

Hall Current Sensor

HIEM- NC-25SY Electrical data



Features

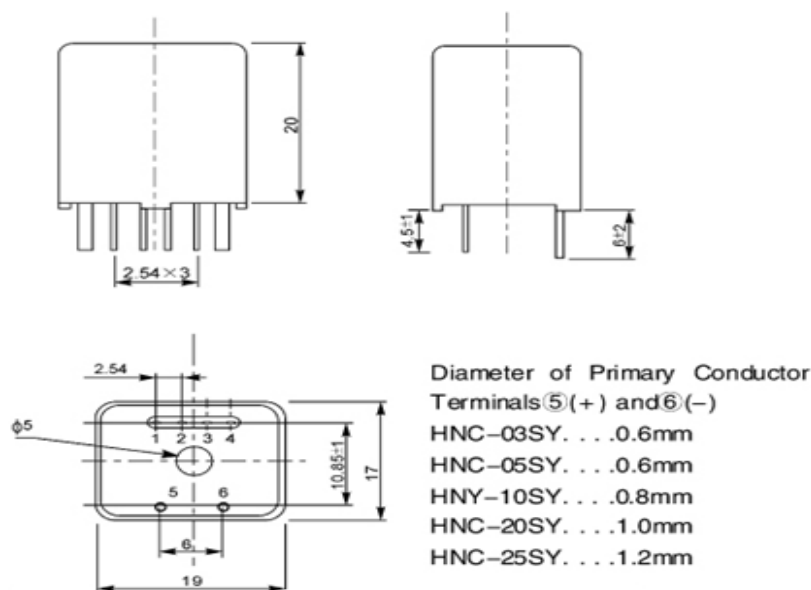
1. Closed loop (compensated) multirange current sensor using the Hall effect
2. Voltage supplies
3. Very low temperature drift
4. Wide frequency bandwidth
5. High immunity to external interference

Applications

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

TYPE		NC-03SY	NC-05SY	NC-10SY	NC-20SY	NC-25SY
parameter	sign					
Primary nominal r.m.s.current	I_{PN}	3A	5A	10A	20A	25A
Primary current measuring range	I_P	0~ ±4.5A	0~ ±7.5A	0~ ±15A	0~ ±30A	0~ ±37.5A
Secondary nominal RMS voltage	V_{SN}	4V ± 1% (at $R_L=10K\Omega$)				
Supply voltage	V_C	±15V (±5%)DC				
Zero offset voltage@ $I_{PN}=0, T_A=25^\circ C$	V_0	±30mV at $I_{PN}=0$				
Thermal drift of offset voltage@ $I_{PN}=0$	v_{0T}	±1mV/°C at $I_{PN}=0$				
Linearity of V_{SN} at $I_{PN}=F.S$	ϵ_L	<0.25% of V_{SN} at $I_{PN}=F.S$				
Response time	T_r	1μs Max				
R.m.s. voltage for AC isolation test	V_d	2.0KV/50Hz or 60Hz /1min				
Ambient operating temperature	T_a	-10~+70° C E:-40~+85° C				
Ambient storage temperature	T_s	-15~+85° C E:-45~+105° C				

Dimension(mm)



Pin Identification

- 1: -15V
- 2: 0V
- 3: +15V
- 4: Voltage Output
- 5: Primary input Current
- 6: Primary output Current