	Company na Created by:						
GRUNDFOS	Phone:						
	Date:	12/08/2021					
Qty.   Description							
1 NB 50-160/158 AF2ABQQE							
-							
( Start )							
Draduat Nation 02042245							
Floduct No.: 96046215	Product No.: 98048215						
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 1092-2. The pump has an axial suction port, radial discharge							
without disturbing the pump housing or pipework.	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 asynch The product's minimum efficiency index (MEI) is gr		0. This is by the Commission Pogulation (EU)					
considered as an indicative benchmark for best-pe	rforming 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 sir	ade person without disturbing the pump					
housing or pipes.	be serviced by a sir						
	in a asthadia alastr	a denseition (CED) process. CED is a					
Cast-iron parts have an epoxy-based coating made high-quality dip-painting process where an electrica	al field around the pr	oducts ensures deposition of paint particles as					
a thin, well-controlled layer on the surface.	a thin, well-controlled layer on the surface.						
Pump	Pump						
The pump housing has both a priming and a drain hole closed by plugs. The impeller is a closed impeller with							
and hydraulically balanced to compensate for axial	<ul> <li>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.</li> <li>Wear rings used in pump housing and for impeller are made of bronze/brass.</li> <li>Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The</li> </ul>						
pump cover is provided with a manual air vent scre	(EN-GJL-250). Coup w for venting of the	pump housing and the shaft seal chamber.					
The nump is fitted with an unbalanced rubber bello	we seal with torque t	transmission across the spring and around the					
bellows. Due to the bellows, the seal does not wea	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 (Si This material pairing is used where higher corrosio	,	red. The high hardness of this material pairing					
offers good resistance against abrasive particles.		.sa. The high hardhood of this filatenal pailing					
Secondary seal material: EPDM (ethylene-propyler EPDM has excellent resistance to hot water, EPDM	,	nineral oils					
The pump housing has feet.							
Motor							

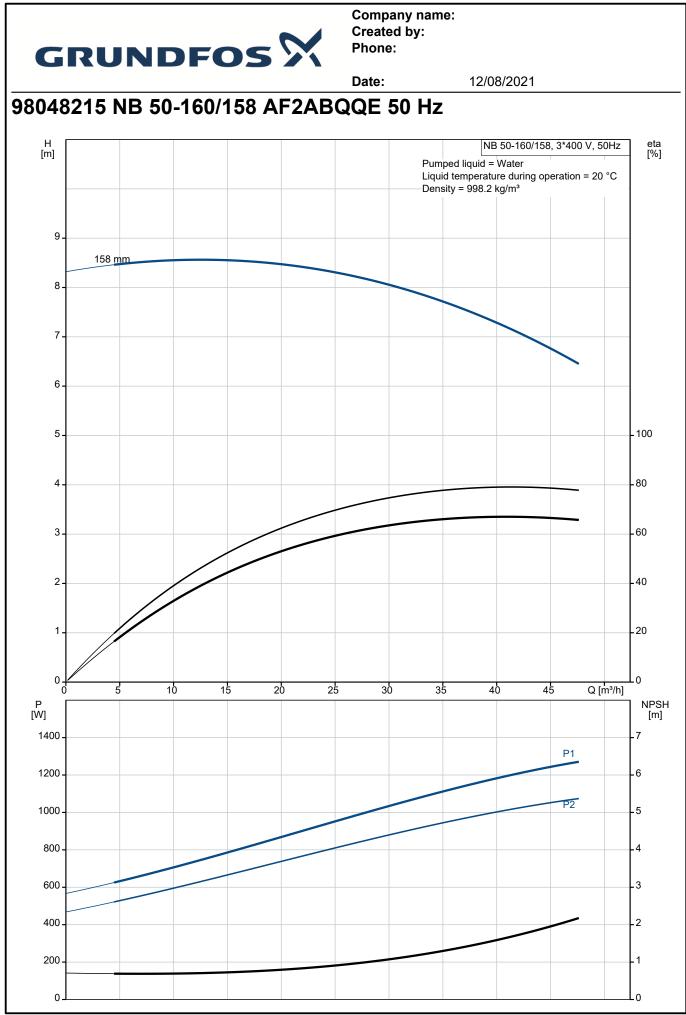
			Date:	12/08/2021		
	Description					
The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electric tolerances comply with IEC 60034.						
	The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.					
The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker we can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the mo (I1/1). 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:	NONE				
	Pressure sensor:	Ν				
	Liquid:					
ļ	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		140 rpm			
	Rated flow:	40.02 m³/h				
	Rated head:	7.2 m				
	Actual impeller diameter:	158 mm				
	Nominal impeller diameter: Shaft seal arrangement:	160 Single				
	Code for shaft seal:	Single BQQE				
	Curve tolerance:	ISO9906:2012	3B2			
	Bearing design:	Standard				
	Materials:					
	Pump housing:	Cast iron				
		EN-GJL-250				
		ASTM class 35				
	Wear ring:	Brass				
	Impeller:	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:	55 °C				
	Maximum operating pressure:	16 bar				
	Pipe connection standard:	EN 1092-2				
	Size of inlet connection:	DN 65				
	Size of outlet connection:	DN 50				

