		Company n Created by: Phone:			
	JRUNDFUS 2	Date:	12/08/2021		
y .	Description				
	NB 65-160/149 AF2ABQQE				
	Product No.: 98071620				
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 16 with dimensions according to EN 10 port, horizontal shaft and a back pull-out design enablir without disturbing the pump housing or pipework.	92-2. The pum ng removal of th	np has an axial suction port, radial discharge ne motor, motor stool, cover and impeller		
	The unbalanced rubber bellows seal is according to DI	N EN 12756.			
	The pump is close-coupled to a fan-cooled asynchrono The product's minimum efficiency index (MEI) is greate considered as an indicative benchmark for best-perform 2013.	r or equal to 0.7	70. This is by the Commission Regulation (EU) p available on the market as from 1 January		
	The back pull-out design means that the pump can be shousing or pipes.	serviced by a si	ingle person without disturbing the pump		
	Cast-iron parts have an epoxy-based coating made in a high-quality dip-painting process where an electrical fie a thin, well-controlled layer on the surface.	a cathodic elect Id around the p	tro-deposition (CED) process. CED is a products ensures deposition of paint particles as		
	Duran				
	Pump The pump housing has both a priming and a drain hole double-curved blades with smooth surfaces. The impell and hydraulically balanced to compensate for axial thru	er is statically b	is. The impeller is a closed impeller with balanced according to ISO 1940-1 class G6.3		
	Wear rings used in pump housing and for impeller are n Motor stool and pump cover are made of cast iron (EN- pump cover is provided with a manual air vent screw for	GJL-250). Cou	pling guards are fitted to the motor stool. The		
	The pump is fitted with an unbalanced rubber bellows s bellows. Due to the bellows, the seal does not wear the on the shaft.	eal with torque shaft, and the	transmission across the spring and around the axial movement is not prevented by deposits		
	 Primary seal: Rotating seal ring material: silicon carbide (SiC) Stationary seat material: silicon carbide (SiC) 				
	This material pairing is used where higher corrosion resoffers good resistance against abrasive particles.		uired. The high hardness of this material pairing		
	Secondary seal material: EPDM (ethylene-propylene ru EPDM has excellent resistance to hot water. EPDM is r The pump housing has feet.	,	mineral oils.		
	The pump housing has reet.				

