

# Current Transducer HNC- 050 .. 100P

For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).

Electrical data								
Primary nomi DC current	nal Primary current measuring range		Туре					
l <sub>PN</sub> (A)	l <sub>P</sub> (A)							
50 100	0 ± 75 0 ± 140		HNC - 050P HNC - 100P					
		HNC - 050P	HNC - 100P					
R <sub>M</sub> I <sub>SN</sub> K <sub>N</sub>	Measuing resistance Second nominal current Turns ratio	60 90 50 1 : 1000	60 80 50 1 : 2000	Ω mA				
V <sub>c</sub> I <sub>c</sub> V <sub>d</sub>	Supply voltage (± 5 %) Current consumpution R.m.s. voltage for AC isolation test,	50/60Hz, 1 m	± 15 15 + I <sub>sn</sub> in 2.5	V m A kV				

Accuracy-Dynamic performance data							
х	Accuracy @ $T_{A} = 25^{\circ}C$	± 1 % of I <sub>PN</sub>					
e	Linearity $(0 \dots \pm \mathbf{I}_{PN})$	< ± 0.5 %					
I <sub>o</sub>	Electrical offset current $@I_p = 0$ , $@T_A = 25^{\circ}C$	±0.2 mA					
I <sub>o</sub> I <sub>HC</sub>	Hysteresis offset current @ $I_p = 0$ , after an excursion of $I_{PN}$	±0.15 mA					
I <sub>OT</sub>	Thermal drift of I <sub>0</sub> 0°C +70°C	± 0.005 ms/°C					
ť	Response time	<1 µs					
TC <b>C</b> G	Thermal drift of the gain (% of reading)	< ± 0.004 %/°C					

General data						
T <sub>A</sub>	Ambient operating temperature		- 10 + 80			
Τ <sub>s</sub>	Ambient storage temperature		- 15 + 85	S°C		
R <sub>s</sub>	Secondary coil Resistance	HNC - 200P	HNC - 300P			
3	@ <b>T</b> <sub>A</sub> = 25°C	75	95	Ω		
m	Mass		30	g		



= 50 .. 100 A

## **Features**

PN

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 2500 V
- Low power consumption

## **Advantages**

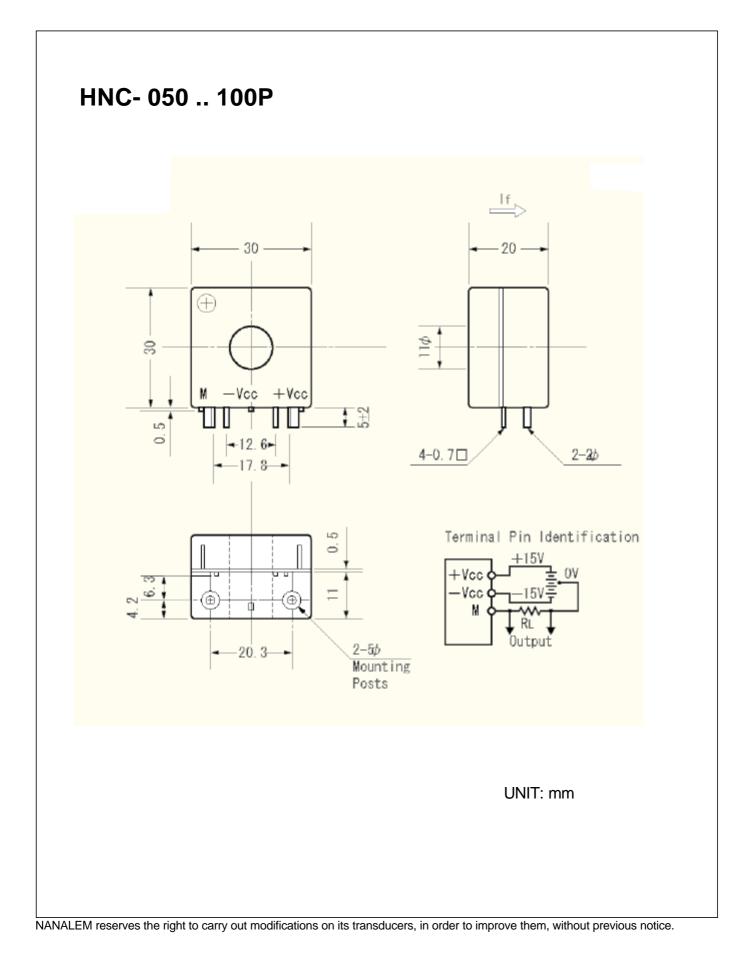
- · Easy mounting
- Small size and space saving
- Only one design for wide current ratings range
- High immunity to external interference

## Applications

- DC motor drives
- Switched Mode Power Supplies (SMPS)
- AC variable speed drives
- Uninterruptible Power Supplies (UPS)
- Battery supplied applications
- Inverters







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