



## NA100-P(NACL.100P-S6)

## **Current Transducer**

产品说明

**Applications** 

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.





Advantages	Applications	Standards
Excellent accuracy	Variable speed drives	UL 94-V0
Low temperature of offset	Battery supplied applications	EN 60947-1:2004
Small size	UPS Uninterruptible Power Supplies	EN50178:1998

	主要电气参数 Main electrical data	
	( Ta=+25 °C )	
I <sub>PN</sub>	Primary nominal current rms	100A
(@±24V)	Primary current measuring range	0~±150A
V <sub>C</sub>	Supply voltage	$\pm$ 12V $\sim$ $\pm$ 15V×(1 $\pm$ 5%)
К	Turns ratio	1:2000
$I_{SN}$ (@ $I_p = \pm I_{pn}$ )	Secondary nominal current rms	50mA
$R_L$		25℃
(@ $\pm$ 12V, $\pm$ 100A)	Load resister	$0\Omega$ $\sim$ 42 $\Omega$
(@±12V, ±120A)		$0\Omega$ $\sim$ 14 $\Omega$
(@±15V, ±100A)		$20\Omega\sim$ 100 $\Omega$
(@±15V, ±150A)		20Ω ~25Ω
Ι <sub>C</sub>	Static Current consumption	$\leq$ 15mA + $I_{SN}$

Accuracy - Dynamic performance data			
δ <sub>i</sub> (@Ta=+25°C, I <sub>p</sub> =I <sub>PN</sub> )	Overall Accuracy	≤±0.7%	
δ <sub>L</sub> (@Ta=+25°C, I <sub>p</sub> =I <sub>PN</sub> )	Linearity error	≤0.2%	





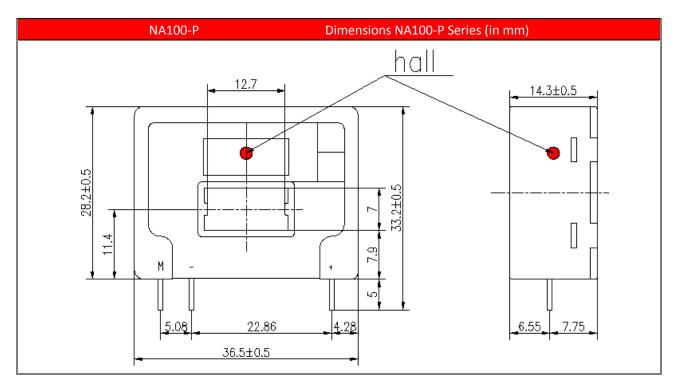




δ <sub>z</sub> (Ta=+25°C)	Electrical offset current	≤±0.1mA
δ <sub>Zt</sub>	Temperature coefficient of $\delta_{zt}$	$\leq$ $\pm$ 0.25mA (@-25 $^{\circ}$ C $^{\circ}$ +85 $^{\circ}$ C)
(Ta=-40˚C ∼+85˚C)		≤±0.5mA(@-40°C~-25°C)
t <sub>r</sub> (@di/dt=100A/us ,90% I <sub>PN</sub> )	Step response time	≤1 us
BW (-3dB)	Frequency bandwidth(-1dB)	DC∼100 kHz

	General data	
Ta	Ambient operating temperature	-40°C~+85°C
Ts	Ambient storage temperature	-45°C~+90°C
	Mass	≤25g

	Insulation data	
U <sub>d</sub> (@50Hz,1min)	Rms voltage for AC insulation test	2.5KV
R <sub>IS</sub> (@2500V)	Isolation resistance	≥500 MΩ



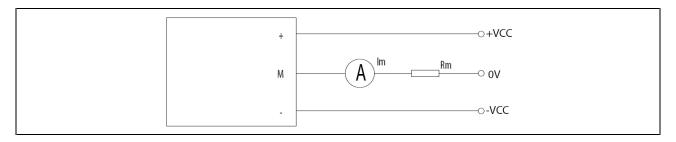
## Connection











Mechanical characteristics	Remark
Installation method: circuit board welding installation  2.	$I_{P} \qquad . \\$ It will be in a forward direction when the $I_{P}$ flows according to the direction of the arrowhead.



