



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.

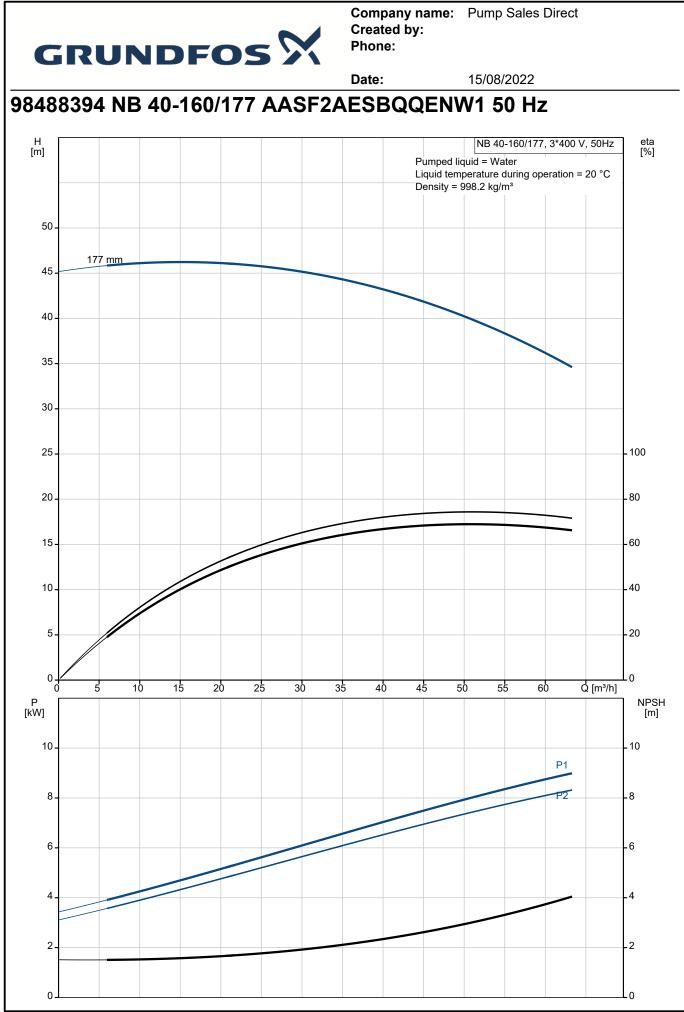
Further product details

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: 2945 rpm 50.57 m³/h 39.29 m 177 mm 160 Single BQQE ISO9906:2012 3B Standard
Materials: Pump housing:	Cast iron EN-GJL-250
Wear ring: Impeller: Internal pump house coating: Shaft:	ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30 CED Stainless steel EN 1.4301
Installation: t max amb: Maximum operating pressure: Pipe connection standard:	AISI 304 60 °C 16 bar EN 1092-2







		н	NB 40-160/177, 3*400 V, 50Hz	eta
Description	Value	[m]	Pumped liquid = Water	[%]
General information:			Liquid temperature during operation = 20 °C	
Product name:	NB 40-160/177 AASF2AESBQQENW1	50 - 177 mm	Density = 998.2 kg/m ³	
Product No:	98488394	45 -		
EAN number:	5711495980788			
Technical:		40 -		
Pump speed on which pump data are based:	2945 rpm	35 -		
Rated flow:	50.57 m³/h	30 -		
Rated head:	39.29 m			
Actual impeller diameter:	177 mm	25 -		100
Nominal impeller diameter:	160	20		80
Shaft seal arrangement:	Single			
Shaft diameter:	24 mm	15 -		60
Code for shaft seal:	BQQE	10 -		40
Curve tolerance:	ISO9906:2012 3B			
Pump version:	AS	5-		20
Bearing design:	Standard			0
Materials:		0 <u>/</u> 0 10	20 30 40 50 Q [m³/h]	U
Pump housing:	Cast iron	P [kW]		NPSH [m]
Pump housing:	EN-GJL-250	10		[m] 10
Pump housing:	ASTM class 35	_	P1	
Wear ring:	Brass	8 -	P2 - 8	8
Impeller:	Cast iron	_		6
Impeller:	EN-GJL-200	6 -		6
Impeller:	ASTM class 30	4		4
Internal pump house coating:	CED	_		
Material code:	A	2-		2
Code for rubber:	E			0
Shaft:	Stainless steel			U
Shaft:	EN 1.4301	323		
Shaft:	AISI 304			
Installation:				
t max amb:	60 °C			
	16 bar			
Maximum operating pressure:		100		
Pipe connection standard:	EN 1092-2			
Size of inlet connection:	DN 65	8	70 - 210	
Size of outlet connection:	DN 40	4 × •19	┪ <mark>╢╒══╤<mark>╴</mark>╷╴╺┍╤╣╎╲_╝┖╵^{╋╶┈╸}┥╴</mark>	T
Pressure rating for connection:	PN 16			
Bearing lubrication:	Grease			
Pump housing with feet:	Yes		· • • •	
Support block (Yes/No):	Y			
Connect code:	F2			
Liquid:	M/ster			
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C		Y	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	В ^{+т}	B ^{+T}	
Electrical data:				
Motor type:	160MB			
IE Efficiency class:	IE3	TO AMPLIFIER		
Rated power - P2:	11 kW	RELAY L1		
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-415D/660-690Y V			
Rated current:	20,8-19,8/12,0-11,8 A	₿+* ■ ₿+*		
Starting current:	660-780 %			
Cos phi - power factor:	0.88-0.84			
Rated speed:	2940-2950 rpm	TO AMPLIFIER RELAY		
Efficiency:	IE3 91,2%			

