

Current Transducers HTC 1000..3000-S

For the electronic measurement of currents: AC,DC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).

 $I_{PN} = \pm 1000..3000 \text{ A}$ $V_{OUT} = \pm 10 \text{ V}$





Preliminary

Electrical data						
Primary non current I _{PN} (A)	measuring range	Type				
1000 ±1100 2000 ±2200 3000 ±3300		HTC 1000-S HTC 2000-S HTC 3000-S				
\mathbf{V}_{c}	Supply voltage (±3 %)	±15	V			
I _C	Current consumption	< ±20	mA			
\mathbf{R}_{IS}	Insulation resistance @ 500 VDC	> 500	$M\Omega$			
V_{out}	Output voltage @ $\pm I_{PN}$, $R_L = 2k\Omega$, $T_A = 25$ °C,	±10	V			
\mathbf{R}_{OUT}	Output internal resistance	< 100	Ω			
$\mathbf{V}_{_{d}}$	R.m.s. voltage for AC insulation test, 50/60Hz,1mn	2.5	kV			
$\mathbf{R}_{\!\scriptscriptstyle L}$	Load resistance	≥ 2	$k\Omega$			

Acc	curacy-Dynamic performance data		
X	Accuracy @ \mathbf{I}_{PN} , $\mathbf{T}_{A} = 25^{\circ}\text{C}$	< ±1	%of I _{PN}
$\mathbf{e}_{\scriptscriptstyle\! L}$	Linearity (0 ± I _{PN})	< ±1	%of I _{PN}
TC e _G	Thermal drift of the gain	≤ ±0.1	%/K
\mathbf{V}_{OE}	Eletrical offset voltage $T_A = 25^{\circ}C$	< ±30	mV
\mathbf{V}_{OH}	Hysteresis offset voltage		
	@ $I_p = 0$; after an excursion of 1 x I_{pN}	< ±50	mV
\mathbf{V}_{OT}	Thermal drift of offset	< ±1.0	mV/K
t,	Response time @ 90% of I_p @ di/dt = 100A/ μ s	≤ 10	μs
f	Frequency bandwidth (- 3dB)	DC 10) kHz

General data					
\mathbf{T}_{A}	Ambient operating temperature	-40 +85	°C		
$\mathbf{T}_{_{\mathrm{S}}}$	Ambient storage temperature	-40 +85	°C		
m	Mass	450	g		
	Standards	EN 50155			

· >33939 · O

Features

- Hall effect measuring principle
- Galvanic insulation between primary and secondary circuit
- UL 94-V0 rated

Advantages

- Easy mounting
- Compact
- High immunity to external interference
- Low power consumption

Applications

Traction

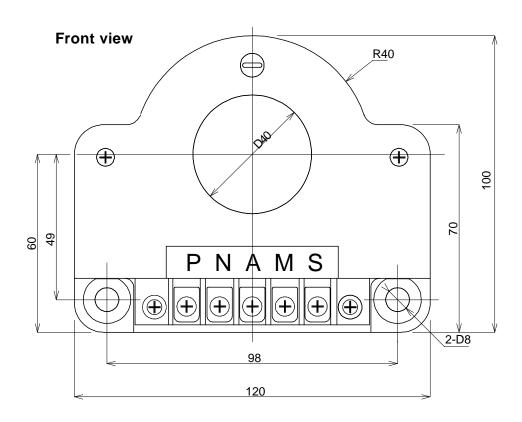
Notes:

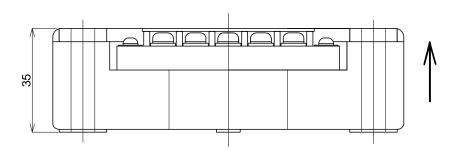
040512/2

LEM Components www.lem.com



HTC 1000..3000-S Dimensions (in mm)





Bottom view

Pins Assignment

P : +V N : -V A : Output M : 0V S : 0V

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