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: 49 kg Gross weight: 59 kg Shipping volume: 0.178 m<sup>3</sup> Country of origin: ΗU Custom tariff no.: 84137051



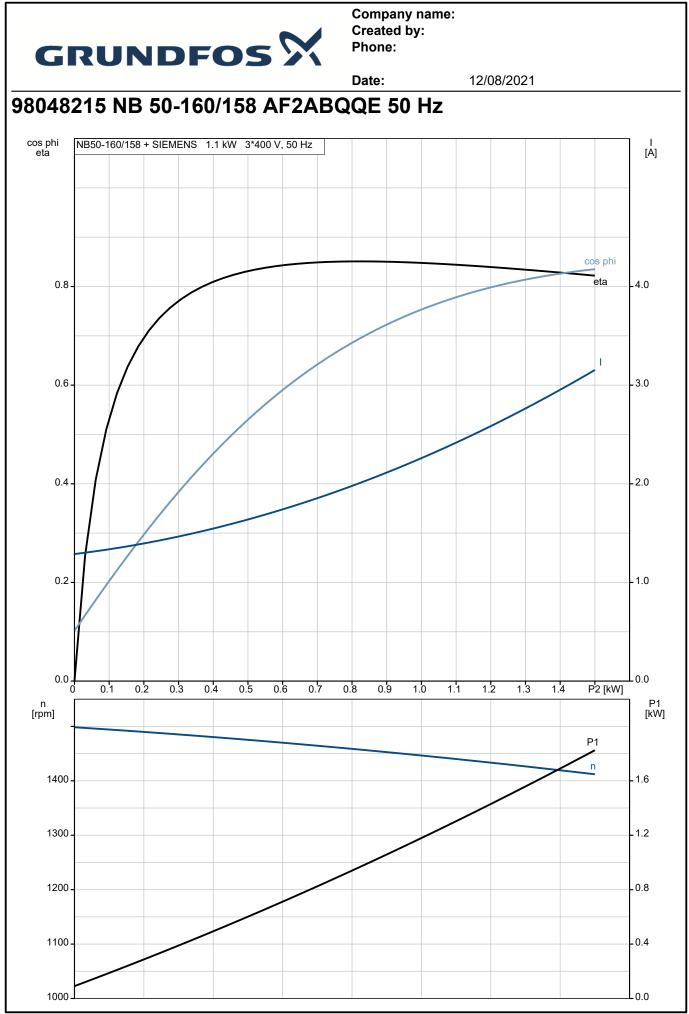


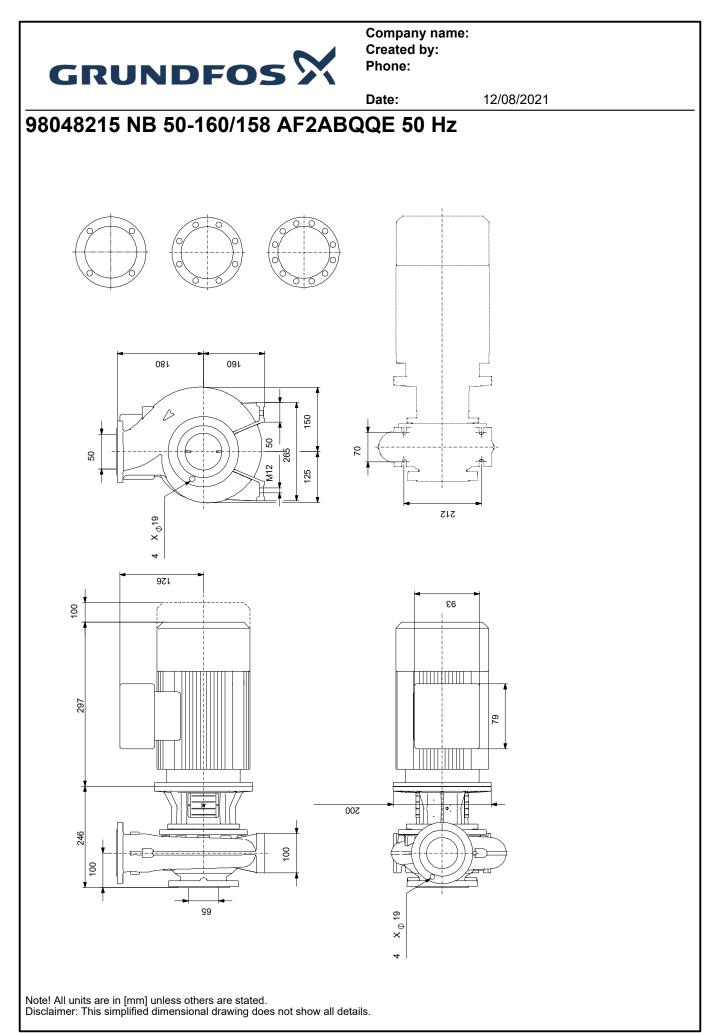
		Date:	12/08/2021
Description	Value	[m]	NB 50-160/158, 3*400 V, 50Hz [9
General information:			Pumped liquid = Water Liquid temperature during operation = 20 °C
Product name:	NB 50-160/158 AF2ABQQE	9 – 158 mm	Density = 998.2 kg/m <sup>3</sup>
Product No:	98048215		
EAN number:	5710628089114	8-	
Price:	GBP 1543	7 -	
Fechnical:		-	
Pump speed on which pump data are based:	1440 rpm	6 -	
Rated flow:	40.02 m³/h	5	100
Rated head:	7.2 m	-	
Actual impeller diameter:	158 mm	4 -	80
Nominal impeller diameter:	160	- 2	
Shaft seal arrangement:	Single	3-	- 60
Shaft diameter:	24 mm	2	40
Code for shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B2	1	- 20
Pump version:	A		
•		0 <u>/                                    </u>	10 15 20 25 30 35 40 Q [m <sup>3</sup> /h]
Bearing design:	Standard	- P [W]	NP
Materials:	Contine	[W]	n) [i
Pump housing:	Cast iron	1200 -	P1 - 6
Pump housing:	EN-GJL-250		
Pump housing:	ASTM class 35	1000 -	P2 5
Wear ring:	Brass	800 -	4