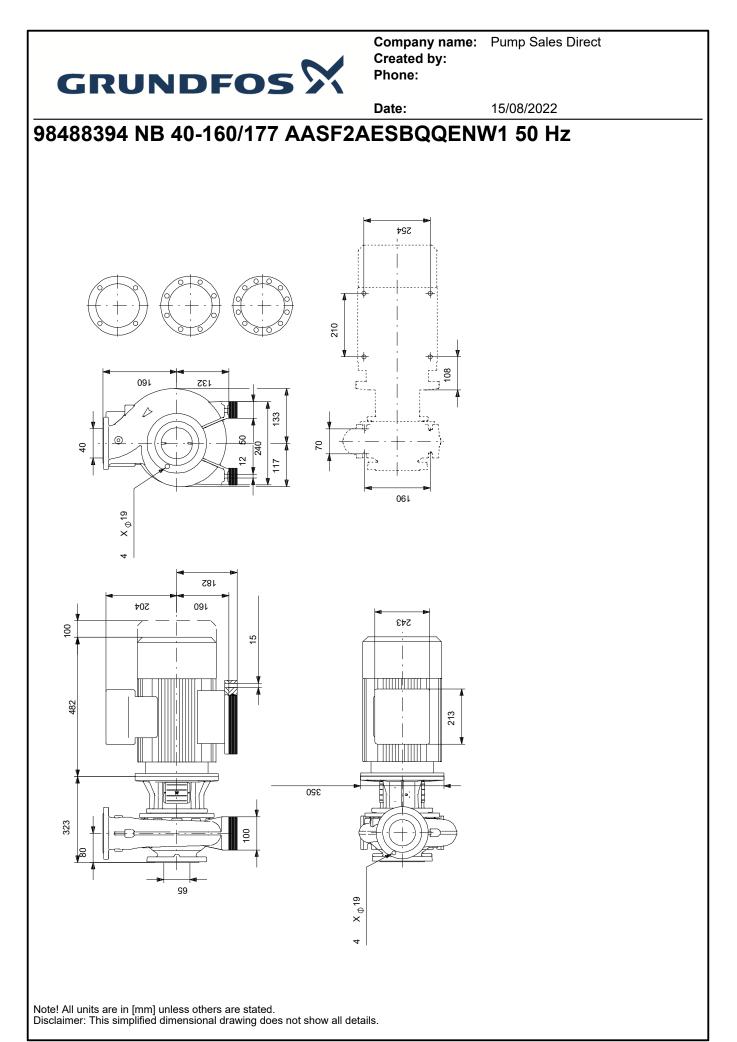
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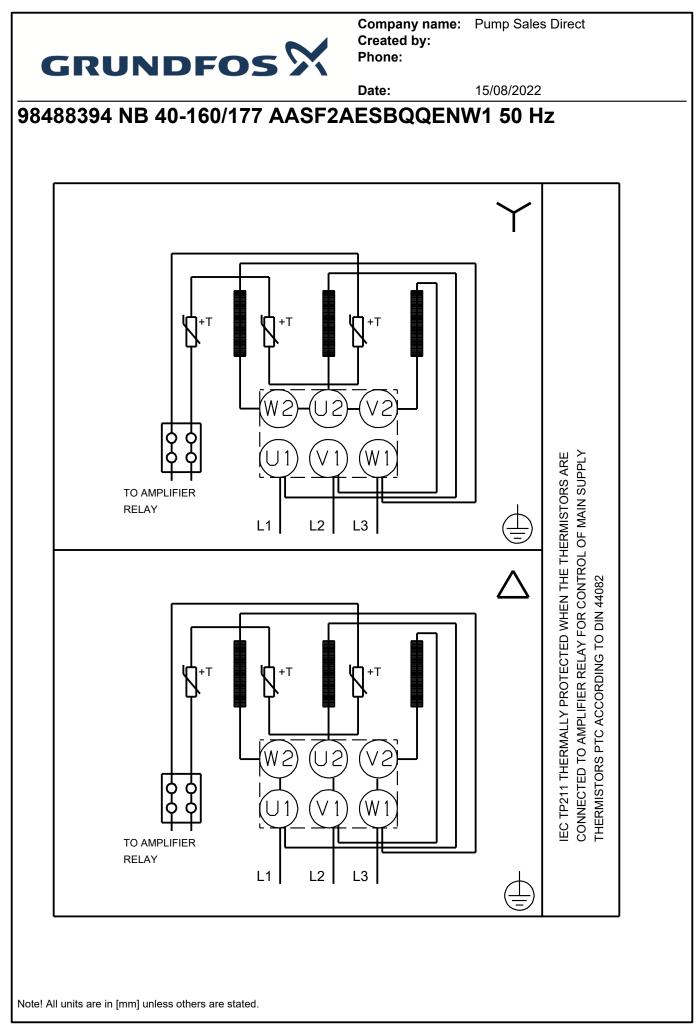


Date:

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Description	Value	
Motor efficiency at full load:	91.2 %	
Motor efficiency at 3/4 load:	91.8 %	
Motor efficiency at 1/2 load:	91.3 %	
Number of poles:	2	
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
Built-in motor protection:	PTC	
Motor No:	87420028	
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:	135 kg	
Gross weight:	156 kg	
Shipping volume:	0.509 m³	
Danish VVS No.:	386061167	
Country of origin:	HU	
Custom tariff no.:	84137051	







Date: 15/08/2022									
Order Data:									
Position	Your pos.	Product name	Amount	Product No	Total				
		NB 40-160/177	1	98488394	Price or				
					reques				