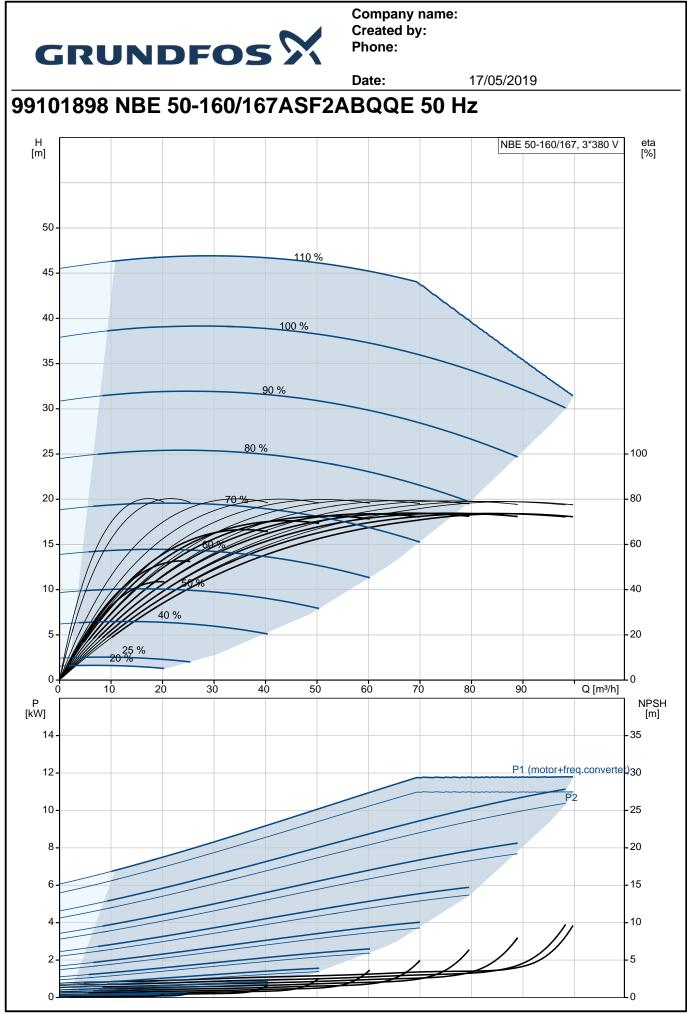
	GRUNDFO		Company r Created by Phone:					
	GRUNDFC)5 21	Date:	17/05/2019				
Qty.	Description							
1	NBE 50-160/167ASF2ABQQE							
	Product No.: 99101898	Note! Product pictur	e may differ from a	ctual product				
	Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).							
	Flanges are PN 16 with dimension port, horizontal shaft and a back without disturbing the pump hous	pull-out design enab	1092-2. The pu ling removal of	mp has an axial suction port, radial discharge the motor, motor stool, cover and impeller				
	The unbalanced rubber bellows s The pump is close-coupled to a f The motor includes a frequency variable control of the motor spec	an-cooled, permane converter and PI cor	nt-magnet sync troller in the mo	hronous motor. otor terminal box. This enables continuously of the performance to a given requirement.				
