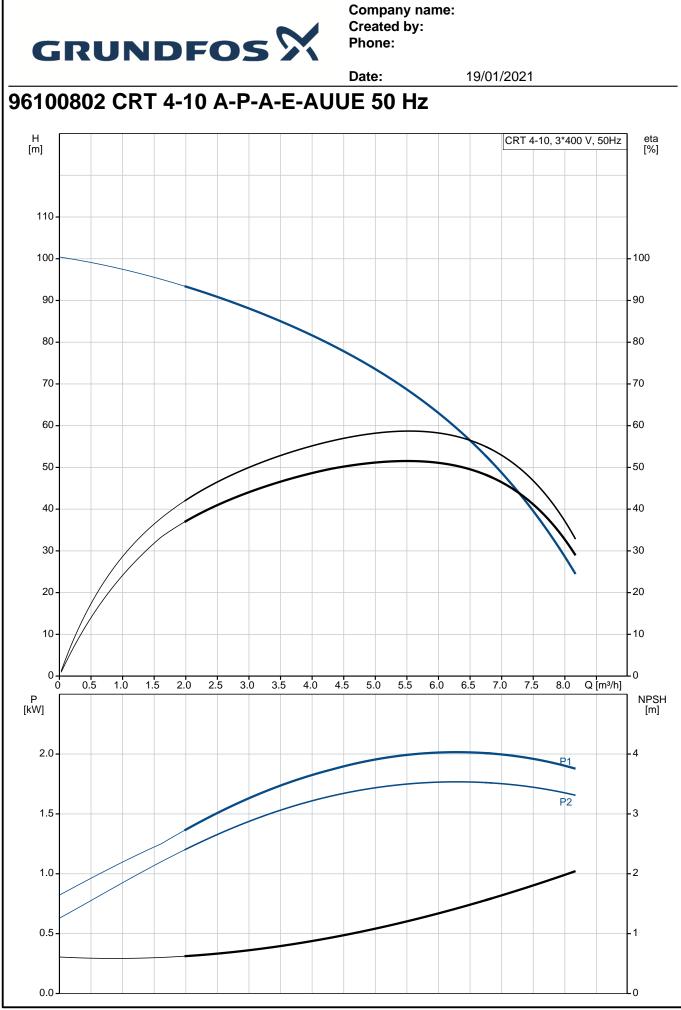
	GRUNDFO	<b>5</b> 5%	Company name Created by: Phone:	:		
			Date:	19/01/2021		
Qty.	Description					
1	CRT 4-10 A-P-A-E-AUUE					
	Product No.: 96100802 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.					
	The pump has the following char - Impellers, intermediate ch					
	Impeller:	sleeve are made of 1		6 <b>T</b> ite a i and		
	Pump housing: - The shaft seal has assem	- Pump head cover a bly length	ind base are made o	of Litanium.		
<ul> <li>The shaft seal has assembly length according to EN 12756.</li> <li>Power transmission is via cast iron split coupling.</li> </ul>						
	Flange standard: flanges/couplings.	- Pipework connectio	n is via PJE			
	Phase:	The motor is a 3-pha	se AC motor.			
	Liquid:					
	Pumped liquid:	Water				
	Liquid temperature range:	-20 120 °C				
	Selected liquid temperature: Density:	20 °C 998.2 kg/m³				
	Technical:					
	Pump speed on which pump dat Rated flow:	a are based: 2900 rp 6 m³/h	om			
	Rated head:	63.2 m				
	Primary shaft seal:	AUUE				
	Approvals on nameplate:	CE,TR				
	Curve tolerance:	ISO9906:2012 3B				
	Materials:					
	Pump housing:	Titanium				
	Impeller:	ASTM B 265 Titanium ASTM B 265				
	Bush material:	NONE				
	Installation:					
	Maximum ambient temperature: Max pressure at stated temp:	25 bar / 120 °C				
	Flange standard:	25 bar / -20 °C PJE				
	Pipe connection:	42,4 mm				
	Flange size for motor:	FT115				
	Electrical data:					
	from Crundfos Product Contro 12020					



Description           Wotor type:         90LE           E Efficiency class:         IE3           Stated power -P2:         2.2 kW           >ower (P2) required by pump:         2.2 kW           Attas frequency:         5.0 Hz           Stated power - P2:         2.2 kW           Attas dvoltage:         3.x 220-240D/380-415Y V           Stated power actor:         8.004 60 N           Starting current:         8.004 60 S           Stated speed :         2.880-2210 rpm           Efficiency at full load:         85.9 -5.9 %           Motor efficiency at full load:         85.9 -5.9 %           Motor efficiency at full load:         88.0 *           Sinclosure class (IEC 34-5):         55           Foldosure class (IEC 34-5):         F           Motor Michael (IC 35):         F           Motor No:         8501900           Subultation class (IEC 34-5):         F           Vetor No:         8501900           Deters:         Winimum efficiency index, MEI & W* 0.7           Vet weight:         39.7 kg	Description	Da	te:	19/01/2021	
E Efficiency class:IE3Rated power - P2:2.2 kWPower (P2) required by pump:2.2 kWPower (P2) required by pump:2.2 kWPower (P2) required by pump:2.2 kWVains frequency:50 HzRated voltage:3 x 220-240D/380-415Y VRated current:8.00/4.60 AStarting current:840-920 %Cos phi - power factor:0.86-0.80Rated speed:2890-2910 rpmEfficiency:IE3 85,9%Motor efficiency at full load:85.9-85.9 %Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/Jettingnsulation class (IEC 85):FMotor No:85U01908Dthers:0.7Net weight:34.7 kg					
Rated power - P2: $2.2 \text{ kW}$ Power (P2) required by pump: $2.2 \text{ kW}$ Power (P2) required by pump: $2.2 \text{ kW}$ Mains frequency: $50 \text{ Hz}$ Rated voltage: $3 \times 220-240D/380-415Y \text{ V}$ Rated current: $8.00/4.60 \text{ A}$ Starting current: $840-920 \%$ Cos phi - power factor: $0.86-0.80$ Rated speed: $2890-2910 \text{ rpm}$ Efficiency:IE3 85,9%Motor efficiency at full load: $85.9-85.9 \%$ Motor efficiency at $1/2 \text{ load:}$ $88.0 \%$ Number of poles: $2$ Enclosure class (IEC 34-5): $55 \text{ Dust/Jetting}$ nsulation class (IEC 85):FMotor No: $85U01908$ Others: $9.7 \text{ kg}$	Motor type:				
