

NACF.200F-S5/VN 电流传感器 Current Transducer

版本：A

产品说明

Applications

NACF.200F-S5/VN 开环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	产品应用领域 Applications	参照标准 Standards
体积小 Small size and space savings	变频器 Static converters	EN 50178: 1998 IEC 61010-1:2010

主要电气参数 Main electrical data (@ $\pm I_{PN}$, $R_L = 10 \text{ k}\Omega$, $T_A = 25^\circ\text{C}$)		
额定测量电流 I_{PN}	Primary nominal current	200A
测量范围 I_{PM}	Primary current measuring range	$\pm 600\text{A}$
电源电压 V_C	Supply voltage	DC $\pm 15(1 \pm 5)\text{V}$
电流消耗 I_C	Current consumption	$\leq \pm 20\text{mA}$
额定测量输出 V_{OUT}	Output voltage	$\pm 4\text{V}$
负载电阻 R_L	Load resistance	$\geq 10\text{k}\Omega$

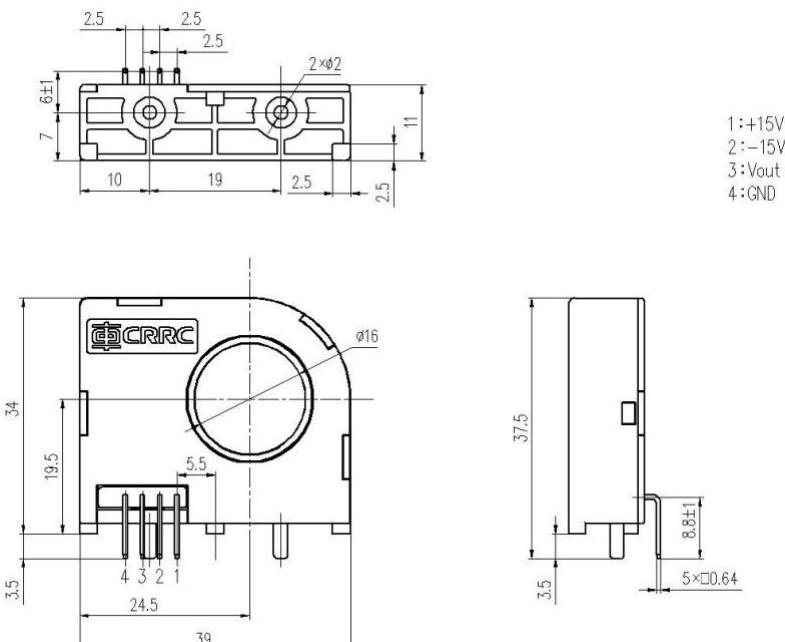
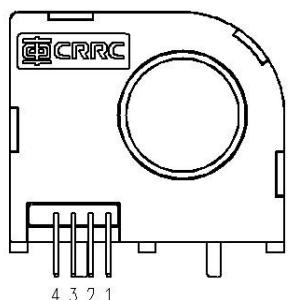
精度 - 动态参数 Accuracy - Dynamic performance data		
基本误差 $\delta_i(I_{PN}, T_A=25^\circ\text{C})$	Accuracy(excluding offset)	$\leq \pm 1\%$ of I_{PN}
线性度 $\delta_L(0 \dots \pm I_{PN})$	Linearity error	$\leq \pm 1\%$ of I_{PN}
零点输出误差 $\delta_Z(T_A = 25^\circ\text{C})$	Electrical offset voltage	$\leq \pm 30\text{mV}$
磁滞失调电压 $V_{OH}(I_p=0, 1 \times I_{PN} \text{ 冲击后})$ @ $I_p=0$, after an excursion of $1 \times I_{PN}$	Hysteresis offset voltage	$\leq \pm 20\text{mV}$
零点温度漂移 $\delta_{Zt}(T_A = -20^\circ\text{C} \sim +85^\circ\text{C})$	Temperature coefficient of δ_{Zt}	$\leq \pm 1\text{mV}/^\circ\text{C}$
满量程温度漂移 $\delta_{FSt}(T_A = -20^\circ\text{C} \sim +85^\circ\text{C})$	Temperature coefficient of V_{OUT}	$\leq \pm 0.05\%/\text{C}$
响应时间 $T_R(90\% \text{ of } I_{PN} \& \frac{di}{dt} \geq 100 \text{ A}/\mu\text{s})$	Step response time to 90 % of I_{PN}	$\leq 3\mu\text{s}$
带宽(-3dB)BW	Frequency bandwidth (-3dB)	DC ... 50kHz

一般数据 General data

工作温度 Ta	Ambient operating temperature	-20~+85 °C
储存温度 Ts	Ambient storage temperature	-40~+85 °C
重量 m	Mass	≤20g

绝缘耐压 Insulation coordination

耐压	Voltage for AC insulation test, 50Hz,1min	2.5kV
绝缘电阻 R _{IS}	Isolation resistance	≥500M Ω

传感器外形图 Dimensions (in mm)

电气连接 Connection

机械特征 Mechanical characteristics
备注 Remark

未注公差

General tolerance

±1 mm

1. 当测量电流方向与传感器上标示的  方向一致时，传感器输出 V_{OUT} 为正。