参照标准 Standards

## 产品说明

产品优占 Advantages

## Applications

NA100-P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。

NA100-P 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.

产品应用领域 Applications

) HILDUM MUVAITUBES	) https://it.exest Applications	S mapping Standards	
高精度 Excellent accuracy	变频调速系统	UL 94-V0	
	Variable speed drives	UL 94-VU	
温度系数小 Low temperature of offse	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	EN50178:1998	
	Uninterruptible Power Supplies		
		·	
主要电气参数 Main electrical data			
	( Ta=+25 °C )		
额定測量电流 Ipn	Primary nominal current rms	100A	
测量范围 lp	Primary current measuring range	0~±150A	
(@Vc=±15V)	rimary current measuring range		
电源电压 Vc	Supply voltage	$\pm$ 12V $\sim$ $\pm$ 15V×(1±5%)	
匝比 κ	Turns ratio	1:2000	
额定測量输出 Isn :	Secondary nominal current rms	50mA	
负载电阻 RL		25℃	
(@+12V +100A)		0.0 ~42.0	

(@V <sub>C</sub> =±15V)			
电源电压 Vc	Supply voltage	±12V~±15V×(1±5%)	
匝比 K	Turns ratio	1:2000	
额定测量输出 Isn	Secondary nominal current rms	50mA	
负载电阻 RL	Load resister	25℃	
(@±12V, ±100A)		0 Ω ~42 Ω	
(@±12V, ±120A)		0Ω~14Ω	
(@±15V, ±100A)		20 Ω ~100 Ω	
(@±15V, ±150A)		20 Ω ~25 Ω	
二次侧电流消耗 Ic	Static Current consumption	≤15mA +输出测量电流 I <sub>SN</sub>	
精度 - 动态参数 Accuracy - Dynamic performance data			
基本误差δ;	Overall Accuracy	≤±0.7%	
(@Ta=+25°C, I <sub>p</sub> =I <sub>PN</sub> )	Overall Accuracy		
Alb bit else NEL Me e			

精度 - 动态参数 Accuracy - Dynamic performance data			
基本误差δ,	Overall Accuracy	≤±0.7%	
(@Ta=+25°C, I <sub>p</sub> =I <sub>PN</sub> )			
线性度误差 δ ι	Linearity error	≤0.2%	
(@Ta=+25°C, I <sub>p</sub> =I <sub>PN</sub> )	Linearity error	≈0.2%	
零点输出误差 δ z(Ta=+25℃)	Electrical offset current	≤±0.1mA	
零点温度漂移δzt	Temperature coefficient of δ <sub>21</sub>	≤±0.25mA (@-25°C~+85°C)	
(Ta=-40°C ∼+85°C)	remperature coefficient of 0 2t	≤±0.5mA (@-40℃~-25℃)	
响应时间 t <sub>r</sub>	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	-40°C~+85°C
储存温度 Ts	Ambient storage temperature	-45℃~+90℃

≤25g

(@di/dt=100A/us,90% IPN) 带宽 BW (-3dB)

重量

绝缘参数	Insulation	data

Mass

ACM S SK INSURTION ACC		
绝缘电压 Ud	Rms voltage for AC insulation test	2.5KV
(@50Hz,1min)		
绝缘电阻 R <sub>IS</sub>	Isolation resistance	≥500 M Ω
(@2500V)		

## NA100-P 电流传感器外形图 Dimensions NA100-P Series (in mm)



## 电气连接 Connection



