

Current Transducer HA 200 to 500-SRU

For the electronic measurement of DC, AC and pulsed currents. with a galvanic isolation between the primary (high power) circuit and the secondary (electronic) circuit.



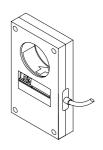
Electrical data

	Type DO HA 200-SRU HA 300-SRU HA 400-SRU HA 500-SRU	Primary nominal C or AC peak current I _{PN} 200 A 300 A 400 A 500 A	Primary current measuring range 0 ± 200 A 0 ± 300 A 0 ± 400 A 0 ± 500 A	
Î _P V _{OUT} R _L V _C V _b		e (± 5 %) mption (max)	30000 + 10 > 1 ± 15 25 50	A V kΩ V mA V
Ac	curacy - Dyn	amic performance data		
X E L V OE V OM TCE G t av K CF f	Electrical offset Residual offset after an overloa Thermal drift of Thermal drift of Averaging time Crest factor for	offset voltage $T_A = 0 + 60$ °C gain $T_A = 0 + 60$ °C	± 1 ± 0.5 Max ± 25 < 12.5 ± 5 ± 0.05 100 6 DC and 0.015 25	% % mV mV/°K %/°K %/s kHz
Ge	eneral data			
T _A T _S m	Ambient operating temperature Ambient storage temperature Mass		0 + 60 - 10 + 70 170	°C °C

Notes: 1) For use on SELV systems or with insulated conductors on higher rated systems

- 2) Excludes the electrical offset
- 3) Refer to derating curves in the technical file to avoid excessive core heating at high frequency

$I_{PN} = 200.500 A$



Features

- Open loop transducer using Hall
- Panel mounting
- Insulated plastic case to UL 94-HB
- True Rms output.

Advantages

- Very good linearity
- Very good accuracy
- Low temperature drift
- Wide frequency bandwidth
- · Very low insertion losses
- High immunity to external interference
- Current overload capability
- Low power consumption
- Wide dynamic range 200 to 500 A in one package.

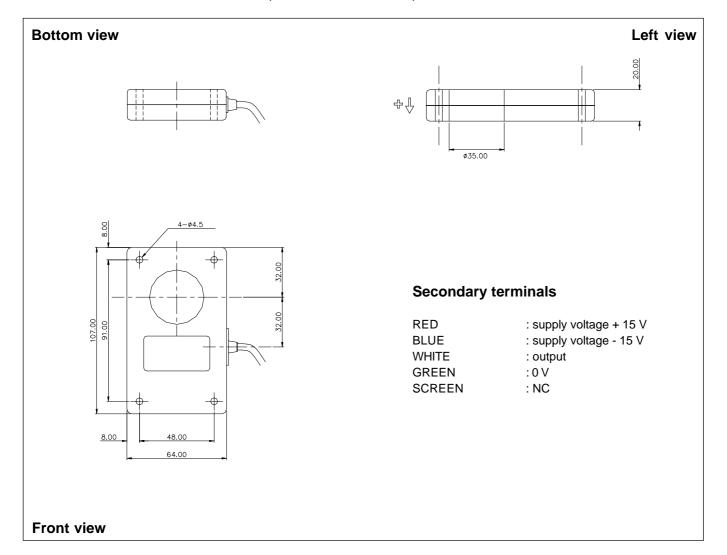
Applications

- AC variable speed drives and servo motor drives
- · Static converters for DC motor drives
- · Battery supplied applications
- Uninterruptable Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- · Power supplies for welding applications.

HA2/500RU980828/2



Dimensions HA 200 to 500-SRU (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

• General tolerance

• Primary through-hole

• Connection of secondary

• Enclosure

± 0.5 mm Ø 35 mm

Via 4 core screened PVC cable 1.5 m in length

Moulded ABS plastic

Remarks

- $\bullet~{\bf V}_{\rm OUT}$ is positive when ${\bf I}_{\rm P}$ flows in the direction of the arrow.
- Temperature of the primary conductor should not exceed
 OO*C
- This is a standard model. For different versions (supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.) please contact us.