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.

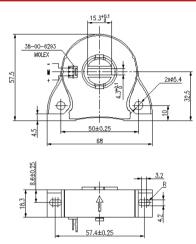
产品优点 Advantages	产品应用 Applications	参照标准 Standards
高精度 Excellent accuracy	交流变频器 AC variable speed drives	EN50178
线性度好 Very good linearity	电池供电 Battery supplied applications	EN50155
低温漂 Low temperature drift	变流器/逆变器 converter /inverter	
宽频带 Wide frequency bandwidth	UPS/SVG	
快速响应 Optimized response time		

主要电气参数 Main electrical data					
额定測量电流 Ipn (A)	Primary nominal current rms	300			
測量范围 Ip (A)	Primary current measuring range	0~±500			
匝比	Conversion ratio	1:2000			
电源电压 Vc (V)	Supply voltage	+/-12V~+/-15V			
额定測量输出 I _{SN} (mA)	Secondary nominal current rms	150mA			
測量电阻 R _M (Ω)	Measuring resistance	$@\pm 12V$, $\pm 300A$: $0\Omega-30\Omega$ $@\pm 12V$, $\pm 500A$: $0\Omega-7\Omega$ $@\pm 15V$, $\pm 300A$: $0\Omega-43\Omega$ $@\pm 15V$, $\pm 500A$: $0\Omega-17\Omega$			
二次侧电流消耗 lc(@±24V)	Current consumption	≤20mA+ Secondary output current I _{SN}			
隔离耐压	Isolation test: Between the primary circuit to the secondary circuit	6 kVrms/50Hz/1min			

精度 - 动态参数 Accuracy - Dynamic performance data			
基本误差δi(@Ipn, T _A =25℃)	Overall Accuracy	≤±0.5%	
线性度误差 δ L (@I _{PN} , T _A =25℃)	Linearity error	<0.1%	
零点输出电流 Io(@Ip=0, TA=25℃) Offset current	≤±0.2mA	
零点温漂 Iot	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 F	requency bandwidth(-1dB)	DC100kHz	

ユ. [- 祖 /文 Ta	Ambient operating temperature	-23 C +63 C
储存温度 Ts	Ambient storage temperature	-40℃~+90℃
重量 m	Mass	≤85g

外形图 Dimensions (in mm)



电气连接 Connection



未注公差 General tolerance	±1 mm	传 of	護量电缆方向与传感器上标示的 ■ 方向一致时, 连感器输出 kss 为if:When measuring the current direction arrow mark on direction and sensor, the sensor output ISN 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所截线。所藏层接近产品端近 可接机完。负电源线电源 OV. Product secondary side connecting line optimization shielding wire, cable shield layer close to the product end can connect chassis, negr 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	 电量传感器交换螺钉孔的垂直度要求,要求在 级或以上(或 0.06 以下), Power sensor mounting of the vertical degree requirements: requirement 	原传感器文装螺钉孔的垂直度要求・要来在国家标准 8 銀度以上に成 0.06 以下)、Power sensor mounting screw hole the vertical degree requirements: requirements in the attional standard grade 8 or above (or below 0.06).	
推荐力矩 Recommended fastening torque	2.5 N • m	4. It fla	最後感覺安裝圖平面度要求。Sensor mounting surface stness requirements: 。	
母排尺寸(推荐) Bus bar(Recommended)	Ø15mm	mr (b)	ade 11 or above (or surface fluctuation is less than 0.25 m);),	
次边电气连接 Connection of secondary	Molex 6410	rea	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;	