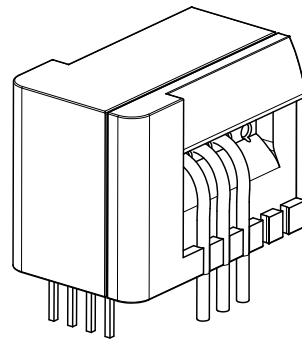


## Current Transducer CASR series

$I_{PN} = 6, 15, 25, 50 \text{ A}$

Ref: CASR 6-NP, CASR 15-NP, CASR 25-NP, CASR 50-NP

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



### Features

- Closed loop (compensated) multi-range current transducer
- Voltage output
- Single supply
- Isolated plastic case material recognized according to UL 94-V0
- Compact design for PCB mounting.

### Advantages

- Very low temperature coefficient of offset
- Very good dv/dt immunity
- LTSR compatible footprint
- Reduced height
- Reference pin with two modes: Ref IN and Ref OUT
- Extended measuring range for unipolar measurement.

### 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
- Solar inverters.

### Standards

- EN 50178
- UL 508
- IEC 61010-1 (safety).

### Application Domain

- Industrial.

**Absolute maximum ratings**

Parameter	Symbol	Unit	Value
Supply voltage	$V_C$	V	7
Primary conductor temperature		°C	110
Maximum primary current	$I_{P\ max}$	A	$20 \times I_{PN}$
ESD rating, Human Body Model (HBM)		kV	4

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

**Isolation characteristics**

Parameter	Symbol	Unit	Value	Comment
RMS voltage for AC isolation test 50/60Hz/1 min	$V_d$	kV	4.1	
Impulse withstand voltage 1.2/50 $\mu$ s	$\hat{V}_w$	kV	7.5	
Partial discharge extinction voltage @ 10 pC (rms)	$V_e$	V	1000	
Clearance distance (pri. - sec.)	<b>dCl</b>	mm	7.5	Shortest distance through air
Creepage distance (pri. - sec.)	<b>dCp</b>	mm	7.5	Shortest path along device body
Creepage distance (pri. .- sec.)	<b>dCp</b>	mm	6.2	When mounted on PCB with recommended layout
Case material	-	-	V0 according to UL 94	
Comparative tracking index	<b>CTI</b>	V	600	
Application example	-	-	300 V CAT III PD2	Reinforced isolation, non uniform field according to EN 50178, EN 61010
Application example	-	-	600 V CAT III PD2	Simple isolation, non uniform field according to EN 50178, EN 61010
According to UL 508: primary potential involved in Volts RMS AC or DC	-	V	600	For use in a pollution degree 2 environment

**Environmental and mechanical characteristics**

Parameter	Symbol	Unit	Min	Typ	Max	Comment
Ambient operating temperature	$T_A$	°C	-40		85	
Ambient storage temperature	$T_S$	°C	-55		105	
Mass	$m$	g		9		
Standards	EN 50178, IEC 60950-1, IEC 61010-1, IEC 61326-1, UL 508					