Power (P2) required by pump: $2.2 \text{ kW}$ $2.2 \text{ kW}$ Mains frequency: $50 \text{ Hz}$ Rated voltage: $3 \times 220-240D/380-415 \text{ V}$ Rated current: $8.00/4.60 \text{ A}$ Starting current: $840-920 \%$ Cos phi - power factor: $0.86-0.80$ Rated speed: $2890-2910 \text{ rpm}$ Efficiency:IE3 85,9%Motor efficiency at full load: $85.9-85.9 \%$ Motor efficiency at $3/4 \text{ load:}$ $88.2 \%$ Motor efficiency at $1/2 \text{ load:}$ $88.0 \%$ Number of poles: $2$ Enclosure class (IEC 34-5): $55 \text{ Dust/Jetting}$ nsulation class (IEC 85):FMotor No: $85U01908$ Others: $0.7$ Minimum efficiency index, MEI $\hat{a}\% \neq : 0.7$ Net weight: $34.7 \text{ kg}$					
2.2 kWMains frequency:50 HzRated voltage: $3 \times 220-240D/380-415Y V$ Rated current: $8.00/4.60 A$ Starting current: $840-920 \%$ Cos phi - power factor: $0.86-0.80$ Rated speed: $2890-2910 rpm$ Efficiency:IE3 85,9%Motor efficiency at full load: $85.9-85.9 \%$ Motor efficiency at $3/4$ load: $88.2 \%$ Motor efficiency at $1/2$ load: $88.0 \%$ Number of poles: $2$ Enclosure class (IEC 34-5): $55 Dust/Jetting$ nsulation class (IEC 85):FMotor No: $85U01908$ Others: $0.7$ Net weight: $34.7 kg$					
2.2 kWMains frequency:50 HzRated voltage: $3 \times 220-240D/380-415Y V$ Rated current: $8.00/4.60 A$ Starting current: $840-920 \%$ Cos phi - power factor: $0.86-0.80$ Rated speed: $2890-2910 rpm$ Efficiency:IE3 85,9%Motor efficiency at full load: $85.9-85.9 \%$ Motor efficiency at $3/4$ load: $88.2 \%$ Motor efficiency at $1/2$ load: $88.0 \%$ Number of poles: $2$ Enclosure class (IEC 34-5): $55 Dust/Jetting$ nsulation class (IEC 85):FMotor No: $85U01908$ Others: $0.7$ Net weight: $34.7 kg$	Power (P2) required by pump:	2.2 kW			
Mains frequency:       50 Hz         Rated voltage:       3 x 220-240D/380-415Y V         Rated current:       8.00/4.60 A         Starting current:       840-920 %         Cos phi - power factor:       0.86-0.80         Rated speed:       2890-2910 rpm         Efficiency:       IE3 85,9%         Motor efficiency at full load:       85.9-85.9 %         Motor efficiency at 3/4 load:       88.2 %         Motor efficiency at 1/2 load:       88.0 %         Number of poles:       2         Enclosure class (IEC 34-5):       55 Dust/Jetting         nsulation class (IEC 85):       F         Motor No:       85U01908         Others:       0.7         Vet weight:       34.7 kg		2.2 kW			
Rated voltage: $3 \times 220-240D/380-415Y V$ Rated current: $8.00/4.60 A$ Starting current: $840-920 \%$ Cos phi - power factor: $0.86-0.80$ Rated speed: $2890-2910 rpm$ Efficiency:IE3 85,9%Motor efficiency at full load: $88.2 \%$ Motor efficiency at $3/4$ load: $88.2 \%$ Motor efficiency at $1/2$ load: $88.0 \%$ Number of poles: $2$ Enclosure class (IEC 34-5): $55$ Dust/Jettingnsulation class (IEC 85):FMotor No: $85U01908$ Others: $0.7$ Minimum efficiency index, MEI $\hat{a}\%$ ¥: $0.7$	Mains frequency:				
Rated current: $8.00/4.60$ AStarting current: $840-920$ %Cos phi - power factor: $0.86-0.80$ Rated speed: $2890-2910$ rpmEfficiency:IE3 85,9%Motor efficiency at full load: $85.9-85.9$ %Motor efficiency at $3/4$ load: $88.2$ %Motor efficiency at $1/2$ load: $88.0$ %Number of poles: $2$ Enclosure class (IEC 34-5): $55$ Dust/Jettingnsulation class (IEC 85):FMotor No: $85U01908$ Others: $0.7$ Net weight: $34.7$ kg			/		
