Current transformers

	Current transformers		
Types	**CTD 1Z**	**CTD 2Z**	**CTD 3Z**
Dimensions HxWxD (mm)	76 x 44 x 31	86 x 56 x 42	99 x 75 x 45
Input specifications			
	Current transformer 1-phase AC	Current transformer 1-phase AC	Current transformer 1-phase AC
Operating frequency	48 to 62 Hz	48 to 62 Hz	48 to 62 Hz
Max. system voltage	0.72 kV	0.72 kV	0.72 kV
Rated insulation level	3 kV / 1 min @ 50 Hz	3 kV / 1 min @ 50 Hz	3 kV / 1 min @ 50 Hz
Security factor	≤ 5	≤ 5	≤ 5
Output specifications			
Secondary current	5 A	5 A	5 A
General specifications			
Class	1 / 3	0.5 / 1 / 3	0.5 / 1 / 3
Bus-bar size (mm) [diameter]	[22]	30 x 10 / 25 x 20 [28]	40 x 10 / 30 x 20 / 25 x 25 [33]
Standards	EN 61869-2	EN 61869-2	EN 61869-2

Primary current

Accuracy class depending on the burden of the secondary circuit

Burden (VA)				Burden (VA)				Burden (VA)			
Class	0.5	1	3	Class	0.5	1	3	Class	0.5	1	3
50 A			1.5	40 A			2.5	100 A	1.5		
60 A		1.5		50 A			2.5	150 A	1.5		
75 A		1.5		100 A	2.5			200 A	1.5		
80 A		1.5		150 A	2.5			250 A	2.5		
100 A		2.5		200 A	3.75			300 A	2.5		
125 A		2.5		250 A	5			400 A	5		
150 A		2.5		300 A	5			500 A	5		
200 A		3.75		400 A	5			600 A	5		
250 A		3.75		500 A	5						
300 A		3.75		600 A	5						

References

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Current transformers

Current transformers

Types	TADK	TADK2	CTD 1X	CTD 2X
Dimensions HxWxD (mm)	115.5 x 75 x 44	115.5 x 75 x 44	66 x 46 x 30	86 x 56 x 42
Input specifications				
	Current transformer 1-phase AC	Current transformer 1-phase AC	Current transformer 1-phase AC	Current transformer 1-phase AC
Operating frequency	48 to 62 Hz	48 to 62 Hz	48 to 62 Hz	48 to 62 Hz
Max. system voltage	0.72 kV	0.72 kV	0.72 kV	0.72 kV
Rated insulation level	3 kV/1 min @ 50 Hz	3 kV/1 min @ 50 Hz	3 kV/1 min @ 50 Hz	3 kV/1 min @ 50 Hz
Security factor	≤ 5	≤ 5	≤ 5	≤ 5
Output specifications				
Secondary current	5 A standard (1 A on request)	5 A standard (1 A on request)	5 A 1 A	5 A 1 A
General specifications				
Class	0.5	0.5	0.5 / 1 / 3	0.5 / 1 / 3
Bus-bar size (mm) [diameter]	no (wounded primary)	25 x 5 (fixed bar)	20 x 5 [23]	32 x 5 / 30 x 10 / 25 x 20 / 25 x 12 [24]
Standards	IEC 60185	IEC 60185	EN 60044-1, cURus (*)	EN 60044-1, cURus (*)

Primary current

Accuracy class depending on the burden of the secondary circuit

Burden (VA)				Burden (VA)				Burden (VA)				Burden (VA)			
Class	0.5	1	3	Class	0.5	1	3	Class	0.5	1	3	Class	0.5	1	3
1 A	10			1 A	10			50 A		1	1.25	40 A			1.25
5 A	10			5 A	10			60 A		1	1.25	50 A			1.5
10 A	10			10 A	10			70 A		1.5	1.75	60 A			2
15 A	10			15 A	10			75 A	1	1.25	1.75	70 A			2.5
25 A	10			25 A	10			80 A	1.25	1.5	2	75 A		1.75	2.5
40 A	10			40 A	10			100 A	1.5	1.75	2.25	80 A		2	2.75
				50 A	10			120 A	1.75	2	2.5	100 A		2.5	3
				60 A	10			125 A	2	2.25	2.75	120 A		2.75	3.75
				80 A	10			150 A	2.25	2.5	3	125 A	2	2.75	3.75
				100 A	10			160 A	2.5	2.75	3.25	150 A	3	4	5
				150 A	10			200 A	3	3.25	3.75	160 A	3	4	5
				200 A	10			250 A	4.5	4.75	5.25	200 A	4	5	6.5
				250 A	10			300 A	5	5.5	6	250 A	5.5	7	8
												300 A	7	8.5	9.5
												400 A	12	13.5	14.5
												500 A	14	15.5	16.5
												600 A	17.5	19	20

