

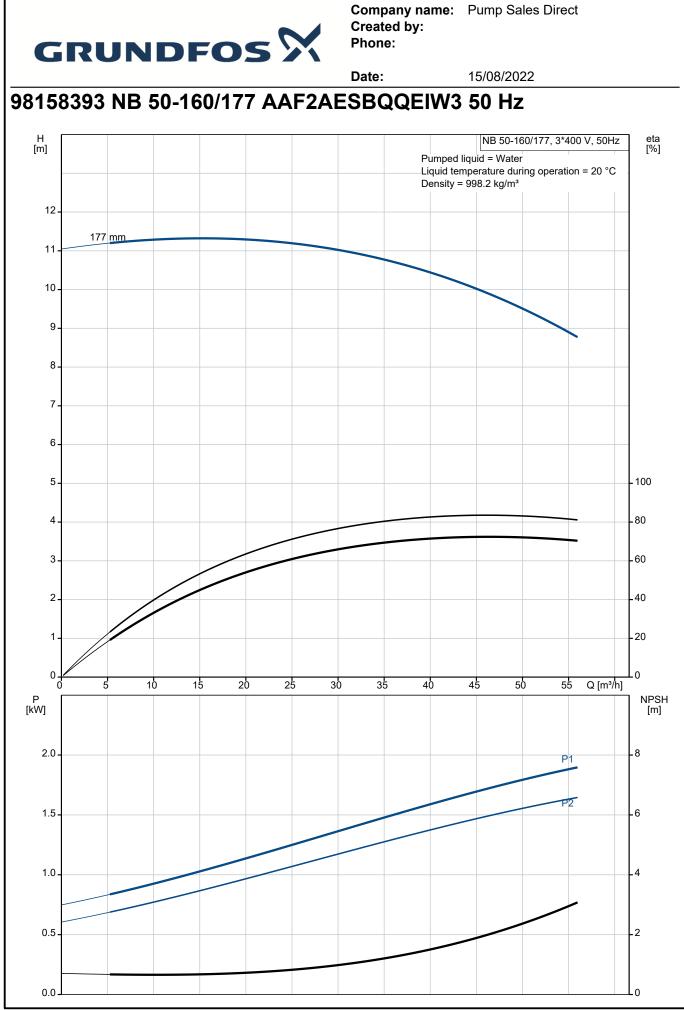


			Date:	15/08/2022			
ty.	Description						
	The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.						
	The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.						
	The motor does not incorporate can be manually reset. The moto (I1/1).	motor protection and mu pr-protective circuit break	st be conn ker must be	ected to a motor-protective circuit breaker which e set according to the rated current of the motor			
	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:	NONE					
	Pressure sensor:	Ν					
	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: 1465 rpr	n				
	Rated flow:	46.68 m³/h					
	Rated head:	9.698 m					
	Actual impeller diameter:	177 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					
		EN 1.4301 AISI 304					
	la stelle tiere :	7101004					
	Installation: t max amb:	55 °C					
		55 C 16 bar					
	Maximum operating pressure: Pipe connection standard:	EN 1092-2					
	Size of inlet connection:	EN 1092-2 DN 65					
	Size of outlet connection:	DN 50					
	Size of outlet connection.						

Pressure rating for connection: PN 16



Date: 15/08/2022 Qty. | Description 1 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: 2.2 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V Rated current: 7.7/4.4 A Starting current: 840-840 % Cos phi - power factor: 0.83 Rated speed: 1465 rpm Efficiency: IE3 86,7% Motor efficiency at full load: 86.7-86.7 % Motor efficiency at 3/4 load: 87-87 % Motor efficiency at 1/2 load: 85.9-85.9 % Number of poles: 4 IP55 Enclosure class (IEC 34-5): Insulation class (IEC 85): F Motor No: 83V02208 Bearing insulation type N-end: Ν Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 63 kg Gross weight: 73 kg Shipping volume: 0.178 m³ 386062169 Danish VVS No.: Country of origin: ΗU Custom tariff no.: 84137051





