产品说明

(Ta=-25°C ~+85°C)

响应时间 tr

Applications

NACL.50P-S6 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;用于测量直流、交流和脉动电流。

NACL.50P-56 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.

严商优点 Advantages	产品应用领域 Applications	麥無标准 Standards
高精度 Excellent accuracy	变频调速系统	UL 94-V0
	Variable speed drives	
温度系数小 Low temperature of offs	通信电源	EN 60947-1:2004
	Battery supplied applications	
体积小 Small size	不间断电源 UPS	EN50178:1998
	Uninterruptible Power Supplies	
	•	
主要电气参数 Main electrical data		
(At Ta=+25 ℃)		
额定測量电流 IpN F	rimary nominal current rms	50A
測量范围 Ip	rimary current measuring range	0~±70A
(@Vc=±15V)	Filliary current measuring range	
电源电压 Vc S	upply voltage	\pm 12V \sim \pm 15V×(1 \pm 5%)
匝比 к 1	urns ratio	1:1000
额定測量输出 I _{SN} S	econdary nominal current rms	50mA
负载电阻 RL		25℃
(@±12V, ±50A)		10 Ω ~95 Ω
(@±12V, ±70A)	oad resister	10 Ω ~60 Ω
(@±15V, ±50A)		50 Ω ~155 Ω
(@±15V, ±70A)		50 Ω ∼90 Ω
Va (0) ++ 25; 28; ±c		~10 + 164 d 24 H d 25 T

二次侧电流消耗 lc Static Current consumption ≤10mA+输出測量电流 IsN 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}) 线性度误差δ, Linearity error ≤0.2% (@Ta=+25°C, Ip=IPN) 零点输出误差 δ z(Ta=+25℃) Electrical offset voltage $\leq \pm 0.2 \text{mA}$ ≤±0.5mA (@ 0°C~+70°C) 零点温度漂移 δ π Temperature coefficient of δ_{2t}

Step response time

≤±0.6mA(@-25°C~+85°C)

≤1 us



