



Current Transducer HNC-200...300P

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).

$I_{PN} =$	200	300	A
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Electrical data			
Primary nominal DC current I _{PN} (A)	Primary current measuring range I _P (A)	Туре	
200 300	0 ± 400 0 ± 650	HNC - 200P HNC - 300P	

		HNC - 200P	HNC - 300P	
$egin{aligned} egin{aligned} egin{aligned\\ egin{aligned} egi$	Measuing resistance Second nominal current Turns ratio	20 60 100 1 : 2000	20 35 100 1 : 3000	$\begin{array}{c} \Omega \\ \text{mA} \end{array}$
V _C I _C V _d	Supply voltage (± 5 %) Current consumpution R.m.s. voltage for AC isolation test, 50/6	60Hz, 1 mn	± 15 15 + I _{SN} 2.5	V mA kV

Features

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

Accuracy-Dynamic performance data

X	Accuracy @ T _A = 25°C		<±1 %	of I _{PN}
e	Linearity (0 ± I _{PN})		< 0.25 %	of I _{PN}
I _o	Electrical offset current	$@I_{P} = 0, @T_{A} = 25^{\circ}C$	± 0.5	mÀ
I _{HC}	Hysteresis offset currer	$\mathbf{I}_{P} = 0,$		
	after an excursion of Ip	N	± 0.3	mΑ
I _{OT}	Thermal drift of I	0°C +70°C	$\pm 0.005 m$	nA/K°C
ť,	Response time @ 90%	of I _p	<1	μs
TC e	Thermal drift of the gain	(% of reading)	± 0.04	%/°C
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Advantages

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

General data

T _A T _S	Ambient operating temperature Ambient storage temperature		- 10 + 80 - 15 + 85	_
$R_{\rm s}$	Secondary coil Resistance	HNC - 200P	HNC - 300P	
N _S	$@T_A = 25^{\circ}C$	10	20	Ω
m	Mass		160	g

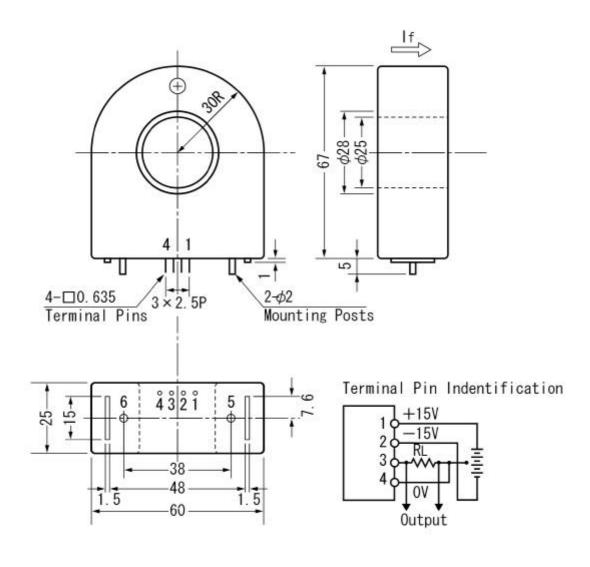
Applications

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





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