

LEM adds high-accuracy 130A and 150A current transducers to PCB-mount range

Key Points:

- **High-performance current measurements for wide range of industrial applications**
- **Closed-Loop Hall-effect technology provides high accuracy in compact outline**
- **Measures DC, AC and pulsed currents over wide 150-kHz bandwidth**
- **Choice of integrated primary conductor or open-aperture configuration**
- **Meets all applicable European operational and safety standards**

LEM has introduced the LA 130-150 series of current transducers for use in motor drives, inverters, power supplies and general industrial applications. These printed-circuit board (PCB) mounted devices share a common, compact case outline, and are available to measure nominal full-scale currents of 130 and 150 A_{RMS}. Thanks to the application of LEM's established expertise in Closed-Loop Hall Effect transducer technology, the LA 130-150 series offers high-accuracy, extremely linear measurements at a very competitive price.

The LA 130-150 series measures DC, AC, and pulsed currents, providing an output in the form of a current signal proportional to the measured (primary) current. Two conversion ranges – a factor of 1000 or 2000 – are offered, with two mounting styles; the transducers can be supplied with an open aperture through which the current carrying the primary current is routed: or they can be supplied ready-fitted with a primary conductor that will connect direct to the host PCB. Within the 33.5(H) x 37(W) x 16(D)mm outline, the conductor aperture is a generous 13.5 x 10 mm. In form, footprint and function the LA 130-150 series is backward-compatible with LEM's prior-generation devices.

LA 130-150 transducers feature a wide maximum bandwidth of DC to 150 kHz (-1dB point) and an accuracy of better than 0.5% at the primary nominal RMS current and at ambient temperature. Typical linearity error is $\pm 0.1\%$ at nominal current and the maximum offset temperature drift is $\pm 0.46\%$ of nominal current from -40 to +85°C. The Closed-Loop Hall-effect technology results in zero insertion losses and a fast response time of less than 500 nsec.

The LA 130-150 series will find application at multiple points within variable-speed AC motor and servo motor drives; in static converters for DC motor drives; monitoring currents in battery-supply installations, and in uninterruptible power supplies (UPSs); in specialist power supplies, for example, welding PSUs; and in switch-mode power supplies in general, together with a wide range of other industrial, domestic-appliance and HVAC (heating, ventilating and air-conditioning) applications.



Safety has been addressed as a primary design objective by LEM's engineers. Large creepage and clearance distances of 8 mm, together with a high CTI (Comparative Tracking Index) of 600 provide a high level of safety insulation with an isolation test voltage of 4.3 kV_{RMS} at 50Hz for 1minute.

The LA 130-150-P series, is CE marked, comes with a five-year warranty, and conforms to the EN50178 standard.

LEM – At the heart of power electronics

LEM is the market leader in providing innovative and high quality solutions for measuring electrical parameters. Its core products - current and voltage transducers - are used in a broad range of applications in drives & welding, renewable energies & power supplies, traction, high precision, conventional and green cars businesses. LEM's strategy is to exploit the intrinsic strengths of its core business, and to develop opportunities in existing and new markets with new applications. LEM is a mid-size, global company. It has production plants in Beijing (China), Geneva (Switzerland), and Machida (Japan). With its regional sales offices close to its clients' locations, the company offers a seamless service around the globe. LEM is listed on the SIX Swiss Exchange since 1986; the company's ticker symbol is LEHN

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