

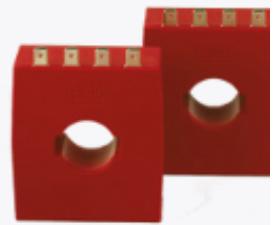
TA - Mains Frequency

Purpose

They are used to measure alternate currents at 50-60 Hz, up to 600 Arms.

Features

They are based on toroidal Silicon Iron core; 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.



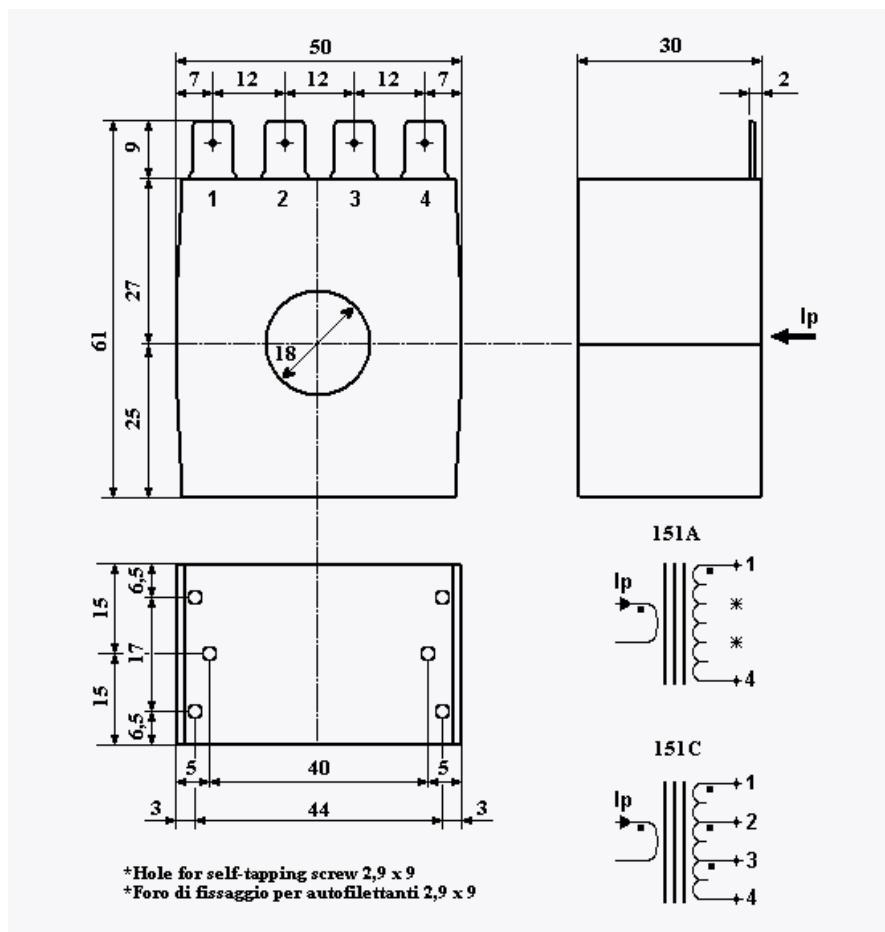
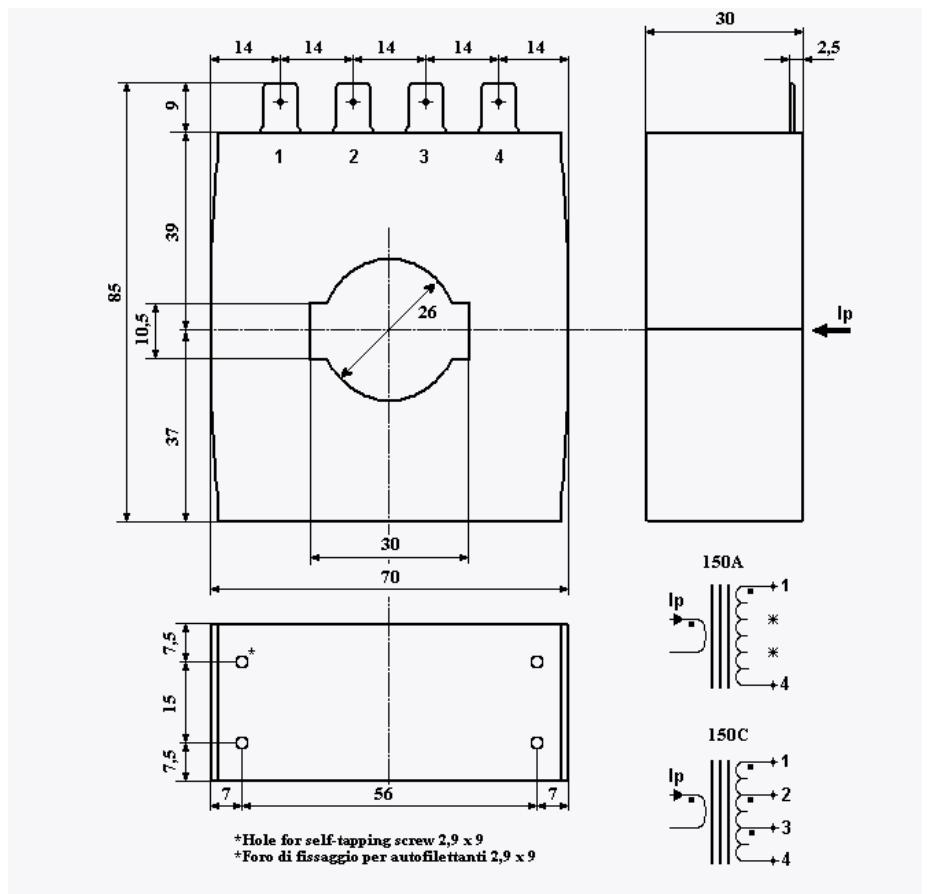
Depending on the size, and in particular on the central hole for passing through cable (or copper bar), there are four current transformer families, called 150, 151, 152 and 153, with pins or faston connection.