References

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Current transformers

Current transformers

Types	CTD 3X	CTD 4X	CTD 8V CTD 8H	CTD 8Q
Dimensions HxWxD (mm)	109 x 77 x 42	113 x 90 x 42	133 x 87 x 40 104 x 117 x 40	144 x 129 x 40

Input specifications

	Current transformer 1-phase AC	Current transformer 1-phase AC	Current transformer 1-phase AC	Current transformer 1-phase AC
Operating frequency	48 to 62 Hz	48 to 62 Hz	48 to 62 Hz	48 to 62 Hz
Max. system voltage	0.72 kV	0.72 kV	0.72 kV	0.72 kV
Rated insulation level	3 kV/1 min @ 50 Hz	3 kV/1 min @ 50 Hz	3 kV/1 min @ 50 Hz	3 kV$_{RMS}$, 50 Hz, 1min
Security factor	≤ 5	≤ 5	≤ 5	≤ 5

Output specifications

Secondary current	5 A 1 A	5 A 1 A	5 A 1 A	5 A 1 A

General specifications

Class	0.5 / 1 / 3	0.5 / 1 / 3 / 5P5	0.5 / 1 / 3	0.5
Bus-bar size (mm) [diameter]	51 x 15 / 40 x 20 / 32 x 32 / 40 x 20 [41]	64 x 20 / 51 x 43 / [51]	80 X 30	55 x 100
Standards	EN 60044-1, cURus (*)	EN 60044-1, cURus (*)	EN 60044-1, cURus (*)	EN 60044-1

Primary current

Accuracy class depending on the burden of the secondary circuit

Burden (VA)				Burden (VA)				Burden (VA)				Burden (VA)	
Class	0.5	1	3	Class	0.50	1	3	Class	0.5	1	3	Class	0.5
50 A			1.75	150 A		2.5	5	150 A			2	1000 A	15
60 A			2	200 A		3.25	6	200 A			4	1500 A	15
70 A			2.25	250 A	2.5	4.5		250 A			5	2000 A	15
75 A			3	300 A	3	4		300 A		2	6	2500 A	15
80 A			3	400 A	6	9		400 A	3	5	8	3000 A	15
100 A		2	3.5	500 A	10	12.5		500 A	5	7	10	4000 A	15
120 A		2.25	4	600 A	11	13.5		600 A	6	10	12		
125 A		2.5	4.5	700 A	12.5	15		700 A	6	10	12		
150 A	2.25	3	6	750 A	13	15.5		750 A	8	12	15		
160 A	2.5	3.5	6.5	800 A	14	16.5		800 A	8	12	15		
200 A	3	4.5	8.5	1000 A	17.5	20		1000 A	10	15	20		
250 A	3.5	6.5	10.5	1200 A	20	22.5		1200 A	12	15	20		
300 A	7	10	13	1250 A	20	22.5		1250 A	12	15	20		
400 A	9	14	17	1500 A	27.5	30		1500 A	15	20	25		
500 A	14	18	21	1600 A	27.5	30		1600 A	15	20	25		
600 A	17	21	24					2000 A	20	25	30		
700 A	22	26	29					2500 A	25	30	40		
750 A	24	28	31										
800 A	25	29	32										

References

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Current transformers

Current transformers

Types	CTD 9V CTD 9H	CTD 10V CTD 10H	CTD 11V CTD 11H	CTD 12V CTD 12H
Dimensions HxWxD (mm)	178 x 92 x 40 109 x 162 x 40	178 x 107 x 40 124 x 162 x 40	178 x 98 x 40 115x160x40	178 x 125 x 40 140 x 157 x 40
Input specifications				
	Current transformer 1-phase AC	Current transformer 1-phase AC	Current transformer 1-phase AC	Current transformer 1-phase AC
Operating frequency	48 to 62 Hz	48 to 62 Hz	48 to 62 Hz	48 to 62 Hz
Max. system voltage	0.72 kV	0.72 kV	0.72 kV	0.72 kV
Rated insulation level	3 kV / 1 min @ 50 Hz	3 kV / 1 min @ 50 Hz	3 kVRMS, 50 Hz	3 kVRMS, 50 Hz
Security factor	≤ 5	≤ 5	≤ 5	≤ 5
Output specifications				
Secondary current	5 A 1 A	5 A 1 A	5 A 1 A	5 A 1 A
General specifications				
Class	0.5 / 1 / 3	0.5 / 1 / 3	0.5	0.5
Bus-bar size (mm)	125 x 35	125 x 50	125 x 37	125 x 53
Standards	EN 60044-1, cURus (*)	EN 60044-1, cURus (*)	EN 60044-1	EN 60044-1

