SPECIFICATION OF AC CURRENT SENSOR

AC Current Sensor CTL Series

CTL Series are compact and CT(Current Transformer) type AC Current sensors for the purpose of measuring and controlling.

They are durable structure, molded with epoxy in plastic case,

Pass a cable through the center hole of the sensor, and you can measure

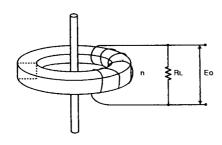
AC Current in a high pracision and a high reliability.

There are 2 series; CTL general purpose series for general measurement and

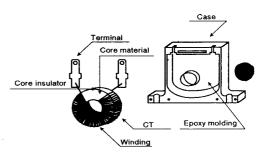
CTL-Z series for precision measurement. It is therefore possible to select

according to the requirement.

PRINCIPLE



STRUCTURE



The basic principle is a Current Transformer with transforming ratio 1/n. Flow the secondary current to load resistance, and you can transform it into Voltage signal.

Eo : Output Voltage (Vrms)

K : Coupling coefficient of CT.

lo : Primary Current (Arms)

RL : Load Resistance(Ω)

n : Numbers of Secondary windings(Turns)

CT which is a ring core with troidal windings is molded with epoxy in the plastic case, therefore a durable structure. The excellent isolation between CT and Thru-hole cable is assured.

The secondary windings are output by lead wires or pins.

MITYPICAL MODELS / SPECIFICATIONS TABLE

Models	Application	Dia, Thru-hole	Secondary	Non-distorted	Current	Max. Allow-	Outline
		(mm) ±0.5	Winding (Turns)±2	Output Voltage ≤Dist.3%	Range (Arms)	able Current (Arms)	Ref. (FIG)
CTL-6-S	Measure-	5. 8	800	2. 9	0.1~80	80	10
CTL-6-P	ment	5. 8	800	2. 9	0.1~80	80	11
CTL-12-536-10		12	1000	13. 0	0.1~280	280	16
CTL-24-TE		24	1000	9. 5	0.1~240	400	21
CTL-6-L-Z		6	800	0. 65	0.001~15	60	5
CTL-6-S-Z	Presision	5. 8	800	1. 4	0.001~20	80	10
CTL-6-P-Z	Measure-	5. 8	800	1. 4	0.001~20	80	11
CTL-12-S30-10Z	ment	12	1000	4. 0	0.001~100	280	16
CTL-12-S28-10Z		24	1000	3. 7	0.001~80	400	21

N.B. There are other many standard products except the above models. Contact us please,

MODEL: CTL-6-L

CURRENT RANGE: 0.1...40 A

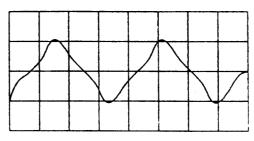
BANDWIDTH: 20....50 KHz



10 = 5A

RL = IKQ

Distortion:≥10%

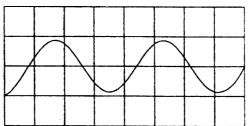


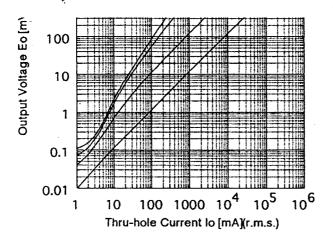
 C

10 = 3A

RL = 100 Q

Distortion:≤1X



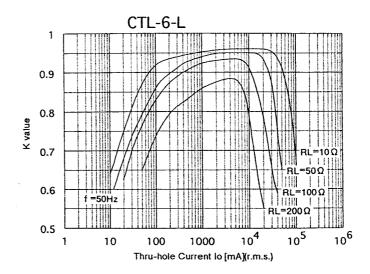


Coupling Coeficient(K) Characteristeristic

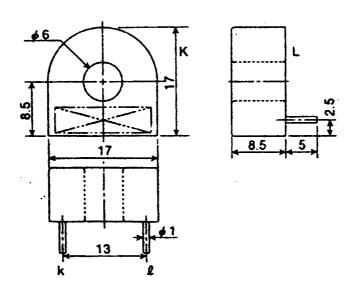
The output voltage(Eo) can be calculated by the following formula:

The coupling coefficient (K) is proportionally readable in the characteristic curves.

Eo = K . lo . RL/n (Vrms)



DIMENSION OF CTL-6-L



price: 1500 bht +vat

PRC Technologies Corporation Ltd.

T: 932-2154, 932-3118 F: 932-3116

Email: prctec@anet.net.th

www.prctechnologies.co.th

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