

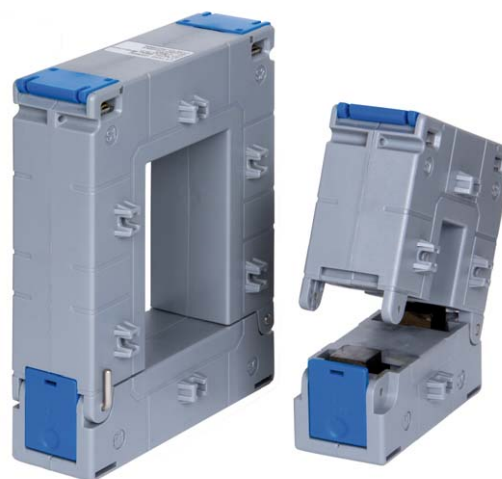
SIRAX CT3xx Split-Core Current Transformer

Description

Thanks to their compact design, simple installation and splittable core halves, split-core current transformers are ideal for use in hard-to-reach and limited space applications. Anywhere where an interruption of the current path is problematic or a measuring instrument has to be retrofitted, split-core current transformers are the right choice. They convert primary rated currents into secondary, rated currents of 5 A or 1 A, which can be used by measuring systems.

Properties

- Burst-resistant plastic housing made from polycarbonate
- Hardly inflammable and self-extinguishing according to UL94 V0
- Manipulation protection of the connections by means of sealable covers
- Lock protection prevents accidental opening
- Use in difficult to reach places with limited space requirement
- Easy and quick assembly thanks to the splittable core halves
- Ideal for retrofitting in existing systems without interrupting the power supply
- Various mounting options such as wall, cable or busbar mounting



Application

Application possibilities for split core current transformers can be found in almost all market segments and sectors. Wherever an adaptation of the primary measured variable to the input nominal size of the connected measuring devices is necessary. They are ideal for retrofitting in existing systems.

Technische Daten

	SIRAX CT300	SIRAX CT310	SIRAX CT320	SIRAX CT330
Dimensions inside	23 x 33 mm	55 x 85 mm	55 x 125 mm	85 x 172 mm
Width / Height / depth	93 / 106 / 40 mm	125 / 158 / 40 mm	155 / 198 / 40 mm	195 / 245 / 40 mm
Primary current I_{pr}	100 A ... 400 A	250 A ... 2000 A	1600 A ... 3000 A	2500 A ... 5000 A
Secondary current I_{sr}	5 A or 1 A			
Class of accuracy	0.5; 1	0.5	0.5	0.5
Test voltage	4 kV; 50 Hz; 1 min			
Nominal frequency	50 ... 60 Hz			
Rated insulation level U_m	0.72 kV			
Rated power S_r	1 ... 20 VA			
Thermal short circuit current I_{th}	$60 \times I_N$			
Dynamic short circuit current I_{dyn}	$2.5 \times I_{th}$			
Insulation class	E (max. 120 °C)			
Instrument security factor FS	FS10; FS15; FS30			
Housing material	Polycarbonate			
Flammability class	UL94 V-0, self-extinguishing, non-dripping, halogen-free			
Body protection IP	IP20			
Ambient temperature	-20 °C ... +45 °C			
Standard accepted	IEC 61869-1; IEC 61869-2			

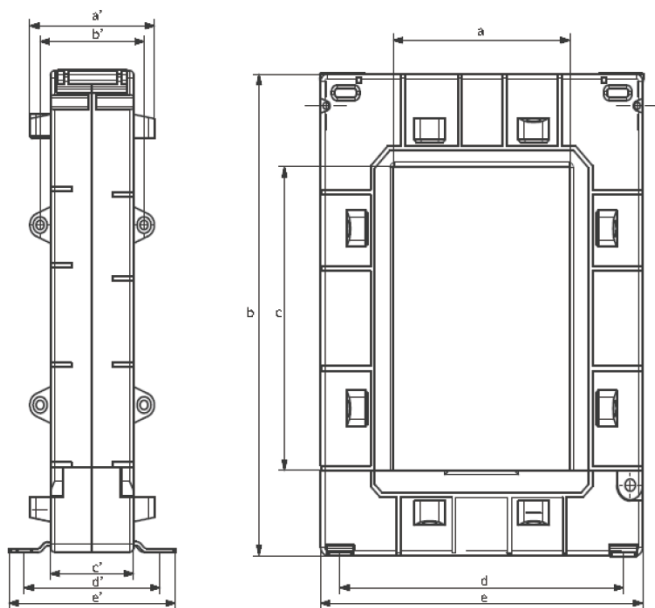
SIRAX CT3xx

Split-Core Current Transformer

Performance

Type of transformer	SIRAX CT300		SIRAX CT310	SIRAX CT320	SIRAX CT330
Accuracy class	0.5	1	0.5	0.5	0.5
Secondary currents	5 A and 1 A				
Primary currents	Rated power / Instrument security factor (FS)				
100 A	–	1.5 VA / FS10	–	–	–
150 A	–	1.75 VA / FS10	–	–	–
200 A	–	2.5 VA / FS10	–	–	–
250 A	–	3.75 VA / FS10	1 VA / FS10	–	–
300 A	2.5 VA / FS10	5 VA / FS10	2.5 VA / FS15 / FS10	–	–
400 A	3.75 VA / FS10	6.25 VA / FS10	2.5 VA / FS10	–	–
500 A	–	–	3.75 VA / FS10	–	–
600 A	–	–	5 VA / FS10	–	–
750 A	–	–	7.5 VA / FS10	–	–
800 A	–	–	7.5 VA / FS10	–	–
1000 A	–	–	10 VA / FS10	–	–
1200 A	–	–	10 VA / FS10	–	–
1250 A	–	–	10 VA / FS10	–	–
1500 A	–	–	10 VA / FS10	–	–
1600 A	–	–	10 VA / FS10	20 VA / FS10	–
2000 A	–	–	10 VA / FS10	20 VA / FS10	–
2500 A	–	–	–	25 VA / FS10	25 VA / FS30
3000 A	–	–	–	30 VA / FS10	30 VA / FS30
4000 A	–	–	–	–	30 VA / FS30
5000 A	–	–	–	–	30 VA / FS30

Dimensions



Model	Front view					Side view				
	a	b	c	d	e	a'	b'	c'	d'	e'
CT300	23	106	33	75	93	54	46	40	62	76
CT310	55	158	85	106	125	54	46	40	62	76
CT320	85	198	125	136	155	54	46	40	62	76
CT330	85	245	172	177	195	78	71	40	62	76

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