Hall Current Sensor HNC-100LA

Electrical data

TYPE		HNC-25LA	HNC-50LA	HNC-75LA	HNC-100LA
parameter	sign				
Primary nominal r.m.s. current	I_{PN}	25A	50A	75A	100A
Primary current measuring range	I_P	0～±38A	0～±75A	0～±105A	0～±150A
Secondary nominal RMS current	I_{SN}	25mA	50mA		
Supply voltage	V_C	±15V DC ±5%			
Zero offset current @I_{PN} =0,T_A = 25°C	I_0	±0.2mA MAX		±0.15mA MAX	
Thermal drift of offset current@I_{PN} =0	I_{0T}	±0.1mA TYPE ±0.5mA MAX		±0.1mA TYPE ±0.25mA MAX	
Linearity of V_{SN} at I_{PN} =F.S	ε_L	within±0.15% of I_{PN} at I_{PN} = F.S			
Response time	Tr	<1μs TYPE			
R.m.s. voltage for AC isolation test	Vd	2.5KV/50Hz or 60Hz/1min			
Ambient operating temperature	Ta	-10～+80° C E:-40～+85° C			
Ambient storage temperature	Ts	-15～+85° C E:-45～+105° C			

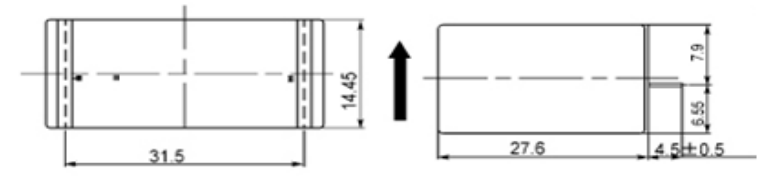
Features

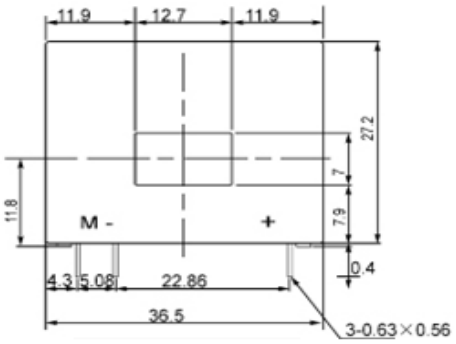
1.Closed loop (compensated) multirange current sensor using the Hall effect
2.High accuracy
3.Very low temperature drift
4.Wide frequency bandwidth
5.High immunity to external interference

Applications

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

Dimension(mm)





Connection diagram