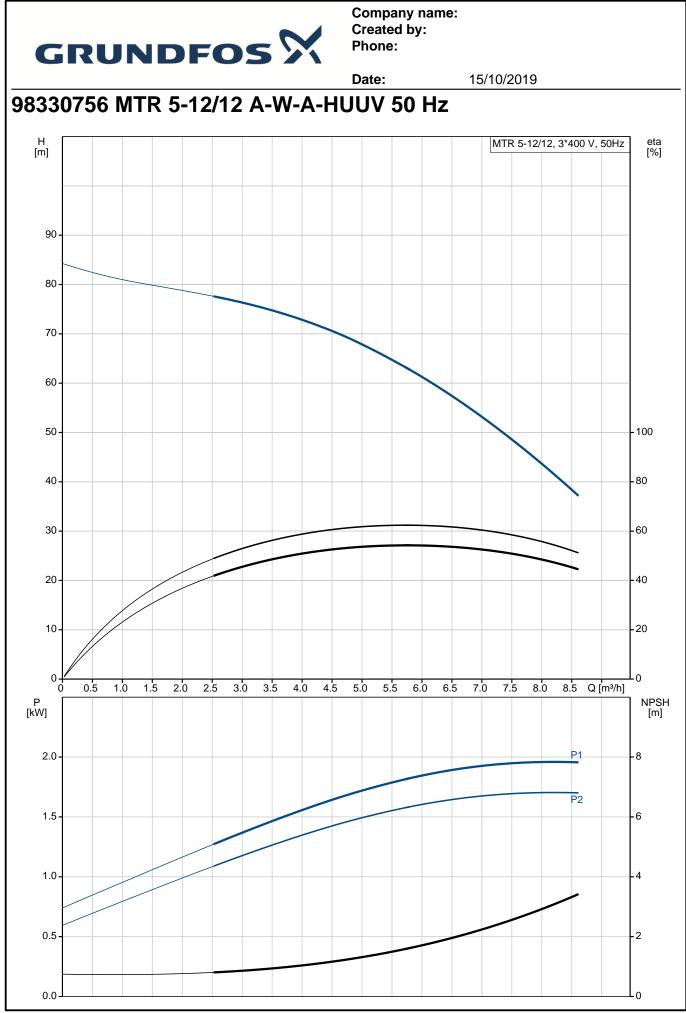
	GRUNDFOS		Company name: Created by: Phone:			
			Date:	15/10/2019		
у.	Description					
1	MTR 5-12/12 A-W-A-HUUV					
		Note! Product pictur	re may differ from a	ctual product		
	Product No.: 98330756					
	The pump head and base are in The pump has the following cha Installation length accord Impellers, intermediate of Mechanical shaft seal ac	<ul> <li>Impellers, intermediate chambers and spline shaft are made of Stainless steel.</li> <li>Mechanical shaft seal according to EN 12756.</li> </ul>				
	A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. The pump is fitted with a 3-phase, fan-cooled asynchronous motor.					
	The pump is fitted with a 3-pha			access and service.		
				access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid:	se, fan-cooled asyncł		access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid:	se, fan-cooled asyncł NONE Water		access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range:	se, fan-cooled asyncł NONE Water -10 90 °C		access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature:	NONE Water -10 90 °C 20 °C	nronous motor.	access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid temperature	NONE Water -10 90 °C 20 °C	nronous motor.	access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid tempo Technical:	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup>	nronous motor.	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid temperature	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup>	nronous motor.	access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid tempo Technical: Pump speed on which pump da	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899	nronous motor.	access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid temperature: Density at selected liquid temperature Technical: Pump speed on which pump date Rated flow:	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h	nronous motor.	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid temperature: Density at selected liquid temperature: Pump speed on which pump da Rated flow: Rated head: Chambers: Drainage back to tank:	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h 61.8 m	nronous motor.	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liqui	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h 61.8 m 12 N Vertical	nronous motor.	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liquid temperature: Density at selected liquid temperature: Pump speed on which pump da Rated flow: Rated head: Chambers: Drainage back to tank: Pump orientation: Code for shaft seal:	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h 61.8 m 12 N Vertical HUUV	nronous motor.	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liqui	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h 61.8 m 12 N Vertical	nronous motor.	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liqui	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h 61.8 m 12 N Vertical HUUV ISO9906:2012 3B	nronous motor.	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liqui	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h 61.8 m 12 N Vertical HUUV ISO9906:2012 3B Cast iron EN 1561 EN-GJL-2 ASTM A48-25B	rpm	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liqui	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h 61.8 m 12 N Vertical HUUV ISO9906:2012 3B Cast iron EN 1561 EN-GJL-2	rpm	v access and service.		
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density at selected liqui	NONE Water -10 90 °C 20 °C erature: 998.2 kg/m <sup>3</sup> ata are based: 2899 5.8 m <sup>3</sup> /h 61.8 m 12 N Vertical HUUV ISO9906:2012 3B Cast iron EN 1561 EN-GJL-2 ASTM A48-25B Stainless steel EN 1.4301	rpm	v access and service.		