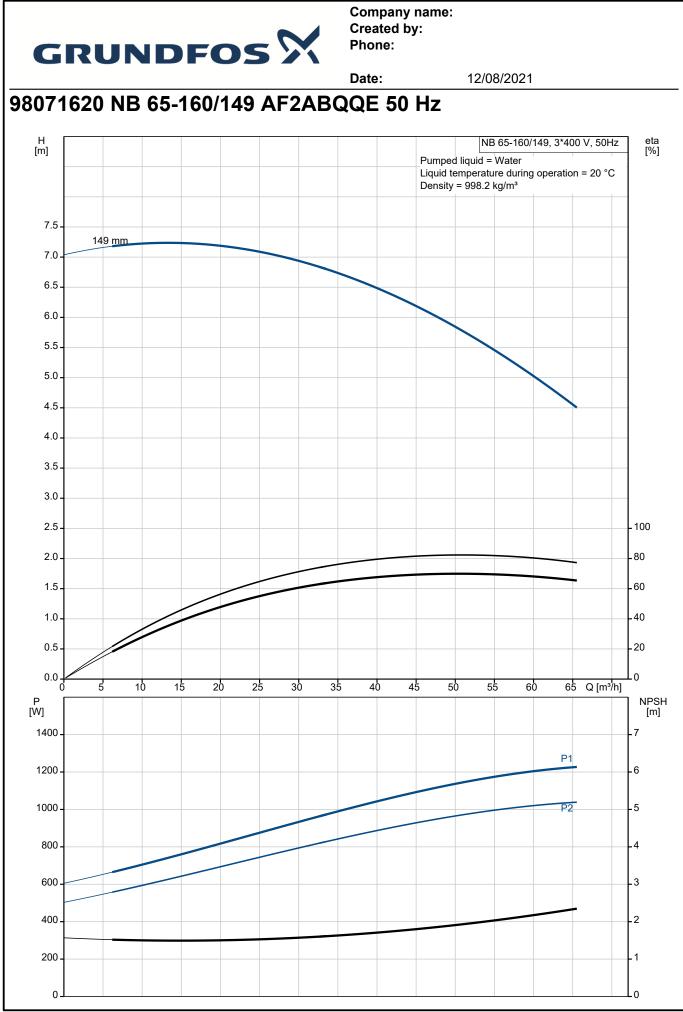
			Date:	12/08/2021	
<i>ı</i> .	Description				
	The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.				
	The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.				
	The motor does not incorporate r can be manually reset. The moto (I1/1).	ted to a motor-protective circuit breaker which et according to the rated current of the motor			
	The motor can be connected to a Grundfos CUE offers a range of	a variable speed dr variable speed driv	ive for adjustment es. Please find mo	of pump performance to any duty point. The information in Grundfos Product Center.	
	Further product details				
	Technical data				
	Controls:				
	Frequency converter:	NONE			
	Pressure sensor:	N			
	Liquid:				
	Pumped liquid:	Water			
	Liquid temperature range:	-25 120 °C			
	Selected liquid temperature:	20 °C			
	Density:	998.2 kg/m³			
	Technical:				
	Pump speed on which pump data	a are based: 144	0 rpm		
	Rated flow:	51.64 m³/h	·		
	Rated head:	5.622 m			
	Actual impeller diameter:	149 mm			
	Nominal impeller diameter:	160			
	Shaft seal arrangement:	Single			
	Code for shaft seal:	BQQE			
	Curve tolerance:	ISO9906:2012 3E	32		
	Bearing design:	Standard			
	Materials:				
	Pump housing:	Cast iron			
		EN-GJL-250			
		ASTM class 35			
	Wear ring:	Brass Coot iron			
	Impeller:	Cast iron EN-GJL-200			
		ASTM class 30			
	Shaft:	Stainless steel			
		EN 1.4301			
		AISI 304			
	Internal pump house coating:	CED			
	Installation:				
	Maximum ambient temperature:	55 °C			
	Maximum operating pressure:	16 bar			
	Pipe connection standard:	EN 1092-2			
	Size of inlet connection:	DN 80			
	Size of outlet connection:	DN 65			

Pressure rating for connection:

PN 16



Date: 12/08/2021 Qty. Description Bearing lubrication: Grease Pump housing with feet: Yes Support block: Ν Electrical data: SIEMENS Motor type: IE Efficiency class: IE3 Rated power - P2: 1.1 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-420Y V Rated current: 4,41-3,99/2,52-2,28 A Starting current: 690-690 % Cos phi - power factor: 0.78 Rated speed: 1440 rpm Efficiency: IE3 84,1% Motor efficiency at full load: 84.1-84.1 % Motor efficiency at 3/4 load: 84.7-84.7 % Motor efficiency at 1/2 load: 83.4-83.4 % Number of poles: 4 IP55 Enclosure class (IEC 34-5): F Insulation class (IEC 85): Motor No: 83V02205 Others: Minimum efficiency index, MEI ≥: 0.70 Net weight: 52 kg Gross weight: 69 kg Shipping volume: 0.315 m³ Country of origin: ΗU Custom tariff no.: 84137051



