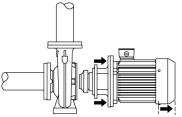


The pump is close-coupled to a fan-cooled asynchronous motor.

The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes.

12/08/2021



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 torque 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.

Motor

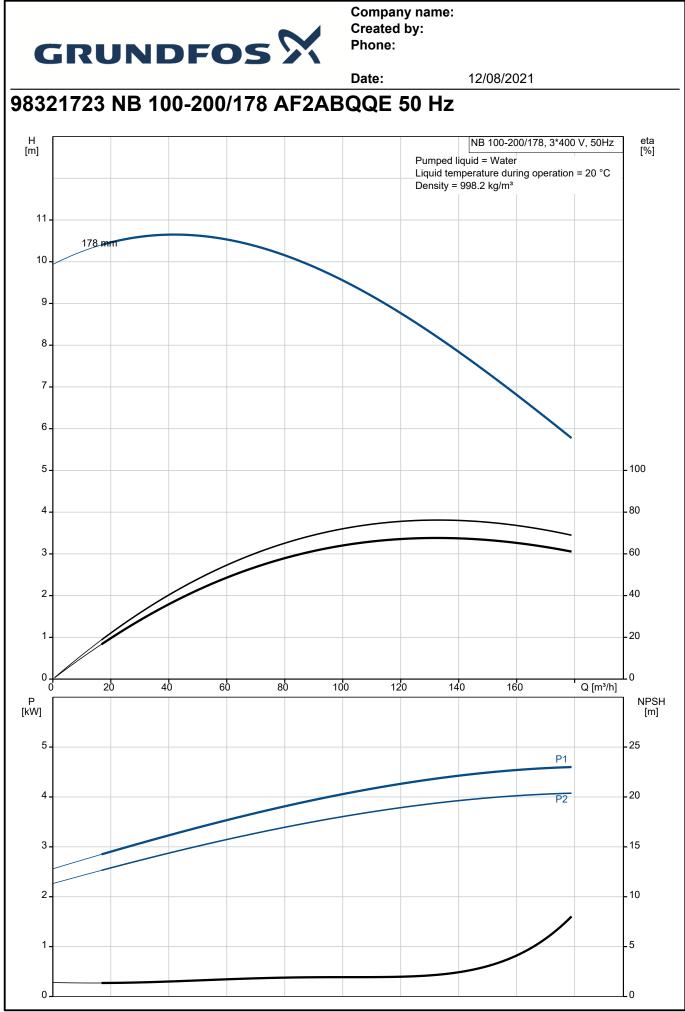
The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

				Date:	12/08/2021			
esc	cription		_					
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								
egul	lations.							
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.								
url	ther product details							
	hnical data							
	rols: uency converter:	NONE						
•	sure sensor:	N						
iqui								
	ped liquid:	Water						
	d temperature range:	-25 120 °C						
	cted liquid temperature:	20 °C						
ens	sity:	998.2 kg/m ³						
	nical:			460 mm				
	p speed on which pump data			1460 rpm				
	d flow: d head:	135.4 m³/h 8.009 m						
	a nead: al impeller diameter:	8.009 m 178 mm						
	inal impeller diameter:	200						
	t seal arrangement:	Single						
	e for shaft seal:	BQQE						
	e tolerance:	ISO9906:201	2	3B2				
ear	ing design:	Standard						
	erials:	•						
um	p housing:	Cast iron						
		EN-GJL-250 ASTM class 3	21					
/e2	r ring:	AS I M class 3 Brass	J:	,				
	eller:	Cast iron						
		EN-GJL-200						
		ASTM class 3	30)				
haf	t:	Stainless stee						
		EN 1.4301						
		AISI 304						
ter	nal pump house coating:	CED						
	Ilation:	55 00						
	mum ambient temperature:							
	mum operating pressure:	16 bar						
	connection standard: of inlet connection:	EN 1092-2 DN 125						
	of outlet connection:	DN 125 DN 100						
	sure rating for connection: ing lubrication:	PN 16 Grease						



			Date:	12/08/2021	
y .	Description				
	Pump housing with feet:	Yes			
	Support block:	Ν			
	Electrical data:				
	Motor type:	SIEMENS			
	IE Efficiency class:	IE3			
	Rated power - P2:	4 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-420D/660	-725Y V		
	Rated current:	8,3-7,51/4,83-4,37			
	Starting current:	710-710 %			
	Cos phi - power factor:	0.82			
	Rated speed:	1460 rpm			
	Efficiency:	IE3 88,6%			
	Motor efficiency at full load:	88.6-88.6 %			
	Motor efficiency at 3/4 load:	89.2-89.2 %			
	Motor efficiency at 1/2 load:	88.6-88.6 %			
	Number of poles:	4			
	Enclosure class (IEC 34-5):	IP55			
	Insulation class (IEC 85):	F			
	Motor No:	83V15213			
		00010210			
	Others:				
	Minimum efficiency index, MEI ≥:				
	Net weight:	109 kg			
	Gross weight:	126 kg			
	Shipping volume:	0.315 m³			
	Country of origin:	HU			
	Custom tariff no.:	84137051			