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			Date:	15/10/2019	
y.	Description				
	Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of outlet connection: Immersion depth:	25 bar 25 bar / 90 °C G 1 1/4 inch 439 mm			
	Flange size for motor:	FT115			
	Electrical data: Motor standard:	IEC			
	Motor type: IE Efficiency class: Rated power - P2:	90LC IE3 2.2 kW			
	Mains frequency: Rated voltage: Rated current:	50 Hz 3 x 380-415D V 4.45 A			
	Starting current: Cos phi - power factor: Rated speed:	850-950 % 0.89-0.87 2890-2910 rpm			
	Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load:	IE3 85,9% 85.9 % 86.8 % 86.0 %			
	Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85): Motor No:	2 55 Dust/Jetting F 85U15908			
	Others:	<u> </u>			
	Terminal box position: Minimum efficiency index, MEI Net weight: Gross weight:	28.5 kg 32.1 kg			
	Shipping volume: Country of origin: Custom tariff no.:	0.08 m³ HU 84137075			





## Company name: Created by: Phone:

		Date:	15/10	/2019	
Description General information:	Value	H [m]		MTR 5-12/12, 3*400 V, 50Hz	eta [%]
Product name:	MTR 5-12/12 A-W-A-HUUV	90 -			
Product No:	98330756				
EAN number:	5711493119180	80 -			1
	5711493119180	70 -			
Price:	1.521,00 GBP				
Technical:		60 -			
Pump speed on which pump data are based:	2899 rpm	50 -			- 100
Rated flow:	5.8 m³/h	40			
Rated head:	61.8 m	40 -			- 80
Chambers:	12	30 -			- 60
Impellers:	12	_			
Number of reduced-diameter impellers:	0	20 -			- 40
Drainage back to tank:	Ν				
Pump orientation:	Vertical	10 -			- 20
Code for shaft seal:	HUUV				Lo
Curve tolerance:	ISO9906:2012 3B	0 1	2 3 4	5 6 7 Q [m³/h]	_
Pump version:	A	P [kW]			NPSH [m]
Model:	Α	2.0		P1	-8
Materials:					
Pump head:	Cast iron	1.5		P2	-6
	EN 1561 EN-GJL-200	_			
	ASTM A48-25B	1.0			-4
Impeller:	Stainless steel				
	EN 1.4301	0.5			-2
	AISI 304				
Material code:	A	0.0			Lo
Installation:		<b>t</b>			
Maximum ambient temperature:	60 °C	178	-		
Maximum operating pressure:	25 bar		-		
Max pressure at stated temp:	25 bar / 90 °C	N			
Type of connection:	G	4			
Size of outlet connection:	1 1/4 inch	140			
Immersion depth:	439 mm				
Flange size for motor:	FT115	4 3	4 x • 7.5		
Connect code:	W	•140.	J		
Liquid:		0160	-		
Pumped liquid:	Water				
Liquid temperature range:	-10 90 °C		<b>∫</b> ≆		
Selected liquid temperature:	20 °C	to the second se			
Density at selected liquid temperature:	998.2 kg/m³	_ **	G 1 1/4		
Electrical data:					
Motor standard:	IEC		OW VOLTAGE		
Motor type:	90LC		OW VOLTAGE TION OF ROTATION		
IE Efficiency class:	IE3				
Rated power - P2:	2.2 kW				
Mains frequency:	50 Hz				
Rated voltage:	3 x 380-415D V	_│ ┦┦┦	(U1) $(V1)$ $(W1)$		
Rated current:	4.45 A				
Starting current:	850-950 %		L1 L2 L3		
Cos phi - power factor:	0.89-0.87		I VOLTAGE N OF ROTATION		
Rated speed:	2890-2910 rpm		]		
Efficiency:	IE3 85,9%		┍┯╾┿╾┿		
Motor efficiency at full load:	85.9 %		(ws+ns+ns)		
Motor efficiency at 3/4 load:	86.8 %	▏▕▌▋▋	(U1) (V1) (W1)		
Motor efficiency at 1/2 load:	86.0 %		<u>TTT</u>	_	
Number of poles:	2		L1 L2 L3		

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Date: 15/10/2019 Description Value Enclosure class (IEC 34-5): 55 Dust/Jetting F Insulation class (IEC 85): Motor protec: NONE Motor No: 85U15908 Controls: Frequency converter: NONE Others: Terminal box position: 6 Minimum efficiency index, MEI : 0.57 Net weight: 28.5 kg Gross weight: 32.1 kg Shipping volume: 0.08 m<sup>3</sup> Country of origin: HU Custom tariff no .: 84137075