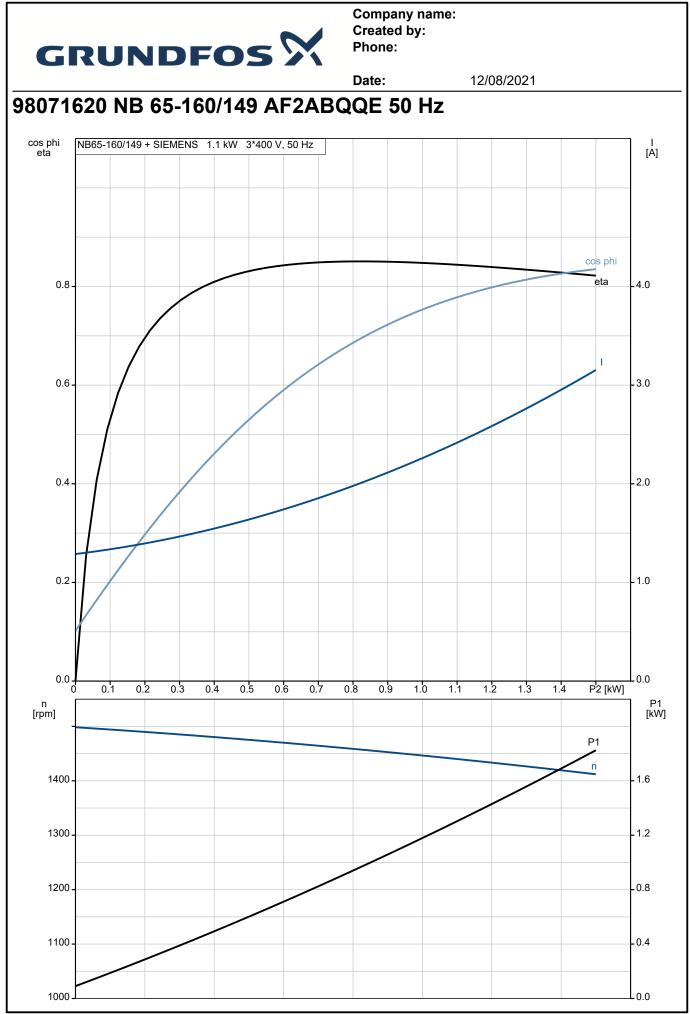


		н	ND 65 460/440 0*400.1/ 50	
Description	Value	[m]	NB 65-160/149, 3*400 V, 50 Pumped liquid = Water	ΠZ
General information:		_	Liquid temperature during operation = 20	°C
Product name:	NB 65-160/149 AF2ABQQE	7.5 - 149	Density = 998.2 kg/m ³	
Product No:	98071620	7.0		
EAN number:	5710628449437	6.5 -		
-AN number: Price:	GBP 1535	6.0		
rice: Fechnical:	GBP 1535	5.5		
		5.0 -		
Pump speed on which pump data are based:	1440 rpm	4.5		
Rated flow:	51.64 m³/h	4.0		
Rated head:	5.622 m	3.5 -		
Actual impeller diameter:	149 mm	3.0		
Nominal impeller diameter:	160	2.5		1
Shaft seal arrangement:	Single			
Shaft diameter:	24 mm	2.0		- 8
Code for shaft seal:	BQQE	1.5 -		- 6
Code for shall seal: Curve tolerance:	ISO9906:2012 3B2	1.0 -		- 4
		0.5		-2
Pump version:	A	0.0	10 20 30 40 50 Q[m	0 1 ³ /h1
Bearing design: Materials:	Standard	P [W]		
	Castiran	[W]		
Pump housing:	Cast iron	1200 -	P1	6
Pump housing:	EN-GJL-250			
Pump housing:	ASTM class 35	1000 -	P2	- 5
Near ring:	Brass	800 -		- 4
mpeller:	Cast iron	600		- 3
mpeller:	EN-GJL-200	400		2
mpeller:	ASTM class 30	200 -		1
Shaft:	Stainless steel	_		
Shaft:	EN 1.4301	0		L 0
Shaft:	AISI 304	_		
nternal pump house coating:	CED	246	297 100 55	0
Material code:	A			
Code for rubber:	E			4
nstallation:				()
Maximum ambient temperature:	55 °C			000
Maximum operating pressure:	16 bar	125		2010
Pipe connection standard:	EN 1092-2		127 161	E.
Size of inlet connection:	DN 80	8	95	90
Size of outlet connection:	DN 65	- <u>4 × 019</u> - 5 Th		
Pressure rating for connection:	PN 16			
Bearing lubrication:	Grease			
Pump housing with feet:	Yes	₩+		l
Support block:	N			
Connect code:	F2			
Liquid:			LOW VOLTAGE	
Pumped liquid:	Water	DIRE		
Liquid temperature range:	-25 120 °C			
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³		(W2) (U2) (V2)	
Electrical data:		│ ♥♥♥		
Motor type:	SIEMENS			
E Efficiency class:	IE3			
Rated power - P2:	1.1 kW		GH VOLTAGE ION OF ROTATION	
Mains frequency:	50 Hz			
Rated voltage:	3 x 220-240D/380-420Y V		(w2)-(U2)-(V2)	
Rated current:	4,41-3,99/2,52-2,28 A	╴│ ▋▋▋		
Starting current:	690-690 %	╴╷ ╹┖┸		
Cos phi - power factor:	0.78			

