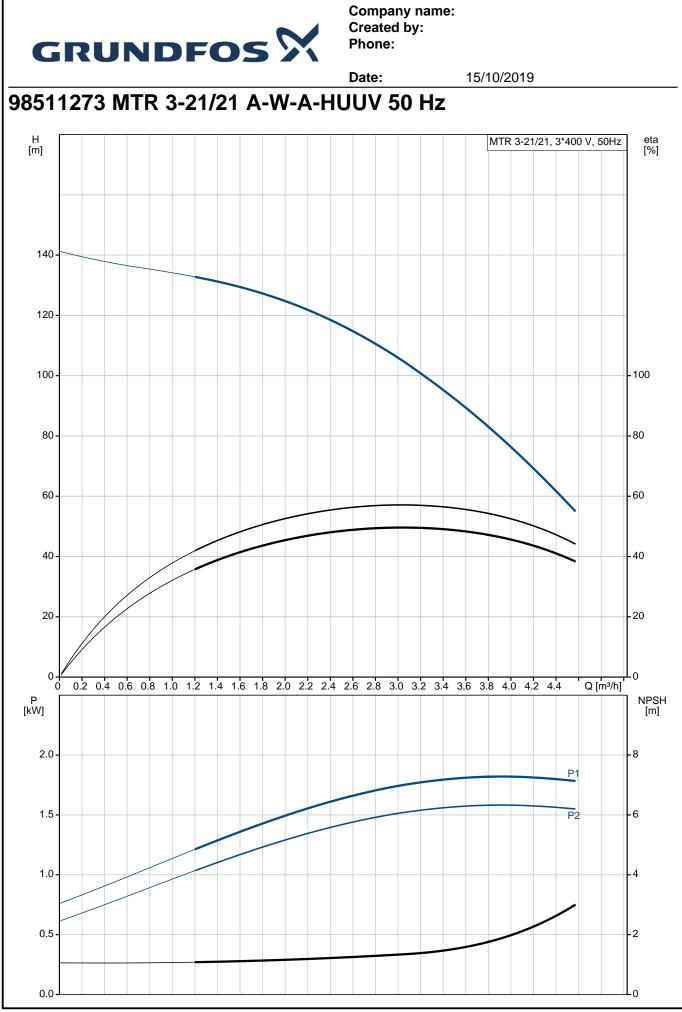
	GRUNDF	os X	Company na Created by: Phone:		
			Date:	15/10/2019	
.	Description				
	MTR 3-21/21 A-W-A-HUUV				
ĺ		Note! Product pictu	ire may differ from ac	tual product	
	Product No.: 98511273		.,	<b>.</b>	
	Multistage, immersible, self-prir The pump head and base are in The pump has the following cha Installation length accord Impellers, intermediate of Mechanical shaft seal ac Power transmission via	n cast iron – all other aracteristics: ding to DIN 5440. chambers and spline ccording to EN 12756	wetted parts are shaft are made of 5.	in stainless steel.	
	A cartridge shaft seal ensures h The pump is fitted with a 3-pha	nigh reliability, safe h	andling, and easy	access and service.	
	The pump is fitted with a 3-pha Controls:	nigh reliability, safe h se, fan-cooled async	andling, and easy	access and service.	
	The pump is fitted with a 3-pha Controls: Frequency converter:	nigh reliability, safe h	andling, and easy	access and service.	
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid:	nigh reliability, safe h se, fan-cooled async NONE	andling, and easy	access and service.	
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid:	nigh reliability, safe h se, fan-cooled async NONE Water	andling, and easy	access and service.	
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid: Liquid temperature range:	nigh reliability, safe h se, fan-cooled async NONE	andling, and easy	access and service.	
	The pump is fitted with a 3-pha Controls: Frequency converter: Liquid: Pumped liquid:	nigh reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C	andling, and easy hronous 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	nigh reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C	andling, and easy hronous 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 Technical:	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m	andling, and easy hronous 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	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m	andling, and easy hronous 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 da Rated flow: Rated head:	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899	andling, and easy hronous 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 da Rated flow: Rated head: Chambers:	high reliability, safe h se, fan-cooled async NONE Vater -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m³/h 103.6 m 21	andling, and easy hronous 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: Pump speed on which pump da Rated flow: Rated head: Chambers: Drainage back to tank:	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m³/h 103.6 m 21 N	andling, and easy hronous 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: Pump speed on which pump da Rated flow: Rated head: Chambers: Drainage back to tank: Pump orientation:	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m³/h 103.6 m 21 N Vertical	andling, and easy hronous 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: Pump speed on which pump da Rated flow: Rated head: Chambers: Drainage back to tank: Pump orientation: Code for shaft seal:	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m³/h 103.6 m 21 N Vertical HUUV	andling, and easy hronous 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: Pump speed on which pump da Rated flow: Rated head: Chambers: Drainage back to tank: Pump orientation:	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m³/h 103.6 m 21 N Vertical	andling, and easy hronous 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 liqui	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m³/h 103.6 m 21 N Vertical HUUV ISO9906:2012 3B	andling, and easy hronous 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 liqui	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m³/h 103.6 m 21 N Vertical HUUV	andling, and easy hronous 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 liqui	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m³/h 103.6 m 21 N Vertical HUUV ISO9906:2012 3B Cast iron EN 1561 EN-GJL-2	andling, and easy hronous 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 liqui	high reliability, safe h se, fan-cooled async NONE Water -10 90 °C 20 °C erature: 998.2 kg/m ata are based: 2899 3 m <sup>3</sup> /h 103.6 m 21 N Vertical HUUV ISO9906:2012 3B Cast iron EN 1561 EN-GJL-2 ASTM A48-25B Stainless steel EN 1.4301	andling, and easy hronous motor.	access and service.	



