



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.

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.

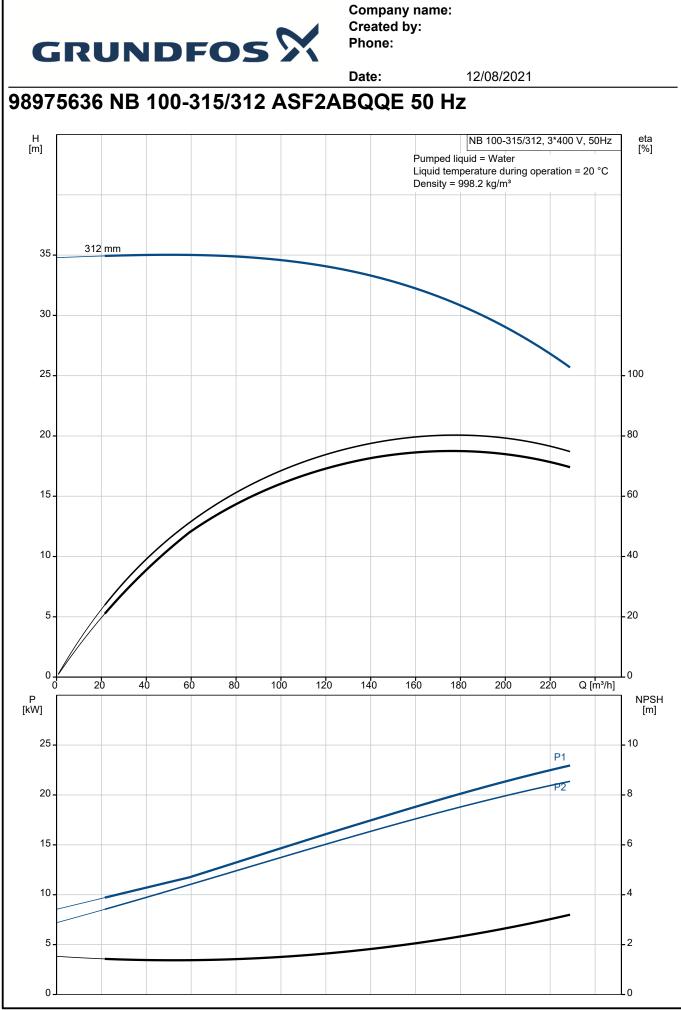
Further product details

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: 1470 rpm 178.9 m³/h 30.73 m 312 mm 315 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
Shaft: Internal pump house coating:	Stainless steel 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			
	Pressure rating for connection:	PN 16			
		Grease			
	Bearing lubrication:	-			
	Pump housing with feet:	Yes			
	Support block:	Y			
	Electrical data:				
	Motor type:	SIEMENS			
	IE Efficiency class:	IE3			
	Rated power - P2:	22 kW			
	Mains frequency:	50 Hz			
			EV V		
	Rated voltage:	3 x 380-420D/660-72			
	Rated current:	42,5-40,5/24,6-23,6	A		
	Starting current:	680-680 %			
	Cos phi - power factor:	0.8			
	Rated speed:	1470 rpm			
	Efficiency:	IE3 93,0%			
	Motor efficiency at full load:	93.0-93.0 %			
	Motor efficiency at 3/4 load:	93.7-93.7 %			
	Motor efficiency at 1/2 load:	93.7-93.7 %			
	Number of poles:	4			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	99032196			
	Minimum efficiency index, MEI ≥ Net weight: Gross weight: Shipping volume: Country of origin: Custom tariff no.:	: 0.70 310 kg 342 kg 0.951 m³ HU 84137051			





GRUND		Date: 12/08/2021
Description	Value	H [m] NB 100-315/312, 3*400 V, 50Hz eta [%]
General information:		Pumped liquid = Water Liquid temperature during operation = 20 °C
Product name:	NB 100-315/312 ASF2ABQQE	Density = 998.2 kg/m ³
Product No:	98975636	35 - 312 1111
EAN number:	5712604546321	
Price:	GBP 6391	30
Technical:		
Pump speed on which pump data are based:	1470 rpm	25 - 100
Rated flow:	178.9 m³/h	20 - 80
Rated head:	30.73 m	
Actual impeller diameter:	312 mm	15 60
Nominal impeller diameter:	315	
Shaft seal arrangement:	Single	10 - 40
Shaft diameter:	32 mm	
Code for shaft seal:	BQQE	5 20
Curve tolerance:	ISO9906:2012 3B	
Pump version:	AS	
Bearing design:	Standard	0 50 100 150 200 Q [m³/h]
Materials:		P NPSH [kW] [m]
Pump housing:	Cast iron	25P1
Pump housing:	EN-GJL-250	
Pump housing:	ASTM class 35	20 8
Wear ring:	Brass	15 6
Impeller:	Cast iron	- 10-
Impeller:	EN-GJL-200	10 4
Impeller:	ASTM class 30	
Shaft:	Stainless steel	52
Shaft:	EN 1.4301	
Shaft:	AISI 304	
Internal pump house coating:	CED	
Material code:	A	
Code for rubber:	E	
Installation:		
Maximum ambient temperature:	55 °C	
Maximum operating pressure:	16 bar	
Pipe connection standard:	EN 1092-2	
Size of inlet connection:	DN 125	
Size of outlet connection:	DN 100	
Pressure rating for connection:	PN 16	
Bearing lubrication:	Grease	
Pump housing with feet:	Yes	
Support block:	Y	
Connect code:	F2	
Liquid:	12	
Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	Y
Selected liquid temperature:	-23 120 °C	
Density:	998.2 kg/m ³	$= \begin{vmatrix} \wp^{\tau} & \wp^{\tau} & \wp^{\tau} & \vdots \end{vmatrix} $
Electrical data:	500.2 Ng/III	
Motor type:	SIEMENS	
IE Efficiency class:	IE3	
Rated power - P2:	22 kW	E 4
Mains frequency:	50 Hz	
	3 x 380-420D/660-725Y V	
Rated voltage: Rated current:		
	42,5-40,5/24,6-23,6 A	
Starting current:	680-680 %	
Cos phi - power factor:	0.8	

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		Date:	12/08/2021	
Description	Value			
Rated speed:	1470 rpm			
Efficiency:	IE3 93,0%			
Motor efficiency at full load:	93.0-93.0 %			
Motor efficiency at 3/4 load:	93.7-93.7 %			
Motor efficiency at 1/2 load:	93.7-93.7 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor protec:	PTC			
Motor No:	99032196			
Mount. design. acc. IEC 34-7:	IM B35			
Controls:				
Frequency converter:	NONE			
Pressure sensor:	Ν			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	310 kg			
Gross weight:	342 kg			
Shipping volume:	0.951 m³			
Country of origin:	HU			
Custom tariff no.:	84137051			

