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		rms	366	
测量范围 Ip (A)	Primary current measuring range		ng range	0~±500	
匝比	Conversion ratio)		1:2000	
电源电压 V _C (V)	Supply voltage			DC±15×(1±10%)V	
额定测量输出 IsN(mA)	Secondary nomi	inal curre	nt rms	183mA	
测量电阻 R _M (Ω)	Measuring resis	tance			
	7	70°C	85℃		
	@±15V, ±366A: 09	2~41Ω	0Ω~39.	5Ω	
	@±15V, ±500A: 09	Ω~22Ω	0Ω~20.:	5Ω	
二次侧电流消耗 lc(@±	15V) Current consun	nption		≤25mA+ Secondary output current I _{SN}	
隔离耐压	Isolation test: E			3kVrms/50Hz/1min	

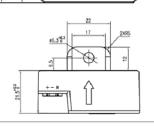
circuit to the secondary circuit		DR VIII DOTTO TIME		
	·	·		
精度 - 动态参数 Accuracy - Dynamic performance data				
基本误差δi		≤±0.5%		
(@I _{PN} , T _A =25°C)	Overall Accuracy	₹10.5%		
线性度误差δL		<0.1%		
(@I _{PN} , T _A =25°C)	Linearity error	<0.1%		
零点输出电流 Io		≤±0.3mA		
(@I _P =0, T _A =25°C)	Offset current	≪±0.5IIIA		

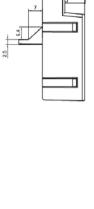
频率带宽 BW	Frequency bandwidth(-1dB)	DC100kHz			
	一般数据 General data				
工作温度 Ta	Ambient operating temperature	-40°C~+85°C			
储存温度 Ts	Ambient storage temperature	-45°C~+90°C			
重量	Mass	≤110g			
外形图 Dimensions (in mm)					
### .ST 839-XH-A	51.7%	7			

Thermal drift

Response time to 90% of IPN step

di/dt Accurately followed





≤ ±0.8mA (-40°C~+85°C)

≤lus

>100A/us

25.9

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响应时间 tr

di/dt 精确度

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