Primary current

Accuracy class depending on the burden of the secondary circuit

	Burden (VA)			Burden (VA)				Burden (VA)		Burden (VA)	
Class	0.5	1	3	Class	0.50	1	3	Class	0.5	Class	0.5
400 A		3	6	400 A	1	7	10	1000 A	15	1000 A	15
500 A	2	4	8	500 A	3	10	14	1500 A	15	1500 A	15
600 A	4	6	10	600 A	5	12	17	2000 A	15	2000 A	15
700 A	4	8	10	700 A	8	15	20	2500 A	15	2500 A	15
750 A	4	8	10	750 A	10	15	20	3000 A	15	3000 A	15
800 A	4	8	10	800 A	10	15	20	4000 A	15	4000 A	15
1000 A	6	10	13	1000 A	12	20	25				
1200 A	8	12	15	1200 A	15	25	30				
1250 A	8	12	15	1250 A	15	25	30				
1500 A	10	15	18	1500 A	20	30	40				
1600 A	10	15	18	1600 A	20	30	40				
2000 A	15	20	24	2000 A	25	40	50				
2500 A	20	25	30	2500 A	30	50	60				
3000 A	25	30	35	3000 A	30	50	60				
3200 A	25	30	35	3200 A	30	50	60				

References

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Current transformers

Split core current transformers

Types	CTD 5S	CTD 6S	CTD 8S
Dimensions HxWxD (mm)	94 x 83 x 40	114 x 107 x 40	133 x 87 x 40
Input specifications			
	Split core current transformer 1-phase AC	Split core current transformer 1-phase AC	Split core current transformer 1-phase AC
Operating frequency	48 to 62 Hz	48 to 62 Hz	48 to 62 Hz
Max. system voltage	0.72 kV	0.72 kV	0.72 kV
Rated insulation level	3 kV_{RMS}, 50 Hz, 1min	3 kV_{RMS}, 50 Hz, 1min	3 kV_{RMS}, 50 Hz, 1min
Security factor	≤ 5	≤ 5	≤ 5
Output specifications			
Secondary current	5 A 1 A	5 A 1 A	5 A 1 A
General specifications			
Class	1	1	1
Bus-bar size (mm)	27 x 32	52 x 51	81 x 31
Standards	EN 60044-1, cURus (*)	EN 60044-1, cURus (*)	EN 60044-1, cURus (*)

Primary current

Accuracy class depending on the burden of the secondary circuit

Burden (VA)			Burden (VA)			Burden (VA)		
Class	1	3	Class	1	3	Class	1	3
100 A		1.5	150 A		1.5	150 A		1.5
125 A	1.5	1.5	200 A	1.5	2	200 A		1.5
150 A	1.5	2.5	250 A	1.5	3.75	250 A		2
200 A	1.5	5	300 A	1.5	5	300 A		2
250 A	1.5	5	400 A	2.5	5	400 A	3	5
300 A	2.5	7.5	500 A	5	10	500 A	5	7
400 A	5	10	600 A	7.5	15	600 A	6	10
			700 A	7.5	15	700 A	6	10
			750 A	7.5	15	750 A	8	12
			800 A	10	15	800 A	8	12
			1000 A	10	15	1000 A	10	15
						1200 A	12	15
						1250 A	12	15
						1500 A	15	20
						1600 A	15	20
						2000 A	20	25
						2500 A	25	30

References

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Current transformers

	Split core current transformers		Active current sensor
Types	**CTD 9S**	**CTD 10S**	**ROG 400**
Dimensions HxWxD (mm)	178 x 92 x 40	178 x 107 x 40	54 x 29 x 17
Input specifications			
	Split core current transformer 1-phase AC	Split core current transformer 1-phase AC	Split core AC current sensor 1-phase AC
Operating frequency	48 to 62 Hz	48 to 62 Hz	45 to 65 Hz
Max. system voltage	0.72 kV	0.72 kV	
Rated insulation level	3 kVRMS, 50 Hz, 1min	3 kVRMS, 50 Hz, 1min	3 kVRMS, 50 Hz
Security factor	≤ 5	≤ 5	
Output specifications			
Secondary current	5 A 1 A	5 A 1 A	4 to 20 mA DC
General specifications			
Class	1	1	
Bus-bar size (mm) [diameter]	125 x 35	125 x 50	[40]
Standards	EN 60044-1, cURus (*)	EN 60044-1, cURus (*)	

Primary current

Accuracy class depending on the burden of the secondary circuit

	Burden (VA)			Burden (VA)	
Class	1	3	Class	1	3
400 A		3	400 A	1	7
500 A	2	4	500 A	3	10
600 A	4	6	600 A	5	12
700 A	4	8	700 A	8	15
750 A	4	8	750 A	10	15
800 A	4	8	800 A	10	15
1000 A	6	10	1000 A	12	20
1200 A	8	12	1200 A	15	25
1250 A	8	12	1250 A	15	25
1500 A	10	15	1500 A	20	30
1600 A	10	15	1600 A	20	30
2000 A	15	20	2000 A	25	40
2500 A	20	25	2500 A	30	50
3000 A	25	30	3000 A	30	50
3200 A	25	30	3200 A	30	50

