产品说明

响应时间 tr

Applications

NACL.50P-S6/SP2 系列高精度闭环型霍尔电流传感器的初、次级之间是绝缘的,具有超强抗干扰能力: 用干测量直流、交流和脉动电流。

NACL.50P-S6/SP2 series high-precision current sensor is a closed loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit. It has strong anti-jamming ability and it provides accurate electronic measurement of DC. AC or pulsed currents.

产品优点 Advantages	ř	本品应用领域 Applications	参照标准 Standards	
高精度 Excellent accuracy		页调速系统	UL 94-V0	
向相及 Excellent accuracy	Var	iable speed drives	0L 94-V0	
温度系数小 Low temperature of offset	f offset 通(言电源	EN 60947-1:2004	
	Bat	tery supplied applications		
体积小 Small size	不向	司断电源 UPS	EN50178:1998	
种状小 Small size		nterruptible Power Supplies	EN201/8:1998	
	主要电气	〔参数 Main electrical data		
		(At Ta=+25℃)		
额定测量电流 IpN	Primary nominal current rms		50A	
测量范围 lp	Primary current measuring range		0~+70A	
(@Vc=±15V)	rilliary	current measuring range	U ± 70A	
电源电压 Vc	Supply voltage		±12V~±15V×(1±5%)	

(At Ta=+25 ℃)			
额定测量电流 Ipn	Primary nominal current rms	50A	
測量范围 lp	Primary current measuring range	0~±70A	
(@Vc=±15V)	Primary current measuring range		
电源电压 Vc	Supply voltage	±12V~±15V×(1±5%)	
匝比 K	Turns ratio	1:1000	
额定测量输出 I _{SN}	Secondary nominal current rms	50mA	
负载电阻 RL		70℃	
(@±12V, ±50A)		0Ω~95Ω	
(@±12V, ±70A)	Load resister	0Ω~60Ω	
(@±15V, ±50A)		50 Ω ∼155 Ω	
(@±15V, ±70A)		50 Ω ~90 Ω	
二次侧电流消耗 lc	Static Current consumption	≤10mA+输出测量电流 I _{SN}	
精	度 - 动态参数 Accuracy - Dynamic perform	nance data	
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(@±12V, ±50A)		0 Ω ~95 Ω
(@±12V, ±70A)	Load resister	0Ω~60Ω
(@±15V, ±50A)		50 Ω ~155 Ω
(@±15V, ±70A)		50 Ω ~90 Ω
二次侧电流消耗 lc	Static Current consumption	≤10mA +输出测量电流 I _{SN}
精度 - 动态参数 Accuracy - Dynamic performance data		
基本误差δ;	Overall Accuracy	≤±0.7%
(@Ta=+25°C, I _p =I _{PN})	Overall Accuracy	
线性度误差 δ ι	Linearity error	≤0.2%
(@Ta=+25°C, I _p =I _{PN})	Linearity error	
零点输出误差 δ _z (Ta=+25℃)	F14-11	≤±0.2mA
d turinter of the . The . To of	Electrical offset voltage	⊥ 0.2IIIA
零点温度漂移δzt	Temperature coefficient of δ _{Zt}	≤±0.5mA (@ 0°C~+70°C)

Step response time

≤1 us

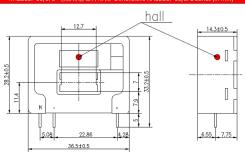
带宽 BW(-3dB)	Frequency bandwidth (-1dB)	DC∼100 kHz
	一般数据 General data	
工作温度 Ta	Ambient operating temperature	-25℃~+85℃
徐芳坦度 To	Ambient storage temperature	45°C~100°C

重量	Mass	≤25g
	绝缘参数 Insulation data	
All All als For a co		

(@di/dt=100A/us ,90% I_{PN}) 带宽 BW (-3dB)

SCAN SO SK. Institution data		
绝缘电压 Ud	Rms voltage for AC insulation test	2.5KV
(@50Hz,1min)	kms voltage for AC insulation test	2.5KV
绝缘电阻 R _{IS}	Isolation resistance	≥500 M Ω
(@2500V)		

NACL.50P-S6/SP2 电流传感器外形图 Dimensions NACL.50P-S6/SP2 Series (in mm)



电气连接 Connection -O+VCC O-VCC