Starting current: $840-920 \%$ Cos phi - power factor: $0.86-0.80$ Rated speed: $2890-2910 \text{ rpm}$ Efficiency:IE3 85,9%Motor efficiency at full load: $85.9-85.9 \%$ Motor efficiency at $3/4 \text{ load}$ : $88.2 \%$ Motor efficiency at $1/2 \text{ load}$ : $88.0 \%$ Number of poles: $2$ Enclosure class (IEC 34-5): $55 \text{ Dust/Jetting}$ nsulation class (IEC 85):FMotor No: $85U01908$ Others: $0.7$ Net weight: $34.7 \text{ kg}$			V		
Cos phi - power factor: $0.86-0.80$ Rated speed: $2890-2910$ rpmEfficiency:IE3 85,9%Motor efficiency at full load: $85.9-85.9$ %Motor efficiency at 3/4 load: $88.2$ %Motor efficiency at 1/2 load: $88.0$ %Number of poles:2Enclosure class (IEC 34-5):55 Dust/Jettingnsulation class (IEC 85):FMotor No: $85U01908$ Others: $85U01908$ Others: $34.7$ kg					
Rated speed:2890-2910 rpmEfficiency:IE3 85,9%Motor efficiency at full load:85.9-85.9 %Motor efficiency at 3/4 load:88.2 %Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/Jettingnsulation class (IEC 85):FMotor No:85U01908Others:0.7Vet weight:34.7 kg					
Efficiency:IE3 85,9%Motor efficiency at full load:85.9-85.9 %Motor efficiency at 3/4 load:88.2 %Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/Jettingnsulation class (IEC 85):FMotor No:85U01908Others:0.7Net weight:34.7 kg					
Motor efficiency at full load:85.9-85.9 %Motor efficiency at 3/4 load:88.2 %Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/Jettingnsulation class (IEC 85):FMotor No:85U01908Others:0.7Net weight:34.7 kg					
Motor efficiency at 3/4 load:       88.2 %         Motor efficiency at 1/2 load:       88.0 %         Number of poles:       2         Enclosure class (IEC 34-5):       55 Dust/Jetting         nsulation class (IEC 85):       F         Motor No:       85U01908         Others:       0.7         Net weight:       34.7 kg					
Motor efficiency at 3/4 load:       88.2 %         Motor efficiency at 1/2 load:       88.0 %         Number of poles:       2         Enclosure class (IEC 34-5):       55 Dust/Jetting         nsulation class (IEC 85):       F         Motor No:       85U01908         Others:       0.7         Net weight:       34.7 kg	Motor efficiency at full load:	85.9-85.9 %			
Motor efficiency at 1/2 load:       88.0 %         Number of poles:       2         Enclosure class (IEC 34-5):       55 Dust/Jetting         nsulation class (IEC 85):       F         Motor No:       85U01908         Others:       Minimum efficiency index, MEI ≥:       0.7         Net weight:       34.7 kg	Motor efficiency at 3/4 load:				
Number of poles:       2         Enclosure class (IEC 34-5):       55 Dust/Jetting         nsulation class (IEC 85):       F         Motor No:       85U01908         Others:       Vinimum efficiency index, MEI ≥:       0.7         Net weight:       34.7 kg					
Enclosure class (IEC 34-5): 55 Dust/Jetting nsulation class (IEC 85): F Motor No: 85U01908 Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 34.7 kg					
