

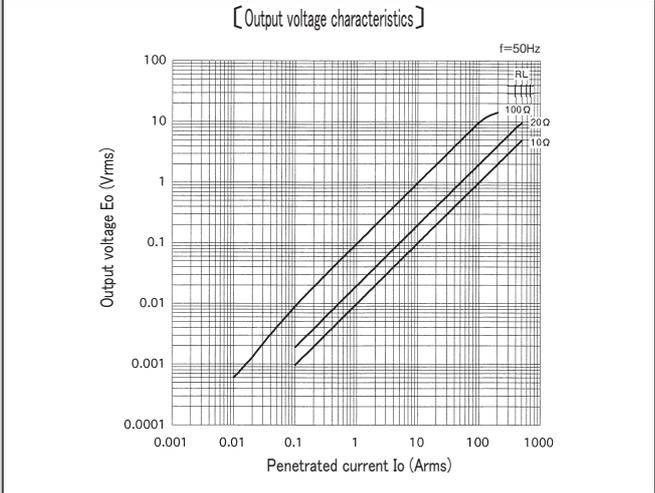
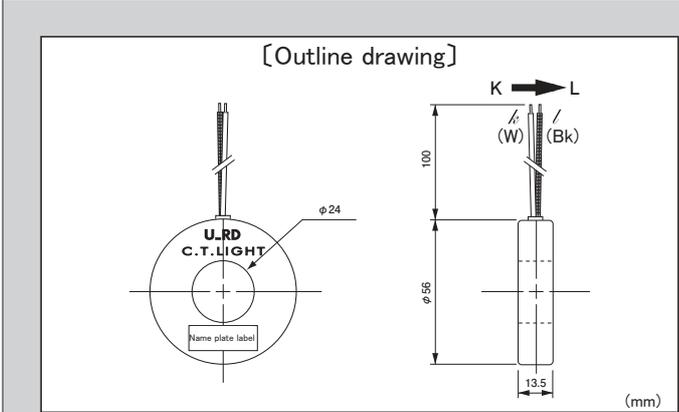
Medium size standard AC current sensor with large aperture and output wire type



Model CTL-24-TE#B

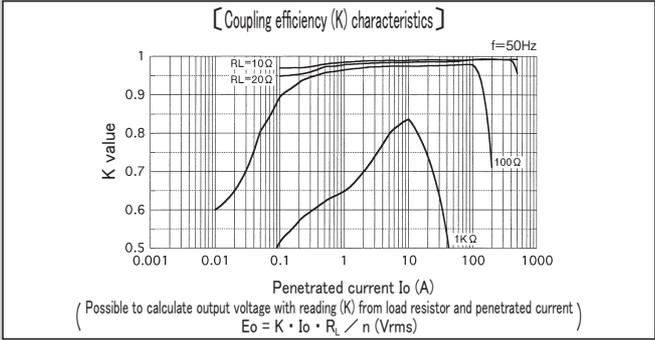
- [Features]**
- Enlarged capacity model compatible specification of turns with standard model (CTL-24-TE) of $\phi 24$ aperture diameter
 - The highest model of this class with primary current 500A max
 - Possible to interface to electrical circuit directly by small secondary current with high current ratio of 1000:1
 - Output wire ($0.3\text{mm}^2 \times 100\Omega$).
 - Prepared mounting bracket sold separately (HLD-24) for panel mounting

AC current sensor

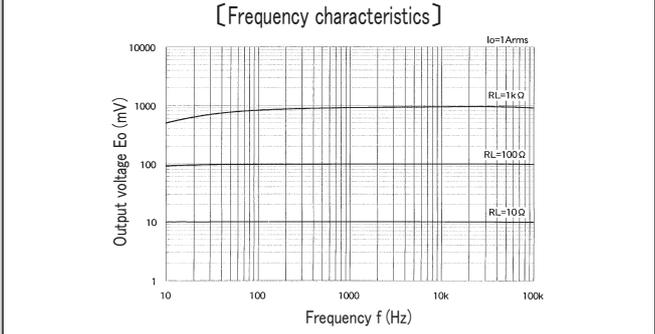


[Specification] Ta=25°C

Model	CTL-24-TE#B
Primary current	0.1 ~ 500Arms (50 / 60Hz)、 $R_L \leq 10\Omega$
Maximum primary current	400Arms continuous
Saturation limited current	1000Arms (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 ± 2 turn
Secondary windings resistance	10.4 Ω (reference)
Withstand voltage	AC2000V(50/60Hz), 1min(between aperture and output wire in a lump)
Insulation resistance	DC500V, $\geq 100M\Omega$ (between aperture and output wire in a lump)
Operating temperature	-20°C ~ +75°C, $\leq 80\%RH$, no condensation
Storage temperature	-30°C ~ +90°C, $\leq 80\%RH$, no condensation
Structure	Polycarbonate plastic case, potted by epoxy
Output wire	PVC Vinyl isolated wire ($0.3\text{mm}^2 \times 100\Omega$)
Mass	approximately 71g



- 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



Attention: Our products are designed and manufactured only for industrial application. It is not for the application for medical, nuclear facilities, life line (mass transportation, weapon, and so on), airplane, and space satellite, with high level safety and reliability.