

**TIN SERIES**

Open core (SPLIT) - Secondary current 5 A



**Definition and applications**

The TIN series are current transformers designed for use as energy monitoring products.

They may be used as measuring transformers or protection transformers:

- Measuring transformer:**  
Short circuiting in terminals or connection to ground may be done using the fast-on or connecting two cables to the same terminal.
- Protection transformer:**  
When a current transformer is used to create a current for protection relays, its characteristics are different from those of measuring transformers. In fact the magnetic circuit of the measuring transformer will be saturated with Class 5P in primary currents, whereas in the protection transformers, the value of the secondary currents must follow the increment in the primary currents, which may reach 10-15-20 In, to guarantee the activation of the relay in the event of an unforeseen power cut.  
It is important not to load with a power (P) greater than that indicated to ensure that the current transformer saturation value is not modified.  
 $P = R \cdot I^2$   
P= Load connected to the current transformer.  
R= Relay resistance + cable resistance  
I = Nominal secondary current of the current transformer

**Technical features - standard model**

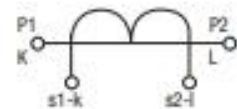
Standard power	1.5 VA to 30 VA
Standard current	- Input: 400 A to 1500 A - Output: 5 A
Standard frequency	50-60 Hz
Thermal short circuit current	40 IpN 1 sec.
Dynamic short circuit current	2.5 I th 1 sec.
Permanent nominal thermal current	120% Icth
Class	I / III
Insulators	In air, class E
IP rating	IP30
Room temperature	-20 °C to 40 °C
Mourding	Fastened with screws
Standards	EN 60044-1
Test voltage	3 kV (1 min., 50 Hz)
Operation	Continuous
Cooling	AN

**Manufacturing characteristics**

- Sealable terminal cover included.
- Fastening system with screws or DIN rail.
- All the transformers are checked automatically one by one and the compliance test report is created in accordance with the corresponding standard.

**Connection**

- Primary P1(K) P2(L)
- Secondary s1(k) s2(l)



**Theoretical data - standard model**

I prim. / I sec. A	Reference	Plate	Weight kg
400 / 5	TIN400A	80x50	1.3
500 / 5	TIN500A	80x50	1.3
600 / 5	TIN600A	80x50	1.3
800 / 5	TIN800A	80x50	1.3
1000 / 5	TIN1000A	120x80	1.8
1200 / 5	TIN1200A	120x80	1.8
1500 / 5	TIN1500A	120x80	1.8

**Measurements**

