



# AC Current Transducer Model ACV 0-200A to produce 0-5 Volts dc

### OPERATING RANGE:

Primary: 5 to 200 Amps ac.  
Secondary: 0 to 5 Volts dc.

**FREQUENCY:** 50/60 Hz.

### INSULATION LEVEL:

600 Volts, 10 kV BIL full wave.

**RESPONSE TIME:** 0.25 Seconds.

### AMBIENT TEMPERATURE RANGE:

-30°C to +60°C

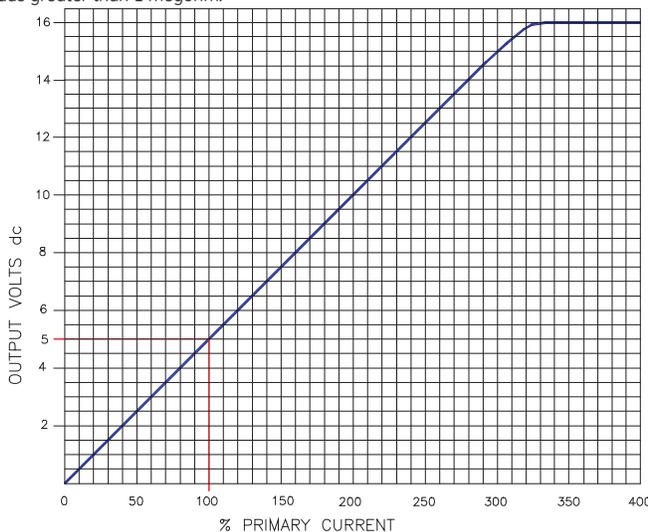
1% max. peak ripple on output at 1 megohm or greater.

Secondary terminals are brass screws No. 8-32 with one flatwasher and lockwasher.

Approximate weight 1.5 lbs.

MODEL NUMBER	PRIMARY AMPS	ACCURACY % F.S.*
ACV - 5	0 - 5	1.0
ACV - 10	0 - 10	0.75
ACV - 15	0 - 15	0.75
ACV - 20	0 - 20	0.5
ACV - 30	0 - 30	0.5
ACV - 50	0 - 50	0.5
ACV - 75	0 - 75	0.5
ACV - 100	0 - 100	0.5
ACV - 150	0 - 150	0.5
ACV - 200	0 - 200	0.5

\* For loads greater than 1 megohm.



**DESCRIPTION:** The model ACV series of current transducers will produce a 0-5V dc output signal that is directly proportional to the input current. The transducers internal circuitry is average sensing, calibrated for RMS.

### APPLICATION:

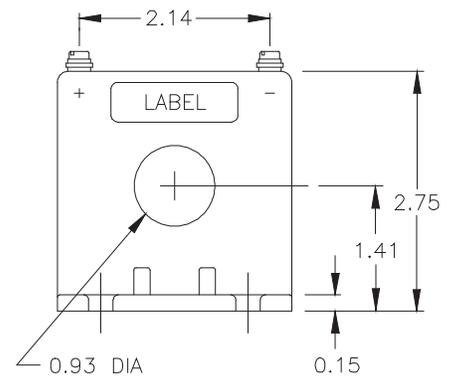
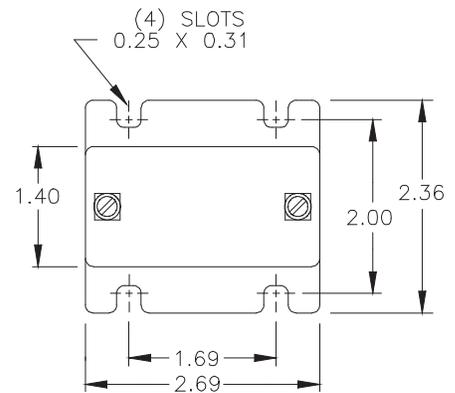
These transducers are intended for use with process control or industrial measuring equipment. The D.C. output signal can be connected directly to high impedance A/D input of a computer without any additional signal conditioning basis.

These transducers can accurately measure up to 200% of full scale on a short time basis (1min. or less), and 150%, on a continuous basis.

To protect external circuits from damage caused by a short circuit or motor inrush current the output is limited to approx.16 V. If its necessary to accurately measure motor overload currents then a model must be selected so that the expected overload will fall within the transducer's 200% accuracy range.

**Example:** A Motor with FLA of 6A

During lock rotor condition the current could rise to 36A. In order to accurately measure the 36A inrush current a model ACV-20 should be used. The ACV-20 will accurately measure up to and including 40 Amps.



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