

NA200-P(NACL.200P1-S6) 电流传感器 Current Transducer

版本: A

产品说明
Applications

NA200-P 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。

NA200-P 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
(Ta=+25°C)**

额定测量电流 I_{PN}	Primary nominal current rms	200A
测量范围 I_p (@±24V)	Primary current measuring range	0~±300A
电源电压 V_c	Supply voltage	±12V~±15V×(1±5%)
匝比 K	Turns ratio	1:2000
额定测量输出 I_{SN} (@ $I_p=±I_{PN}$)	Secondary nominal current rms	100mA
负载电阻 R_L	Load resistor	25°C
(@±12V, ±200A)		0Ω ~ 26Ω
(@±15V, ±200A)		0Ω ~ 56Ω
(@±15V, ±300A)		0Ω ~ 8Ω
二次侧电流消耗 I_c	Static Current consumption	≤16mA + 输出测量电流 I_{SN}

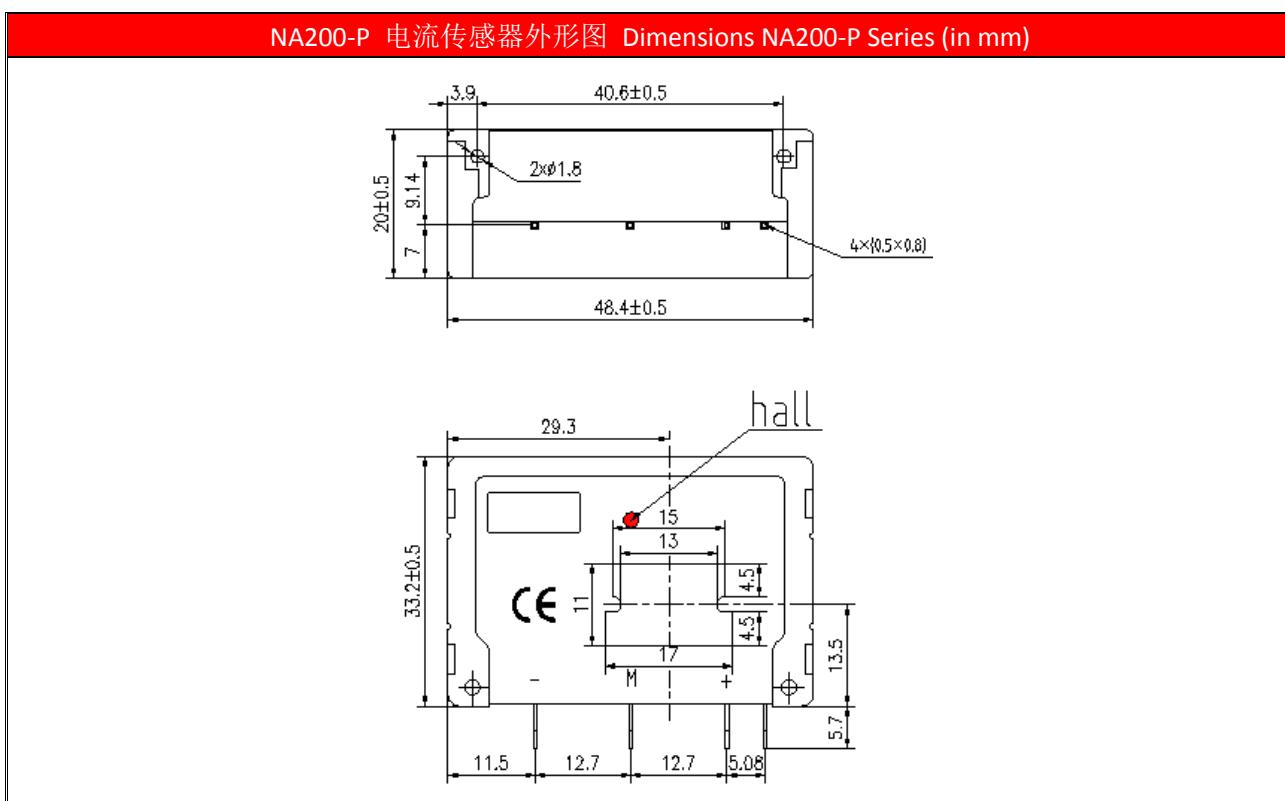
精度 - 动态参数 Accuracy - Dynamic performance data

基本误差 δ_i (@Ta=+25°C, $I_p=I_{PN}$)	Overall Accuracy	≤±0.6%
线性度误差 δ_L (@Ta=+25°C, $I_p=I_{PN}$)	Linearity error	≤0.15%
零点输出误差 δ_z (Ta=+25°C)	Electrical offset current	≤±0.25mA

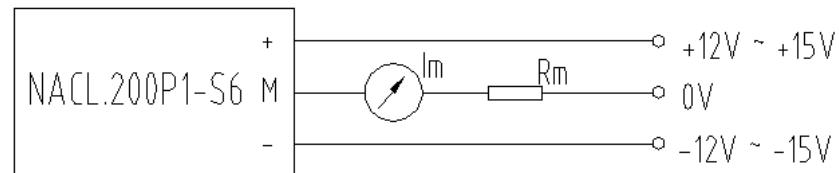
零点温度漂移 δ_{zt} (Ta=-25°C ~ +85°C)	Temperature coefficient of δ_{zt}	$\leq \pm 0.25\text{mA} (@ 0^\circ\text{C} \sim +70^\circ\text{C})$ $\leq \pm 0.25\text{mA} (@ -25^\circ\text{C} \sim +85^\circ\text{C})$
响应时间 t_r (@di/dt=100A/us, 90% I _{PN})	Step response time	$\leq 1\text{ }\mu\text{s}$
带宽 BW (-1dB)	Frequency bandwidth (-1dB)	DC ~ 100 kHz

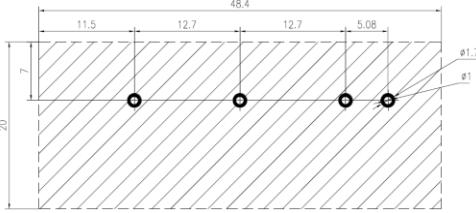
一般数据 General data		
工作温度 Ta	Ambient operating temperature	-25°C ~ +85°C
储存温度 Ts	Ambient storage temperature	-40°C ~ +90°C
重量	Mass	$\leq 50\text{g}$

绝缘参数 Insulation data		
绝缘电压 U _d (@50Hz, 1min)	Rms voltage for AC insulation test	3KV
绝缘电阻 R _{IS} (@2500V)	Isolation resistance	$\geq 500\text{ M}\Omega$



电气连接 Connection



机械特征 Mechanical characteristics	备注 Remark
<ol style="list-style-type: none">传感器安装方式: 电路板焊接安装 Installation method: circuit board welding installation次边连接端子尺寸: 0.63 mm×0.56mm connector size: 0.63 mm×0.56mm原边安装方孔: 13 mm×11mm The original installation square hole: 13 mm×11mm推荐封装 (单位 mm): Recommend encapsulation (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.