

CURRENT TRANSDUCERS

RMS CURRENT TRANSDUCER/SPLIT CORE C.T. MODEL CTRS

FEATURES

- Accurate measurement of the true RMS value of input signal.
- Split Core current sensors for easy installation.
- Open circuit protection.
- Flexible rogowski coils (air core CTs) are used for current measurement ranges of 1kAac and larger.

SPECIFICATIONS

INPUT

Current..... See Table
Frequency Range (Non "R" Models)..... 50-60Hz
"R" Models..... 20-2kHz
Current Overload 2X F.S. (cont.)
5X (10 Sec. transient)
10X (1 Sec. transient)

Dielectric Test....(Input/Output/Case).....1500Vac

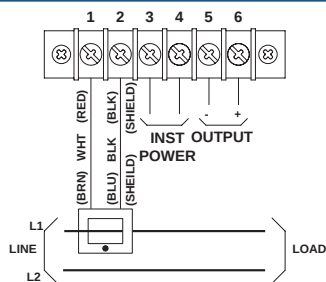
OUTPUT

Output Ripple..... <1.0% F.S.
Response....(90%)(Non "R" Models)100ms
"R" Models.....300ms
Output Loading (Ω)
0-1mA 0-10K Ω
0-10Vdc, 0-5Vdc 2K Ω min.
4-20mA 0-500 Ω
Field Adjustable Cal..... $\pm 10\%$

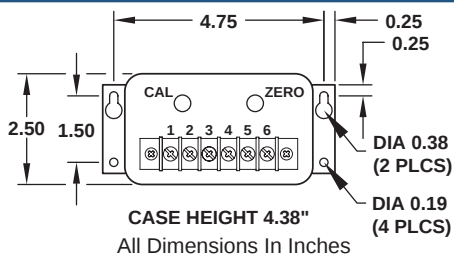
ACCURACY & LINEARITY

Model 5A & 10A..... $\pm 0.5\%$ F.S.
15A-1000A..... $\pm 0.25\%$ F.S.
1KA-40KA(Rogowski Coil)
Set point (w/conductor centered in window) $\pm 1.0\%$ F.S. @ 60Hz
Linearity $\pm 0.25\%$ F.S. @ 60Hz
Position Sensitivity $\pm 2.0\%$ F.S.
Temperature Effect.....(-20°C to +60°C) $\pm 1.0\%$ Rdg.
Instrument Power (Std.)..... 115Vac, $\pm 15\%$, 50/60Hz, 3.5VA
Optional 230V Instr. Power..... Add Suffix "-22"
Weight Approximately 1.5 Lbs.

CONNECTION DIAGRAM



DIMENSIONS



CAUTION: To prevent damage to power lines, transducer or personnel, **NEVER** connect the current inputs directly or use 5 amp secondary current transformers, always use the transformers provided with the unit.

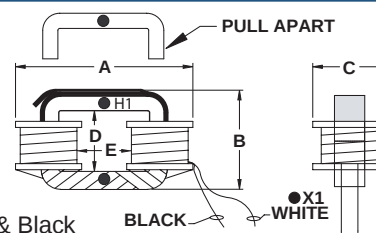


ORDERING INFORMATION

Example: 10kAac Input with
0-10Vdc Output, 230Vac Inst. Power and
10.5" Dia. Rogowski Coil
CTRS-103RD-22-1

INPUT CURRENT	STANDARD OUTPUTS MODEL CTRS-			
	0-1mAdc	4-20mAdc	0-10Vdc	0-5Vdc
0 to 5	005B	005E	005D	005X5
0 to 10	010B	010E	010D	010X5
0 to 15	015B	015E	015D	015X5
0 to 20	020B	020E	020D	020X5
0 to 25	025B	025E	025D	025X5
0 to 50	050B	050E	050D	050X5
0 to 100	101B	101E	101D	101X5
0 to 200	201B	201E	201D	201X5
0 to 300	301B	301E	301D	301X5
0 to 400	401B	401E	401D	401X5
0 to 500	501B	501E	501D	501X5
0 to 1000	102B	102E	102D	102X5
0 to 1K	102RB	102RE	102RD	102RX5
0 to 2K	202RB	202RE	202RD	202RX5
0 to 5K	502RB	502RE	502RD	502RX5
0 to 10K	103RB	103RE	103RD	103RX5
0 to 15K	153RB	153RE	153RD	153RX5
0 to 20K	203RB	203RE	203RD	203RX5
0 to 25K	253RB	253RE	253RD	253RX5
0 to 30K	303RB	303RE	303RD	303RX5
0 to 40K	403RB	403RE	403RD	403RX5

SENSOR DIMENSIONS (5A to 1000A)



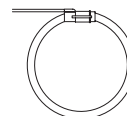
Lead Lengths
72", 16 AWG, White (X1) & Black

INPUT AMPS AC	SENSOR SIZE	DIMENSIONS					WT. LBS.
		A	B	C	D	E	
5-100	A	2.80	2.00	1.12	1.09	1.09	0.4
200-500	B	3.85	3.80	1.30	2.40	1.25	0.8
1000	C	5.50	4.90	1.60	3.15	3.20	1.5

SENSOR DIMENSIONS (1000A to 40KA)

Sensor ID

Standard 6.5" 23.6" in Length
Option "-1" 10.5" 35.4" in Length
Option "-2" 14" 47.2" in Length
Option "-3" 21.5" 70.9" in Length



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