Impeller:	Cast iron	600 -	3
mpeller:	EN-GJL-200	400	2
Impeller:	ASTM class 30		
Shaft:	Stainless steel	200 -	1
Shaft:	EN 1.4301	0	0
Shaft:	AISI 304		
Internal pump house coating:	CED	246	297 # 100
Material code:	A		
Code for rubber:	E		
nstallation:			
Maximum ambient temperature:	55 °C		
Maximum operating pressure:	16 bar		
Pipe connection standard:	EN 1092-2	100	
Size of inlet connection:	DN 65	-	6000
Size of outlet connection:	DN 50	- <u>-</u>	
Pressure rating for connection:	PN 16		
Bearing lubrication:	Grease		
Pump housing with feet:	Yes		
Support block:	Ν		
Connect code:	F2		
Liquid:			
Pumped liquid:	Water		W VOLTAGE DN OF ROTATION
Liquid temperature range:	-25 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m <sup>3</sup>		
Electrical data:			
Motor type:	SIEMENS	╶│  ╀╶╀╴╇╴╙	
E Efficiency class:	IE3		
-			VOLTAGE
Rated power - P2:	1.1 kW		OF ROTATION
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		

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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:	49 kg		
Gross weight:	59 kg		
Shipping volume:	0.178 m³		
Country of origin:	HU		
Custom tariff no.:	84137051		







Date:

12/08/2021

## 98048215 NB 50-160/158 AF2ABQQE 50 Hz

