Applications

该磁平衡式霍尔电流传感器适用于对交流、直流和脉动电流的隔离精确测量,测量时一次侧与二次侧 之间宗令绝缘。

For the electronic measurement of currents: AC, DC IMPL, etc., with galvanic isolation between the primary

(high power) and the secondary (electronic) circuits

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(mgn power) and the secondary (electronic) electron.			
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	EN50178	
线性度好 Very good linearity	电池供电 Battery supplied applications	EN50155	
低温漂 Low temperature drift	变流器/逆变器 converter /inverter		
宽频带 Wide frequency bandwidth	UPS/SVG		
快速响应 Optimized response time			

主要电气参数 Main electrical data

微正测重电流 Ipn (A)	正测重电流 I _{PN} (A) Primary nominal current rms		100	
测量范围 Ip (A)	Primary current measuring range		ing range	0∼±150
匝比	Conversion ratio			1:2000
电源电压 V _C (V)	Supply vo	oltage		+/-12V~+/-15V(+/-5%)
额定測量输出 IsN(mA)	Secondary nominal current rms		ent rms	50mA
測量电阻 R _M (Ω)	Measurir	ng resistance		
		R _M min	R _M max	
with +/-12V @ +/-100	A max:	0 ohm	70ohn	1
@ +/-150	A max:	0ohm	65ohm	ı
with +/-15V @ +/-100	A max:	0ohm	100ohr	n
@ +/-150	A max:	0ohm	95ohm	ı
二次侧电流消耗 lc(@±15V)	Current	consumption		≤25mA+ Secondary output current I _{SN}
隔离耐压 Isolation test: Between the primary		6 kVrms/50Hz/1min		
circuit to the secondary circuit		O K VIIIIS/ JOI 12/ IIIIII		

精度 - 动态参数 Accuracy - Dynamic performance data		
基本误差δi		≤±0.6%
(@I _{PN} , T _A =25°C)	Overall Accuracy	≈10.0%
线性度误差δL		<0.1%
(@I _{PN} , T _A =25°C)	Linearity error	<0.1%
零点输出电流 Io		≤±0.2mA
(@I _P =0, T _A =25℃)	Offset current	≈±0.2mA

4 VW HILLY 101	Thermal arm	~ =0.0mm (25 C .05 C)
响应时间 t _r	Response time to 90% of I _{PN} step	≤1us
di/dt 精确度	di/dt Accurately followed	>50A/us
頻率帯宽 BW	Frequency bandwidth(-1dB)	DC100kHz
一般數据 General data		

Thermal drift

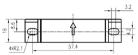
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工作温度 Ta 储存温度 Ts 重量 m

Ambient operating temperature	-25℃~+85℃
Ambient storage temperature	-40°C~+90°C
Mass	≤100g

≤ +0.6mA (-25°C~+85°C)





电气连接 Connection



		1. 当测量电流方向与传感器上标示的 一 方向一致时,
未注公差	+1 mm	传感器输出 I _{SN} 为正。When measuring the current direction
General tolerance ±:	±1111111	of arrow mark on direction and sensor, the sensor output ISN
		is positive.
//	2hole ø4.2mm 2 M4 steel screws	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
传感器安装方式一(推荐) Transducer fastening (Recommended)		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.
传感器安装方式二(推荐) Transducer fastening (Recommended)	2 hole ø 5.4mm 2 M5 steel screws	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
推荐力矩 Recommended fastening torque		national standard grade 8 or above (or below 0.06).
	2.5 N • m	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
母排尺寸(推荐) Bus bar(Recommended)		grade 11 or above (or surface fluctuation is less than 0.25
	Ø15mm	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
次边电气连接		级或以上(或平面起伏小于 0.5mm); When mounting
	Three core pressure coupling	surface with a small round convex platform design flatness
		requirement of national standard grade 12 or more (or less
Connection of secondary		than 0.5 mm) in plane ups and downs;
		5. 未注公差±1mm: Did not note the tolerance + / - 1 mm;