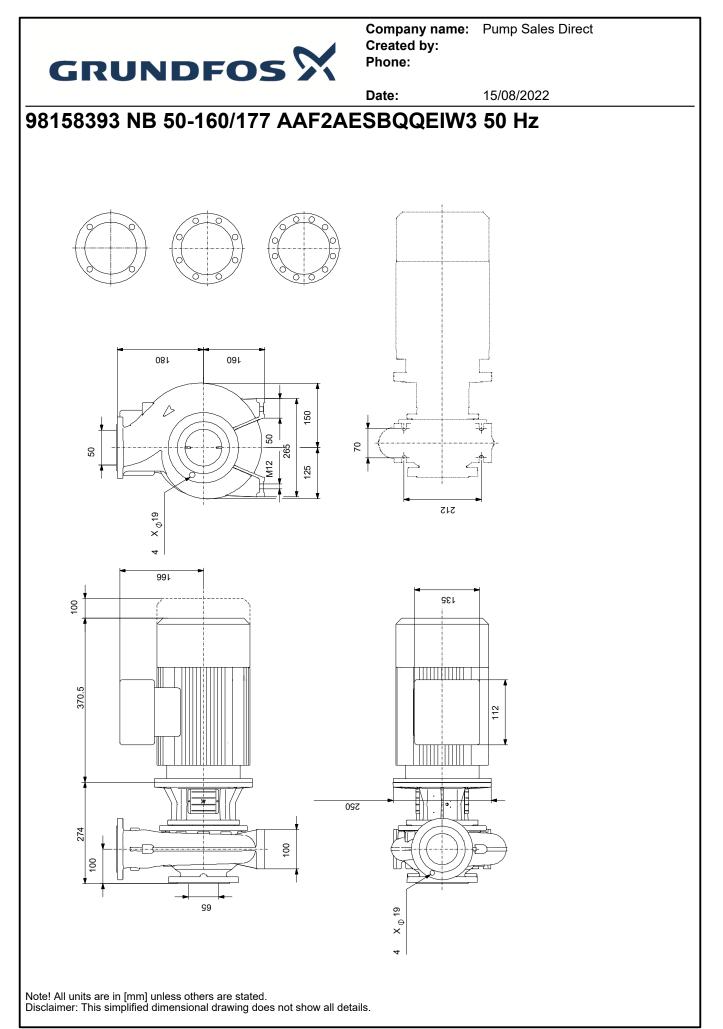
		н		NR 50 160/177 2*400 V/ 501-	eta
Description	Value	[m]	Pumped	NB 50-160/177, 3*400 V, 50Hz iquid = Water	[%]
General information:			Liquid tem	perature during operation = 20 °C	
Product name:	NB 50-160/177 AAF2AESBQQEIW3	12 - 11 -	Density =	998.2 kg/m³	
Product No:	98158393				
EAN number:	5711490648416	10 -			_
Fechnical:		9_			
Pump speed on which pump data are based:	1465 rpm	8 -			
Rated flow:	46.68 m³/h	7			_
Rated head:	9.698 m	6 -			
Actual impeller diameter:	177 mm	0_			
Nominal impeller diameter:	160	5_			100
Shaft seal arrangement:	Single	4			80
Shaft diameter:	24 mm	_			
Code for shaft seal:	BQQE	3-			- 60
Curve tolerance:	ISO9906:2012 3B2	2 -			40
Pump version:	A	1			_ 20
Pump version: Bearing design:	A Standard	'1			
	otaliualu		10 20	30 40 50 Q [m³/h]	Lo
Materials:	Coatiron	— РГ	10 20		NPSH
Pump housing:	Cast iron EN-GJL-250	P [kW]			[m]
Pump housing:		2.0 -		P1	- 8
Pump housing:	ASTM class 35				
Wear ring:	Brass	1.5 -		P2	6
Impeller:	Cast iron				
Impeller:	EN-GJL-200	1.0			4
Impeller:	ASTM class 30				
Internal pump house coating:	CED	0.5			-2
Material code:	Α				
Code for rubber:	E	0.0			Lo
Shaft:	Stainless steel				
Shaft:	EN 1.4301	274	370.5 100		\leftarrow
Shaft:	AISI 304	100			\rightarrow
Installation:					y o
t max amb:	55 °C				200
Maximum operating pressure:	16 bar	- *H)			
Pipe connection standard:	EN 1092-2	- 44			
Size of inlet connection:	DN 65	100	•		
Size of outlet connection:	DN 50				000
Pressure rating for connection:	PN 16		5		
Bearing lubrication:	Grease	4_x019		, ┍┲\$\╬∟ᡗᡃᠠ᠆──	\square
Pump housing with feet:	Yes			213	++
Support block (Yes/No):	N				
Connect code:	F2		· le <u>'''</u> el		
Liquid:	· –				
Pumped liquid:	Water				
Liquid temperature range:	-25 120 °C		LOW VOLTAGE		
Selected liquid temperature:	-25 120 C		DIRECTION OF ROTATION		
Density:	998.2 kg/m³	_ 🛓 🖕			
Electrical data:					
Motor type:	SIEMENS	_ ¶¶			
IE Efficiency class:	IE3				
Rated power - P2:	2.2 kW				
Mains frequency:	50 Hz		HIGH VOLTAGE RECTION OF ROTATION		
Rated voltage:	3 x 220-240D/380-420Y V]		
Rated current:	7.7/4.4 A				
Starting current:	840-840 %		(w2+U2+(v2)		
Cos phi - power factor:	0.83				
Rated speed:	1465 rpm	╶╷┊╷└			
Efficiency:	IE3 86,7%	- IY 🖵	L1 L2 L3		

