

## 产品说明

## Applications

NACL150P-S6 系列高精度闭环型霍尔电流传感器的初、次级之间是绝缘的, 具有超强抗干扰能力; 用于测量直流、交流和脉动电流。

NACL150P-S6 series high-precision current sensor is a closed loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit. It has strong anti-jamming ability and it provides accurate electronic measurement of DC, AC or pulsed currents.

产品优点 Advantages	产品应用领域 Applications	参照标准 Standards
高精度 Excellent accuracy	变频调速系统 Variable speed drives	UL 94-V0
温度系数小 Low temperature of offset	通信电源 Battery supplied applications	EN 60947-1:2004
体积小 Small size	不间断电源 UPS Uninterruptible Power Supplies	EN50178:1998

### 主要电气参数 Main electrical data

(At Ta=+25°C)

额定测量电流 $I_{PN}$	Primary nominal current rms	150A
测量范围 $I_p$ (@ $V_c = \pm 15V$ )	Primary current measuring range	0 ~ $\pm 200A$
电源电压 $V_c$	Supply voltage	$\pm 15V \times (1 \pm 5\%)$
匝比 K	Turns ratio	1:2000
额定测量输出 $I_{SN}$	Secondary nominal current rms	75mA
负载电阻 $R_L$ (@ $\pm 15V, \pm 200A$ )	Load resistor	25°C
		0 $\Omega$ ~ 15 $\Omega$
二次侧电流消耗 $I_c$	Static Current consumption	$\leq 16mA$ + 输出测量电流 $I_{SN}$

### 精度 - 动态参数 Accuracy - Dynamic performance data

基本误差 $\delta_i$ (@Ta=+25°C, $I_p = I_{PN}$ )	Overall Accuracy	$\leq \pm 1\%$
线性度误差 $\delta_L$ (@Ta=+25°C, $I_p = I_{PN}$ )	Linearity error	$\leq 0.25\%$
零点输出误差 $\delta_z$ (Ta=+25°C)	Electrical offset voltage	$\leq \pm 0.2mA$
零点温度漂移 $\delta_{zt}$ (Ta=-10°C ~ +80°C)	Temperature coefficient of $\delta_{zt}$	$\leq \pm 0.005mA/°C$
响应时间 $t_r$ (@di/dt=100A/us, 90% $I_{PN}$ )	Step response time	$\leq 1 \mu s$
带宽 BW (-3dB)	Frequency bandwidth (-1dB)	DC ~ 100 kHz

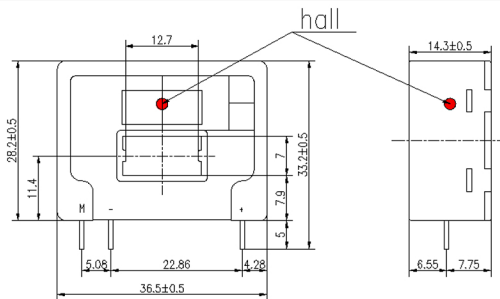
一般数据 General data

工作温度 $T_a$	Ambient operating temperature	-10℃~+80℃
储存温度 $T_s$	Ambient storage temperature	-40℃~+90℃
重量	Mass	≤25g

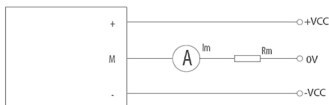
绝缘参数 Insulation data

绝缘电压 $U_d$ (@50Hz,1min)	Rms voltage for AC insulation test	2.5KV
绝缘电阻 $R_{is}$ (@2500V)	Isolation resistance	≥500 MΩ

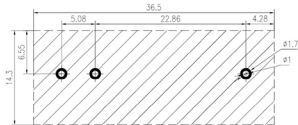
NACL150P-S6 电流传感器外形图 Dimensions NACL150P-S6 Series (in mm)



电气连接 Connection



1. 传感器安装方式：电路板焊接安装
2. 次边连接端子尺寸： $0.63 \times 0.56\text{mm}$
3. 原边安装方孔： $7 \times 12.7\text{mm}$
4. 推荐封装（单位 mm）：



产品的箭头方向为  $I_p$  的方向.

It will be in a forward direction when the  $I_p$  flows according to the direction of the arrowhead.