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	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±5%)V
额定测量输出 I _{SN} (mA)	Secondary nominal current rms	333.33mA
測量电阻 R _M (Ω)	Measuring resistance	

70℃ 85℃

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

		≤35mA+ Secondary output current I _{SN}	
隔离耐压	Isolation test: Between the primary	3 9l-Veme/50H-z/1min	
	circuit to the secondary circuit	3.6K VIIIIS/ 30T12/ TIIIIII	

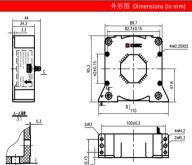
精度 - 动态参数 Accuracy - Dynamic performance data

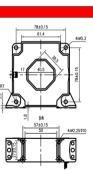
(@I _{PN} , T _A =25°C)	Linearity error	0.1%	
零点输出电流 Io		≤±0.6mA	
(@I _P =0, T _A =25°C)	Offset current	≈±0.8mA	
零点温漂 Ior	Thermal drift	≤±0.8mA (-40°C~+85°C)	
响应时间 t _r	Response time to 90% of IPN step	≤lus	
di/dt 精确度	di/dt Accurately followed	>100A/us	
频率带宽 BW	Frequency bandwidth(-1dB)	DC100kHz	
一般数据 General data			
II- NO ada			

< 0.1%

Overall Accuracy

工作温度 Ta	Ambient operating temperature	-40°C~+85°C
储存温度 Ts	Ambient storage temperature	-45℃~+90℃
电气间隙	Clearance distance dCI mm	16.8
爬电距离	Creepage distance dCp mm	18.3
相对漏电起痕指数	СТІ	>175
重量	Mass	≤850g





电气连接 Connection

(@I_{PN}, T_A=25℃)

线性度误差δL

