产品说明

Applications

NACL-1000B-S5/SP6N 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 \cdots , 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	
线性度好 Very good linearity	私服电机驱动 Servo motor drives	GB/T 25119-2010
低温漂 Low temperature drift	电池供电 Battery supplied applications	EN50178
宽频带 Wide frequency bandwidth	变流器/逆变器 converter /inverter	EN50155
快速响应 Optimized response time	UPS/SVG	

	主要电气参数 Main electrical data	
	(@±I _{PN} , T _A = 25°C)	l control of the second of the
额定測量电流 I _{PN}	Primary nominal current	1000A
測量范围 I _{PM}	Primary current measuring range	±2100A
电源电压 Vc	Supply voltage	DC±(15~24)×(1±10%)V
电流消耗 Ic(@±24V)	Current consumption	≤±35mA+I _{SN}
额定測量输出 I _{SN}	Output current	200mA
匝比	Conversion ratio	1:5000
负载电阻 R _M	Load resistance	

贝敦电阻 R _M	Lo	ad resistance			
		70°C	85℃		
	@±15V, ±1000A:	$0 \Omega \sim 23 \Omega$	0 Ω ~19	Ω	
	@±15V, ±1300A:	$0~\Omega \sim 7~\Omega$			
	@±24V, ±1000A:	0 Ω ~63 Ω	10 Ω ~61	Ω	
	@±24V, ±2100A:	0 Ω ~6 Ω			

精度 - 动态参数 Accuracy - Dynamic performance data			
基本误差δ;	Overall Accuracy	≤+0.4%	
(@I _{PN} , T _A =25°C)	o relativistation,	Z 20.470	
线性度 δ ι	Linearity error	≤±0.1%	
(@I _{PN} , T _A =25℃)			
零点输出电流 Io (@Ip=0, T _A = 25℃)	Offset current	≤±0.4mA	
零点温度漂移IoT	Temperature coefficient of $~\delta_{~Zt}$	≤±0.8mA (-40°C~+85°C)	

响应时间	Step response time to 90 % of I _{PN}	≤1µS
T _R (90% of I _{PN} &di/dt > 50 A/µS)	Step response time to 90 % of IPN	
di/dt 精确度	di/dt Accurately followed	>50A/us
頻率帯宽 BW	Frequency bandwidth(-1dB)	DC100kHz

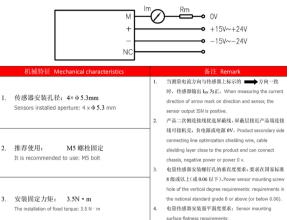
一般数据 General data			
工作温度 Ta	Ambient operating temperature	-40~+85℃	
储存温度 Ts	Ambient storage temperature	-45~+90℃	
重量 m	Mass	≤850g	

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

NACL 1000B-S5/SPEN 性液传送器外形图 Dimensions NACL 1000B-S5/SPEN Series (in mm) 89.7 62.7±0.15 61.4 4484.2 2484.2 2495.3



连接端子(Connector): Molex Mini-Fit Jr 5566 Gold- plated pins



3. 安装固定力矩: 3.5N·m The installation of fixed torque: 3.5 N · m

2.

4.

5

installation grade 11 or above (or surface fluctuation is 原边通孔: φ 40.5mm less than 0.25 mm): φ 40 5mm (b),安装而加有小圆凸台设计时平面度要求达国家标准 12 级或以上(或平面起伏小于 0.5mm); When mounting

The original hole: 次边电气连接: Molex 5566 Gold- plated pins

surface with a small round convex platform design flatness requirement of national standard grade 12 or more (or less than 0.5 mm) in plane ups and downs: Electrical connections: Molex 5566 Gold- plated pins 未注公差±0.5mm; Did not note the tolerance + / - 0.5

mm:

(a).大平面安装平面度国家标准 11 级或以上(或平面起 伏小于 0.25mm)。 Planeness national standard