

TIP SERIES

Primary pass-through · Secondary current 5 A



Technical features - standard model

Standard power	1 VA to 12 VA
Standard current	- Input: 40 A to 500 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
Mounting	Mounted on DIN 46277/3 rail or with screws
Standards	EN 60044-1
Test voltage	3 kV (1 min., 50 Hz)
Operation	Continuous
Cooling	AN

Theoretical data - standard model

I prim. / I sec. A	Reference	Plate diam.
40 / 5	TIP40A	21mm - 30x10
50 / 5	TIP50A	21mm - 30x10
100 / 5	TIP100A	21mm - 30x10
150 / 5	TIP150A	21mm - 30x10
200 / 5	TIP200A	32mm - 40x10
250 / 5	TIP250A	32mm - 40x10
300 / 5	TIP300A	32mm - 40x10
400 / 5	TIP400A	50mm - 60x10
500 / 5	TIP500A	50mm - 60x10

Definition and applications

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

They may be used as measuring transformers or protection transformers:

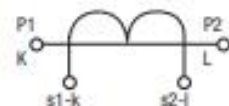
- Measuring transformer:**
 Short circuiting in terminals or connection to ground may be done using the fast-on or connecting two cables to the same terminal.
- Protection transformer:**
 When a current transformer is used to create a current for protection relays, its characteristics are different from 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

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)



Measurements

Reference	External dimensions mm					Weight kg
	A	B	C	D	E	
TIP40A	58	70	97	37.5	60	0.3
TIP50A	58	70	97	37.5	60	0.3
TIP100A	58	70	97	37.5	60	0.3
TIP150A	58	70	97	37.5	60	0.3
TIP200A	75	70	109	45.5	60	0.5
TIP250A	75	70	109	45.5	60	0.7
TIP300A	75	70	109	45.5	60	0.7
TIP400A	105	85	131	82	76.7	1
TIP500A	105	85	131	82	76.7	1