	Controls: Frequency converter:	Built-in						
	Liquid: Pumped liquid:	Water						
	Liquid temperature range: Selected liquid temperature: Density at selected liquid temper	-25 120 °C 20 °C ature: 998.2 kg/m ³						
	Technical:							
	Pump speed on which pump data	a are based: 2901 i	ma					
	Rated flow:	87.4 m ³ /h	pin					
	Rated head:	32.62 m						
	Actual impeller diameter:	167 mm						
	Nominal impeller diameter:	160 mm						
	Shaft seal arrangement:	Single						
	Code for shaft seal:	BQQE						
	Curve tolerance:	ISO9906:2012 3B						
	Materials:							
	Pump housing:	Cast iron						
		EN-GJL-250						
		ASTM class 35						
	Wear ring:	Brass						
	Impeller:	Cast iron EN-GJL-200 ASTM class 30						
	Shaft:	Stainless steel EN 1.4301 AISI 304						
	Installation:							
	Maximum ambient temperature:	50 °C						
	Maximum operating pressure:	16 bar						
	Pipe connection standard:	EN 1092-2						
	Size of inlet connection:	DN 65						
	Size of outlet connection:	DN 50						

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Rated current:20.3Cos phi - power factor:0.93Rated speed:360Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	kW Hz 380-500 V 3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 5 306732 306732 0.70 5 kg 3 kg 09 m ³	Date:	17/05/	
Pressure rating for pipe connection:Pump housing with feet:NSupport block:YElectrical data:IE Efficiency class:IE5P2:11Mains frequency:50Rated voltage:3 xRated voltage:3 xRated current:20.3Cos phi - power factor:0.93Rated speed:360Efficiency:93.3Motor efficiency at full load:93.3Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	kW Hz 380-500 V 3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 55 306732 306732 3 0.70 5 kg 3 kg 09 m ³			
Pump housing with feet:NSupport block:YElectrical data:IEIE Efficiency class:IE5P2:11Mains frequency:50Rated voltage:3 xRated voltage:3 xRated current:20.3Cos phi - power factor:0.93Rated speed:360Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:913Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	kW Hz 380-500 V 3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 55 306732 306732 3 0.70 5 kg 3 kg 09 m ³			
Support block:YElectrical data:IE Efficiency class:IE5P2:111Mains frequency:501Rated voltage:3 xRated voltage:3 xRated current:20.3Cos phi - power factor:0.93Rated speed:360Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 35):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	kW Hz 380-500 V 3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 55 306732 3 0.70 5 kg 3 kg 09 m ³			
Electrical data:IE Efficiency class:IE5P2:111Mains frequency:501Rated voltage:3 xRated voltage:3 xRated current:20.3Cos phi - power factor:0.93Rated speed:360Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	kW Hz 380-500 V 3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 55 306732 3 0.70 5 kg 3 kg 09 m ³			
IE Efficiency class: IE5 P2: 11 Mains frequency: 50 Rated voltage: 3 x Rated voltage: 3 x Rated current: 20.3 Cos phi - power factor: 0.92 Rated speed: 360 Efficiency: 93.3 Motor efficiency at full load: 93.3 Enclosure class (IEC 34-5): IP5 Insulation class (IEC 35): F Motor No: 993 Others: 993 Minimum efficiency index, MEI ≥: 116 Gross weight: 138 Shipping volume: 0.56 Country of origin: HU	kW Hz 380-500 V 3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 55 306732 3 0.70 5 kg 3 kg 09 m ³			
IE Efficiency class: IE5 P2: 11 Mains frequency: 50 Rated voltage: 3 x Rated voltage: 3 x Rated current: 20.3 Cos phi - power factor: 0.92 Rated speed: 360 Efficiency: 93.3 Motor efficiency at full load: 93.3 Enclosure class (IEC 34-5): IP5 Insulation class (IEC 35): F Motor No: 993 Others: 993 Minimum efficiency index, MEI ≥: 116 Gross weight: 138 Shipping volume: 0.56 Country of origin: HU	kW Hz 380-500 V 3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 55 306732 3 0.70 5 kg 3 kg 09 m ³			
P2: 11 I Mains frequency: 50 I Rated voltage: 3 x Rated current: 20.3 Cos phi - power factor: 0.93 Rated speed: 360 Efficiency: 93. Motor efficiency at full load: 93. Enclosure class (IEC 34-5): IP5 Insulation class (IEC 85): F Motor No: 993 Others: Minimum efficiency index, MEI ≥: Net weight: 116 Gross weight: 138 Shipping volume: 0.56 Country of origin: HU	kW Hz 380-500 V 3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 55 306732 3 0.70 5 kg 3 kg 09 m ³			
