

Date: 12/08/2021 Qty. Description 1 NB 250-450/361 ASF1ABQQE Note! Product picture may differ from actual product Product No.: 98976239 Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar). Flanges are PN 10 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework. The unbalanced rubber bellows seal is according to DIN EN 12756. The pump is close-coupled to a fan-cooled asynchronous motor. The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013. The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes. 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. Pump The pump housing has both a priming and a drain hole closed by plugs. The impeller is a closed impeller with double-curved blades with smooth surfaces. The impeller is statically balanced according to ISO 1940-1 class G6.3 and hydraulically balanced to compensate for axial thrust. Wear rings used in pump housing and for impeller are made of bronze/brass. Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The pump cover is provided with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The pump is fitted with an unbalanced rubber bellows seal with torgue transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft Primary seal: Rotating seal ring material: silicon carbide (SiC) Stationary seat material: silicon carbide (SiC) This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles. Secondary seal material: EPDM (ethylene-propylene rubber) EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils. The pump housing has feet. The pump is to be secured to the foundation with bolts through the pump housing feet and motor feet. The pump is delivered with steel support blocks. The support blocks provide horizontal alignment of the pump and ensure clearance between the motor stool/motor flange and the foundation.



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

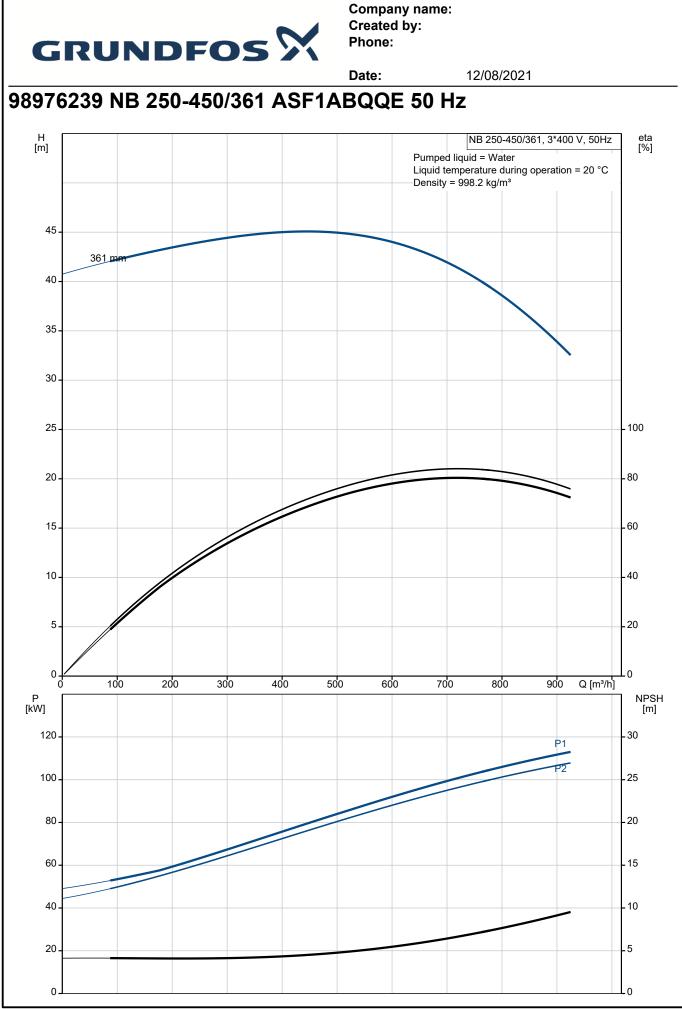
Technical data

Controls

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: 1490 rpm 717.9 m ³ /h 41.39 m 361 mm 450 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
Shaft:	ASTM class 30 Stainless steel EN 1.4301 AISI 304
Internal pump house coating:	CED
Installation: Maximum ambient temperature: Maximum operating pressure: Pipe connection standard:	55 °C 10 bar EN 1092-2



			Date:	1	2/08/2021	
у.	Description					
	Size of inlet connection:	DN 300				
	Size of outlet connection:	DN 250				
	Pressure rating for connection:	PN 10				
	Bearing lubrication:	Grease				
	Pump housing with feet:	Yes				
	Support block:	Y				
	Support block.	ř				
	Electrical data:					
	Motor type:	SIEMENS				
	IE Efficiency class:	IE3				
	Rated power - P2:	110 kW				
	Mains frequency:	50 Hz				
	Rated voltage:	3 x 380-420D/660	-725Y V			
	Rated current:	200-186/116-108				
	Starting current:	680-680 %				
	Cos phi - power factor:	0.9				
	Rated speed:	1490 rpm				
	Efficiency:	IE3 95,4%				
	Motor efficiency at full load:	95.4-95.4 %				
	Motor efficiency at 3/4 load:	95.8-95.8 %				
	Motor efficiency at 1/2 load:	95.5-95.5 %				
	Number of poles:	4				
	Enclosure class (IEC 34-5):	IP55				
	Insulation class (IEC 85):	F				
	Motor No:	83V15444				
		05110444				
	Others:					
	Minimum efficiency index, MEI ≥:	0.70				
	Net weight:	1370 kg				
	Gross weight:	1440 kg				
	Shipping volume:	2.22 m ³				
	Country of origin:	HU				
	Custom tariff no.:	84137051				
		04137031				



