3 93,3%	u		

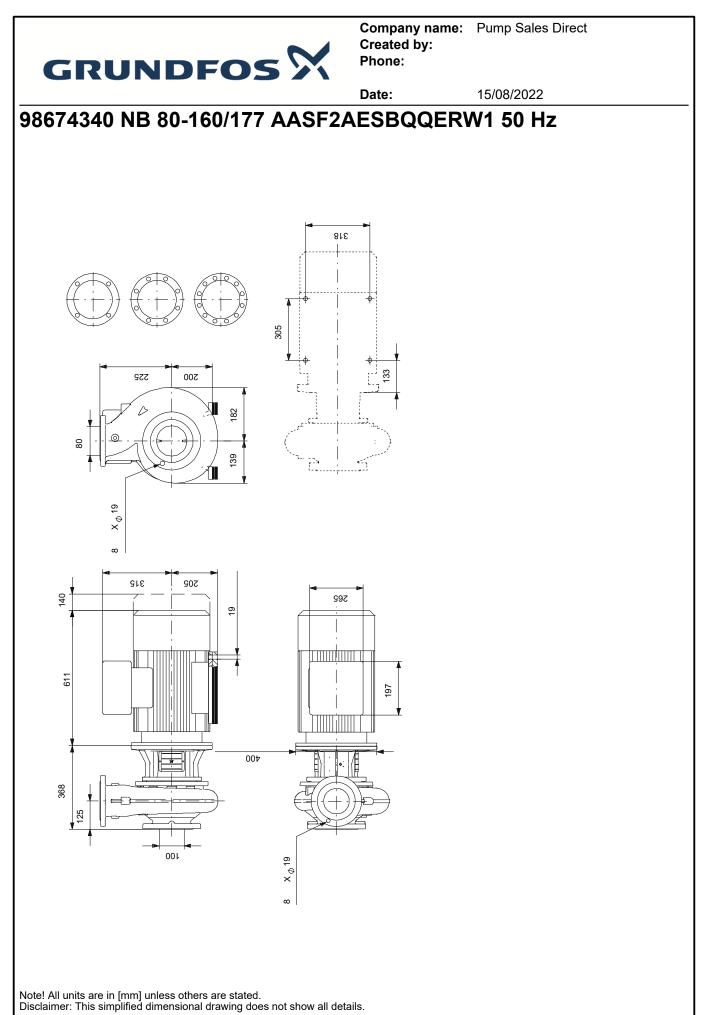
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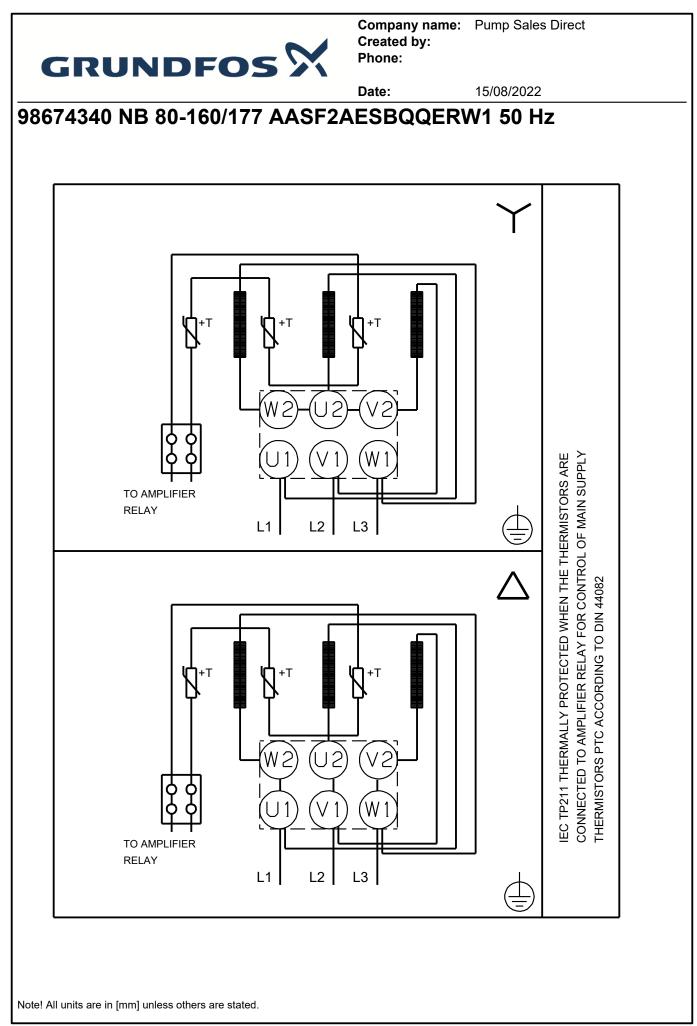


Date:

15/08/2022

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:	303 kg
Gross weight:	328 kg
Shipping volume:	0.707 m³
Danish VVS No.:	386064169
Country of origin:	HU
Custom tariff no .:	84137051







Date: 15/08/2022 Order Data: 15/08/2022						
Position	Your pos.	Product name	Amount	Product No	Total	
		NB 80-160/177	1	98674340	Price or	
					reques	