

Speciality Magnetic Components Qualified to ISO 9001:2008

PRELIMINARY DATA SHEET

Open Loop Hall Effect Current Transformer Type HOS



The HOS series are Open Loop Hall Effect Current Transformers covering the range of 100A to 600A. The product provides a voltage output which is galvanically isolated from the primary conductor. Designed to be panel mounted, or strapped to a bus bar the HOS series is controlled via an industry standard connector.

Features

- Low Supply Current Consumption
- 5kV Proof Stress
- Panel Mounting
- Designed in Quality

Applications

- Automotive
- Variable Speed Drives
- D.C. Power Supplies
- UPS Systems

Benefits

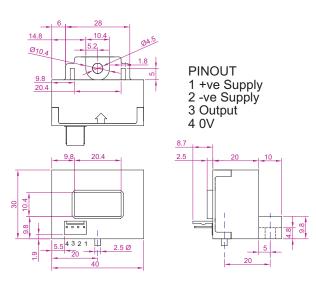
- Reduced Power Supply Costs
- Useable with Bare Primary Conductors
- Horizontal or Vertical Mounting
- High Reliability
- Power System Monitoring
- Welding Equipment
- Traction
- Switch Mode Power Supplies

TECHNICAL DATA

Product Type	HOS	100	200	300	400	500	600
Nominal Primary Current (IPN)	100	200	300	400	500	600
Primary Current measuring r	ange 0 to	±300	±600	±900	±900	±900	±900

Specification					
Nominal Power Supply	±15V +5% to ±12 -5%				
Supply Current	20 mA max.				
Load Resistance	1 kΩ min				
Output Resistance	$100\Omega \pm 5\%$				
Output Voltage @ ± IPN RL=10kΩ	±4 V nominal				
RMS Rated Voltage ¹	500 V				
Isolation Resistance @ 500 Volts	1000 MΩ min.				
AC Error ² @ 25°C, ±15V @ IPN rms 50Hz	±1% of Ipn max.				
Linearity Error ²	±1% of Ipn max.				
Output Offset @ 25°C, Ip = 0	± 20 mV max.				
Hysteresis of offset at ± nominal primary current	±20mV max.				
Output Offset Drift -25 to +85°C	± 1 mV/°C max.				
Thermal Drift of Gain -25 to +85°C	± 0.1 %/°C max.				
Response Time	3 µs max.				
di/dt following	50 A/μs min.				
Bandwidth (- 3 dB)	DC to 50 kHz min.				
Creepage Distance	6.5 mm max.				
Clearance Distance	5 mm max.				
RMS Voltage Isolation Test, 50 Hz 1min	3 kV				
General					
Operating & Storage Temperature Range	-25 to +85°C				
Weight	60g				
Housing	PA66 15% Glass Filled				
	Flammability Rating V0 , CTI Rating >140				
Connector	Compatible with Molex 5046-04/A				
Mounting	Panel Mounting or strapped to conductor				
Signal Sense	Positive output obtained when current flows as shown by direction of arrow				

Dimensions



¹ Overvoltage category III, Pollution Degree 2 ² Excludes the zero offset