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

(liigh power) and the secondary (electronic) 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	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	100
测量范围 Ip(A)	Primary current measuring range	0∼±150
匝比	Conversion ratio	1:2000
电源电压 V _c (V)	Supply voltage	+/-12V~+/-15V(+/-5%)
额定测量输出 I _{SN} (mA)	Secondary nominal current rms	50mA
測量电阻 R _M (Ω)	Measuring resistance	

R_{Mmin} R_{Mmax} 1. @±12V, ±100A: $0\Omega_{-}70\Omega$ @±12V, ±150A: $0\Omega_{-}65\Omega$ @±15V, ±100A: $0\Omega_{-}100\Omega$

@ $\pm 15V$, $\pm 150A$: $0\Omega \sim 95\Omega$

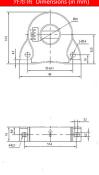
二次侧电流消耗 lc(@±15V)	Current consumption	≤20mA+ Secondary output current I _{SN}
隔离耐压	Isolation test: Between the primary	6 kVrms/50Hz/1min
	circuit to the secondary circuit	O KVIIIIS/30HZ/1IIIIII

精度 - 动态参数 Accuracy - Dynamic performance data		
基本误差δi		≤±0.8%
(@I _{PN} , T _A =25°C)	Overall Accuracy	₹10.8%
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		≤±0.1mA

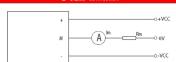
(@I _P =0, T _A =25°C)	Offset current	
零点温漂 Ior	Thermal drift	≤ ±0.6mA (-25°C~+85°C)
响应时间 t _r	Response time to 90% of I _{PN} step	≤lus
di/dt 精确度	di/dt Accurately followed	>50A/us
頻率带宽 BW	Frequency bandwidth(-1dB)	DC100kHz
一般数据 General data		

AX 9X 1/4 General data		
工作温度 Ta	Ambient operating temperature	-25℃~+85℃
储存温度 Ts	Ambient storage temperature	-40℃~+90℃
重量 m	Mass	≤100g

外形图 Dimensions (in mm)



电气连接 Connection



未注公差 General tolerance	±1 mm	 当概任电流方向与传感器上标示的 ■●方向一致时, 传感器输出 Iss 为正、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	 产品二次侧连接线优选屏蔽线、屏蔽层接近产品端连接 线可接机光、负电谐波电谐 QV. Product secondary side connecting line optimization shielding wire, cable shielding layer close to the product end can connect chassis,
传感器安装方式二(推荐) Transducer fastening (Recommended)	2 hole ø 5.4mm 2 M5 steel screws	negative power or power 0 v. 3. 电最快感得安装螺钉孔的垂直披变来,要来在国家标准 多微玻以上1线 0.06 以下), Power sensor mounting screw hole of the vertical degree requirements: requirements in
推荐力矩 Recommended fastening torque	2.5 N • m	the national standard grade 8 or above (or below 0.06). 4. 电最快感器安装面平面皮要求: Sensor mounting surface flatness requirements: (a) 大平面安装平面皮围家标准 11 级成以上(成平面起
母排尺寸(推荐) Bus bar(Recommended)	Ø15mm	(
次边电气连接 Connection of secondary	Three core pressure coupling	12 微规以上: 成平间能伏尔宁 G.Smm) 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. 未注公签主1mm: Did not note the tolerance + / - 1 mm;