Rated voltage:3 xRated current:20.3Cos phi - power factor:0.93Rated speed:360Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	380-500 V 3-16.0 A 3-0.90)-4000 rpm 1% 1 % 55 306732 : 0.70 5 kg 3 kg 09 m ³			
Rated current:20.3Cos phi - power factor:0.93Rated speed:360Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:933Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	3-16.0 A 3-0.90 0-4000 rpm 1% 1 % 55 306732 0.70 5 kg 3 kg 09 m ³			
Cos phi - power factor:0.93Rated speed:360Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	3-0.90)-4000 rpm 1% 1 % 55 306732 6 0.70 5 kg 3 kg 09 m ³			
Rated speed:360Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	0-4000 rpm 1% 1% 55 306732 6 0.70 5 kg 3 kg 09 m ³			
Efficiency:93.Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	1% 1 % 5 306732 6 0.70 5 kg 3 kg 09 m ³			
Motor efficiency at full load:93.Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	1 % 5 306732 5 kg 3 kg 09 m ³			
Enclosure class (IEC 34-5):IP5Insulation class (IEC 85):FMotor No:993Others:993Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	5 306732 5 kg 3 kg 09 m ³			
Insulation class (IEC 85):FMotor No:993Others:993Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	306732 0.70 3 kg 3 kg 09 m ³			
Motor No:993Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	0.70 3 kg 3 kg 09 m³			
Others:Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	0.70 3 kg 3 kg 09 m³			
Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	5 kg 3 kg 09 m³			
Minimum efficiency index, MEI ≥:Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	5 kg 3 kg 09 m³			
Net weight:116Gross weight:138Shipping volume:0.56Country of origin:HU	5 kg 3 kg 09 m³			
Gross weight: 138 Shipping volume: 0.56 Country of origin: HU	3 kg 09 m³			
Shipping volume:0.5Country of origin:HU	09 m ³			
Country of origin: HU				



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Company name: Created by: Phone:

		·		7/05/20			
Description	Value	H [m]			NBE 50-160	0/167, 3*380	V €
General information:		·					
Product name:	NBE 50-160/167ASF2ABQQE	50 -					
Product No:	99101898	45 -		110 %			
EAN number:	5712606791071						
Price:	6.531,00 GBP	40 -		100 %			
Technical:					\sim		
Pump speed on which pump data are based:	2901 rpm	35 -		90 %		\searrow	
Rated flow:	87.4 m³/h	30 -					
Rated head:	32.62 m	25 -	8	0 %			100
Actual impeller diameter:	167 mm	·					
Nominal impeller diameter:	160 mm	20 -	700	4			- 80
Shaft seal arrangement:	Single			an			
Shaft diameter:	24 mm	15-	1/10/1/	Ľ			- 60
Code for shaft seal:	BQQE	10-	MAINT				40
Curve tolerance:	ISO9906:2012 3B		40 %				1 +0
Pump version:	AS	5-					- 20
Materials:			25%				
Pump housing:	Cast iron	0	20 4	10 6	0 80	Q [m³/	<u> </u>
r amp nousing.	EN-GJL-250	P Ĺ	20 4	ю б	080	y (m»)	nj NF
	ASTM class 35	[kW]					ji
Moor ring:	Brass				D1	(motor+freq.	oonvorto
Wear ring: Impeller:	Cast iron	12 -				(IIIOIOI+IIEq.	COLL 30CI
impener.	EN-GJL-200	10 -				₽2	- 25
		8 -					- 20
0. (ASTM class 30					-	
Shaft:	Stainless steel	6-				·	- 15
	EN 1.4301	4-					- 10
	AISI 304	2				///	- 5
Material code:	A						
Code for rubber:	E	0					<u> </u>
Installation:							
Maximum ambient temperature:	50 °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 pipe connection:	PN 16						
Pump housing with feet:	Ν						
Support block:	Υ						
Connect code:	F2						
Liquid:							
Pumped liquid:	Water						
Liquid temperature range:	-25 120 °C						
Selected liquid temperature:	20 °C						
Density at selected liquid temperature:	998.2 kg/m³						
Electrical data:							
IE Efficiency class:	IE5						
P2:	11 kW						
Mains frequency:	50 Hz						
Rated voltage:	3 x 380-500 V						
Rated current:	20.3-16.0 A						
Cos phi - power factor:	0.93-0.90						
Rated speed:	360-4000 rpm						
Efficiency:	93.1%						
Motor efficiency at full load:	93.1 %						
Enclosure class (IEC 34-5):	IP55						
Insulation class (IEC 85):	F						

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		Date:	17/05/2019
Description	Value		
Motor No:	99306732		
Mount. design. acc. IEC 34-7:	IM B35		
Controls:			
Control panel:	HMI300 - Advanced		
Function Module:	300		
Frequency converter:	Built-in		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	116 kg		
Gross weight:	138 kg		
Shipping volume:	0.509 m ³		
Country of origin:	HU		
Custom tariff no.:	84137051		

