

Split core clamp type sensor

Output screw terminal structure split type CT ($\phi 10 \sim \phi 36 / 600\text{Arms}$)

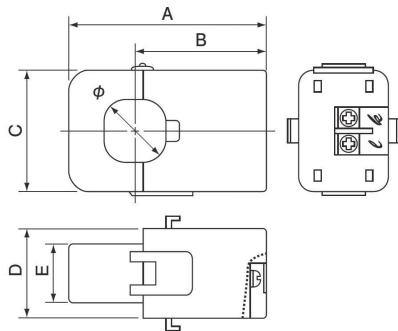


Model CTT-10-CLS、CTT-16-CLS、CTT-24-CLS、CTT-36-CLS

[Features]

- Terminal type compatible characteristic with small and light CTL-CLS series
- By adoption of output screw terminal structure, possible to correspond to each assembly condition with standard product
- Nylon spring, one touch clamp type for easy assembly to established panel
- Safety design with standard equipment of open protection device for protection of secondary open of CT accidentally
- Wide variety to be possible to correspond to 600A max with aperture of $\phi 10 \sim \phi 36$

[Outline drawing]



(mm)

Model	Dimension					
	A	B	C	D	E	ϕ
CTT-10-CLS	50	37	23	26	14.5	10
CTT-16-CLS	55	40.5	29.5	31	19	16
CTT-24-CLS	74.5	49.5	45	34	22	24
CTT-36-CLS	91	61	57	40.5	22	36

[Specification] Ta=25°C

Model	CTT-10-CLS	CTT-16-CLS	CTT-24-CLS	CTT-36-CLS
Primary current	0.01~80Arms (50/60Hz), $R_L \leq 15\Omega$	0.01~120Arms (50/60Hz), $R_L \leq 10\Omega$	0.1~300Arms (50/60Hz), $R_L \leq 10\Omega$	0.1~600Arms (50/60Hz), $R_L \leq 5\Omega$
Maximum primary current	120Arms continuous	300Arms continuous	360Arms continuous	720Arms continuous
Output characteristics	400mV-1 \pm 1% /80A (50/60Hz, $R_L=15\Omega$)	400mV-1 \pm 1% /120A (50/60Hz, $R_L=10\Omega$)	1500mV \pm 1% /300A (50/60Hz, $R_L=10\Omega$)	1500mV \pm 1% /600A (50/60Hz, $R_L=5\Omega$)
Linearity	$\pm 1\%$ FS/80A (50/60Hz, $R_L=15\Omega$)	$\pm 1\%$ FS/120A (50/60Hz, $R_L=10\Omega$)	$\pm 1\%$ FS/300A (50/60Hz, $R_L=10\Omega$)	$\pm 1\%$ FS/600A (50/60Hz, $R_L=5\Omega$)
Current ratio	3000 : 1	3000 : 1	2000 : 1	2000 : 1
Secondary windings resistance	400 Ω (Reference)	280 Ω (Reference)	70 Ω (Reference)	27 Ω (Reference)
Open circuit protection	Built in 7.5Vp clamped device		Built in 3.0Vp clamped device	
Withstand voltage	AC2000V(50/60Hz), 1min(between core and output terminal in a lump)			
Insulation resistance	DC500V, $\geq 100M\Omega$ (between core and output terminal in a lump)			
Operating temperature	-20°C ~ +50°C, $\leq 80\%$, no condensation, for indoor assembly, free direction for setting			
Storage temperature	-30°C ~ +90°C, $\leq 80\%$, no condensation			
Structure	Nylon case simple closing type Ferrite core in case with clamping structure, Nylon hinge and spring method		Nylon case simple closing type Nylon hinge and spring method	
Fitting repeatability	≈ 100 times			
Output terminal	2XM3 screw terminal with terminal cover			
Screw torque	0.3N · m			
Mass	approximately 45g	approximately 75g	approximately 180g	approximately 320g

- Remark (1) There is breakage of ferrite core inside with shocking force to the contact face(10, 16 type)
 (2) Although core joint surface is protected from rust, in the case of rusting, possible to be recovered by removal of rust with CRC-556 (goods on the market) and paint it again. (24, 36 type)
 (3) Please use dedicated ones for the screws mounted on the output terminal
 (4) Please be careful not to open the secondary of CT, because of occurring high voltage as the cause for electrical shock and failure. Open protection device is for protection in the case of wiring hot line, and it is not the acceptance of secondary open.
 (5) Please be careful of CT heating in case to use with high frequency, although this CT is basically used at 50/60Hz. (24, 36 type)