



PRECISION CURRENT TRANSDUCERS

CT1KLTS-X87

SPECIFICATIONS

INPUTS:

Current Range (Linear)	O-1000A AC, dc
Frequency Response	dc To 5K Hz
DC Insertion Loss	NONE
Inductance	NEGLIGIBLE
Isolation (With 3/4 Dia Buss Through Window Opening)	5K Vdc
Excitation Current Required	NOMINAL 100 mA dc
	MAXIMUM 400 mA dc
Input Resistance	23Ω ± 5Ω

OUTPUT:

Output With Excitation Current Of 100 mA	50 mV - 10 mV +20 mV
Linearity O-1000A Peak AC, dc	±0.5% FS
Error At 2000A Peak AC, dc	-10%
Response Time To 90%	50 μSEC
Output Resistance @ 25 °C	25Ω ± 5Ω
Initial Offset @ 100 mA	< ±1 mV
Loading On Output (For Rated Accuracy)	≥10K Ω
Effect Of Temperature On Output -40 °C To +65 °C	±1%

DIMENSIONS AND CONNECTIONS

Sensor Dimensions
Transducer

See Attached Bulletin CT88-1
DWG "E"

CALIBRATION

THE MILLIVOLT OUTPUT SHOWN ON THE LABEL ATTACHED TO THE TRANSDUCER IS DETERMINED BY APPLYING THE FULL SCALE CURRENT OF 1000 AMPS AND ADJUSTING THE EXCITATION CURRENT TO OBTAIN THE 50 MILLIVOLT READING. THE EXCITATION CURRENT IS THEN RECORDED ON THE ATTACHED LABEL.

POLARITY

THE OUTPUT POLARITY IS RELATED TO THE POLARITY OF THE EXCITATION CURRENT AND THE DIRECTION OF CURRENT FLOW THROUGH THE WINDOW OF THE TRANSDUCER. THE "RED DOT" SIDE ON THE CURRENT TRANSDUCER MUST BE TOWARD THE MOST POSITIVE CURRENT TERMINAL FOR PROPER POLARITY.