



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 _{DNI} |
| 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

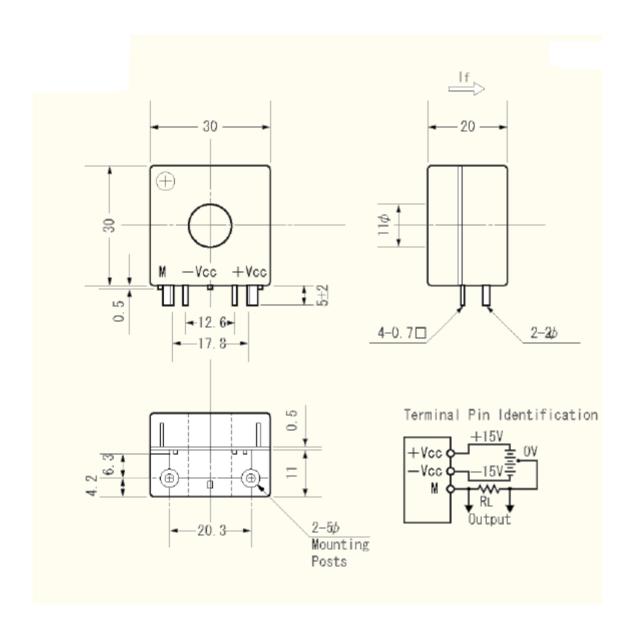
Applications

- 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.