产品说明

工作温度 Ta

储存温度 Ts

Applications

NACL.2000B1-S5/SP1 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	S AN PARIS. Startage as
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					
$(@\pm I_{PN}, T_A = 25^{\circ}C)$					
额定測量电流 Ipn	Primary nominal current	2000A			
测量范围 Ipm	Primary current measuring range	±3800A			
电源电压 Vc	Supply voltage	DC±(15~24)×(1±5%)V			
电流消耗 I _c (@±24V)	Current consumption	≤±30mA+I _{SN}			
额定測量输出 Isn	Output current	500mA			
匝比	Conversion ratio	1:4000			
负载电阻 R _M		@±15V, ±2200A: 0Ω~8Ω			
	Load resistance	@±15V, ±2400A: 0Ω~4.5Ω			
	LOAG TESISTATICE	@±24V,±2000A: 3Ω~25Ω			
		@±24V,±3800A: 3Ω~5.5Ω			

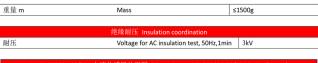
		(a)=2 1 1,=200011. Das 2522		
		@±24V,±3800A: 3Ω~5.5Ω		
精度 - 动态参数 Accuracy - Dynamic performance data				
基本误差δ _i (@I _{PN} , T _A =25℃)	Overall Accuracy	≤±0.5%		
线性度 δ L(@IpN, TA=25℃)	Linearity error	≤±0.1%		
零点输出电流 Io (@Ip=0, TA=25℃)	Offset current	≤±0.4mA		
零点温度漂移Ior	Thermal drift	≤±0.5mA(-25~+85°C)		
响应时间 T _R (90% of I _{PN} &di/dt > 50 A/µS)	Step response time to 90 % of I_{PN}	≤1µS		
	一級粉框 Constal data			

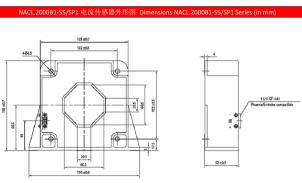
Ambient operating temperature

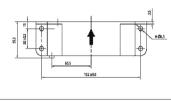
Ambient storage temperature

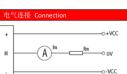
-25~+85°C

-40~+90°C









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 I _{SN} 为正。When measuring the current direction
of arrow mark on direction and sensor, the sensor output
ISN is positive.
2. 产品二次侧连接线优选屏蔽线,屏蔽层接近产品端连接线
可接机壳,负电源或电源 0V 。Product secondary side
connecting line optimization shielding wire, cable shielding
layer close to the product end can connect chassis, negative
power or power 0 v.
3. 电量传感器安装螺钉孔的垂直度要求: 要求在国家标准 8
级或以上(或 0.06 以下)。Power sensor mounting screw
hole of the vertical degree requirements: requirements in
the national standard grade 8 or above (or below 0.06).
4. 电量传感器安装面平面度要求: Sensor mounting surface
flatness requirements:
(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 installation
grade 11 or above (or surface fluctuation is less than 0.25
mm);
(b).安装面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
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;
5. 未注公差±1mm; Did not note the tolerance + / - 1 mm;