

Hall Current Sensor HIEM-NC-25LTS

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).



Electrical data

TYPE		NC-06LTS	NC-10LTS	NC-15LTS	NC-25LTS
parameter	sign				
Primary nominal r.m.s. current	I_{PN}	6A	10A	15A	25A
Primary current measuring range	I_P	$0 \sim \pm 18A$	$0 \sim \pm 30A$	$0 \sim \pm 45A$	$0 \sim \pm 75A$
Secondary nominal RMS voltage	V_{SN}	$2.5V + 0.625V$ at $I = +I_{PN}$ $2.5V - 0.625V$ at $I = -I_{PN}$			
Supply voltage	V_C	$+5V$ DC $\pm 5\%$			
Zero offset current @ $I_{PN} = 0, T_A = 25^\circ C$	I_0	$2.5V \pm 0.025V$ at $I_{PN} = 0$			
Thermal drift of offset current @ $I_{PN} = 0$	I_{OT}	300ppm/ $^\circ C$	200ppm/ $^\circ C$	150ppm/ $^\circ C$	100ppm/ $^\circ C$
Linearity of V_{SN} at $I_{PN} = F.S$	ϵ_L	$\pm 0.1\%$ of V_{SN} at $I_{PN} = F.S$			
Response time	T_r	1 μs Type			
R.m.s. voltage for AC isolation test	V_d	2.5KV/50 or 60Hz/1min			
Ambient operating temperature	T_a	$-10 \sim +80^\circ C$ E: $-40 \sim +85^\circ C$			
Ambient storage temperature	T_s	$-15 \sim +85^\circ C$ E: $-45 \sim +105^\circ C$			

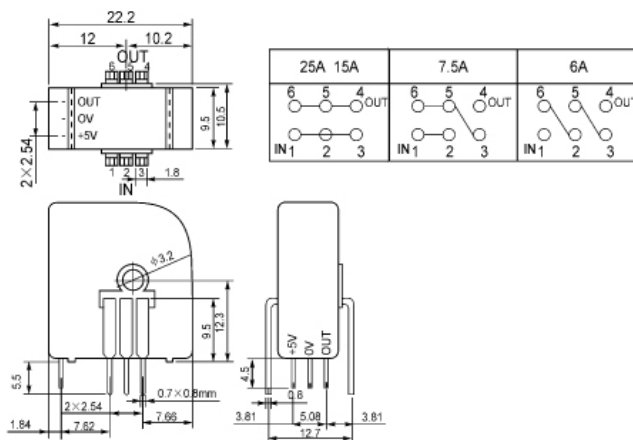
Features

1. Opened loop (compensated) multirange current sensor using the Hall effect
2. Voltage supplies
3. Small size and space saving
4. Very low temperature drift
5. Wide frequency bandwidth
6. High immunity to external interference

Applications

1. AC variable speed drives and serve motor drives
2. Uninterruptible Power Supplies (UPS)
3. Battery supplied applications
4. Power supplies for welding

Dimension(mm)



Pin Identification

- +5V: positive power
- 0V: GND
- Out: output pin