Current Transducer LTC 1000-SF/SP4



For the electronic measurement of currents : DC, AC, pulsed..., with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).





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Features

- Closed loop (compensated) current transducer using the Hall effect
- Insulated plastic case recognized according to UL 94-V0
- Railway equipment.

Special features

- I_P = 0 .. ± 3000 A K_N = 1 : 4000
- · Connection to secondary circuit on 10-24 UNC threaded studs
- Mounting feet compatible with LT 1000-SI/SP66.

Advantages

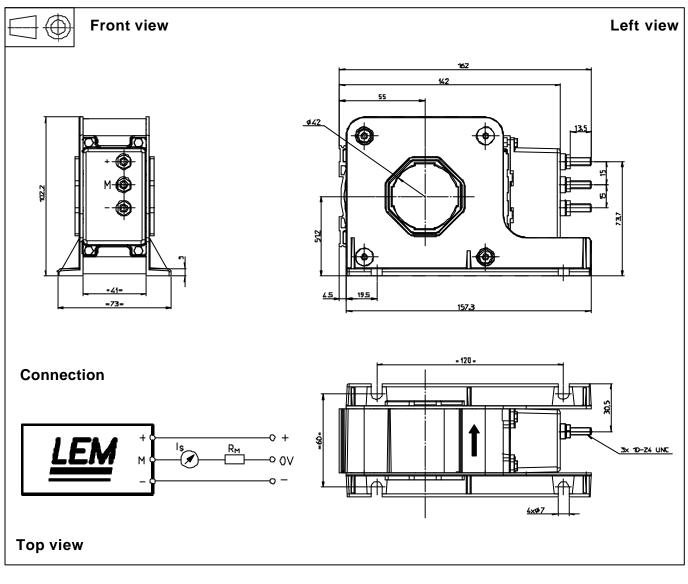
- Excellent accuracy
- · Very good linearity
- Low temperature drift
- Optimized response time
- Wide frequency bandwidth
- No insertion losses
- · High immunity to external interference
- Current overload capability.

Applications

- · AC variable speed drives 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.

Note : ¹⁾ With a di/dt of 100 A/µs.

Dimensions LTC 1000-SF/SP4 (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

General toleranceTransducer fastening	± 1 mm 4 slots Ø 7 mm 4 x M6 steel screws
Recommended fastening torquePrimary through-holeConnection of secondary	5 Nm or 3.69 Lb - Ft. Ø 42 mm 10-24 UNC threaded studs
Recommended fastening torque	2.2 Nm or 1.62 Lb - Ft. Faston 6.3 x 0.8 mm

Remarks

- I_s is positive when I_p flows in the direction of the arrow.
- Temperature of the primary conductor should not exceed 100°C.
- Dynamic performances (di/dt and response time) are best with a single bar completely filling the primary hole.