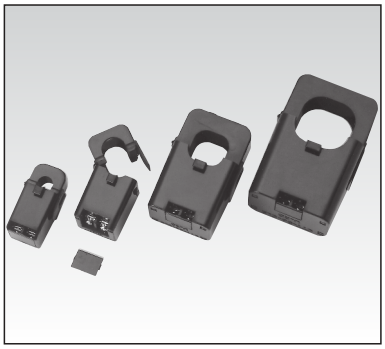
Current converter integrated clamp type sensor and converter 5A ～ 500A

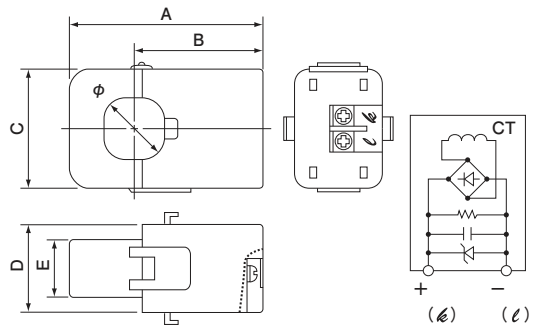


Model CTT-CLS-CV series

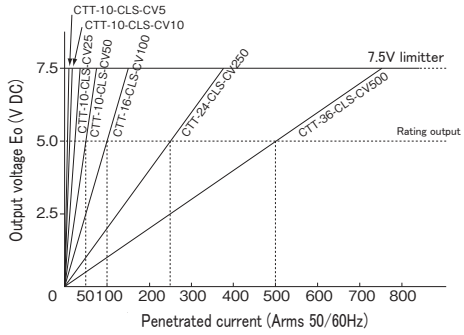
〔Feature〕

- Only for 50/60Hz of commercial power supply, average rectifier type current converter of AC current detection and DC voltage output
- Without power supply, output 0-5VDC measure signal directly from sensor
- Extremely simple to mount with integrated mode of clamp type sensor and converter
- Possible to measure with isolation
- Corresponding to wide range of current from 0 ～ 5A to 0 ～ 500A

〔Outline drawing・Connection〕



〔Output voltage characteristic〕



〔Specification〕 Ta=25℃

Model		CTT-10-CLS-CV5	CTT-10-CLS-CV10	CTT-10-CLS-CV25	CTT-10-CLS-CV50	CTT-16-CLS-CV100	CTT-24-CLS-CV250	CTT-36-CLS-CV500
Rating current		5Arms (50/60Hz)	10Arms (50/60Hz)	25Arms (50/60Hz)	50Arms (50/60Hz)	100Arms (50/60Hz)	250Arms (50/60Hz)	500Arms (50/60Hz)
Output voltage		0 ～ 5VDC/0 ～ rating current, build in 7.5VDC limitter (Recommended load resistor ≧10MΩ)						
Maximum current		100%(continuous)、150%(1min)						
Linearity		±2% FS dynamic range 1:100 (50/60Hz sine wave)						
Output impedance		7kΩ (typ)	8.5kΩ (typ)	6.8kΩ (typ)	6.2kΩ (typ)	5.8kΩ (typ)	5.8kΩ (typ)	5.8kΩ (typ)
Response time		300ms (typ)						
Output ripple		Within 5% of output						
Withstand voltage		AC2000V(50/60Hz), 1min (Core-output terminal in a lump)						
Insulation resistance		DC500V, ≧100MΩ (Core-output terminal in a lump)						
Operating temperature		-20℃～ +50℃ , ≦80%RH, No condensation, for indoor assembly, free direction for setting						
Storage temperature		-30℃～ +90℃、≦85%RH, No condensation						
Fitting repeatability		≃100 times						
Output terminal		2XM3 screw terminal with terminal cover						
Screw torque		0.3N・m						
Mass		approximately 45g				approximately 75g	approximately 200g	approximately 290g
Dimension	A	50				55	74.5	91
	B	37				40.5	49.5	61
	C	23				29.5	45	57
	D	26				31	34	40.5
	E	14.5				19	22	22
	φ	10				16	24	36

〔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)Corresponding to small current for rating current below 10A, current sensitivity to be N times with N turns of penetrated wire into sensor body
(5)Specification is expressed the characterization based on 50/60Hz sine wave current. Corresponding to different waveform and frequency is necessary to be checked beforehand.
(6)Because of relatively high output impedance, output interface is limited as high impedance specification

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