

## Current transducer LF 310-S

$I_{PN} = 300 \text{ A}$

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



### Features

- Bipolar and insulated current measurement up to 500 A
- Current output
- Closed loop (compensated) current transducer
- Panel mounting.

### Advantages

- High accuracy
- Very low offset drift over temperature.

### Applications

- Windmill inverters
- Test and measurement
- Substations
- 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.

### Standards

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

### Application Domain

- Industrial.

**Absolute maximum ratings**

Parameter	Symbol	Unit	Value
Maximum supply voltage (working) (-40 ... 85 °C)	$\pm U_C$	V	$\pm 21$
Primary conductor temperature	$T_B$	°C	100
Maximum steady state primary current (-40 ... 85 °C)	$I_{PN}$	A	300

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: 9

**Standards**

- USR indicates investigation to the Standard for Industrial Control Equipment UL 508.
- CNR indicates investigation to the Canadian standard for Industrial Control Equipment CSA C22.2 No. 14-13

**Conditions of acceptability**

When installed in the end-use equipment, with primary feedthrough potential involved of 600 V AC/DC, consideration shall be given to the following:

- 1 - *These products must be mounted in a suitable end-use enclosure.*
- 2 - *The secondary pin terminals have not been evaluated for field wiring.*
- 3 - *Low voltage control circuit shall be supplied by an isolating source (such as transformer, optical isolator, limiting impedance or electro-mechanical relay).*
- 4 - *Based on the temperature test performed on all Series, the primary bar or conductor shall not exceed 100 °C in the end use application.*

**Marking**

Only those products bearing the UL or 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.