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 之间完全绝缘。

For the electronic measurement of currents: AC, DC IMPL.,etc.,with galvanic isolation between the primary (high power) and the secondary (electronic) circuits.

产品优点 Advantages	产品优点 Advantages 产品应用 Applications		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			
额定測量电流 Ipn (A)	Primary nominal current rms	300	
测量范围 Ip (A)	Primary current measuring range	0~±500	
匝比	Conversion ratio	1:2000	
电源电压 V <sub>c</sub> (V)	Supply voltage	+/-12V~+/-15V(+/-5%)	
额定测量输出 IsN(mA)	Secondary nominal current rms	150mA	
测量电阻 R <sub>M</sub> (Ω)	Measuring resistance		

## Ramin Ramax

@ $\pm 12V$ ,  $\pm 300A$ :  $0\Omega \sim 30\Omega$ 

@ $\pm 12V$ ,  $\pm 500A$ :  $0\Omega \sim 7\Omega$ @±15V, ±300A: 0Ω~43Ω

@ $\pm 15V$ ,  $\pm 500A$ :  $0\Omega \sim 17\Omega$ 

二次侧电流消耗 lc(@±24V)	Current consumption	≤20mA+ Secondary output current I <sub>SN</sub>	
隔离耐压 Isolation test: Between the primary		6 kVrms/50Hz/1min	
	circuit to the secondary circuit	6 kvims/30Hz/1min	

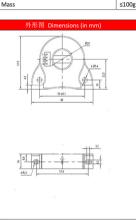
精度 - 动态参数 Accuracy - Dynamic performance data			
基本误差δi		≤±0.5%	
(@I <sub>PN</sub> , T <sub>A</sub> =25°C)	Overall Accuracy	<10.5%	
线性度误差δL		<0.1%	
(@I <sub>PN</sub> , T <sub>A</sub> =25℃)	Linearity error	~0.1%	
零点输出电流 Io		≤±0.2mA	
(@I <sub>P</sub> =0, T <sub>A</sub> =25°C)	Offset current	≪±0.2IIIA	

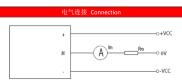
頻率帯宽 BW	Frequency bandwidth(-1dB)	DC100kHz	
<u> </u>	Trequency bandwidth(-rdb)	DC100KHZ	
一般数据 General data			
工作温度 Ta	Ambient operating temperature	-25℃~+85℃	
储存温度 Ts	Ambient storage temperature	-40°C~+90°C	

Thermal drift

Response time to 90% of IPN step

di/dt Accurately followed





零点温漂 Ior

响应时间 tr

di/dt 精确度

重量 m

≤ ±0.6mA (-25°C~+85°C)

≤lus

>50A/us

未注公差 General tolerance	±1 mm	1.	当测量电波方向与传移器上标示的 —— 方向一致时, 传感器输出 Liss 为证。When measuring the current direction of arrow mark on direction and sensor, the sensor output ISN is positive.
传感器安装方式一(推荐) Transducer fastening (Recommended)	2hole Ø4.2mm 2 M4 steel screws	2.	产品二次侧连接线优选所蔽线,所被历接近产品端连接线 可接机光、负电源域电影 OV. Product secondary side connecting line optimization shielding wire, cable shielding layer close to the product end can connect chassis, negative power or power O v.
传感器安装方式二(推荐) Transducer fastening (Recommended)	2 hole Ø 5.4mm 2 M5 steel screws	3.	电量传感每安装修钉孔的垂直按要求,要求在国家标准 8 被拨以上(成 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).
推荐力矩 Recommended fastening torque	2.5 N • m	4.	电最传感器安装简平面度要求,Sensor mounting surface flatness requirements: (a)大平面安装平面度国家标准11 级成以上(成平面起伏小于 0.25mm),Flaneness national standard installation
母排尺寸(推荐) Bus bar(Recommended)	Ø15mm		grade 11 or above (or surface fluctuation is less than 0.25 mm); (b) 安裝而加有小關凸台设计时平面度要求达国家标准 12 缓或以上(或平面起伏小于 0.5mm):When mounting
次边电气连接 Connection of secondary	Three core pressure coupling	5.	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; 未注公差±1mm: Did not note the tolerance + / - 1 mm;