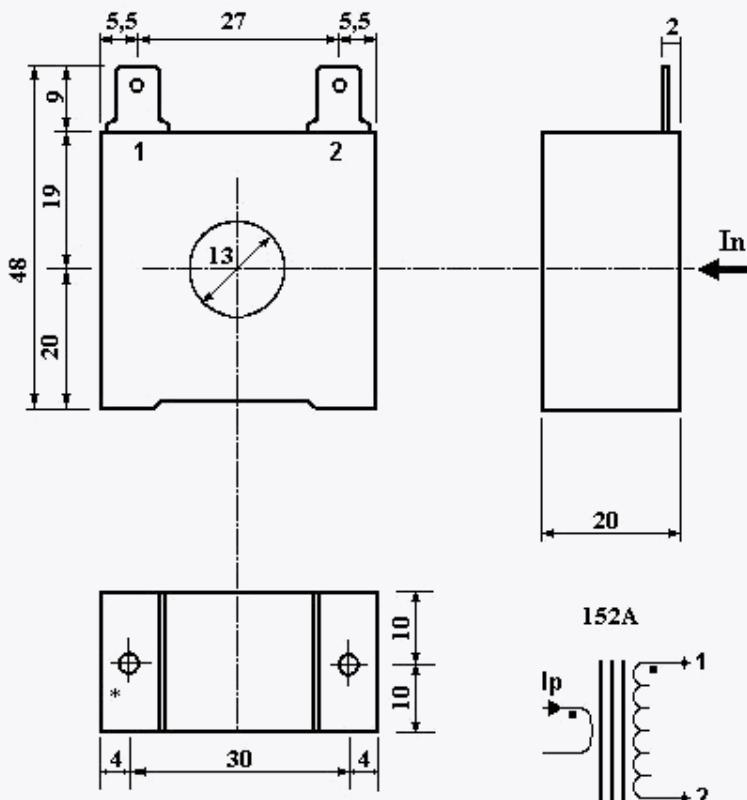
Typical working temperature is from -40 to +70°C.