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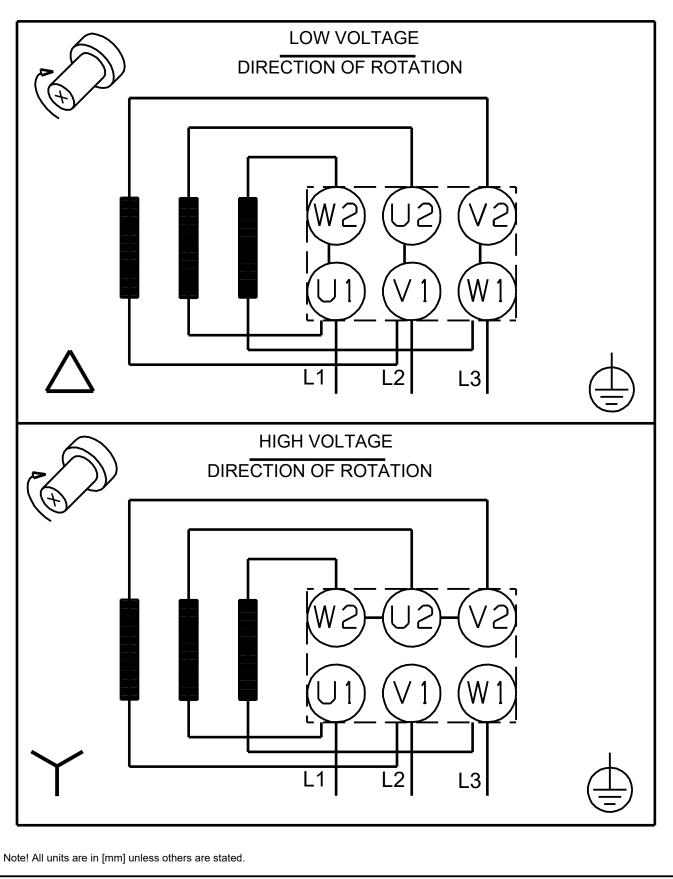
		Date:
Description	Value	
Motor efficiency at full load:	86.7-86.7 %	
Motor efficiency at 3/4 load:	87-87 %	
Motor efficiency at 1/2 load:	85.9-85.9 %	
Number of poles:	4	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	NONE	
Motor No:	83V02208	
Mount. design. 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:	63 kg	
Gross weight:	73 kg	
Shipping volume:	0.178 m³	
Danish VVS No.:	386062169	
Country of origin:	HU	
Custom tariff no.:	84137051	





15/08/2022

98158393 NB 50-160/177 AAF2AESBQQEIW3 50 Hz





Date: 15/08/2022 Order Data:							
Position	Your pos.	Product name		Product No	Total		
		NB 50-160/177	1	98158393	Price or		
					reques		