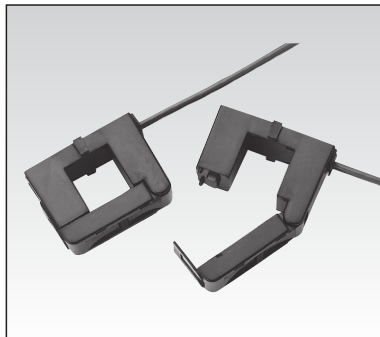


Split core clamp type sensor

Clamp type AC current sensor for monitoring of wide band and earth wire ($\phi 22 / 120\text{Arms}$)

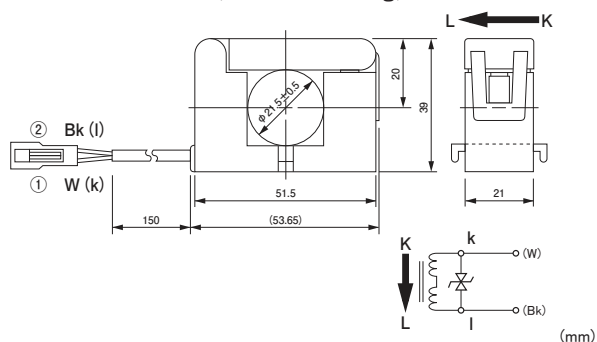


Model CTU-22-CLF

[Features]

- One touch clamp type CT possible to mount to earth wire until 100mm ϕ
- Possible to earn good output linearity of super wide range of 1mA~120A
- Built in over voltage clamped device
- Adoption of split winding wire structure and ferrite core to reduce the influence of close conductor

[Outline drawing]

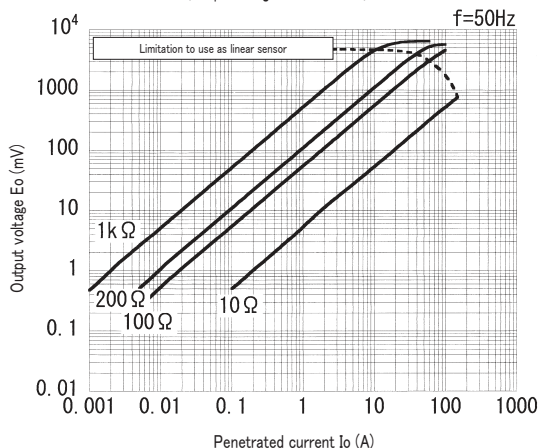


[Specification] $T_a=25^\circ\text{C}$

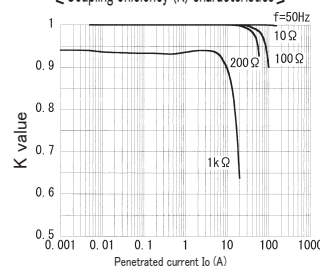
Model	CTU-22-CLF
Primary current	1mA ~ 120Arms (50 / 60Hz)、 $R_L \leq 10\Omega$
Maximum primary current	120Arms continuous
Saturation limited current	Below dot line in Output voltage characteristic
Output characteristics	4V \pm 2% / 40A (50/60Hz, $R_L=200\Omega$)
Linearity	$\pm 1\%$ FS/40A (50/60Hz, $R_L=200\Omega$)
Current ratio	2000 : 1
Secondary windings resistance	90 Ω (reference)
Open circuit protection	Built in 7.5Vp clamped device
Withstand voltage	AC1000V(50/60Hz), 1min(between core and output connector terminal in a lump)
Insulation resistance	DC500V, $\geq 100M\Omega$ (between aperture and output connector terminal in a lump)
Operating temperature	-10 $^\circ\text{C}$ ~ +50 $^\circ\text{C}$, $\leq 80\%$ RH, no condensation, for indoor assembly, free direction for setting
Storage temperature	-30 $^\circ\text{C}$ ~ +90 $^\circ\text{C}$, $\leq 80\%$ RH, no condensation
Structure	PBT case, pin hinge structure
Output wire	VVC-0.18X7 coresX2C(150 Ω)
Output connector	Pin contact : SYM-001T-P0.6 Receptacle housing : SMR-02V (JST)
Mating connector	Socket contact : SHF-001T-0.8BS Plug housing : SMP-02V-BC、NC (JST) (Not included)
Mass	approximately 60g

Remark (1) With impacted force on joint surface, there are breakage of ferrite core
 (2) No tension to wire more than 1kg
 (3) Influence from external magnetic field to be changed by the distance, direction, and circuit condition. Separately, graph (Directivity with close conductor) prepared.
 (4) Preparing extension wire as separately selling for extension of output wire
 (5) In the contents of product specification, inspection, and so on, it is based on the measurement in conditions of standard temperature, humidity, and no abnormality and no vibration, in the case of no special description.
 (6) Impossible to use in outdoor exposure.
 (7) Though voltage clamped $\pm 7.5\text{Vp}$ with open protection device in the case of wiring during hot line condition accidentally, it is not the acceptance of wiring during open condition, but it is for secondary electrical shock protection.

[Output voltage characteristics]



[Coupling efficiency (K) characteristics]



(Possible to calculate output voltage with reading (K) from load resistor and penetrated current)
 $E_o = K \cdot I_o \cdot R_L / n \text{ (Vrms)}$

[Frequency characteristics]

