## Precision Purpose CTL-Z series

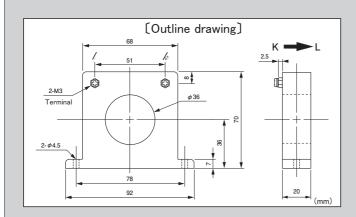
## Large size standard AC current sensor for precise measurement with large aperture and terminal type



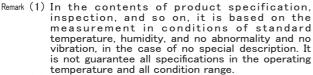
## Model CTL-36-S50-10Z

## (Features)

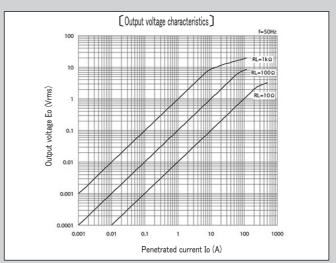
- lacktriangle Standard sensor of large aperture of  $\phi$  36 aperture diameter for precise measurement
- Covering the wide range of 1mA~180A with adoption of permalloy core of high magnetic permeability
- Possible to interface to electrical circuit directly by small secondary current with high current ratio of 1000:1
- Doutput: M3-screw terminal, Mounting holes:  $2-\phi$  4.5, robust structure suitable for installation into large panel

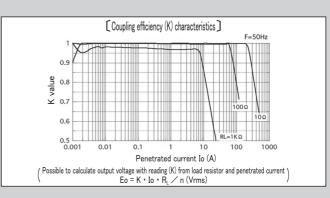


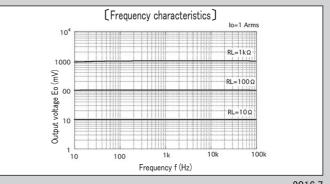
[Specification] Ta=25°C	
Model	CTL-36-S50-10Z
Primary current	1mA ~ 180Arms (50 $\angle$ 60Hz), R <sub>L</sub> ≤10Ω
Maximum primary current	300Arms continuous
Output characteristics	Refer "Output voltage characteristics"
Linearity	Refer "Coupling efficiency [K] characteristics"  (Use the flat range of [K] characteristic in the application as the linear sensor)
Secondary windings (n)	1000±2 turn
Secondary windings resistance	25Ω (reference)
Withstand voltage	AC2000V(50/60Hz), 1min(between aperture and output terminal in a lump)
Insulation resistance	DC500V, $\geq$ 100M $\Omega$ (between aperture and output terminal in a lump)
Operating temperature	-20°C ~ +75°C , ≤80%RH, no condensation
Storage temperature	-30°C ~ +90°C , ≤80%RH, no condensation
Structure	ABS plastic case, potted by epoxy on one side
Output terminal	M3X5l (BS screw terminal)
Screw torque	M4: 0.7N · m、M3: 0.3N · m
Mass	approximately 170g



- (2) Impossible to use in outdoor exposure(3) Opening the secondary during turn ON is hazardous and the cause of failure, because of generating high voltage
- (4) Please be careful of CT heating in case to use with high frequency, although this CT is basically used at 50/60Hz.







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