The plastic material of the case is UL94-V0. Main features of mains frequency current transformers are the following ones:

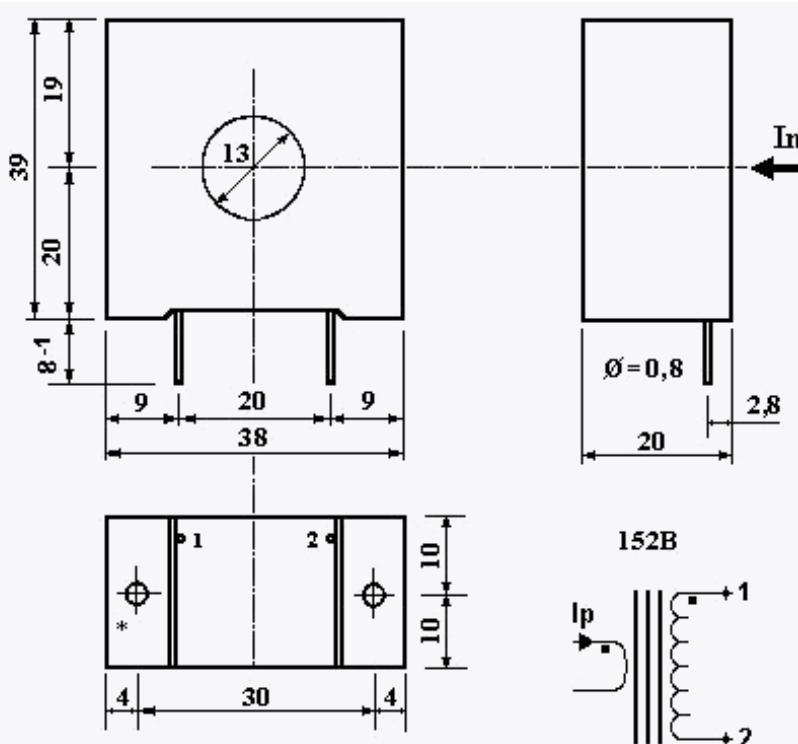
- n secondary to primary turns ratio, that is the number of secondary turns
- R_s secondary winding's resistance
- I_p rated primary current (rms value)
- I_s rated secondary current (rms value)
- f_n optimum working frequency (or optimum working frequency range)
- R_c rated burden resistance
- U_{out} output voltage at the rated primary current and with rated burden resistance
- E measurement's accuracy at the rated primary current and with rated burden resistance
- U_{is} maximum working voltage primary/secondary
- U_p isolation voltage primary/secondary

Code	Ip [Arms]	Is [Arms]	n	Rc [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	200	0,200	$n_{1-4} = 500$	20	4,0	Faston 1-4	18	151A
TA 151104	50	0,200	$n_{1-2} = 250$	40	8,0	Faston 1-2	18	151C
	100	0,200	$n_{1-3} = 500$	40	8,0	Faston 1-3		
	200	0,200	$n_{1-4} = 1000$	40	8,0	Faston 1-4		
TA 151110	25	0,400	$n_{1-2} = 125$	20	4,0	Faston 1-2	18	151C
	50	0,400	$n_{1-3} = 250$	20	4,0	Faston 1-3		
	100	0,400	$n_{1-4} = 500$	20	4,0	Faston 1-4		
TA 151133	100	0,100	$n_{1-4} = 1000$	20	2,0	Faston 1-4	18	151A
TA 152023	25	0,050	$n_{1-2} = 500$	40	2,0	Pins 1-2	13	152B
TA 152025	25	0,050	$n_{1-2} = 500$	40	2,0	Faston 1-2	13	152A
TA 152027	50	0,050	$n_{1-2} = 1000$	80	4,0	Pins 1-2	13	152B
TA 152050	50	0,050	$n_{1-2} = 1000$	80	4,0	Faston 1-2	13	152A
TA 153001	70	0,140	$n_{1-2} = 500$	25	3,5	Faston 1-2	9	153A
TA 153002	70	0,070	$n_{1-2} = 1000$	50	3,5	Faston 1-2	9	153A
TA 153003	70	0,035	$n_{1-2} = 2000$	100	3,5	Faston 1-2	9	153A
TA 153006	70	0,140	$n_{1-2} = 500$	25	3,5	Pins 1-2	9	153B
TA 153007	70	0,070	$n_{1-2} = 1000$	50	3,5	Pins 1-2	9	153B
TA 153008	70	0,035	$n_{1-2} = 2000$	100	3,5	Pins 1-2	9	153B

