NCA1C Series Current Transducer

Applications:

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

Main technical data:

1. Primary normal current I_{PN} (r.m.s) Primary current measuring range

		Туре
50A	+/-150A	NCA1C-50A
100A	+/-300A	NCA1C-100A
200A	+/-600A	NCA1C-200A
300A	+/-900A	NCA1C-300A
400A	+/-900A	NCA1C-400A
500A	+/-900A	NCA1C-500A
600A	+/-900A	NCA1C-600A

- 2. Supply voltage: $\pm 15(1\pm5\%)V$
- 3. Current consumption: ≤ 25 mA
- 4. Isolation test: Between the primary circuit
- to the secondary circuit(+.-.M): 3kV/50Hz/1min
- 5. Normal output voltage: 4Vrms
- 6. Loading resistance: $\geq 10 \mathrm{k} \Omega$

Accuracy – Dynamic performance Data

- 1. Accuracy @ I_{PN} , $T_{A} = +25^{\circ}C$: $\leq \pm 1\%$
- 2. Non-linearity (@ I_{PN}) : $\leq 1\%$
- 3. Electrical offset voltage V_{OE} , $T_A = +25^{\circ}C$: $\leq \pm 40 \text{mV}$
- 4. Thermal drift of $V_{OE} \approx \pm 1 \text{mV/}^{\circ}\text{C} (-40^{\circ}\text{C} \sim +85^{\circ}\text{C})$
- 5. Response time (@ 90% of I_p): $\leq 3us$
- 6. di/dt accurately followed: > 50A/us

General data:

- 1. Operating temperature: $-40^{\circ}C \sim +85^{\circ}C$
- 2. Storage temperature: $-45 \degree C \sim +90 \degree C$
- 3. Weight: approx. $60g \pm 5g$
- 4. Standards: EN50178



Features:

- 1. Hall effect measuring principle
- 2. Galvanic isolation between primary and secondary circuit
- 3. Insulated plastic case made of white PPO recognized according to UL 94-V0
- 4. The whole current transducer comply with RoHS Directive completely

Dimension:



Note: Four-pin socket type : 22-04-1041 (MOLEX) \leftrightarrow

Connection:

