Product Specification

SPECIFICATION FOR 5VDC OUTPUT AC CURRENT SENSOR

Model number					
	CQ25-30A-5VDC-60HZ				
Absolute stress above which the unit may be damaged.		**Min.**		**Max.**	**unit**
	Ambient temperature	-40		80	℃
	Measured current (monotonic but not linear above rating)			120	A-rms max.
	Shock (any axis)			2500	g
Range over which operation is guaranteed.		**Min.**		**Max.**	**unit**
	Ambient temperature	-5		70	℃
	Frequency	59		61	Hz
	Total harmonic distortion of sensed current (Note 2)			3.0	percent
	Vibration (1Hz-10kHz)			200	g
Operating parameters.		**Min.**	**Typ.**	**Max.**	**unit**
	Input current	0.0	30.0	36.0	A-rms
	Output voltage	0	5.0	6.0	V dc
	Output impedance (Note 1)		11.6		k Ω
	Load impedance, undamaged 0 to ∞ load (Note 1)	0		Infinity	Ω
	Sensor internal resistance		11.1		k Ω
	Thermal coefficient, potting B		-0.039		% / °C
	Rise time constant		90		msec
	Fall time constant		100		msec
Physical		**Min.**	**Typ.**	**Max.**	**unit**
	Current wire hole size		0.5	0.5	inch
	Depth		0.5		inch
	Height		1.4		inch
	Width		1.5		inch
	Weight		35		grams
	Polarized output wire leads		12		inch
	Flammability, 94 V-O, self extinguishing				
Note 1	Sensors are calibrated with 500 kΩ ± 2% //300 pf.				
	instumentation capacity.				
Note 2	Sensor response nearly identical for all				
	waveforms; sine, square, or triangle (except triacs).				
Note 3	The sensor output impedance is approx.11.5kΩ // 4.7uf.				
Note 4	Maximum output current obtained by dividing output				
	volts by sensor internal resistance.				
Note 5	Sensors are powered by current being measured.				

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Inductive AC voltage and current sensors