Company name: Created by: Phone:

		Date:	15/10/2019
<u> </u>	Description		
	Maximum operating pressure:	25 bar	
	Max pressure at stated temp:	25 bar / 90 °C	
	Type of connection:	G	
	Size of outlet connection:	1 1/4 inch	
	Immersion depth:	502 mm	
	Flange size for motor:	FT115	
	Electrical data:		
	Motor standard:	IEC	
	Motor type:	90LC	
	IE Efficiency class:	IE3	
	Rated power - P2:	2.2 kW	
	Mains frequency:	50 Hz	
	Rated voltage:	3 x 220-240D/380-415Y V	
	Rated current:	7.70/4.45 A	
	Starting current:	850-950 %	
	Cos phi - power factor:	0.89-0.87	
	Rated speed:	2890-2910 rpm	
	Efficiency:	IE3 85,9%	
	Motor efficiency at full load:	85.9 %	
		86.8 %	
	Motor efficiency at 3/4 load:		
	Motor efficiency at 1/2 load:	86.0 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5):	55 Dust/Jetting	
	Insulation class (IEC 85):	F	
	Motor No:	85U05908	
	Others:		
	Terminal box position:	6	
	Minimum efficiency index, MEI		
	Net weight:	28.3 kg	
	Gross weight:	32.3 kg	
	Shipping volume:	0.1 m <sup>3</sup>	
	Country of origin:	HU	
	Custom tariff no.:	84137075	





