

SIRAX CT1xx Wound Primary Current Transformer

Description

Wound primary current transformers are used wherever small primary rated currents of 1 A or more must be converted by the measuring system into usable, galvanically isolated secondary rated currents of 5 A or 1 A. In contrast to plug-in or Kabelmaustromwandler winding transformer have 4 screw terminals. The primary current as well as the secondary current is connected directly via screw terminals on the order and rear side.

Properties

- Wound primary current transformer with primary winding and primary terminal blocks instead of a continuous busbar
- 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
- Compact design allows for use in difficult to reach places with limited space requirements
- Easy and quick assembly
- High accuracy class up to 0.2
- Particularly suitable for small primary currents from 1 A to 60 A



Application

Applications for wound primary current transformers can be found in almost all market segments and sectors. Wherever it is necessary to adapt the primary measured variable to the input nominal sizes of the connected measuring instruments. They are ideally suited for small primary currents where plug-in or cable conversion converters can no longer be used.

Technical data

	SIRAX CT100		SIRAX CT110	
Width / Height / depth	62 / 78 / 40 mm		74 / 98 / 45 mm	
Primary current I_{pr}	1 A ... 30 A		1 A ... 60 A	
Secondary current I_{sr}	5 A or 1 A			
Class of accuracy	0.2	0.5	0.2	0.5
Test voltage	3 kV; 50 Hz; 1 min			
Nominal frequency	50 ... 60 Hz			
Rated insulation level U_m	0.72 kV			
Rated power S_r	1 VA	2.5 VA	1.5 VA	5 VA
Thermal short circuit current I_{th}	$40 \times I_N$			
Dynamic short circuit current I_{dyn}	$2.5 \times I_{th}$			
Insulation class	E (max. 120 °C)			
Instrument security factor FS	FS15	FS10	FS15	FS10
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 CT1xx

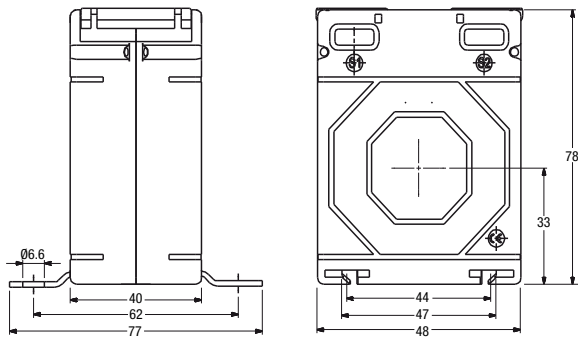
Wound Primary Current Transformer

Performance

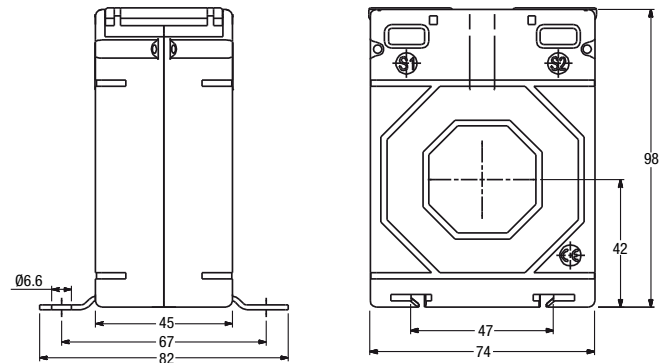
Type of transformer	SIRAX CT100		SIRAX CT110	
Accuracy class	0.2	0.5	0.2	0.5
Secondary currents	5 A und 1 A			
Primary currents	Rated power / Instrument security factor (FS)			
1 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
2.5 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
5 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
7.5 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
10 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
15 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
20 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
25 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
30 A	1 VA / FS15	2.5 VA / FS10	1.5 VA / FS15	5 VA / FS10
40 A	–	–	1.5 VA / FS15	5 VA / FS10
50 A	–	–	1.5 VA / FS15	5 VA / FS10
60 A	–	–	1.5 VA / FS15	5 VA / FS10

Dimensions

SIRAX CT100



SIRAX CT110



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