# 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 $V_{ref}$
- 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.


LEM reserves the right to carry out modifications on its transducers, in order to improve them, without prior notice

## Absolute maximum ratings

| Parameter | Symbol | Unit | Value |
|---|---|---|---|
| Supply voltage (not destructive) | $U_C$ | V | 8 |
| Supply voltage (not entering non standard modes) | $U_C$ | V | 6.5 |
| Primary conductor temperature | $T_B$ | °C | 120 |
| ESD rating, Human Body Model (HBM) | $U_{ESD}$ | 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 | $I_P$ | A | According to series primary current |
| Secondary supply voltage | $U_C$ | V DC | 5 |
| Output voltage | $V_{out}$ | 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.



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