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 之间空全绝缘。

For the electronic measurement of currents: AC, DC IMPL.,etc.,with galvanic isolation between the primary

(high power) and the secondary (electronic) circuits.



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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	私服电机驱动 Servo motor drives	EN50155
低温漂 Low temperature drift	电池供电 Battery supplied applications	
宽频带 Wide frequency bandwidth	变流器/逆变器 converter /inverter	
快速响应 Optimized response time	UPS/SVG	

主要电气参数 Main electrical data				
额定測量电流 Ipn (A)	Primary nominal current rms	1000		
测量范围 Ip(A)	Primary current measuring range	0∼±2100		
匝比	Conversion ratio	1:3000		
电源电压 V _c (V)	Supply voltage	DC±(15~24)×(1±10%)V		
额定測量输出 Isn(mA)	Secondary nominal current rms	333.33mA		
測量电阻 R _M (Ω)	Measuring resistance			

85°C

	$R_{M}min$	$R_{M}max$	R_{M} min	R_{M} max
with ±15V @±1000A max:	0Ω	21Ω	0Ω	19.5Ω
@±1500A max:	Ω 0	10Ω		
with ±24V @±1000A max:	8.5Ω	48.5Ω	10Ω	47Ω
@±2100A max:	10Ω	14Ω		

70°C

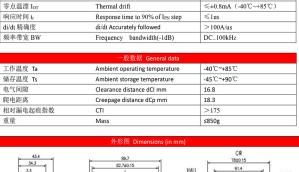
二次侧电流消耗 lc(@±24V)	Current consumption	≤35mA+ Secondary output current I _{SN}	
隔离耐压	Isolation test: Between the primary	3.8kVrms/50Hz/1min	
	circuit to the secondary circuit	5.8k VIIIIs/30HZ/1IIIIII	

精度 - 动态参数 Accuracy - Dynamic performance data

基本误差δ; (@lpn, Ta=25℃)

Overall Accuracy

≤±0.4%

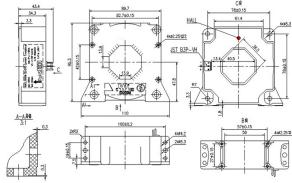


Linearity error

Offset current

< 0.1%

≤+0.6mA



电气连接 Connection

线性度误差δL

(@IpN, TA=25°C)

零点输出电流 Io

(@I_P=0, T_A=25°C)



未注公差±1mm: Did not note the tolerance + / - 1 mm: