



		Date: 15/08/2022						
Qty.	Description							
1	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.							
	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 particle a thin, well-controlled layer on the surface.							
	Technical data							
	Controls:							
	Frequency converter:	NONE						
	Pressure sensor:	N						
	Liquid:							
	Pumped liquid:	Water						
	Liquid temperature range:	-25 120 °C						
	Selected liquid temperature:	20 °C						
	Density:	998.2 kg/m³						
	Technical:							
	Pump speed on which pump dat	a are based: 1460 rpm						
	Rated flow:	101.7 m³/h						
	Rated head:	8.009 m						
	Actual impeller diameter:	175 mm						
	Nominal impeller diameter:	160						
	Shaft seal arrangement:	Single						
	Code for shaft seal:	BQQE						
	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						

Stainless steel EN 1.4301 AISI 304

55 °C

16 bar

DN 100

EN 1092-2

Maximum operating pressure:

Pipe connection standard:

Size of inlet connection:

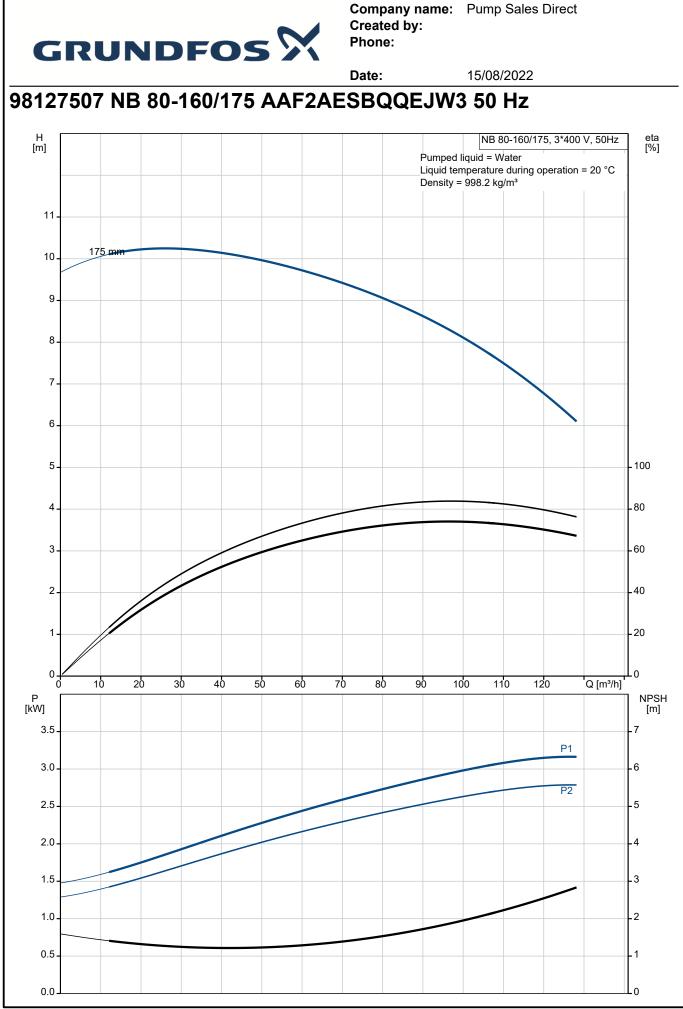
Shaft:

Installation:

t max amb:



			Date:	15/08/2022
ty.	Description			
1	Size of outlet connection:	DN 80		
	Pressure rating for connection:	PN 16		
	Bearing lubrication:	Grease		
	Pump housing with feet:	Yes		
	Support block (Yes/No):	Ν		
	Electrical data:			
	Motor type:	SIEMENS		
	IE Efficiency class:	IE3		
	Rated power - P2:	3 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 220-240D/380-420	NY V	
	Rated current:	10.3/5.9 A		
	Starting current:	730-730 %		
	Cos phi - power factor:	0.83		
	Rated speed:	1460 rpm		
	Efficiency:	IE3 87,7%		
	Motor efficiency at full load:	87.7-87.7 %		
	Motor efficiency at 3/4 load:	88.4-88.4 %		
	Motor efficiency at 1/2 load:	88.2-88.2 %		
	Number of poles:	4		
	Enclosure class (IEC 34-5):	IP55		
	Insulation class (IEC 85):	F		
	Motor No:	83V05210		
	Bearing insulation type N-end:	Ν		
	Others:			
	Minimum efficiency index, MEI ≥:			
	Net weight:	75 kg		
	Gross weight:	92 kg		
	Shipping volume:	0.315 m ³		
	Danish VVS No.:	386064168		
	Country of origin:	HU		
	Custom tariff no.:	84137051		



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		н	
Description	Value	[m]	NB 80-160/175, 3*400 V, 50Hz [%]
General information:			Liquid temperature during operation = 20 °C
Product name:	NB 80-160/175 AAF2AESBQQEJW3	11 -	Density = 998.2 kg/m ³
Product No:	98127507	10 - 17.5	
EAN number:	5711490013047	9	
Technical:		_	
Pump speed on which pump data a based:	are 1460 rpm	8 -	
Rated flow:	101.7 m³/h		
Rated head:	8.009 m	6 -	
Actual impeller diameter:	175 mm	5	- 100
Nominal impeller diameter:	160		
Shaft seal arrangement:	Single	4 -	- 80
Shaft diameter:	24 mm	3	- 60
Code for shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B2	2-	40
Pump version:	A	1	20
Bearing design:	Standard		
Materials:	-		0 40 60 80 100 Q [m³/h]
Pump housing:	Cast iron	P [kW]	NPSI [m]
Pump housing:	EN-GJL-250	[[[]]]	[m]
Pump housing:	ASTM class 35	3.0 -	6
Wear ring:	Brass	2.5 -	P2 5
Impeller:	Cast iron		
Impeller:	EN-GJL-200	2.0	-4
Impeller:	ASTM class 30	1.5	3
Internal pump house coating:	CED	1.0 -	-2
Material code:	A	0.5	1
Code for rubber:	E	0.0	
Shaft:	Stainless steel	0.0 -	
Shaft:	EN 1.4301		
Shaft:	AISI 304	299	
Installation:	A131 304		
t max amb:	55 °C		
Maximum operating pressure:	16 bar	\$}	
Pipe connection standard:	EN 1092-2		
Size of inlet connection:	DN 100	125	
Size of outlet connection:	DN 80	- 1	
Pressure rating for connection:	PN 16		-1 ⁹⁵ -
Bearing lubrication:	Grease		
Pump housing with feet:	Yes		
Support block (Yes/No):	N		
Connect code:	F2	Ψ	<u>+ 112</u> →
Liquid:	٢Z		
Liquia: Pumped liquid:	Water		
Liquid temperature range:	-25 120 °C	_	Υ
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³	₿ ^{+⊤} ₿ ^{+⊤}	r - -
Electrical data:			
Motor type:	SIEMENS		
IE Efficiency class:	IE3		
Rated power - P2:	3 kW	L1	
Mains frequency:	50 Hz		
Rated voltage:	3 x 220-240D/380-420Y V		
Rated current:	10.3/5.9 A	₿ ^{+⊤} ↓ ₿ ^{+⊤}	
Starting current:	730-730 %		
Cos phi - power factor:	0.83		
Rated speed:	1460 rpm	TO AMPLIFIER RELAY	
Efficiency:	IE3 87,7%		

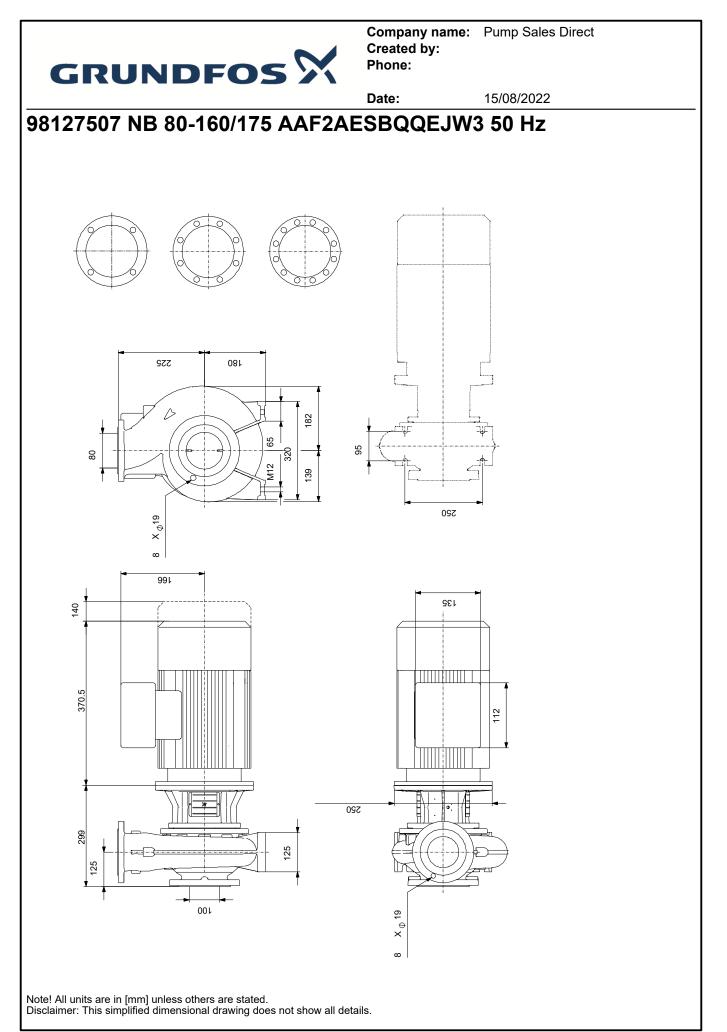
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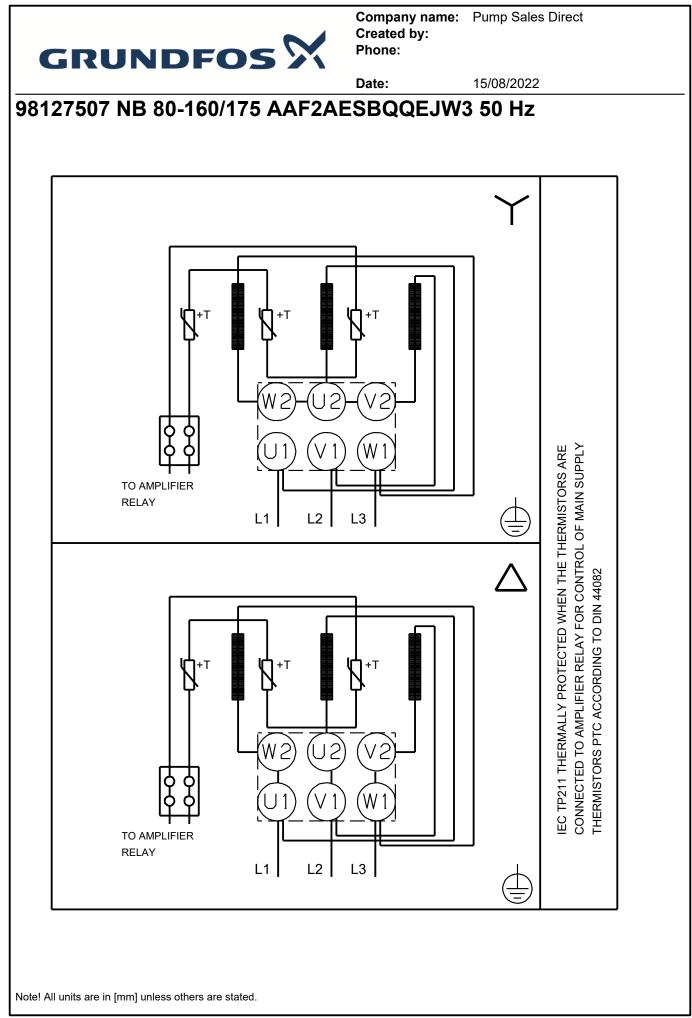


Date:

15/08/2022

Description	Value
Motor efficiency at full load:	87.7-87.7 %
Motor efficiency at 3/4 load:	88.4-88.4 %
Motor efficiency at 1/2 load:	88.2-88.2 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	83V05210
Mount. design. acc. IEC 34-7:	IM V1
Bearing insulation type N-end:	Ν
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	75 kg
Gross weight:	92 kg
Shipping volume:	0.315 m³
Danish VVS No.:	386064168
Country of origin:	HU
Custom tariff no.:	84137051







Date: 15/08/2022 Order Data:						
Position	Your pos.	Product name		Product No	Total	
		NB 80-160/175	1	98127507	Price or	
					reques	