

产品说明

Applications

NACL-1000B-S5/SP2 磁平衡霍尔电流传感器适用于对交流、直流、脉冲电流的隔离精确测量，测量时一次侧与二次侧间完全绝缘。

For the electronic measurement of currents: AC, DC, pulsed ..., with galvanic separation between the primary circuits and the secondary circuits.

产品优点 Advantages	产品应用 Applications	参照标准 Standards
高精度 Excellent accuracy	交流变频器 AC variable speed drives	GB/T 25119-2010 EN50178 EN50155
线性度好 Very good linearity	私服电机驱动 Servo motor drives	
低温漂 Low temperature drift	电池供电 Battery supplied applications	
宽频带 Wide frequency bandwidth	变流器/逆变器 converter /inverter	
快速响应 Optimized response time	UPS/SVG	

主要电气参数 Main electrical data

(@ ±I<sub>PN</sub>, T<sub>A</sub> = 25 °C)

额定测量电流 I <sub>PN</sub>	Primary nominal current	1000A
测量范围 I <sub>PM</sub>	Primary current measuring range	±2100A
电源电压 V <sub>C</sub>	Supply voltage	DC ± (15~24) × (1 ± 10%)V
电流消耗 I <sub>C</sub> (@±24V)	Current consumption	≤ ±35mA + I <sub>SN</sub>
额定测量输出 I <sub>SN</sub>	Output current	200mA
匝比	Conversion ratio	1:5000
负载电阻 R <sub>M</sub>	Load resistance	@±15V, ±1000A: 0Ω~23Ω(70°C) 0Ω~19Ω(85°C) @±15V, ±1300A: 0Ω~7Ω(70°C) @±24V, ±1000A: 0Ω~63Ω(70°C) 10Ω~61Ω(85°C) @±24V, ±2100A: 0Ω~6Ω(70°C)

精度 - 动态参数 Accuracy - Dynamic performance data

基本误差 δ <sub>i</sub> (@I <sub>PN</sub> , T <sub>A</sub> =25°C)	Overall Accuracy	≤ ±0.4%
线性度 δ <sub>L</sub> (@I <sub>PN</sub> , T <sub>A</sub> =25°C)	Linearity error	≤ ±0.1%
零点输出电流 I <sub>O</sub> (@I <sub>P</sub> =0, T <sub>A</sub> =25°C)	Offset current	≤ ±0.4mA
零点温度漂移 I <sub>OT</sub>	Temperature coefficient of δ <sub>Zt</sub>	≤ ±0.8mA

响应时间 $T_R(90\% \text{ of } I_{PN} \& di/dt > 50 \text{ A}/\mu\text{S})$	Step response time to 90 % of $I_{PN}$	$\leq 1\mu\text{S}$
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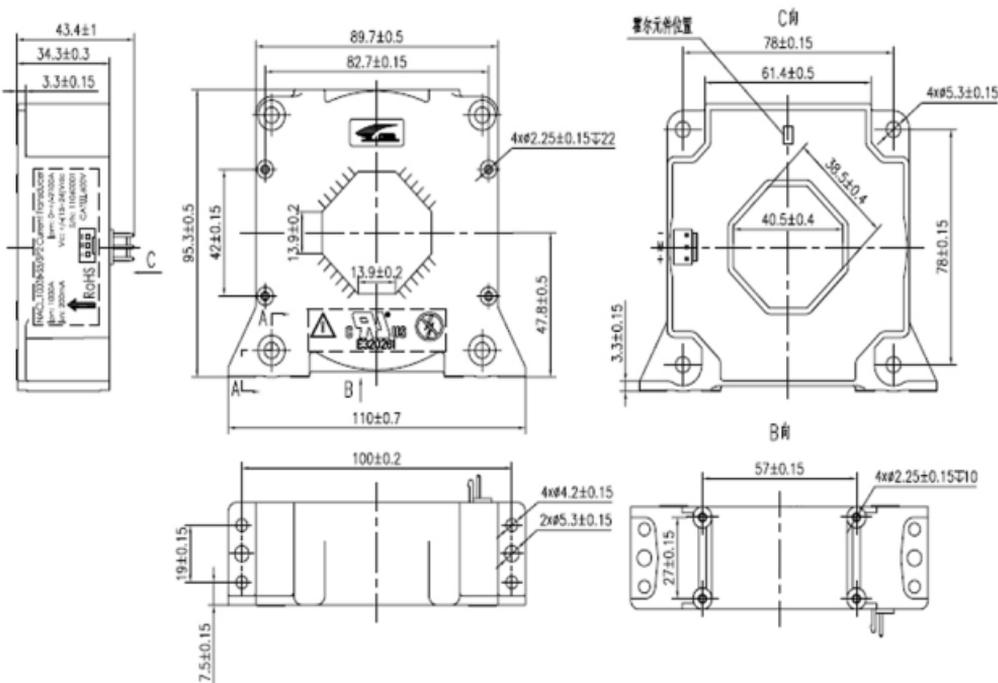
### 一般数据 General data

工作温度 $T_a$	Ambient operating temperature	$-40\sim+85^\circ\text{C}$
储存温度 $T_s$	Ambient storage temperature	$-45\sim+90^\circ\text{C}$
重量 $m$	Mass	$\leq 850\text{g}$

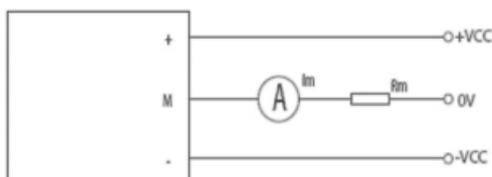
### 绝缘耐压 Insulation coordination

耐压	Voltage for AC insulation test, 50Hz, 1min	6kV
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### NACL1000B-S5/SP2 电流传感器外形图 Dimensions NACL1000B-S5/SP2 Series (in mm)



### 电气连接 Connection



连接端子 (Connector): JST S3P-VH