nsulation class (IEC 85): F Motor No: 85U01908 Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 34.7 kg					
Motor No: 85U01908 Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 34.7 kg					
Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 34.7 kg					
Minimum efficiency index, MEI ≥: 0.7 Net weight:               34.7 kg	Motor No:	85U01908			
Minimum efficiency index, MEI ≥: 0.7 Net weight:               34.7 kg					
Net weight: 34.7 kg					
Sross weight: 39.7 kg					
	Gross weight:	39.7 kg			



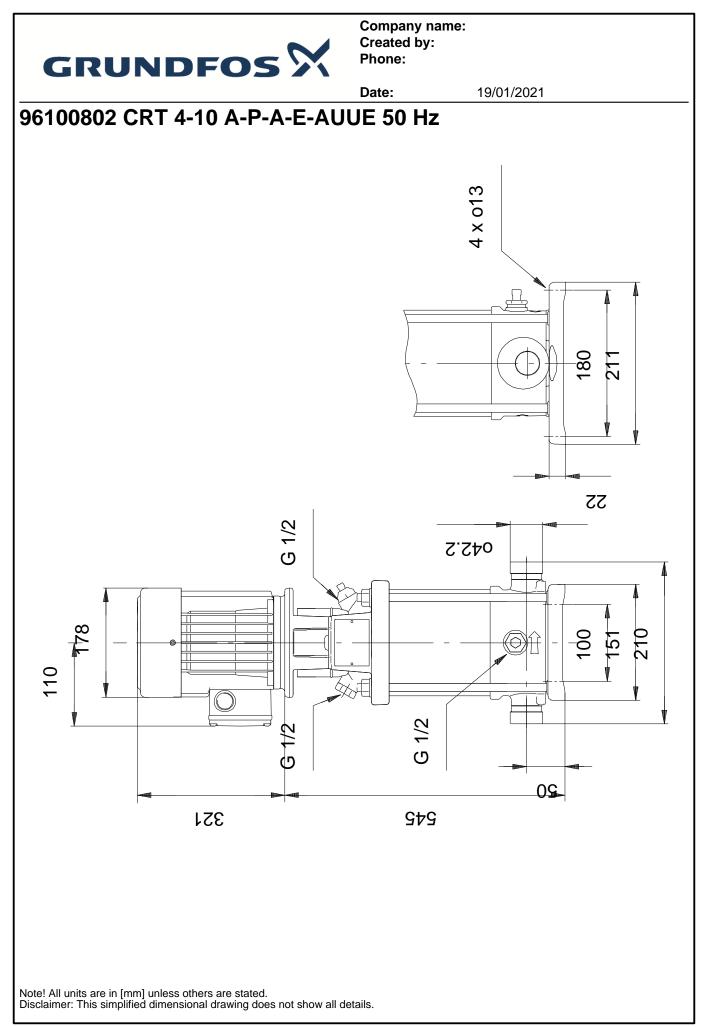


		Date:	19/01/20	21	
Description	Value	H [m]		CRT 4-10, 3*400 V	, 50Hz eta [%]
General information:	Tuluo -				[,0]
Product name:	CRT 4-10 A-P-A-E-AUUE	110 -			
Draduat No.		100-			- 100
Product No: EAN number:	96100802 5700395849271				
Price:	5700395849271	90 -			- 90
Technical:		80 -			- 80
Pump speed on which pump data are		70 -			- 70
based:	2900 rpm				
Rated flow:	6 m³/h	60 -			- 60
Rated head:	63.2 m	50 -			- 50
Maximum head:	101 m	40			40
Head max:	101 m	TO			$\mathbf{N}$
Stages:	12	30 -			- 30
Impellers:	10	20-			- 20
Primary shaft seal:	AUUE				
Approvals on nameplate:	CE,TR	10-			- 10
Curve tolerance:	ISO9906:2012 3B	o /			0
Pump version:	A		3 4	5 6 7 Q	[m <sup>3</sup> /h]
Model:	А	P [kW]			NPSI [m]
Materials:		2.0 -		P	4
Pump housing:	Titanium				
Pump housing:	ASTM B 265	1.5		P	2 3
Impeller:	Titanium				
Impeller:	ASTM B 265	1.0			- 2
Material code:	A				
Code for rubber:	E	0.5 -			- 1
Bush material:	NONE				
Installation:		0.0			Lo
Maximum ambient temperature:	60 °C				
Max pressure at stated temp:	25 bar / 120 °C	110 178			
Max pressure at stated temp:	25 bar / -20 °C				
Flange standard:	PJE				
Pipe connection:	42,4 mm				
Flange size for motor:	FT115				
Connect code:	Р	G 1/2 G 1/2	-		
Liquid:					
Pumped liquid:	Water		~	П	
Liquid temperature range:	-20 120 °C	<sup>5</sup> <sup>5</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup>	l i		
Selected liquid temperature:	20 °C		ୡ୲୷	4 x o13	
Density:	998.2 kg/m <sup>3</sup>				
Electrical data:			N 180		
Motor type:	90LE		211		
IE Efficiency class:	IE3	210			
Rated power - P2:	2.2 kW	LOW VOLTAGE	E	٦	
Power (P2) required by pump:	2.2 kW	LOW VOLTAGE DIRECTION OF ROT			
Power (P2) required by pump:	2.2 kW		1		
Mains frequency:	50 Hz		2 (v2)		
Rated voltage:	3 x 220-240D/380-415Y V				
Rated current:	8.00/4.60 A				
Starting current:	840-920 %		13		
Cos phi - power factor:	0.86-0.80	HIGH VOLTAGE DIRECTION OF ROTATI	ON	]	
Rated speed:	2890-2910 rpm				
Efficiency:	IE3 85,9%				
Motor efficiency at full load:	85.9-85.9 %	<b>₽ ₽ ₽ №</b> 2-0	2-12		
Motor efficiency at 3/4 load:	88.2 %				
Motor efficiency at 1/2 load:	88.0 %				
Number of poles:	2		L3 🕒	1	

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		Date:	19/01/2021	
Description	Value			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protec:	NONE			
Motor No:	85U01908			
Others:				
Minimum efficiency index, MEI ≥:	0.7			
Net weight:	34.7 kg			
Gross weight:	39.7 kg			





19/01/2021

## 96100802 CRT 4-10 A-P-A-E-AUUE 50 Hz