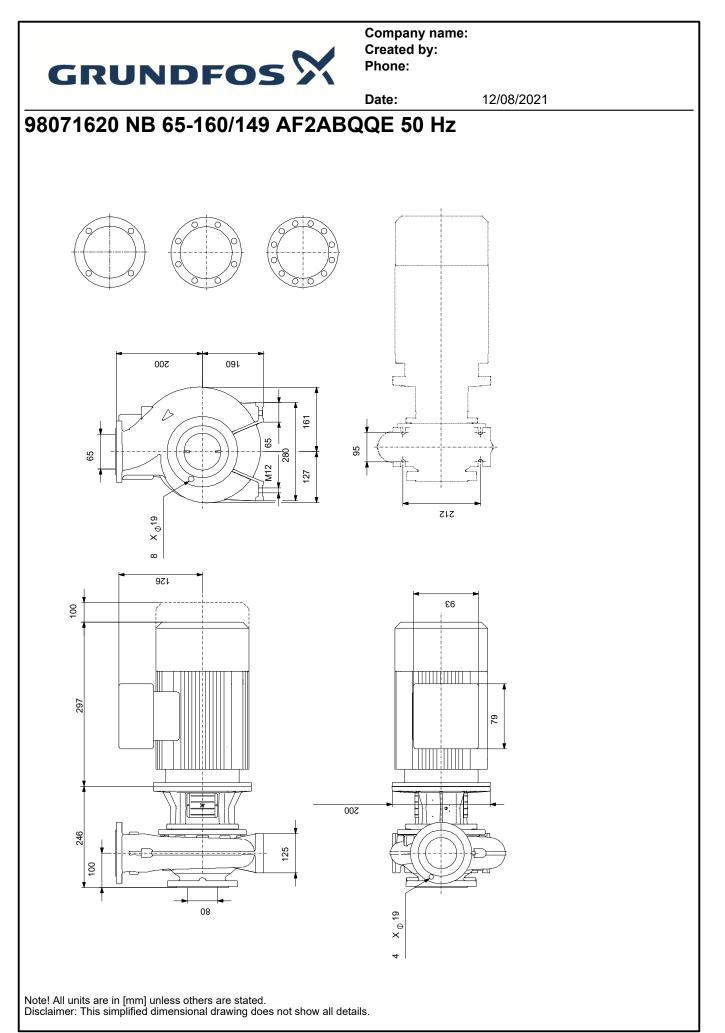
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		Date:	12/08/2021	
Description	Value			
Rated speed:	1440 rpm			
Efficiency:	IE3 84,1%			
Motor efficiency at full load:	84.1-84.1 %			
Motor efficiency at 3/4 load:	84.7-84.7 %			
Motor efficiency at 1/2 load:	83.4-83.4 %			
Number of poles:	4			
Enclosure class (IEC 34-5):	IP55			
Insulation class (IEC 85):	F			
Motor protec:	NONE			
Motor No:	83V02205			
Mount. design. acc. IEC 34-7:	IM V1			
Controls:				
Frequency converter:	NONE			
Pressure sensor:	Ν			
Others:				
Minimum efficiency index, MEI ≥:	0.70			
Net weight:	52 kg			
Gross weight:	69 kg			
Shipping volume:	0.315 m³			
Country of origin:	HU			
Custom tariff no.:	84137051			



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Date:

12/08/2021

98071620 NB 65-160/149 AF2ABQQE 50 Hz

