

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).





Preliminary

Electrical data					
Primary non current I _{PN} (A)	ninal Primary current measuring range I _P (A)	Туре			
1000 2000 3000	±1100 ±2200 ±3300	HTC 1000-S HTC 2000-S HTC 3000-S			
v _c	Supply voltage (±3 %)	±15	V		
I _c	Current consumption	< ±20	mA		
R _{IS}	Insulation resistance @ 500 VDC	> 500	MΩ		
V _{out}	Output voltage @ $\pm I_{PN}$, $R_{L}=2k\Omega$, $T_{A}=25^{\circ}C$,	±10	V		
R _{OUT}	Output internal resistance	< 100	Ω		
V _d	R.m.s. voltage for AC insulation test, 50/60Hz,1mn	2.5	kV		
R	Load resistance	≥ 2	kΩ		

Aco	curacy-Dynamic performance data		
Х	Accuracy @ \mathbf{I}_{PN} , $\mathbf{T}_{A} = 25^{\circ}C$	< ±1	%of I _{PN}
e _	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
$V_{_{OH}}$	Hysteresis offset voltage		
	@ $I_{P} = 0$; after an excursion of 1 x I_{PN}	< ±50	mV
V _{ot}	Thermal drift of offset	< ±1.0	mV/K
t,	Response time @ 90% of I_{P} @ di/dt = 100A/µs	≤ 10	μs
f	Frequency bandwidth (- 3dB)	DC 10	kHz

	General data					
T _A	Ambient operating temperature	-40 +85	°C			
Ts	Ambient storage temperature	-40 +85	°C			
m	Mass	450	g			
	Standards ¹⁾	EN 50155				

Notes :

¹⁾ Specification according to IEC 61000-4-3 are not guaranteed between 260 and 290 MHz (value higher by 5% than the specification).



 $V_{OUT} = \pm 10 V$

I_{PN} = ±1000..3000 A

Features

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

Advantages

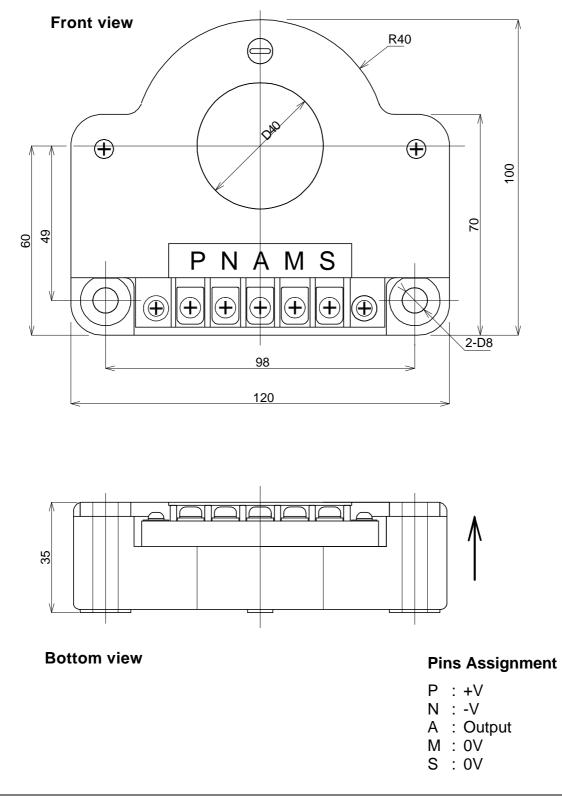
- Easy mounting
- Compact
- High immunity to external interference
- Low power consumption

Applications

Traction



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



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