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额定測量电流 Ipn (A)

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

(nigh 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

Primary nominal current rms

测量范围 I _P (A) Primary current measuring range		0∼±70
匝比 Conversion ratio		1:1000
电源电压 V _C (V) Supply voltage		+/-12V~+/-15V(+/-5%)
额定测量输出 IsN(mA)	Secondary nominal current rms	150mA
测量电阻 R _M (Ω) Measuring resistance		
	R _M min R _M max	
@±12V, ±50A; 0Ω 140Ω		
@±12V, ±70A: 0Ω 70Ω		
@±12V, ±50A: 0Ω 200Ω		
@±15V, ±70A: 0Ω 110Ω		
二次侧电流消耗 Ic(@±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		6 kVrms/50Hz/1min		
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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	≈10.676		
线性度误差δL		<0.1%		
(@I _{PN} , T _A =25℃)	Linearity error	V0.176		
零点输出电流 Io		≤±0.2mA		
(@I _P =0, T _A =25°C)	Offset current	≈±0.2IIIA		

4 William ON TOI	Thermal arm			
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		
频率带宽 BW	Frequency bandwidth(-1dB)	DC100kHz		
一般数据 General data				

Thermal drift

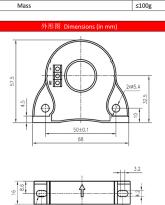
零占温潭 Ior

工作温度 Ta

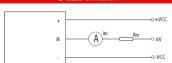
储存温度 Ts

重量 m

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



电气连接 Connection



4xR2.1

≤ ±0.6mA (-25°C~+85°C)

未注公差 General tolerance	±1 mm	 当務量电域方向与传感器上标示的 → 方向一致時、 传感器輸出 I₈₅ 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	 产品一次锁连接线代选屏蔽线,屏蔽层接近产品端连接线 可接模光。 與ц腦波电腦 OV. Product secondary side connecting line optimization shielding wire, cable shielding layer close to the product end can connect chassis, negative
传感器安装方式二(推荐) Transducer fastening (Recommended)	2 hole ø 5.4mm 2 M5 steel screws	power or power 0 v. 3. 电最传感器突轮瞟钉孔的扇宜皮要求,要求在国家标准 8 搅成以上(kg.0.66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	 电量传路器安装面平面皮要求。Sensor mounting surface flatness requirements: (a) 大平面支装平面取り国家标准 11 設成以上(波平面起伏 小干 0.25mm)。Planeness national standard installation
母排尺寸(推荐) Bus bar(Recommended)	Ø15mm	- ウェア 0.25mm/ Paneness nacional standardo installation grade 11 or above (or surface fluctuation is less than 0.25 mm); (b) 交換面加有小個凸合设计時半面度要求达国家标准 12 级级比上(級平衡起伏小子 0.5mm), When mounting
次边电气连接 Connection of secondary	Three core pressure coupling	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. 未注公施士1mm: Did not note the tolerance + / - 1 mm;