

NACL-300R1-S5/SP2 电流传感器 Current Transducer

版本: B

产 品 说 明

Applications

NACL-300R1-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	伺服电机驱动 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 (@ $\pm I_{PN}$, $T_A = 25^\circ\text{C}$)		
额定测量电流 I_{PN}	Primary nominal current	300A
测量范围 I_{PM}	Primary current measuring range	$\pm 500\text{A}$
电源电压 V_C	Supply voltage	$\text{DC} \pm (15 \sim 18) \times (1 \pm 5\%) \text{V}$
电流消耗 $I_C (@ \pm 24\text{V})$	Current consumption	$\leq \pm 25\text{mA} + I_{SN}$
额定测量输出 I_{SN}	Output current	100mA
匝比	Conversion ratio	1:3000
负载电阻 R_M	Load resistance	@ $\pm 15\text{V}$, $\pm 300\text{A}$: $0\Omega \sim 70\Omega$ @ $\pm 15\text{V}$, $\pm 500\text{A}$: $0\Omega \sim 3\Omega$ @ $\pm 18\text{V}$, $\pm 300\text{A}$: $0\Omega \sim 92\Omega$ @ $\pm 18\text{V}$, $\pm 500\text{A}$: $0\Omega \sim 40\Omega$

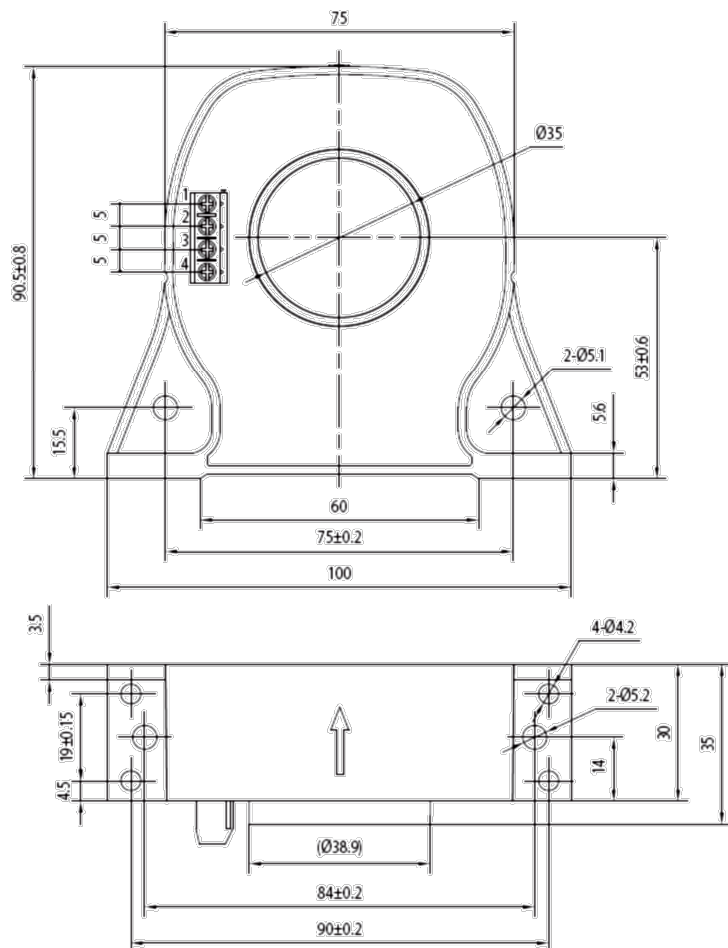
精度 - 动态参数 Accuracy - Dynamic performance data		
基本误差 $\delta_i (@ I_{PN}, T_A = 25^\circ\text{C})$	Overall Accuracy	$\leq \pm 0.4\%$
线性度 $\delta_L (@ I_{PN}, T_A = 25^\circ\text{C})$	Linearity error	$\leq \pm 0.1\%$
零点输出电流 $I_O (@ I_P = 0, T_A = 25^\circ\text{C})$	Offset current	$\leq \pm 0.13\text{mA}$
零点温度漂移 I_{OT}	Temperature coefficient of δ_{zt}	$\leq \pm 0.64\text{mA} (@ -40^\circ\text{C} \sim +85^\circ\text{C})$
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}	$\leq 1\mu\text{S}$

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	$-40 \sim +90^\circ\text{C}$

重量 m	Mass	≤400g
------	------	-------

绝缘耐压 Insulation coordination		
耐压	Voltage for AC insulation test, 50Hz, 1min	6kV

NACL.300R1-S5/SP2 电流传感器外形图 Dimensions NACL.300R1-S5/SP2 Series (in mm)



电气连接 Connection

