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	EN50178:1998
体积小 Small size	不间断电源 UPS Uninterruptible Power Supplies	

主要电气参数 Main electrical data (Ta=+25℃)		
额定测量电流 I_{PN}	Primary nominal current rms	200A
测量范围 I_P (@V_C=±15V)	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}	Secondary nominal current rms	100mA
负载电阻 R_L	Load resister	25℃
(@±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}

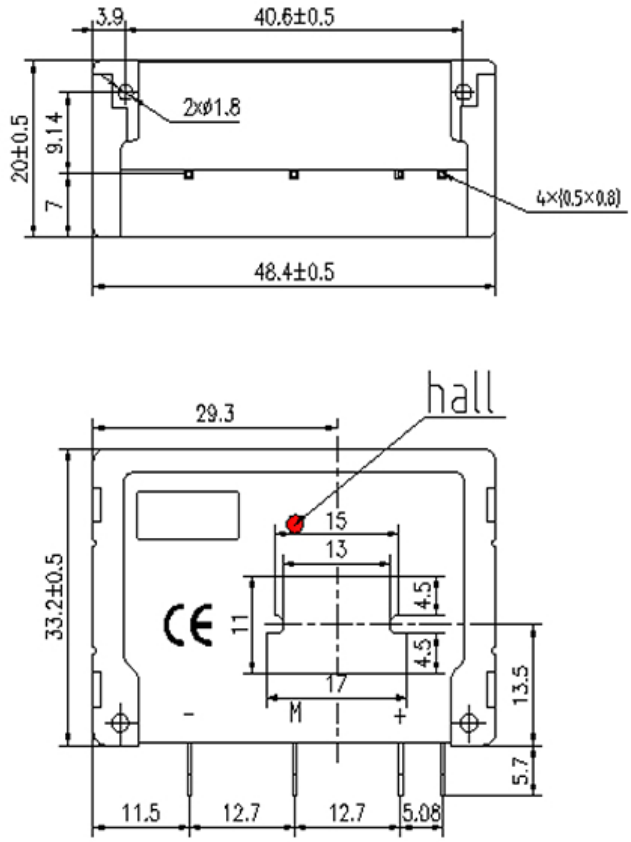
精度 - 动态参数 Accuracy - Dynamic performance data		
基本误差 δ_i (@Ta=+25℃, I_p=I_{PN})	Overall Accuracy	≤±0.6%
线性度误差 δ_L (@Ta=+25℃, I_p=I_{PN})	Linearity error	≤0.15%
零点输出误差 δ_{z}(Ta=+25℃)	Electrical offset current	≤±0.25mA
零点温度漂移 δ_{zt} (Ta=-25℃～+85℃)	Thermal drift	≤±0.25mA (@ 0℃~+70℃) ≤±0.25mA (@-25℃~+85℃)
响应时间 t_r (@di/dt=100A/us ,90% I_{PN})	Response time	≤1 us

带宽 BW（-1dB）	Frequency bandwidth（-1dB）	DC～100 kHz

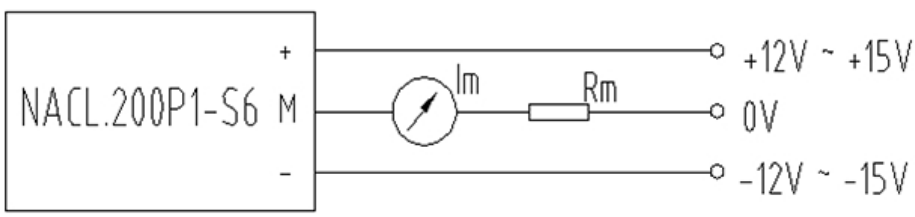
一般数据 General data		
工作温度 Ta	Ambient operating temperature	-25℃~+85℃
储存温度 Ts	Ambient storage temperature	-40℃~+90℃
重量	Mass	≤50g

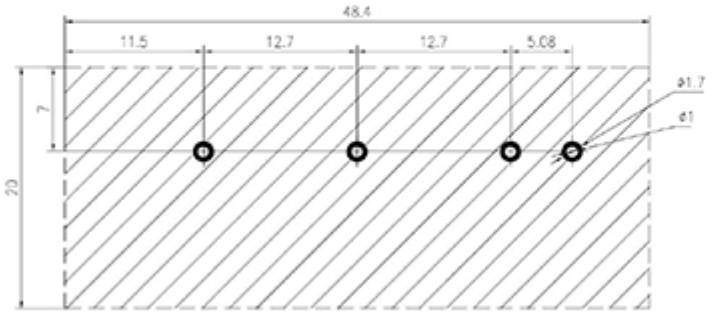
绝缘参数 Insulation data		
绝缘电压 U_d (@50Hz,1min)	Rms voltage for AC insulation test	3KV
绝缘电阻 R_{IS} (@2500V)	Isolation resistance	≥500 MΩ

NA200-P 电流传感器外形图 Dimensions NA200-P Series (in mm)



电气连接 Connection



机械特征 Mechanical characteristics	备注 Remark
1. 传感器安装方式：电路板焊接安装 Installation method: circuit board welding installation 2. 次边连接端子尺寸：0.63 mm×0.56mm connector size: 0.63 mm×0.56mm 3. 原边安装方孔：13 mm×11mm The original installation square hole: 13 mm×11mm 4. 推荐封装（单位 mm）： Recommend encapsulation (mm): 	产品的箭头方向为 Ip 的方向. It will be in a forward direction when the IP flows according to the direction of the arrowhead.