

TA 152 - 153

MAINS FREQUENCY CURRENT TRANSFORMERS
UP TO 100 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.

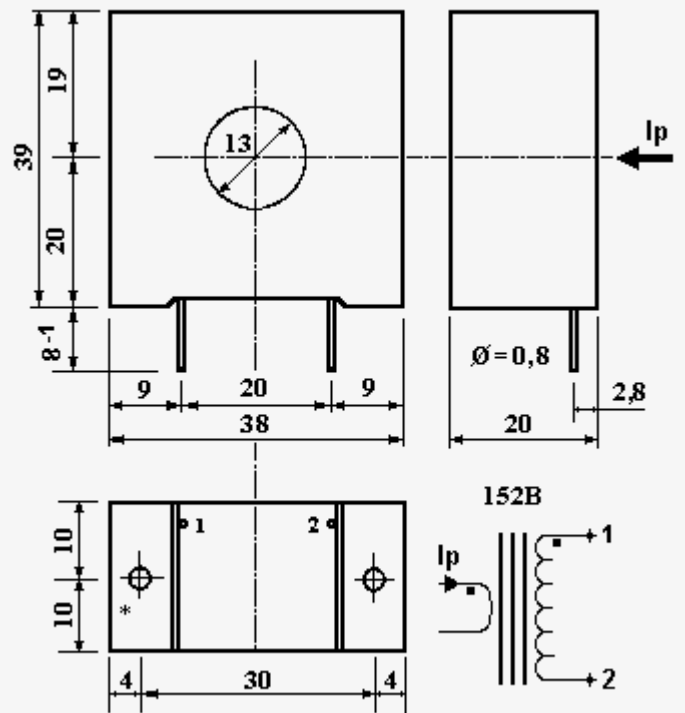
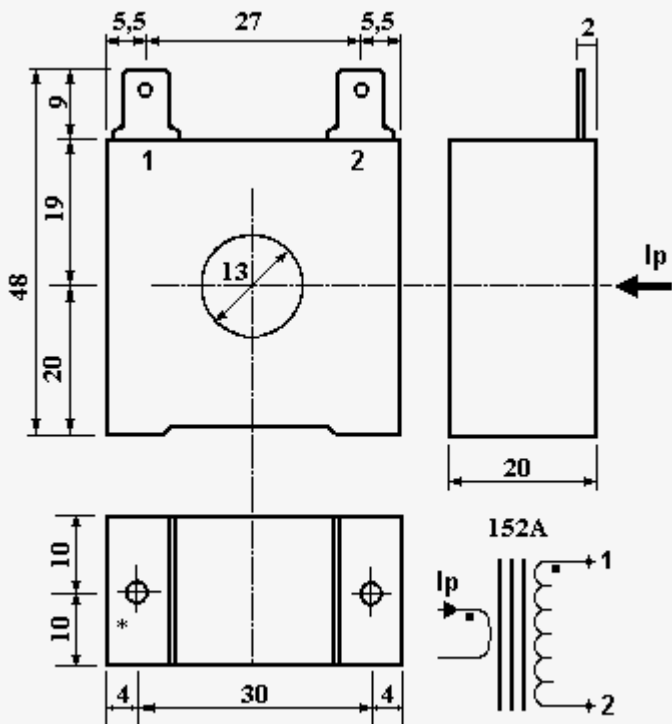
FEATURES

These current transformers are based on toroidal Silicon Iron core. The family code 152 and 153 identifies the size of the box and, in particular, the central hole dimension for the cable. Both sizes are equipped with faston or pin connection.

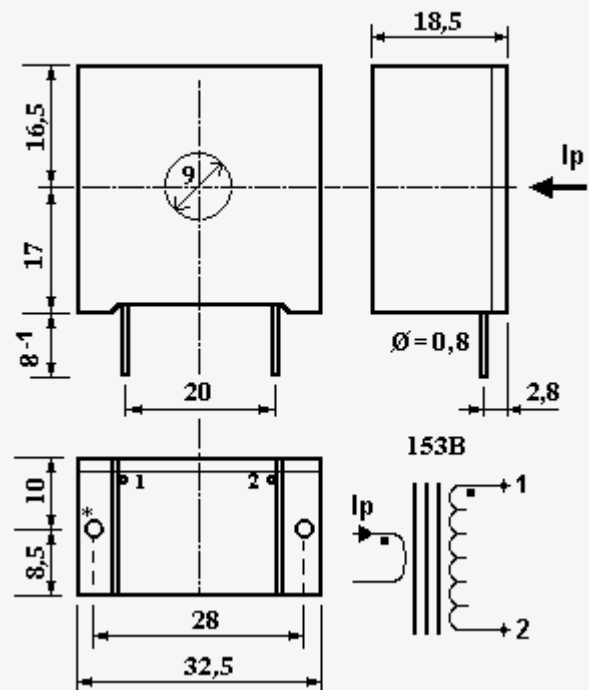
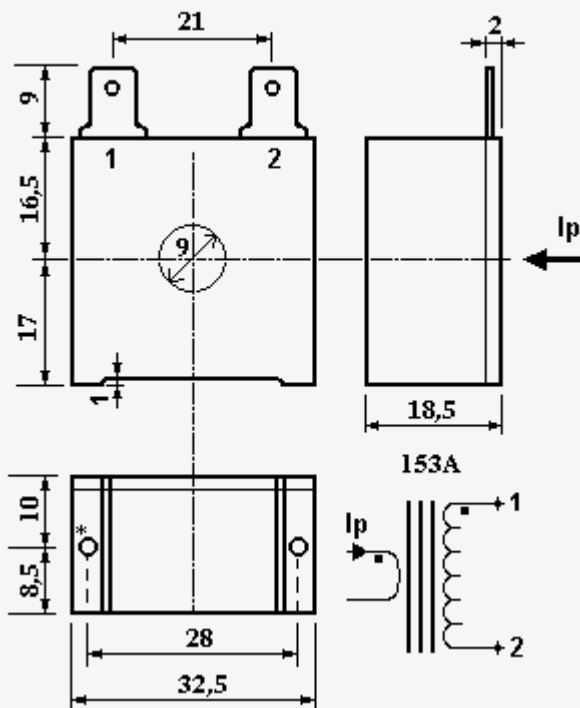
Code	I_p [Arms]	I_s [Arms]	n	R_c [Ω]	U_{out} [Vrms]	Outputs	D [mm]	Drawing
TA 152023	25	0,050	500	40	2,0	Pins 1-2	13	152B
TA 152025	25	0,050	500	40	2,0	Faston 1-2	13	152A
TA 152027	50	0,050	1000	80	4,0	Pins 1-2	13	152B
TA 152050	50	0,050	1000	80	4,0	Faston 1-2	13	152A
TA 153001	70	0,140	500	25	3,5	Faston 1-2	9	153A
TA 153002	70	0,070	1000	50	3,5	Faston 1-2	9	153A
TA 153003	70	0,035	2000	100	3,5	Faston 1-2	9	153A
TA 153004	100	0,040	2500	100	4,0	Faston 1-2	9	153A
TA 153006	70	0,140	500	25	3,5	Pins 1-2	9	153B
TA 153007	70	0,070	1000	50	3,5	Pins 1-2	9	153B
TA 153008	70	0,035	2000	100	3,5	Pins 1-2	9	153B
TA 153009	100	0,040	2500	100	4,0	Pins 1-2	9	153B

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



* Hole for self-tapping 2,9x9 screw



values in mm

TA01 - Rev.0



Certificate nr. 50 100 3372



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