Current Transducers HAZ 4000..20000-SRI

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).





ARRAN					
Electrica	al data				
Primary nominal current I _{PN} (A)	Primary current measuring range $I_{p}(A)$	Туре			
4000 6000 10000 12000 14000 20000	$egin{array}{c} \pm 4000 \\ \pm 6000 \\ \pm 10000 \\ \pm 12000 \\ \pm 14000 \\ \pm 20000 \end{array}$	HAZ 4000-SR HAZ 6000-SR HAZ 10000-SI HAZ 12000-SI HAZ 14000-SI HAZ 20000-SI	ו קו קו קו		
	Supply voltage (± 5 %) Current consumption Overload capacity R.m.s. voltage for AC isc R.m.s. rated voltage, sat Isolation resistance @ 5 Output current @ ± I _{PN} , T Output internal resistance Load resistance	ie separation 00 VDC _A = 25°C	mn approx.		V mA At kV V MΩ mA DC Ω Ω
Accura	icy - Dynamic perf	ormance data			
\mathbf{e}_{L} \mathbf{I}_{OE} \mathbf{I}_{OM} \mathbf{I}_{OT} $\mathbf{TC}\mathbf{e}_{G}$ \mathbf{t}_{r}	Accuracy (a) \mathbf{I}_{PN} , $\mathbf{T}_{A} = 25^{\circ}$ Linearity ²⁾ (0 ± \mathbf{I}_{PN}) Electrical offset current, Residud offset current (a) after an excursion of 1 x Thermal drift of \mathbf{I}_{OE} Thermal drift of the gain Arranging time constant Frequency bandwidth ³)(-	Γ _A = 25°C I _p = 0; I _{PN} (% of reading)		<pre>< ± 1 < ± 1 % < ± 0.08 < ± 0.028 < ± 0.05 % < ± 0.05 % < ± 0.05 < 400 DC 3</pre>	
Genera	I data				
T _s m	Ambient operating temp Ambient storage temper Mass Standards ⁴⁾ Minimum creepage & cl Housing PBT 30% glas	ature earance	approx.	- 10 + 8 - 25 + 8 6 EN 5017 45 CTI IIIa, U	30 °C kg 78 mm

 $I_{PN} = 4000..20000 \text{ A}$ $I_{OUT} = 0 - 20 \text{ mA}$



Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- True-rms, 0-20mA DC current output
- Isolation voltage 12kV~
- Low power consumption
- Package in PBT meets UL 94-V0

Advantages

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

Applications

- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Power supplies for welding and telecommunication applications.

Notes : ¹⁾ Pollution class 2, overvoltage category III, reinforced insulation

²⁾ Linearity data exclude the electrical offset.

³⁾ Please refer to derating curves in the technical file to avoid excessive core heating at high frequency

⁴⁾ Please consult characterisation report for more technical details and application advice.

