



TA 150 - 151

MAINS FREQUENCY CURRENT TRANSFORMERS FROM 100 TO 600 A



PURPOSE

Current transformers are used to measure and detect alternate currents, by keeping the galvanic isolation between the primary cable (the network) and the control stage. They typically have a high number of secondary turns, so that the secondary current is relatively low. By connecting a burden resistance to the secondary side, you can read a proportional voltage signal, isolated from the mains. As the secondary current is low, the low power burden resistance can be connected to the PCB.

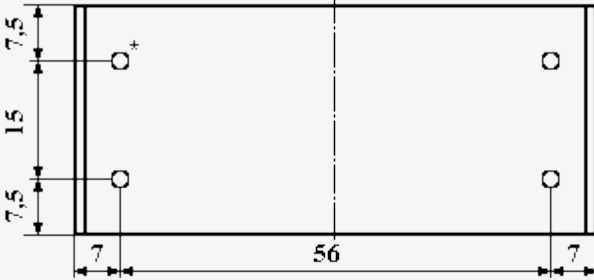
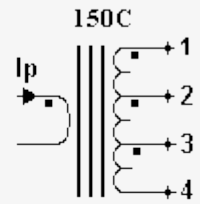
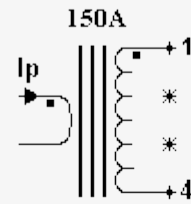
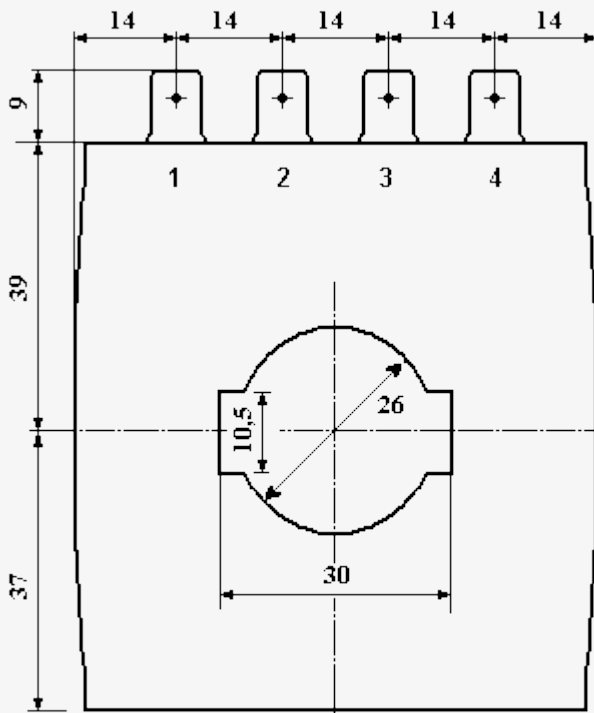
FEATURES

These current transformers are based on toroidal Silicon Iron core. The family code 150 and 151 identifies the size of the box and, in particular, of the central hole for passing through cable (or copper bar). Both sizes can be equipped with 2 or 4 fastons.

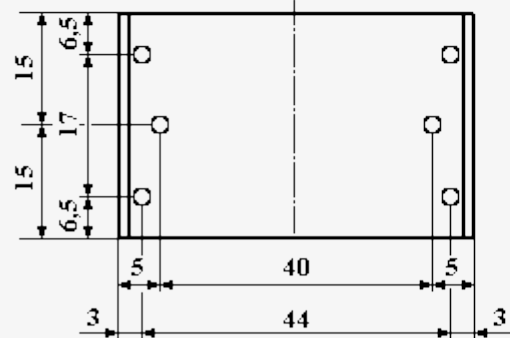
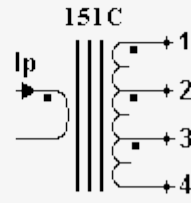
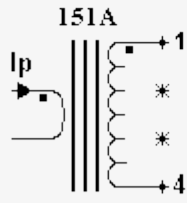
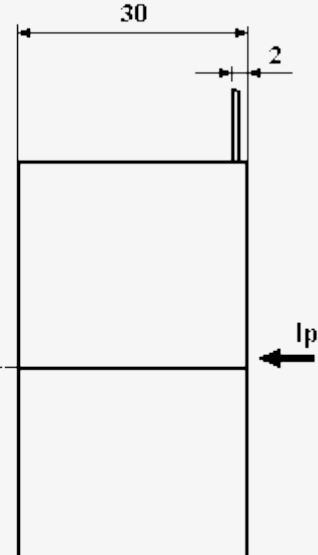
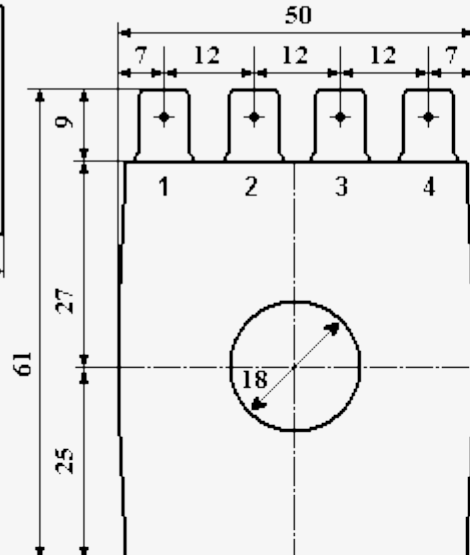
Code	I_p [Arms]	I_s [Arms]	n	R_c [Ω]	U_{OUT} [Vrms]	Outputs	D [mm]	Drawing
TA 150120	400	0,400	$n_{1-4} = 1000$	20	8,0	Faston 1-4	26	150A
TA 150130	200	0,400	$n_{1-2} = 500$	20	8,0	Faston 1-2	26	150C
	400	0,400	$n_{1-3} = 1000$	20	8,0	Faston 1-3		
	600	0,400	$n_{1-4} = 1500$	20	8,0	Faston 1-4		
TA 150140	400	0,200	$n_{1-4} = 2000$	20	4,0	Faston 1-4	26	150A
TA 150150	200	0,200	$n_{1-2} = 1000$	20	4,0	Faston 1-2	26	150C
	300	0,200	$n_{1-3} = 1500$	20	4,0	Faston 1-3		
	400	0,200	$n_{1-4} = 2000$	20	4,0	Faston 1-4		
TA 150160	600	0,600	$n_{1-4} = 1000$	10	6,0	Faston 1-4	26	150A
TA 150170	600	0,200	$n_{1-4} = 3000$	20	4,0	Faston 1-4	26	150A
TA 151008	200	0,200	$n_{1-4} = 1000$	10	2,0	Faston 1-4	18	151A
TA 151100	100	0,200	$n_{1-4} = 500$	20	4,0	Faston 1-4	18	151A
TA 151110	25	0,200	$n_{1-2} = 125$	20	4,0	Faston 1-2	18	151C
	50	0,200	$n_{1-3} = 250$	20	4,0	Faston 1-3		
	100	0,200	$n_{1-4} = 500$	20	4,0	Faston 1-4		
TA 151133	100	0,100	$n_{1-4} = 1000$	20	2,0	Faston 1-4	18	151A

SYMBOLS:

- n secondary turns
- I_p rated primary current
- I_s rated secondary current
- R_c rated burden resistance
- U_{OUT} rated output voltage
- D inner hole diameter for the passing through cable



* Holes for self-tapping 2,9x9 screw



values in mm

TA02 - Rev.1



Certificate nr. 50 100 3372



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