

Current Transducer CA55-P

I_{PN} (r.m.s)=50A

For the electronic measurement of currents : DC, AC, pulsed..., with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).

Performance data

Primary nominal r.m.s. current	50	A.t
Primary current measuring range	0..±70	A.t
Measuring resistance (@ $T_A=70^{\circ}\text{C}$)	R_{Mmin} R_{Mmin}	
±12V @ ±50A	10 100	Ω
@ ±70A	10 50	Ω
±15V @ ±50A	50 160	Ω
@ ±70A	50 90	Ω
Secondary nominal r.m.s. current	50	mA
Conversion ratio	1: 1000	
Supply voltage (± 5 %)	±12..±15	V
Current consumption	10(@ ±15V)+Is	mA
R.m.s. voltage for AC isolation test,	2500	V/50Hz/1min
Accuracy @ I_{PN} , $T_A=25^{\circ}\text{C}$	±0.7%	
Linearity	±0.15%	
Offset current @ $T_A=25^{\circ}\text{C}$, $I_P=0$	±0.2	mA
Thermal drift of I @ $0^{\circ}\text{C}..+70^{\circ}\text{C}$	±0.5	mA
Response time @ $I_{PN}90\%$	<1	μS
Di/dt	>200	A/ μS
Frequency bandwidth	DC..200	kHz
Ambient operating temperature	-40..+85	$^{\circ}\text{C}$
Ambient storage temperature	-45..+90	$^{\circ}\text{C}$
Mass	18	g



Dimensions & connections

