产品说明

响应时间 tr

Applications

ability and it provides accurate electronic measurement of DC, AC or pulsed currents.

NACL.100P-P6 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.100P-P6 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

产品优点 Advantages	产品应用领域 Applications	参照标准 Standards	
高精度 Excellent accuracy	变频调速系统	UL 94-V0	
	Variable speed drives	OL 94-V0	
温度系数小 Low temperature of offset	通信电源	EN 60947-1:2004	
	Battery supplied applications	EN 60947-1:2004	
体积小 Small size	不间断电源 UPS	FN50178:1998	
	Uninterruptible Power Supplies	EN30178:1998	
<u> </u>			
主要电气参数 Main electrical data			
(At Ta=+25℃)			
额定測量电流 Ipn Prir	mary nominal current rms	100A	
测量范围 Ip Prir	mary current measuring range	0~±150A	

	主要电气参数 Main electrical data		
	(At Ta=+25°C)		
额定測量电流 Ipn	Primary nominal current rms	100A	
測量范围 lp	Primary current measuring range	0~±150A	
电源电压 Vc	Supply voltage	±12V~±15V×(1±5%)	
匝比 K	Turns ratio	1:2000	
额定測量输出 Isn	Secondary nominal current rms	50mA	
(@Ip=±Ipn)	Secondary nominal current rms	SOMA	
负载电阻 RL	Load resister	25℃	
(@±12V, ±100A)		0 Ω ~42 Ω	
(@±12V, ±120A)		0 Ω ~14 Ω	
(@±15V, ±100A)		20 Ω ~100 Ω	
(@±15V, ±150A)		20 Ω ~25 Ω	

(@±15V, ±150A)			20 Ω ~25 Ω	
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 performa	ince data	
基本误差δ;		Overall Accuracy	≤±0.7%	
(@Ta=+25°C, I _p =I _{PN})		Overall Accuracy	< ±0.7%	
线性度误差 δ ι		Linearity error	≤0.2%	
(@Ta=+25°C . I₀=I₀N)		Linearity error	≪0.276	

零点输出误差 δ z(Ta=+25℃) Electrical offset voltage $\leq \pm 0.1 \text{mA}$

零点温度漂移 δ 21 ≤±0.25mA (@-25°C~+85°C)

≤1 us

Temperature coefficient of δ_{zt} (Ta=-40°C ~+85°C) ≤±0.5mA(@-40°C~-25°C)

Step response time

带宽 BW(-3dB)	Frequency bandwidth (-1dB)	DC∼100 kHz
	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℃~+90℃

Mass

(@di/dt=100A/us ,90% IPN) 带宽 BW (-3dB)

重量

绝缘参数	Insulation data	

≤25g

坦緣多数 Insulation data		
绝缘电压 Ud	Rms voltage for AC insulation test	2.5KV
(@50Hz,1min)		
绝缘电阻 Ris	Isolation resistance	≥500 M Ω
(@2500V)		

NACL.100P-P6 电流传感器外形图 Dimensions NACL.100P-P6 Series (in mm)



电气连接 Connection



