



Current Transducer HNC-40CA

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).

l _{PN}	=	400	A



E	Electrical data				
I _{PN}	Primary nominal DC or rms current	400	Α		
\mathbf{I}_{P}	Primary current, measuring range	0 ± 800	Α		
\mathbf{R}_{M}	Measuing resistance	20	Ω		
\mathbf{I}_{SN}	Second nominal current	100	mΑ		
$\mathbf{K}_{\!\scriptscriptstyle N}$	Turns ratio	1:4000			
$\mathbf{V}_{\!\scriptscriptstyle \mathrm{C}}$	Supply voltage (± 5 %)	± 15	V		
$I_{\rm C}$	Current consumpution	20 + I _{SN}	mΑ		
\mathbf{V}_{d}	R.m.s. voltage for AC isolation test, 50/60Hz, 1 min	2.0	kV		

Features

- Hall effect measuring principle
- Panel mount type

	Accuracy-Dynamic performance data	
X	Accuracy @ T _A = 25°C	< ±1 % of I _{PN}
$\mathbf{e}_{\scriptscriptstyle L}$	Linearity (0 ± I _{PN})	$< \pm 0.5 \%$ of I_{PN}
I o	Electrical offset current $@I_P = 0$, $@T_A = 25^{\circ}C$	± 0.5 mA
I _{HC}	Hysteresis offset current @ $I_p = 0$, after an excursion of I_{PN}	± 0.6 mA
OT	Thermal drift of I _o 0°C +70°C	± 0.03 mA/°C
$\boldsymbol{t}_{_{\boldsymbol{r}}}$	Response time @ 90% of I_P	< 3 µs
TC	Ce _G Thermal drift of the gain (% of reading)	< ± 0.04 %/°C

Advantages

- High accuracy
- Excellent linearity
- Low temperature drift
- Good response time
- Wide frequency range
- Compact
- High immunity to external interference

	Seneral data	
\mathbf{T}_{A}	Ambient operating temperature	- 10 + 80 °C
\mathbf{T}_{s}	Ambient storage temperature	- 15 + 85 °C
\mathbf{R}_{S}	Secondary coil Resistance @T _A = 25°C	30 Ω

Mass

m

Applications

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

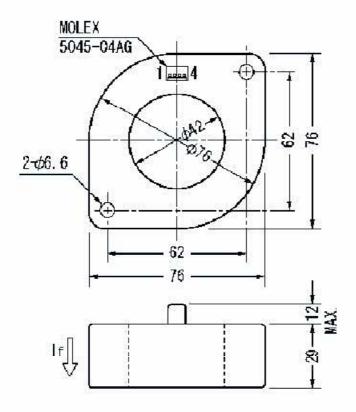
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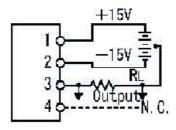




HNC- 40CA (in mm)



Connector Pin Identification



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