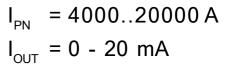


Current Transducers HAZ 4000..20000-SRI

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).







Preliminary

Electric	al data			
Primary nomina current I _{PN} (A)	Primary current measuring range $I_{_{\rm P}}(A)$	Туре		
4000 6000 10000 12000 14000 20000	± 4000 ± 6000 ± 10000 ± 12000 ± 14000 ± 20000	HAZ 4000-SRI HAZ 6000-SRI HAZ 10000-SRI HAZ 12000-SRI HAZ 14000-SRI HAZ 20000-SRI		
V _C I _C OCC V _d V _b R _{IS} I _{OUT} R _{OUT} R _L	Supply voltage (\pm 5 %) Current consumption Overload capacity R.m.s. voltage for AC isolat R.m.s. rated voltage, safe solution resistance @ 500 Output current @ \pm \mathbf{I}_{PN} , \mathbf{T}_{A} = Output internal resistance Load resistance	separation VDC		V MA kV V $M\Omega$ MA DC Ω
Accur	acy - Dynamic perfor	mance data		
X e L OE I OM TCe t f	Accuracy @ I_{PN} , $T_A = 25$ °C (Linearity 2) (0 $\pm I_{PN}$) Electrical offset current, T_A Residud offset current @ I_P after an excursion of 1 x I_{PN} Thermal drift of I_{OE} Thermal drift of the gain (% Arranging time constant Frequency bandwidth 3)(- 3	= 25°C = 0; of reading)	< ± 1 < ± 1 ° ° < ± 0.08 < ± 0.05 ° < ± 0.05 < 400 DC 3	%of I _N /K
Genera	. ,	- /		1
T _A	Ambient operating tempera	ature	- 10 + 8	30 °C



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.

Ambient storage temperature

Minimum creepage & clearance

Housing PBT 30% glassfiber

Mass

Standards 4)

- 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.

040713/0

LEM Components www.lem.com

- 25 .. + 80

EN 50178

CTI IIIa, UL94-V0

45

approx. 6

°C

m m



HAZ 4000 .. 20000-SRI (in mm)

Preliminary