## Company name: Created by: Phone:

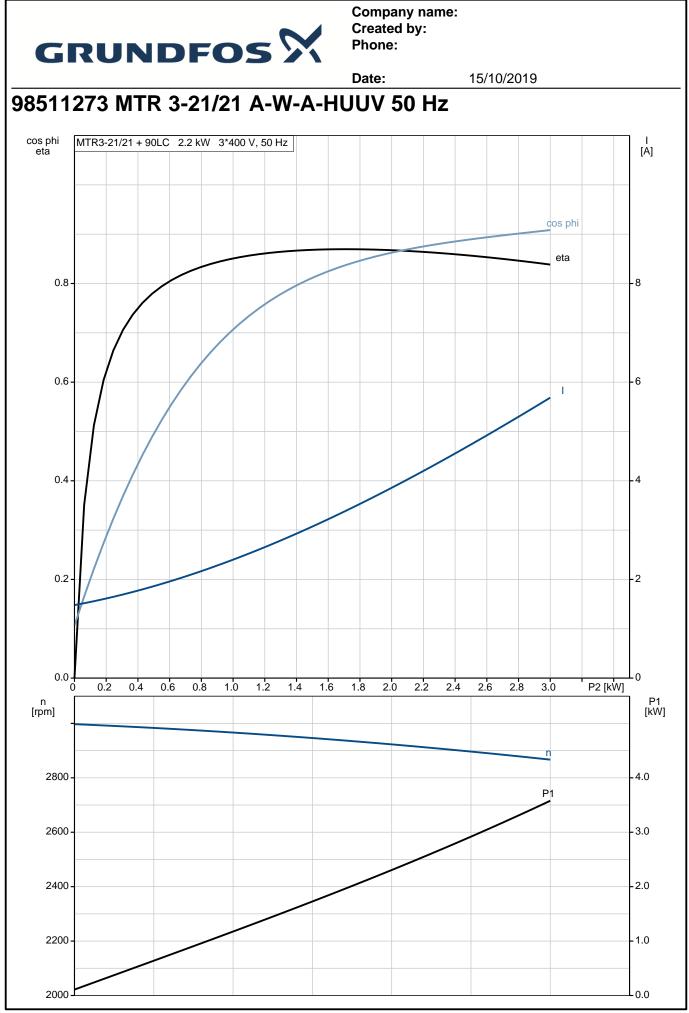
		<b>Date:</b> 15/10/2019	
Description	Value	H [m] MTR 3-21/21, 3*400 V, 50Hz	z eta [%]
General information:			
Product name:	MTR 3-21/21		
	A-W-A-HUUV	140 -	
Product No:	98511273		
EAN number:	5711496360435	120	
	5711496360435		
Price:	1.616,00 GBP	100-	100
Technical:			Γ
Pump speed on which pump data are based:	2899 rpm	80	80
Rated flow:	3 m³/h		
Rated head:	103.6 m	60 -	60
Chambers:	21		
Impellers:	21	40	40
Number of reduced-diameter impelle			-10
Drainage back to tank:	N	20-	_ 20
Pump orientation:	Vertical		[20
Code for shaft seal:	HUUV		
Curve tolerance:	ISO9906:2012 3B	0	
Pump version:	A	P [kW]	NPSH [m]
Model:	A	2.0	-8
Materials:		2.0 P1	۲°
Pump head:	Cast iron	1.5	- 6
	EN 1561 EN-GJL-200	1.5 P2	۲°
	ASTM A48-25B	1.0	4
Impeller:	Stainless steel		<b>[</b> <sup>4</sup>
	EN 1.4301	0.5	-2
	AISI 304		-
Material code:	А	0.0	
Installation:		ŧ	
Maximum ambient temperature:	60 °C	178	
Maximum operating pressure:	25 bar		
Max pressure at stated temp:	25 bar / 90 °C		
Type of connection:	G		
Size of outlet connection:	1 1/4 inch		
Immersion depth:	502 mm		
Flange size for motor:	FT115	8 <u>4 x • 7.5</u>	
Connect code:	W		
Liquid:			
Pumped liquid:	Water	<mark>●180 ↓</mark> . 162 .	
Liquid temperature range:	-10 90 °C		
Selected liquid temperature:	20 °C		
Density at selected liquid temperature	e: 998.2 kg/m <sup>3</sup>	G 1 1/4	
Electrical data:			
Motor standard:	IEC		
Motor type:	90LC	LOW VOLTAGE DIRECTION OF ROTATION	
IE Efficiency class:	IE3		
Rated power - P2:	2.2 kW		
Mains frequency:	50 Hz	$(\mathbb{M}_5)$ $(\mathbb{N}_5)$ $(\mathbb{N}_5)$	
Rated voltage:	3 x 220-240D/380-415Y		
Rated current:	V 7.70/4.45 A		
Starting current:	850-950 %		
Cos phi - power factor:		HIGH VOLTAGE DIRECTION OF ROTATION	
Rated speed:	0.89-0.87 2890-2910 rpm		
Efficiency:			
-	IE3 85,9%		
Motor efficiency at full load:	85.9 %		
Motor efficiency at 3/4 load:	86.8 %		
Motor efficiency at 1/2 load:	86.0 %		

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Company name: Created by: Phone:

		Date:	
Description	Value		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	NONE		
Motor No:	85U05908		
Controls:			
Frequency converter:	NONE		
Others:			
Terminal box position:	6		
Minimum efficiency index, MEI :	0.70		
Net weight:	28.3 kg		
Gross weight:	32.3 kg		
Shipping volume:	0.1 m <sup>3</sup>		
Country of origin:	HU		
Custom tariff no.:	84137075		



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