## 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 <sub>PN</sub> (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 <sub>PN</sub> , T Output internal resistance Load resistance	ie separation 00 VDC <sub>A</sub> = 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 <sup>2)</sup> (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 <sup>3</sup> )(-	<b>Γ</b> <sub>A</sub> = 25°C I <sub>p</sub> = 0; I <sub>PN</sub> (% of reading)		<pre>&lt; ± 1 &lt; ± 1 % &lt; ± 0.08 &lt; ± 0.028 &lt; ± 0.05 % &lt; ± 0.05 % &lt; ± 0.05 &lt; 400 DC 3</pre>	
Genera	I data				
T <sub>s</sub> m	Ambient operating temp Ambient storage temper Mass Standards <sup>4)</sup> 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 : <sup>1)</sup> Pollution class 2, overvoltage category III, reinforced insulation

<sup>2)</sup> Linearity data exclude the electrical offset.

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

<sup>4)</sup> Please consult characterisation report for more technical details and application advice.

