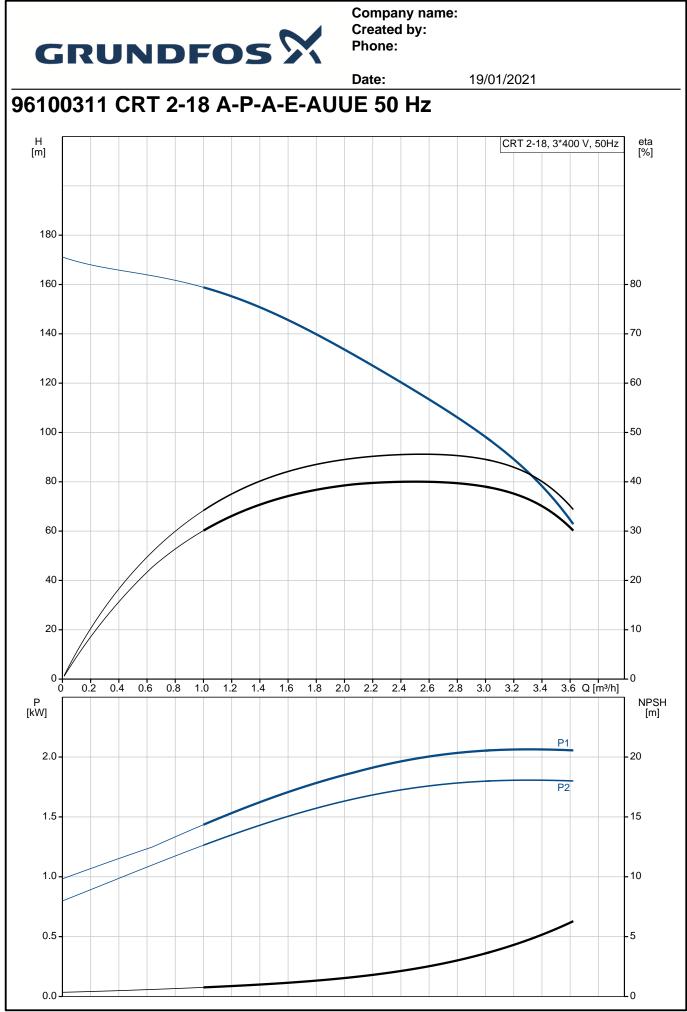
	GRUNDFO	<b>5</b> 5%	Company nam Created by: Phone:	ne:	
			Date:	19/01/2021	
Qty.	Description				
1	CRT 2-18 A-P-A-E-AUUE				
	Product No.: 96100311 Vertical, non-self-priming, multist centrifugal pump for installation i and mounting on a foundation.				
	The pump has the following char - Impellers, intermediate ch				
	Impeller:	sleeve are made of 7			
	Pump housing: - The shaft seal has assem according to EN 12756.		and base are made	of Titanium.	
	<ul> <li>Power transmission is via coupling.</li> </ul>	cast iron split			
	Flange standard: flanges/couplings.	- Pipework connection	on is via PJE		
	Phase:	The motor is a 3-pha	se AC motor.		
	Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature:	Water -20 120 °C 20 °C			
	Density:	998.2 kg/m³			
	Technical:	h 0000 m			
	Pump speed on which pump dat Rated flow:	2.5 m <sup>3</sup> /h	סווו		
	Rated head:	104 m			
	Primary shaft seal:	AUUE			
	Approvals on nameplate: Curve tolerance:	CE,TR 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:	60 °C 25 bar / 120 °C 25 bar / -20 °C			
	Flange standard:	PJE			
	Pipe connection: Flange size for motor:	42,4 mm FT115			
	Electrical data:				
	from Grundfos Product Contro [2020 :				