		Date:		12	/08/2	021				
Description	Value	H [m]			N	B 100-	200/17	'8, 3*40	00 V, 50Hz	eta [%]
General information:					ed liquid			no	n = 20.90	
Product name:	NB 100-200/178	11 -			tempera ty = 998.			peratio	n = 20 °C	
	AF2ABQQE	17	8 mm							
Product No:	98321723	10 -			\searrow					
EAN number:	5711492986479	9								
Price:	GBP 2761									
Fechnical:		8 -								_
Pump speed on which pump data are based:	1460 rpm	7 -								
Rated flow:	135.4 m³/h	6 -								
Rated head:	8.009 m	5 -								100
Actual impeller diameter:	178 mm									
Nominal impeller diameter:	200	4 -							~	- 80
Shaft seal arrangement:	Single	3 -							<u> </u>	- 60
Shaft diameter:	32 mm	2								40
Code for shaft seal:	BQQE	2 -								40
Curve tolerance:	ISO9906:2012 3B2	1-								- 20
^D ump version:	A	0								
Bearing design:	Standard	d a	20 40	60 8	30 10	0 12	0 14	0 16	0 Q [m³/h]	-
Materials:		P [kW]								NPSF [m]
Pump housing:	Cast iron	5_							P1	- 25
Pump housing:	EN-GJL-250									
Pump housing:	ASTM class 35	4							P2	- 20
Wear ring:	Brass	3 -								15
mpeller:	Cast iron									
mpeller:	EN-GJL-200	2								- 10
mpeller:	ASTM class 30								/	_
Shaft:	Stainless steel	1-								- 5
Shaft:	EN 1.4301	₀上								
Shaft:	AISI 304	■								
nternal pump house coating:	CED		18	354	140					_
Material code:	Α	125								$(\uparrow\uparrow)$
Code for rubber:	E	1	[] [8 y	\mathbb{N}	[]		No la
nstallation:					1 E		K	۳,	N #	and a
Maximum ambient temperature:	55 °C	° ₽					110	2,	8	
Maximum operating pressure:	16 bar	· · · · ·	Մ ៕⊐ —				HT M16			
Pipe connection standard:	EN 1092-2	160	↓				169	212	-	
Size of inlet connection:	DN 125		8				-		-	000
Size of outlet connection:	DN 100	_	~				1	120	_	
Pressure rating for connection:	PN 16	8 × • 19					T	1 ¶r][]	\square
Bearing lubrication:	Grease		温冒		£	1				
Pump housing with feet:	Yes	"U	⊮ µ⊩q	112	<u>_</u> _		<u> </u>	↓ ŧµ	<u>ل</u> تـــــ	
Support block:	Ν									
Connect code:	F2									
Liquid:										
Pumped liquid:	Water				Y					
iquid temperature range:	-25 120 °C			<u> </u>						
Selected liquid temperature:	20 °C		,							
Density:	998.2 kg/m³		∎β ∎	₽ ■						
Electrical data:			400	-07						
Motor type:	SIEMENS	<u> </u>	00	() (<u>)</u>	RS ARE SUPRLY					
E Efficiency class:	IE3	TO AMPLIFIER RELAY	L1 L2	L3						
Rated power - P2:	4 kW					092				
Mains frequency:	50 Hz				T FOR COP	TO DIN 44				
Rated voltage:	3 x 380-420D/660-725Y V	B ^{+†}			MILY PROTECTE	TC ACCORDING				
Rated current:	8,3-7,51/4,83-4,37 A		- Yey Qi) 꽃	11 THERW	ISTORS P				
Starting current:	710-710 %	TO AMPLIFIER	$\underline{\Theta}$	<u>(wi)</u>	IECTP21 CONNEC	THERM				
Cos phi - power factor:	0.82	RELAY	L1 L2	L3	⊕					

Printed from Grundfos Product Centre [2021.19.003]



		Date:	12/08/2021
Description	Value		
Rated speed:	1460 rpm		
Efficiency:	IE3 88,6%		
Motor efficiency at full load:	88.6-88.6 %		
Motor efficiency at 3/4 load:	89.2-89.2 %		
Motor efficiency at 1/2 load:	88.6-88.6 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	83V15213		
Mount. design. acc. IEC 34-7:	IM V1		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.65		
Net weight:	109 kg		
Gross weight:	126 kg		
Shipping volume:	0.315 m³		
Country of origin:	HU		
Custom tariff no.:	84137051		