400 AAC

References

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Current transformers

Split core current sensors for EM21 72V

Types	CTV-1X	CTV-2X	CTV-3X
Input / output specifications			
Primary current 50/60 Hz	60 A (1-70 A)	100 A (1-120 A)	200 A
Secondary output	333 mV	333 mV	333 mV
General specifications			
Accuracy	1%	1%	1%
Linearity	0.5%	0.5%	0.5%
Phase error at nominal current	≤4°	≤2°	≤2°
Max. system voltage	660 V	660 V	660 V
Opening angle	180°	180°	180°
Certifications	CE - cURus	CE - cURus	CE - cURus
References			
	CTV1X60A333MV	**CTV2x100A333MV**	**CTV3X200A333MX**

Types	CTV-4X	CTV-8X
Input / output specifications		
Primary current 50/60 Hz	400 A (20-480 A max)	800 A (1-1000 A max)
Secondary output	333 mV	333 mV
General specifications		
Accuracy	1%	1%
Linearity	0.5%	
Phase error at nominal current	≤2°	≤2°
Max. system voltage	660 V	660 V
Opening angle	180°	
Certifications	CE - cURus	CE - cURus
References		
	CTV4X400A333MV	**CTV8X800A333MV**

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Current transformers

Current transformers for monitoring relays

Types	MI	MP	A 82	E 83
Dimensions HxWxD (mm)	45 x 52 x 16 [5 / 20] 67.5 x 95 x 20 [100 / 500]	45 x 120 x 16 [5 / 20] 114 x 150 x 23 [100 / 500]	67.5 x 95 x 20	56 x 22.5 x 49
Function	1-phase AC. Output voltage. Cable hole	3-phase AC. Output voltage. Cable hole	1-phase AC. Output 0 / 4-20 mA DC, 0-10 VDC (A82-30). Cable hole. Led indication	1-phase AC. Output 4-20 mA DC. Cable hole. DIN-rail mounting
Input specifications				
Input current	0.5 - 5 AAC [5] 2 - 20 AAC [20] 10 - 100 AAC [100] 50 - 500 AAC [500]	0.5 - 5 AAC [5] 2 - 20 AAC [20] 10 - 100 AAC [100] 50 - 500 AAC [500]	0 - 25 AAC [25] 0 - 50 AAC [50] 0 - 100 AAC [100] 0 - 250 AAC [250] 0 - 500 AAC [500]	0 - 5 AAC 0 - 10 AAC 0 - 15 AAC 0 - 20 AAC 0 - 25 AAC 0 - 30 AAC 0 - 50 AAC
Max. current continuously	20 AAC [5] 50 AAC [20] 250 AAC [100] 750 AAC [500]	20 AAC [5] 50 AAC [20] 250 AAC [100] 750 AAC [500]	600 AAC	100 AAC
Dielectric voltage	6 kV ACrms	6 kV ACrms	6 kV ACrms	
Output specifications				
Output value	0.4 - 4 Vp The output voltage is proportional to the input current	0.4 - 4 Vp The output voltage is proportional to the highest current value in the 3 conductors wich are drawn through the holes of the current metering transformer	A82 - 10: 0-20 mA DC A82 - 20: 4-20 mA DC A82 - 30: 0-10 VDC The output current (A82-10, A82-20) and voltage (A82-30) are proportional to the input current	4 - 20 mA DC The output current is proportional to the input current
Output tolerance	± 5% @ In	± 5% @ In	± 2% @ 50 Hz	± 2% @ 50 Hz
Rated insulation voltage (cable)	250 VACrms	250 VACrms	250 VACrms	
General specifications				
Cable hole diameter	10.5 mm [5 / 20] 27 mm [100 / 500]	3 x 12 mm [5 / 20] 3 x 27 mm [100 / 500]	27 mm	12 mm
Connection cable	2 m PVC 2 x 0.5 mm^2	2 m PVC 2 x 0.5 mm^2	A82-10, A82-30: 2 m, 3x0.25 m^2 A82-20: 2 m, 2x0.25 m^2	Screw terminal 2 x 1.5 mm^2
Operating temperature	-20°C to +60°C	-20°C to +60°C	-20°C to +50°C	-20°C to +50°C
References				
	MI 5	**MP 3005**	**A 82-XX 25**	**E 83-20 50**
	MI 20	**MP 3020**	**A 82-XX 50**	
	MI 100	**MP 3100**	**A 82-XX 100**	
	MI 500	**MP 3500**	**A 82-XX 250**	
			A 82-XX 500	
			XX = 10: 0-20 mA DC = 20: 4-20 mA DC = 30: 0-10 VDC	

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