

# **Current Transducer HO-P series**

 $I_{PN}$  = 60, 100, 120, 180, 240, 250 A

# Ref: HO 60-P, HO 100-P, HO 120-P, HO 180-P, HO 240-P, HO 250-P

For the electronic measurement of current: DC, AC, pulsed..., with galvanic separation between the primary and the secondary circuit.











### **Features**

- · Open loop multi-range current transducer
- Voltage output
- Single power supply +5 V
- Over-current detect 2.93 ×  $I_{PN}$  (peak value)
- EEPROM Control
- Galvanic separation between primary and secondary circuit
- Low power consumption
- · Compact design for THT PCB mounting
- Aperture: 15 × 8 mm
- Factory calibrated
- · Dedicated parameter settings available on request (see page 12).

### **Advantages**

- Low offset drift
- Over-drivable V<sub>ref</sub>
- 8 mm creepage/clearance
- Fast response.

# **Applications**

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

#### **Standards**

- EN 50178: 1997
- IEC 61010-1: 2010
- IEC 61326-1: 2012
- UL 508: 2010.

### **Application Domain**

• Industrial.



## **Absolute maximum ratings**

Parameter	Symbol	Unit	Value
Supply voltage (not destructive)	$U_{\rm c}$	V	8
Supply voltage (not entering non standard modes)	U <sub>c</sub>	V	6.5
Primary conductor temperature	$T_{_{\mathrm{B}}}$	°C	120
ESD rating, Human Body Model (HBM)	U <sub>ESD</sub>	kV	2

Stresses above these ratings may cause permanent damage. Exposure to absolute maximum ratings for extended periods may degrade reliability.

# UL 508: Ratings and assumptions of certification

File # E189713 Volume: 2 Section: 5

#### **Standards**

- CSA C22.2 NO. 14-10 INDUSTRIAL CONTROL EQUIPMENT Edition 11 Revision Date 2011/08/01
- UL 508 STANDARD FOR INDUSTRIAL CONTROL EQUIPMENT Edition 17 Revision Date 2010/04/15

#### **Ratings**

Parameter	Symbol	Unit	Value
Primary involved potential		V AC/DC	600
Max surrounding air temperature	$T_{A}$	°C	105
Primary current	$I_{\scriptscriptstyle{ m P}}$	А	According to series primary current
Secondary supply voltage	U <sub>c</sub>	V DC	5
Output voltage	V <sub>out</sub>	V	0 to 5

### **Conditions of acceptability**

- 1 These devices have been evaluated for overvoltage category III and for use in pollution degree 2 environment.
- 2 A suitable enclosure shall be provided in the end-use application.
- 3 The terminals have not been evaluated for field wiring.
- 4 These devices are intended to be mounted on a printed wiring board of end use equipment. The suitability of the connections (including spacings) shall be determined in the end-use application.
- 5 Primary terminals shall not be straightened since assembly of housing case depends upon bending of the terminals.
- 6 Any surface of polymeric housing have not been evaluated as insulating barrier.
- 7 Low voltage control circuit shall be supplied by an isolating source (such as a transformer, optical isolator, limiting impedance or electro-mechanical relay).
- 10 The jumper installed within the primary hole is only intended for fixing the sensor and not for carrying the primary current.

#### Marking

Only those products bearing the UR Mark should be considered to be Listed or Recognized and covered under UL's Follow-Up Service. Always look for the Mark on the product.