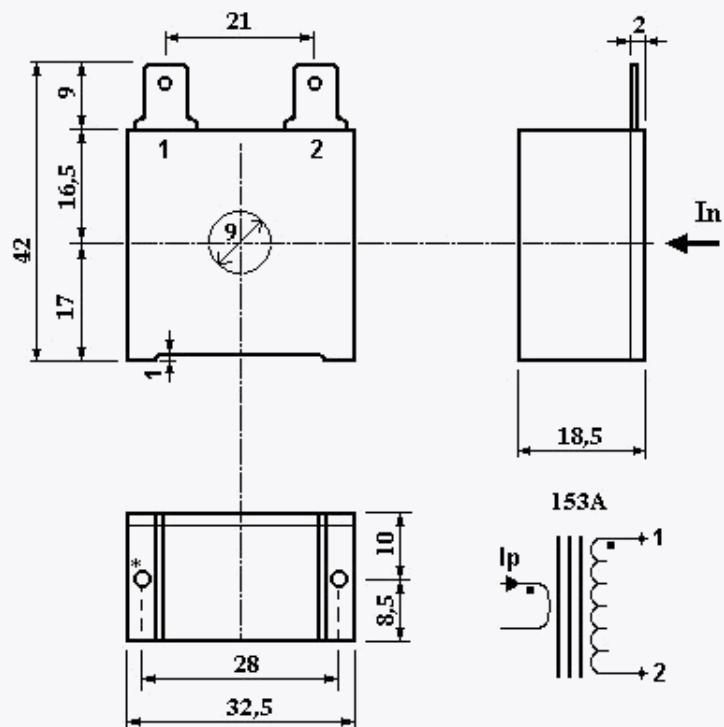




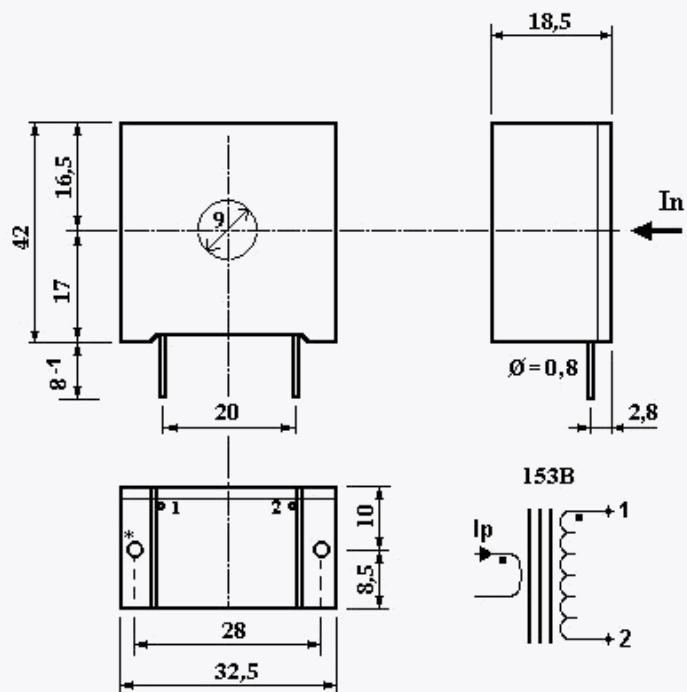
*Hole for self-tapping screw 2,9 x 9
 *Foro di fissaggio per autofilettanti 2,9 x 9



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