

Medium size standard AC current sensor for both of PCB and panel mounting

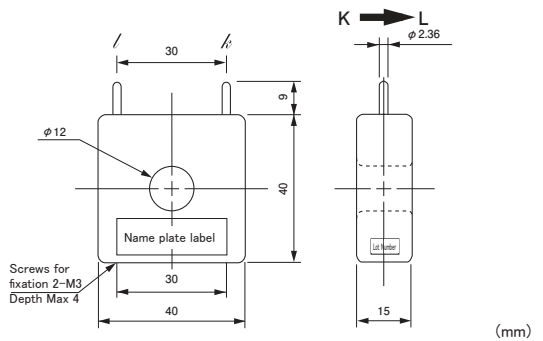


Model CTL-12-S36-10

[Features]

- Standard model of medium size current sensor of $\phi 12$ aperture diameter
- The most generic current sensor covering the wide range of 280A max, though compact shape with 40mm square
- Possible to interface to electrical circuit directly by small secondary current with high current ratio of 1000:1
- Robust structure with output terminal of round pins ($\phi 2.36 \times 9\text{mm}$). Possible to correspond to soldering to wire, and connector set, sold separately
- Prepared mounting bracket sold separately (HLD-12) for panel mounting

[Outline drawing]

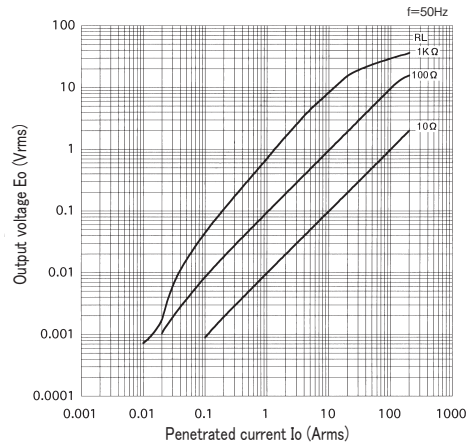


[Specification] $T_a = 25^\circ\text{C}$

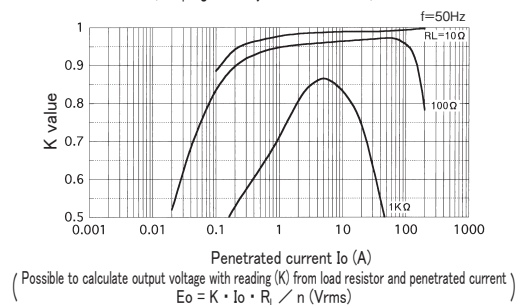
Model	CTL-12-S36-10
Primary current	0.1 ~ 280Arms (50 / 60Hz)、 $R_L \leq 10\ \Omega$
Maximum primary current	240Arms continuous
Saturation limited current	400Arms (50 / 60Hz)、 $R_L \leq 1\ \Omega$
Output characteristics	Refer "Output voltage characteristics"
Linearity	Refer "Coupling efficiency [K] characteristics" (Use the flat range of [K] characteristic in the application as the linear sensor)
Secondary windings (n)	1000 \pm 2 turn
Secondary windings resistance	35 Ω (reference)
Withstand voltage	AC2000V(50/60Hz), 1min(between aperture and output terminal in a lump)
Insulation resistance	DC500V, $\geq 100\text{M}\Omega$ (between aperture and output terminal in a lump)
Operating temperature	$-20^\circ\text{C} \sim +75^\circ\text{C}$, $\leq 80\%RH$, no condensation
Storage temperature	$-30^\circ\text{C} \sim +90^\circ\text{C}$, $\leq 80\%RH$, no condensation
Structure	PBT plastic case, potted by epoxy on one side
Output terminal	$\phi 2.36 \times 9\text{mm}$ (round pins), tin plating
Screw torque	0.3N · m
Mass	approximately 56g

- Remark (1) Output voltage is changed by the penetrated current/load resistor/[K] characteristic and so on. Please set up the condition for use with careful investigation of each characteristic
- (2) Please use with enough margin if the range of coupling efficiency [K] ≤ 0.9 , because it is the range to happen the individual difference.
- (3) Opening the secondary during turn ON is hazardous and the cause of failure, because of generating high voltage
- (4) Please surely ask to our technical consulting service, if the power measurement is thought.
- (5) Please be careful of CT heating in case to use with high frequency, although this CT is basically used at 50/60Hz.
- (6) Please refer Appendix-1 accessories list for accessories

[Output voltage characteristics]



[Coupling efficiency (K) characteristics]



[Frequency characteristics]

