



Current Transducer HNC-050.. 100P

 $I_{DN} = 50 ... 100 A$

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 nom DC current	inal Primary current measuring range		Туре				
I _{PN} (A)	I _P (A)						
50 100	0 ± 75 0 ± 140		HNC - 0 HNC - 1				
		HNC - 050P	HNC - 100P				
R _M I _{SN} K _N	Measuing resistance Second nominal current Turns ratio	60 90 50 1 : 1000	60 80 50 1 : 2000	$\begin{array}{c} \Omega \\ \text{mA} \end{array}$			
V _C I _C V _d	Supply voltage (± 5 %) Current consumpution R.m.s. voltage for AC isolation	test, 50/60Hz, 1 m	± 15 15 + I _{SN} in 2.5	V m A kV			



Features

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

Accu	racy-Dynamic performance data		
X	Accuracy @ T ₄ = 25°C	± 1 % of	I _{DN}
e	Linearity (0 ± I _{PN})	$< \pm 0.5$	%
I _o I _{HC}	Electrical offset current $@I_p = 0$, $@T_A = 25^{\circ}C$ Hysteresis offset current $@I_p = 0$,	± 0.2	mΑ
*HC	after an excursion of I_{PN}	± 0.15	mΑ
I _{OT}	Thermal drift of I _O 0°C +70°C	± 0.005 ms	/°C
ť,	Response time $@90\%$ of I_p	<1	μs
TC e	Thermal drift of the gain (% of reading)	$< \pm 0.004$	%/°C

General data						
T _A T _S	Ambient operating temperature Ambient storage temperature		- 10 + 80 - 15 + 85			
R_s	Secondary coil Resistance @T _a = 25°C	HNC - 200P	HNC - 300P	Ω		
m	Mass	,	30	g		

Advantages

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

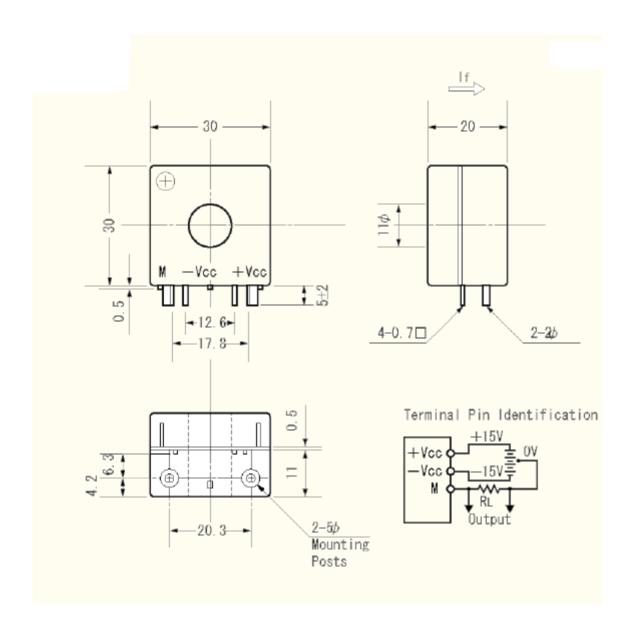
Applications

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





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UNIT: mm

NANALEM reserves the right to carry out modifications on its transducers, in order to improve them, without previous notice.