

200 A

Current Transducer HNC-200P 200A-100mA I_{PN} =

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					
I _{PN}	Primary nominal r.m.s. current	200	А			
I _P	Primary current, measuring range	± 400	Α			
V _c	Supply voltage (± 5 %)	± 15	V			
I _c	Current consumption	± 15	mΑ			
Ňď	R.m.s. voltage for AC isolation test, 50 Hz, 1 mn	2.5	kV			
R _{is}	Isolation resistance @ 500 VDC	> 500	MΩ			
I _{OUT}		100	mA			
R	Load resistance	4080	Ω			

Accuracy-Dynamic performance data					
х	Accuracy @ I_{PN} , $T_{A} = 25^{\circ}C$ (without offset)	<±1 %	℅ of I _{PN}		
e	Linearity error ¹⁾ (0 $\pm I_{PN}$)	< ± 0.25%	% of I _{PN}		
I _{OE}	Electrical offset current, $T_A = 25^{\circ}C$	< ± 0.5	mA		
I _{OH}	Hysteresis offset current $\textcircled{0}{0}$ $I_{p} = 0;$				
	after an excursion of 1 x I_{PN}	< ± 0.3	mA/K		
I _{ot}	Thermal drift of I_{OF} $T_{A} = -5+70^{\circ}C$	< ± 0.005	5 mA/K		
TC e	Thermal drift of the gain (% of reading), $T_A = -5+70^{\circ}C$	$< \pm 0.04$	%/K		
t, Č	Response time @ 90% of I_p	< 1	μs		

General data

T _A	Ambient operating temperature	- 10 + 80 °C
Ts	Ambient storage temperature	- 15 + 85 °C
m	Mass	140 g

Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Low power consumption
- Extended measuring range(3 x I_{PN})
- Insulated plastic case recognized according to UL 94-V0

Advantages

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

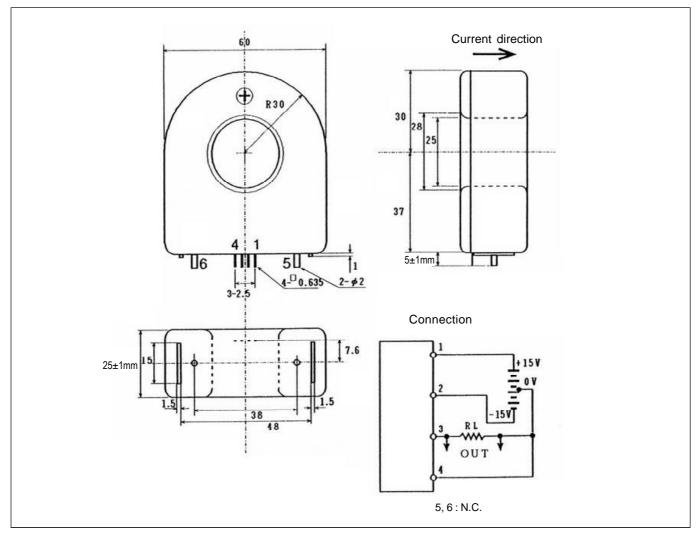
Applications

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

Notes : ¹⁾ Linearity data exclude the electrical offset.

051013/0

Page 1/2



Dimensions HNC-200P 200A-100mA (in mm. 1 mm = 0.0394 inch)

Safety



This transducer must be used in electric/electronic equipment with respect to applicable standards and safety requirements in accordance with the following manufacturer's operating instructions.



Caution, risk of electrical shock

When operating the transducer, certain parts of the module can carry hazardous voltage (eg. primary busbar, power supply). Ignoring this warning can lead to injury and/or cause serious damage.

This transducer is a built-in device, whose conducting parts must be inaccessible after installation.

A protective housing or additional shield could be used. Main supply must be able to be disconnected.

051013/0