.EM Model LA 50-S

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LEM current transducers offer electronic measurement of currents (DC, AC and pulsed) with galvanic isolation between the primary (measured) and the analog output (control) signal.

Electrical Data

50 A rms Nominal Current IN Measuring Range 0 to \pm 70 A Measuring Resistance R_M min R_M max - This is the some with ± 15 V at \pm 50 A max 50 ohms 100 ohms that a load receiver at \pm 70 A max 50 ohms 70 ohms Nominal Analog Output Current 50 mA would also in him Turns Ratio 1:1000 Overall Accuracy at +25°C where here out a second income $\pm 0.5\%$ of I a look withouter, being

+ and - 15 V (\pm 5%) Supply Voltage 3 kV rms/50 Hz/1 min Isolation Between Primary and Secondary

Accuracy - Dynamic Performance

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transact the surrent Zero Offset Current at +25°C ± 0.2 mA max The controlling ca, Thermal Drift of Offset Current typical max (between -10°C and +70°C) $\pm 0.3 \text{ mA}$ $\pm 0.6 \text{ mA}$

Linearity better than 0.1% Response Time better than 1 µs di/dt Accurately Followed better than 50 A/µs Frequency Range DC to 150 kHz (-1dB)

General Data

Operating Temperature -10°C to +70°C Storage Temperature -25°C to +85°C Current Consumption 10 mA + output current

Secondary Internal Resistance 90 ohms (at +70°C)

Package potted into an insulated self-extinguishing plastic case Weight 45 grams

Fastening

by 2 holes 3.2 mm dia 46 x 8 mm between centers Connection to Primary Circuit through-hole 12.7 x 6.35 mm

Secondary Circuit on Molex 5045-04 AG straight pin friction lock header

Polarity a positive measuring current is obtained on the output when the primary

current flows in the direction of the arrow

Notes: • The temperature of the primary conductor should not exceed 100°C

• This is a standard model: for different versions (supply voltage, turns ratio, unidirectional measurement, etc.) please contact us

• Dynamic performance (di/dt and response time) is best with a single bar completely filling the primary hole

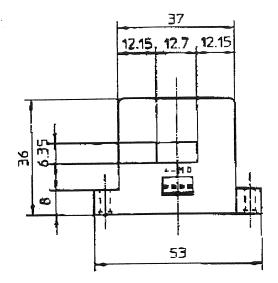
· In order to achieve the best magnetic coupling, primary windings must pass over the top of the device

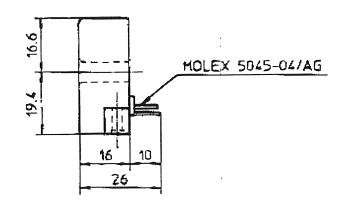
6643 West Mill Road

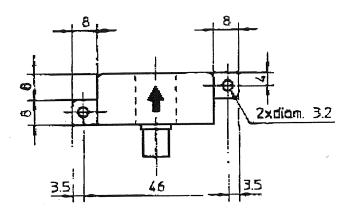
Milwaukee, WI 53218 Fax: 414-353-0733

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Secondary Terminals

Terminal + : supply voltage +15V

Terminal M : measure

Terminal - : supply voltage -15V

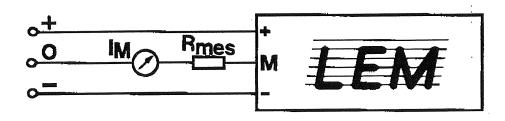
Terminal 0 : NC

10 fine. 1810 to the control of the control of

Mates with Molex 5051 series housing 22-01-1043

4809C or 40445 series crimp terminals

Connection



This data sheet is a translation of the French version which is deemed authentic. We reserve the right to carry out modifications on our transducers, in order to improve them, without previous notice.