Rated power - P2: $2.2 \text{ kW}$ 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 $3/4 \text{ load:}$ $88.2 \%$ Motor efficiency at $1/2 \text{ load:}$ $88.0 \%$ Number of poles: $2$ Enclosure class (IEC 34-5): $55 \text{ Dust/Jetting}$ Insulation class (IEC 85):FMotor No: $85U01908$ Others:Minimum efficiency index, MEI $a\% *$ :0.7Net weight: $36.9 \text{ kg}$	Motor type:         90LE           IE Efficiency class:         IE3           Rated power - P2:         2.2 kW           Power (P2) required by pump:         2.2 kW           Rated voltage:         3 x 220-240D/380-415Y V           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:         88.2 %           Motor efficiency at 1/2 load:         88.0 %           Number of poles:         2           Enclosure class (IEC 34-5):         55 Dust/Jetting           Insulation class (IEC 45):         F           Motor No:         85U01908           Others:         Minimum efficiency index, MEI 剥:           Minimum efficiency index, MEI 剥:         0.7           Net weight:         36.9 kg	Motor type:         90LE           IE Efficiency class:         IE3           Rated power - P2:         2.2 kW           Power (P2) required by pump:         2.2 kW           Rated voltage:         3 x 220-240D/380-415Y V           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:         88.2 %           Motor efficiency at 1/2 load:         88.0 %           Number of poles:         2           Enclosure class (IEC 34-5):         55 Dust/Jetting           Insulation class (IEC 45):         F           Motor No:         85U01908           Others:         Minimum efficiency index, MEI 剥:           Minimum efficiency index, MEI 剥:         0.7           Net weight:         36.9 kg	Description	Date:	
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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:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 345):FMotor No: $85U01908$ Others:Minimum efficiency index, MEI ≥:Minimum efficiency index, MEI ≥: $0.7$ Net weight: $36.9 kg$	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:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 345):FMotor No: $85U01908$ Others:Minimum efficiency index, MEI ≥:Minimum efficiency index, MEI ≥: $0.7$ Net weight: $36.9 kg$	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:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 345):FMotor No: $85U01908$ Others:Minimum efficiency index, MEI ≥:Minimum efficiency index, MEI ≥: $0.7$ Net weight: $36.9 kg$		2.2 kW	
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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/JettingInsulation class (IEC 85):FMotor No: $85U01908$ Others:Nimimum efficiency index, MEI ≥:Minimum efficiency index, MEI ≥: $0.7$ Net weight: $36.9$ kg	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/JettingInsulation class (IEC 85):FMotor No: $85U01908$ Others:Nimimum efficiency index, MEI ≥:Minimum efficiency index, MEI ≥: $0.7$ Net weight: $36.9$ kg	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/JettingInsulation class (IEC 85):FMotor No: $85U01908$ Others:Nimimum efficiency index, MEI ≥:Minimum efficiency index, MEI ≥: $0.7$ Net weight: $36.9$ 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/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.736.9 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/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.736.9 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/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.736.9 kg			
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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/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 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/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 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/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 kg			
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Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 kg	Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 kg	Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 kg	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/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 kg	Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 kg	Motor efficiency at 1/2 load:88.0 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Minimum efficiency index, MEI ≥:0.7Net weight:36.9 kg	Motor efficiency at 3/4 load:	88.2 %	
Number of poles:       2         Enclosure class (IEC 34-5):       55 Dust/Jetting         Insulation class (IEC 85):       F         Motor No:       85U01908         Others:       Volume         Minimum efficiency index, MEI ≥:       0.7         Net weight:       36.9 kg	Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:85U01908Others:Others:Vinimum efficiency index, MEI ≥: 0.7Net weight:36.9 kg	Number of poles:       2         Enclosure class (IEC 34-5):       55 Dust/Jetting         Insulation class (IEC 85):       F         Motor No:       85U01908         Others:       Volume         Minimum efficiency index, MEI ≥:       0.7         Net weight:       36.9 kg			
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Motor No: 85U01908 Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg	Motor No: 85U01908 Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg	Motor No: 85U01908 Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg			
Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg	Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg	Others: Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg			
Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg	Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg	Minimum efficiency index, MEI ≥: 0.7 Net weight: 36.9 kg	MOLOF NO:	85001908	
Net weight: 36.9 kg	Net weight: 36.9 kg	Net weight: 36.9 kg	Others:		
Net weight: 36.9 kg	Net weight: 36.9 kg	Net weight: 36.9 kg	Minimum efficiency index, MEI	≥: 0.7	
			Net weight:	36.9 kg	



