Standards

参照标准

EN50178

产品优点 Advantages

高精度 Excellent accuracy

线性度好 Very good linearity

低温漂 Low temperature drift

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.

产品应用 Applications

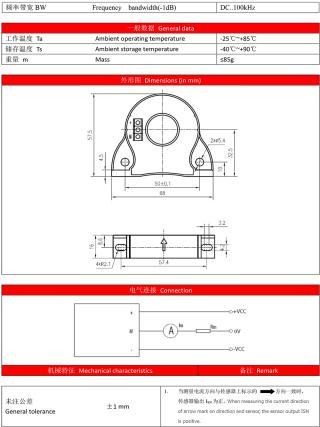
交流变频器 AC variable speed drives

变流器/逆变器 converter /inverter

电池供电 Battery supplied applications

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 _c (V)	Supply voltage		+/-12V~+/-15V	
额定測量输出 I _{SN} (mA)	Secondary nominal current rms		150mA	
测量电阻 R _M (Ω)	Measuring resistance		@±12V, ±300A: 0Ω~30Ω	
			@±12V, ±500A: $0\Omega\sim7\Omega$	
			@±15V, ±300A: 0Ω~43Ω	
			@±15V, ±500A: 0Ω~17Ω	
二次侧电流消耗 lc(@±15V)	Curre	nt consumption	≤25mA+ 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 (@I _{PN} , T _A =25℃)	Overall Accuracy	≤±0.5%		
线性度误差δL	,	<0.1%		
(@I _{PN} , T _A =25℃) 零点输出电流 I _O	Linearity error	<		
(@I _P =0, T _A =25°C)	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		



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) 可接机带、负电源或电源 OV. Product secondary side 2hole ø4.2mm Transducer fastening connecting line optimization shielding wire, cable shielding 2 M4 steel screws (Recommended) 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) 由带体减限空结螺钉孔的垂背座原业, 原业在国家标准 8 2 hole a 5 4mm 銀頭以上(頭 0.06 以下)。Power sensor mounting screw hole Transducer fastening 2 M5 steel screws (Recommended) of the vertical degree requirements; requirements in the national standard grade 8 or above (or below 0.06). 电量传感器安装而平面度要求, Sensor mounting surface 推荐力矩 2.5 N • m flatness requirements: Recommended fastening torque (a).大平面安装平面度国家标准 11 级或以上(或平面起伏 小子 0.25mm): Planeness national standard installation grade 11 or above (or surface fluctuation is less than 0.25 母排尺寸(推荐) mm): Ø15mm Bus har (Recommended) (b).安装而加有小圆凸台设计时平面度要求达国家标准 12 级或以上(或平面起伏小于 0.5mm); When mounting surface with a small round convex platform design flatness 次边电气连接 Three core requirement of national standard grade 12 or more (or less Connection of secondary pressure coupling than 0.5 mm) in plane ups and downs; 未注公差±1mm: Did not note the tolerance + / - 1 mm: