

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)	ninal Primary current measuring range I _P (A)	Туре		
1000 2000 3000	±1100 ±2200 ±3300	HTC 1000 HTC 2000 HTC 3000)-S	
V _c	Supply voltage (±3 %)	±15	V	
I _C	Current consumption	< ±20	mΑ	
\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	kΩ	

Accuracy-Dynamic performance data				
X	Accuracy @ I _{PN} , T _A = 25°C	< ±1	%of I _{PN}	
$\mathbf{e}_{\scriptscriptstyle \perp}$	Linearity (0 ± I _{PN})	< ±1	%of $\mathbf{I}_{\scriptscriptstyle{\mathrm{PN}}}$	
$TCe_{\scriptscriptstyleG}$	Thermal drift of the gain	≤ ±0.1	%/K	
\mathbf{V}_{OE}	Eletrical offset voltage T _A = 25°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 _r	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		
T _s	Ambient storage temperature	-40 +85	°C		
m	Mass	450	g		
	Standards	EN 50155			

×336267

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

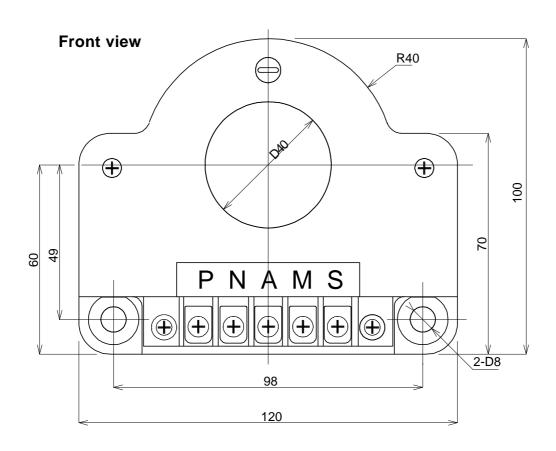
Applications

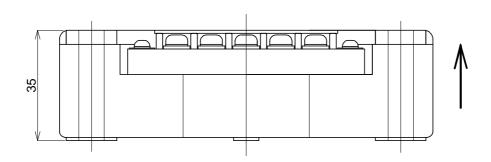
Traction

Notes:



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





Bottom view

Pins Assignment

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