

Hall Current Sensor HNC-50LX

Electrical data

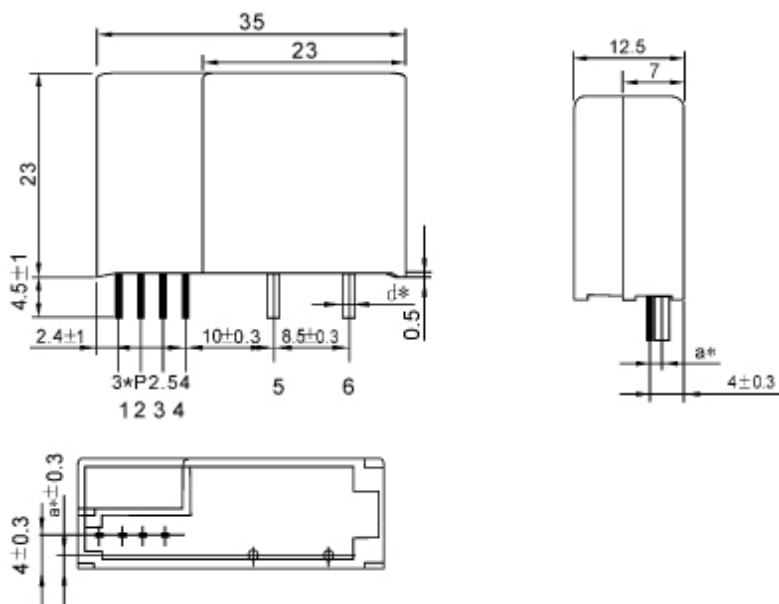
TYPE		HDC-05LX	HDC-10LX	HDC-15LX	HDC-20LX	HDC-25LX	HDC-30LX	HDC-50LX
parameter	sign							
Primary nominal r.m.s. current	I_{PN}	5A	10A	15A	20A	25A	30A	50A
Primary current measuring range	I_P	0~ ±75A	0~ ±15A	0~ ±22.5A	0~ ±30A	0~ ±37.5A	0~ ±45A	0~ ±75A
Secondary nominal RMS voltage	V_{SN}	4V±1% at I_{PN} ($R_L=10K\Omega$)						
Supply voltage	V_C	±15V±5% DC						
Zero offset voltage@ $I_{PN}=0$, $T_A=25^\circ C$	V_0	Within 30mV						
Thermal drift of offset voltage@ $I_{PN}=0$	V_{OT}	±1mV/°C						
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						
R.m.s. voltage for AC isolation test	V_d	2.5KV/50Hz/1min						
Ambient operating temperature	T_a	-10°C~+70°C E:-40°C~+85°C						
Ambient storage temperature	T_s	-15°C~+85°C E:-45°C~+105°C						



Features

1. Closed loop 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

Dimension(mm)



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.