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		Date:		12/08/202	.1		
Description	Value	H [m]		NB 25	50-450/361, 3*4	100 V, 50Hz	eta [%]
General information:				umped liquid = W		on = 20.90	
Product name:	NB 250-450/361 ASF1ABQQE	45 -		iquid temperature ensity = 998.2 kg		on = 20 °C	
Product No:	98976239	-	361 mm				
EAN number:	5712604558331	40					
Fechnical:	3712004330331						
Pump speed on which pump data are based:	1490 rpm	35 - 30 -					
Rated flow:	717.9 m³/h						
Rated head:	41.39 m	25					- 100
Actual impeller diameter:	361 mm	-					
Nominal impeller diameter:	450	20 -					- 80
Shaft seal arrangement:	Single	- 15				•	60
Shaft diameter:	60 mm	15 -					- 60
Code for shaft seal:	BQQE	10 -					40
Curve tolerance:	ISO9906:2012 3B]					1
Pump version:	AS	5 -					20
Bearing design:	Standard	- /					
Materials:	Januaru	0	200	400	600 80	0 Q [m³/h]	Lo
Pump housing:	Cast iron	P [kW]				. <u></u>] NPS
Pump housing: Pump housing:	EN-GJL-250	[kW]					[m
	ASTM class 35						
Pump housing:		100 -				- 12	- 25
Wear ring:	Brass	80 -					20
mpeller:	Cast iron	60 -					15
mpeller:	EN-GJL-200	00-					- 15
mpeller:	ASTM class 30	40 -				/	- 10
Shaft:	Stainless steel	20 -					-5
Shaft:	EN 1.4301	_					
Shaft:	AISI 304						Lo
nternal pump house coating:	CED	_					~
Material code:	A						(2)
Code for rubber:	E		568 91	2 180			6 O
nstallation:		-•	162			50	()
Maximum ambient temperature:	55 °C			12 12	× 023	•]。	S
Maximum operating pressure:	10 bar	8					6000
Pipe connection standard:	EN 1092-2	t.				450	6 1
Size of inlet connection:	DN 300	_	200	28	1 20 125 625	- ¹	~ ~
Size of outlet connection:	DN 250		1		374 563	-	
Pressure rating for connection:	PN 10		89				1000
Bearing lubrication:	Grease			 _		406	_
Pump housing with feet:	Yes	12 X g23					
Support block:	Y	··· ^ @23			Ly for	-1 4 • •	Ĵ,
Connect code:	F1	1		-		16	
Liquid:							
Pumped liquid:	Water						
Liquid temperature range:	-25 120 °C			Y			
Selected liquid temperature:	20 °C						
Density:	998.2 kg/m³						
Electrical data:							
Motor type:	SIEMENS	- H	10000				
E Efficiency class:	IE3	TO AMPLIFIER	$\underline{\Theta} \underline{\Theta} \underline{\Theta}$	18 ARE SUPPLY			
Rated power - P2:	110 kW	TO AMPLIFIER RELAY	L1 L2 L3				
Mains frequency:	50 Hz	-					
Rated voltage:	3 x 380-420D/660-725Y V			DIECTED WHEN I RELAY FOR CC IDING TO DIN 44			
Rated current:	200-186/116-108 A	-		ALLY PRC MULFIER			
Starting current:	680-680 %	-	₩ <u>@</u> @	II THERM			
Cos phi - power factor:	0.9			IECTP211 CONNECT THERMIST			
Rated speed:	1490 rpm	RELAY	L1 L2 L3				
ralea speea:	1490 rpm			(4)			

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		Date:	12/08/2021
Description	Value		
Efficiency:	IE3 95,4%	-	
Motor efficiency at full load:	95.4-95.4 %		
Motor efficiency at 3/4 load:	95.8-95.8 %		
Motor efficiency at 1/2 load:	95.5-95.5 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	83V15444		
Mount. design. acc. IEC 34-7:	IM B35		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	1370 kg		
Gross weight:	1440 kg		
Shipping volume:	2.22 m³		
Country of origin:	HU		
Custom tariff no.:	84137051		