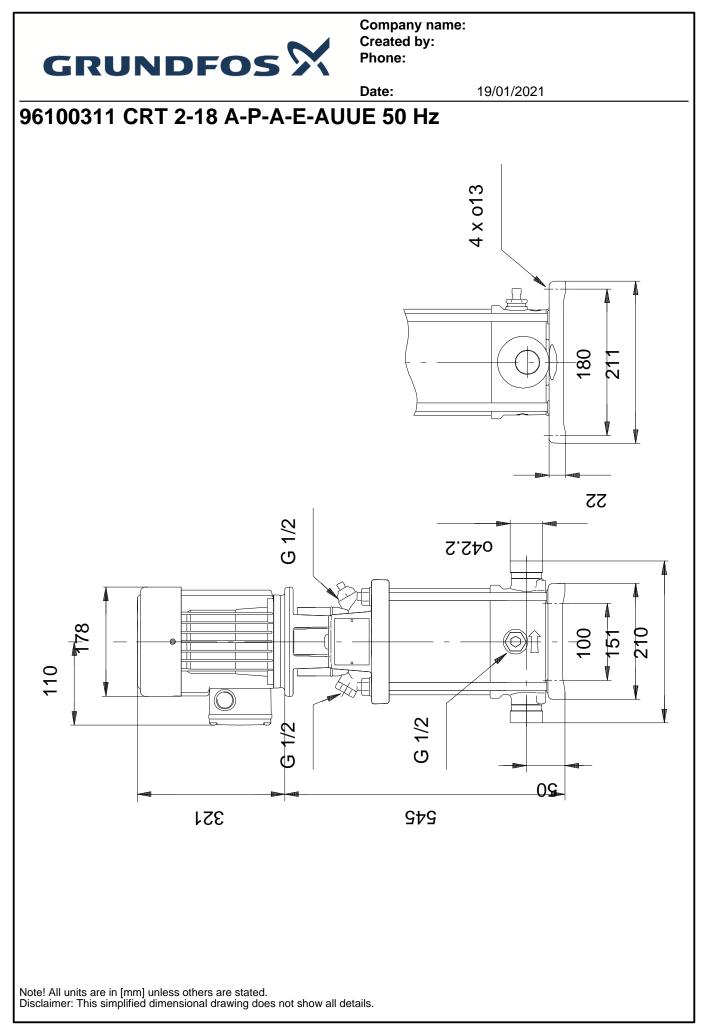


		Date:	19/01	/2021		
Description	Value	H [m]		CRT 2-18, 3*	400 V, 50Hz	eta [%]
General information:						
Product name:	CRT 2-18 A-P-A-E-AUUE	180 -				
Product No:						
	96100311	160 -				- 80
EAN number:	5700395842692					
Price:		140 -				- 70
Technical:		120 -				- 60
Pump speed on which pump data are based:	2900 rpm	120 -				- 00
Rated flow:	2.5 m³/h	100 -				- 50
Rated head:	104 m	80 -				- 40
Maximum head:	169 m	80 -				- 40
Head max:	169 m	60 -			Ň	- 30
Stages:	18					
Impellers:	18	40 -	/			- 20
Primary shaft seal:	AUUE					
Approvals on nameplate:	CE,TR	20 -				- 10
Curve tolerance:	ISO9906:2012 3B					
Pump version:	A	0 1 0.5	5 1.0 1.5	2.0 2.5 3.0	Q [m³/h]	-0
Model:	A	P				NPSH
Model. Materials:	n	[kW]			P1	[m]
	Titanium	2.0 -				- 20
Pump housing:					P2	
Pump housing:	ASTM B 265	1.5 -				- 15
	Titanium					
Impeller:	ASTM B 265	1.0				- 10
Material code:	A					
Code for rubber:	E	0.5 -				- 5
Bush material:	NONE					
Installation:		0.0				-0
Maximum ambient temperature:	60 °C	110				
Max pressure at stated temp:	25 bar / 120 °C	178				
Max pressure at stated temp:	25 bar / -20 °C		_			
Flange standard:	PJE					
Pipe connection:	42,4 mm					
Flange size for motor:	FT115		LJ			
Connect code:	Р	G 1/2	G 1/2			
Liquid:			k			
Pumped liquid:	Water		$\overline{}$	T		
Liquid temperature range:	-20 120 °C	\$5 G 1/2		-		
Selected liquid temperature:	20 °C		042.2	4 x o13		
Density:	998.2 kg/m <sup>3</sup>					
Electrical data:			711 777			
Motor type:	90LE	100		211		
E Efficiency class:	IE3	210				
Rated power - P2:	2.2 kW					
Power (P2) required by pump:	2.2 kW		LOW VOLTAGE			
Power (P2) required by pump:	2.2 kW					
Mains frequency:	50 Hz					
Rated voltage:	3 x 220-240D/380-415Y					
Rated current:	8.00/4.60 A					
Starting current:	840-920 %		L1 L2 L3	¢		
-	0.86-0.80		GH VOLTAGE			
Cos phi - power factor:			GH VOLTAGE ON OF ROTATION			
Rated speed:	2890-2910 rpm					
Efficiency:	IE3 85,9%					
Motor efficiency at full load:	85.9-85.9 %		(ws-ns-(s))			
Motor efficiency at 3/4 load:	88.2 %	│ ♥♥♥	(U1) (V1) (W1)			
Motor efficiency at 1/2 load:	88.0 %		<u> </u>	_		
Number of poles:	2		L1 L2 L3			

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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:	36.9 kg			
Gross weight:	41.9 kg			





Date:

19/01/2021

## 96100311 CRT 2-18 A-P-A-E-AUUE 50 Hz

