



12/08/2021

Qty. Description

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.

A variable speed drive makes adjustment of pump performance to any duty point possible. If the motor is to be connected to a variable speed drive, the pump must be ordered with an electrically insulated motor bearing.

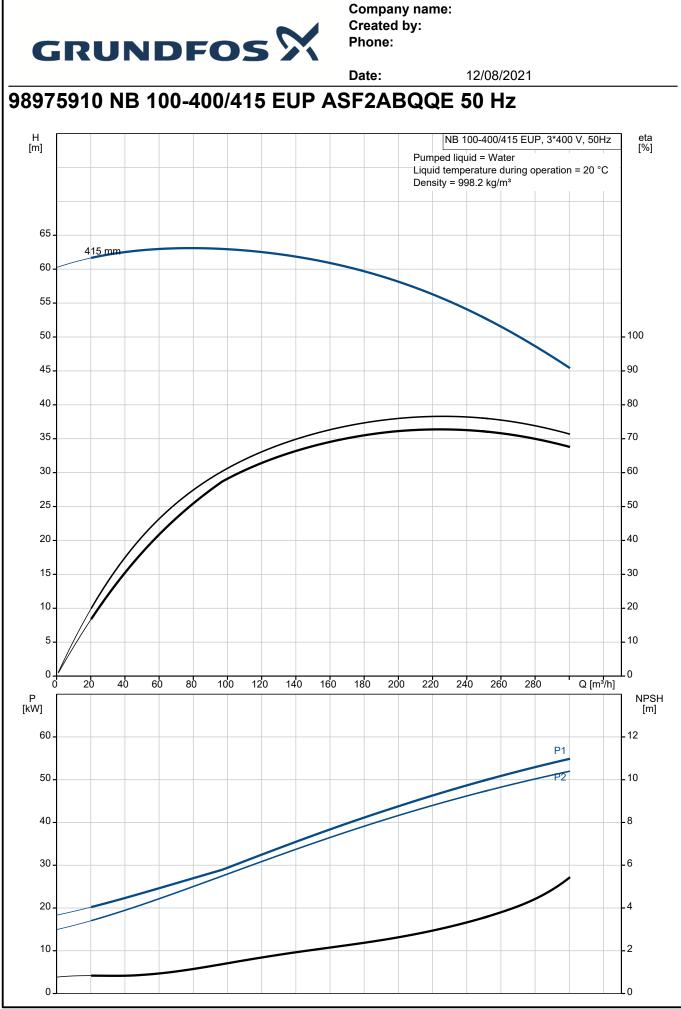
Further product details

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:	a are based: 1480 rpm 214.3 m³/h 56.47 m 415 mm 400 Single BQQE ISO9906:2012 3B Standard
Materials: Pump housing:	Cast iron EN-GJL-250
Wear ring: Impeller: Shaft:	ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30 Stainless steel
Internal pump house coating:	EN 1.4301 AISI 304 CED
Installation: Maximum ambient temperature: Maximum operating pressure: Pipe connection standard:	55 °C 16 bar EN 1092-2



			Date:	12/08/2021	
у.	Description				
	Size of inlet connection:	DN 125			
	Size of outlet connection:	DN 100			
		PN 16			
	Pressure rating for connection:				
	Bearing lubrication:	Grease			
	Pump housing with feet:	Yes			
	Support block:	Y			
	Electrical data:				
	Motor type:	SIEMENS			
	IE Efficiency class:	IE3			
	Rated power - P2:	55 kW			
		50 Hz			
	Mains frequency:				
	Rated voltage:	3 x 380-420D/660-			
	Rated current:	100-93,0/58,0-54,0	A		
	Starting current:	680-680 %			
	Cos phi - power factor:	0.9			
	Rated speed:	1480 rpm			
	Efficiency:	IE3 94,6%			
		94.6-94.6 %			
	Motor efficiency at full load:				
	Motor efficiency at 3/4 load:	95.1-95.1 %			
	Motor efficiency at 1/2 load:	95.0-95.0 %			
	Number of poles:	4			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	99032216			
		00002210			
	Others:				
	Minimum efficiency index, MEI ≥:				
	Net weight:	673 kg			
	Gross weight:	698 kg			
	Shipping volume:	0.826 m ³			
	Country of origin:	HU			
	Custom tariff no.:				
	Custom tanii no.:	84137051			





		Date:	12/08/2021	1
Description	Value	[m]	NB 100-400/415 EUP, 3*400 V, 50Hz	eta [%]
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C	
Product name:	NB 100-400/415 EUP ASF2ABQQE	65 - 415 m	Density = 998.2 kg/m³	-
Product No:	98975910	60 -		
EAN number:	5712604552056	55 -		
Technical:		50 -		- 100
Pump speed on which pump data are based:	1480 rpm	45 -		90
Rated flow:	214.3 m³/h	40 -		- 80
Rated head:	56.47 m	35 -		_70
Actual impeller diameter:	415 mm	30 -		- 60
Nominal impeller diameter:	400			
Shaft seal arrangement:	Single	25 -		- 50
Shaft diameter:	42 mm	20 -		- 40
Code for shaft seal:	BQQE	15		- 30
Curve tolerance:	ISO9906:2012 3B	10		- 20
Pump version:	AS	5		_ 10
Bearing design:	Standard	— /		
Materials:			50 100 150 200 250 Q [m³/h]	Lo
Pump housing:	Cast iron	P [kW]		NPS
Pump housing:	EN-GJL-250	[KVV]	P1	[m
Pump housing:	ASTM class 35			10
Wear ring:	Brass	50 -	P2	- 10
Impeller:	Cast iron	40 -		- 8
	EN-GJL-200	30 -		_6
Impeller:				٢ĭ
mpeller:	ASTM class 30	20 -		- 4
Shaft:	Stainless steel	10		_2
Shaft:	EN 1.4301			
Shaft:	AISI 304	0		Lo
Internal pump house coating:	CED			
Material code:	A			
Code for rubber:	E	H	41 <u>+ 747</u> <u>+ +</u>	
nstallation:	^0			
Maximum ambient temperature:	55 °C			
Maximum operating pressure:	16 bar	2 -		
Pipe connection standard:	EN 1092-2	200		
Size of inlet connection:	DN 125			
Size of outlet connection:	DN 100			
Pressure rating for connection:	PN 16	8 × 019		<u> </u>
Bearing lubrication:	Grease			906
Pump housing with feet:	Yes			ال ال
Support block:	Y		· pe et - et - te-	
Connect code:	F2			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C		Y	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³	и ^{+т} и	-т Т	
Electrical data:				
Motor type:	SIEMENS		0000	
E Efficiency class:	IE3	TO AMPLIFIER		
Rated power - P2:	55 kW	RELAY L1	. 22	
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V			
Rated current:	100-93,0/58,0-54,0 A	N ⁺⁷		
Starting current:	680-680 %			
Cos phi - power factor:	0.9			
Rated speed:	1480 rpm	TO AMPLIFIER		
F				

Printed from Grundfos Product Centre [2021.19.003]



		Date:	12/08/2021
Description	Value		
Motor efficiency at full load:	94.6-94.6 %		
Motor efficiency at 3/4 load:	95.1-95.1 %		
Motor efficiency at 1/2 load:	95.0-95.0 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	99032216		
Mount. design. acc. IEC 34-7:	IM B35		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	673 kg		
Gross weight:	698 kg		
Shipping volume:	0.826 m³		
Country of origin:	HU		
Custom tariff no .:	84137051		

