

AC Current transducer AK-C-

Transducer for the electronic measurement of AC sinusoidal waveforms, with galvanic isolation between the primary (High power) and the secondary circuits (Electronic circuit). Jumper selectable ranges and self powered transducers.







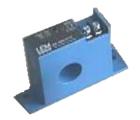


Type

3

50-60

$I_{PN} = 10 ... 200 A$



Electrical data

Primary Nominal Current

| | | | | Date code |
|-------------|-------------------------|-------------------------|--------------|-----------|
| I, | PN (A.t.RMS) | V _{OUT} (V DC) | | |
| 1 | 0,20,50 | 5 | AK 50 C5 | planned |
| 1 | 0,20,50 | 10 | AK 50 C10 | MAY 2006 |
| 100 | 0,150,200 | 5 | AK 200 C5 | planned |
| 100,150,200 | | 10 | AK 200 C10 | JUNE 2006 |
| | | | | |
| Vc | Supply voltage | | Self Powered | |
| R_L | Load resistance | | 1 | $M\Omega$ |
| V_{b} | Rated voltage (CAT III, | PD2) | 150 | V AC |

Analogue Output Signal¹⁾

Accuracy - Dynamic performance data

RMS Isolation voltage test, 50 Hz, 1mn

Frequency bandwith

| Χ | Accuracy @ I _{PN.} T _A =25°C | ± 1 | % |
|----------------|--|-------|----|
| t _r | Response time @ 90% of I _{PN} | < 100 | mS |

| General data | | | | | |
|----------------|--|-------------|----|--|--|
| т | Ambient operating temperature (0-95% RH) | - 20+ 50 | °C | | |
| T _s | Ambient storage temperature | - 20+ 85 | °C | | |
| m m | Mass | 120 | g | | |
| | Safety | IEC 61010-1 | | | |
| | EMC | EN 61326 | | | |

 $\underline{\text{Note}}$: $^{1)}\text{For 0-5 V}$ output model, no saturation output up to 8.2 V and for 0-10 V output model, no saturation output up to 15 V.

Features

RoHS

kV AC

Hz

- AC sinusoïdal measurement
- Average responding
- Self powered transducers
- · Panel mounting
- Voltage output
- Jumper selectable ranges

Advantages

- Large aperture
- High isolation between primary and secondary circuits
- Easy to mount

Applications

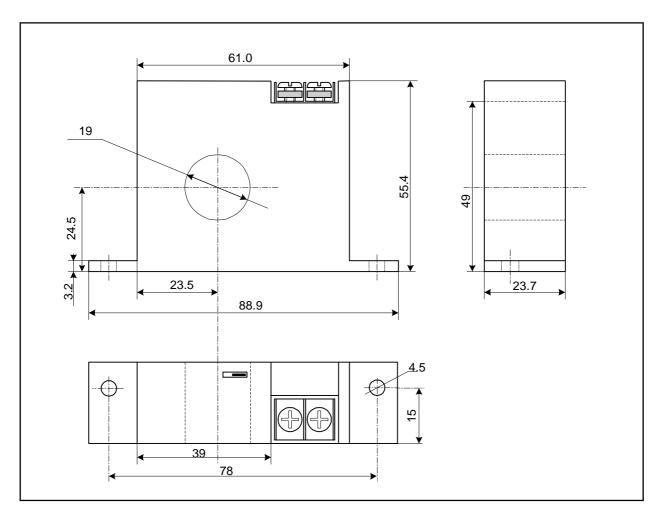
- Automation systems
 Analog current reading for remote monitoring (e.g. motor).
- Data loggers
 Self-powered transducer does not drain data logger batteries.
- Panel meters
 Simple connection displays power consumption.

Options on request

• DIN mounting



Dimensions AK-C-(unit: mm, 1mm = 0.0394 inch)



Mechanical characteristics

• General tolerance ± 1 mm

• Primary aperture 19 mm

• Panel mounting 2 holes Ø 4.5mm

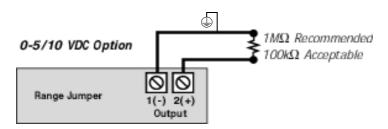
Distance between holes 78 mm

Remark

• Temperature of the primary conductor should not exceed 60°C.

Connections

• 2 x UNC8 Cylindric Head



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