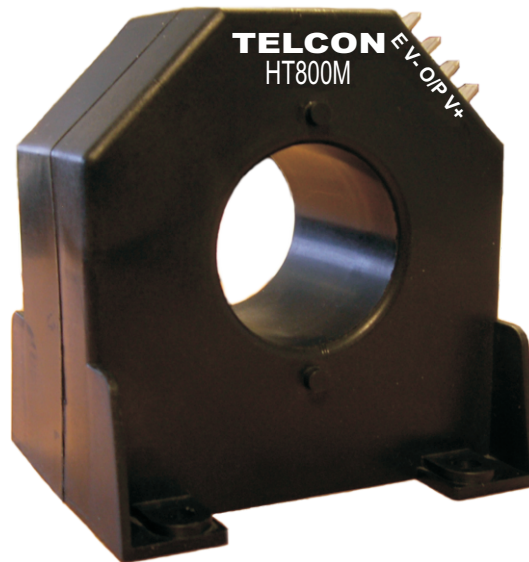


Hall Effect Current Transformer Panel Mounting Type HT800M



The HT800M is a closed loop current transformer. Rated for 800A continuous operation. It has a 43mm diameter hole to accommodate large cables or bus bars. The standard model has 6.3mm spade terminals. There is an electrostatic shield around the central hole

Features

- Robust Package
- 9.5kV Proof Stress
- ± 15 to ± 24 V supplies
- Fast Response
- D.C Coupled Design

Benefits

- No insertion loss
- Useable with Bare Primary Conductors
- No Shunt Resistor Required
- No Switching Noise
- Built In Semiconductor Protection
- High Reliability

Applications

- Variable Speed Drives
- UPS Systems
- Welding Equipment
- Power System Monitoring
- Overcurrent Protection
- Traction Systems

TECHNICAL DATA

| | |
|--------------------------------|--|
| Nominal Primary Current | 800A (D.C. or r.m.s. A.C) |
| Turns Ratio | 4000:1 |
| Nominal Power Supply | $\pm 15V -5\%$ to $\pm 24V +5\%$ |
| Supply Current | 25mA per rail + output current |
| Burden Resistance (see Note 1) | To meet linearity limit: 0 to 15Ω at $\pm 15V \pm 5\%$, 20 to 100Ω at $\pm 24V \pm 5\%$ To measure nominal current: 0 to 40Ω at $\pm 15V \pm 5\%$, 20 to 90Ω at $\pm 24V \pm 5\%$ |
| Operating Temperature Range | -10 to +85°C |
| Storage Temperature Range | -40°C to +90°C |

SPECIFICATION

| | |
|--------------------------------------|---|
| Linearity | 0.1% of nominal primary current |
| Limit of linearity (see Note 2) | 1300A peak |
| Overall accuracy | 0.5% of output at nominal primary current |
| Output Offset Current | $< \pm 150\mu A$ at primary current = 0A |
| Output Offset Current After Overload | $< \pm 250\mu A$ at primary current = 0A |
| Zero Offset /Temperature | $< 3\mu A/^{\circ}C$ |
| Zero Offset/Supply Variation | $< 5\mu A/V$ |
| Coil Resistance | 21Ω at 25°C |
| Bandwidth | DC to 150kHz at -1dB |
| di/dt following | $> 50A/\mu s$ |
| Delay time | $< 1.0\mu s$ |
| Proof Stress Voltage | 9.5kV a.c., r.m.s. for 1minute |
| Creepage Distance | 19 mm |
| Clearance Distance | 19 mm |

GENERAL DATA

| | |
|--------------|--|
| Weight | 525g |
| Housing | Modified PPO Flammability Rating UL94 V0 |
| Connectors | 6.3 x 0.8mm Faston spades |
| Signal Sense | Positive output obtained across the burden when current flows in the direction of the arrow. |

Note 1 : The maximum burden resistance limit is set by the onset of clipping at the peak of the waveform. The lower limit is set by the thermal limits on the electronics. Higher burden resistances can be used with lower maximum currents and lower burden resistances can be used at lower maximum ambient temperatures.

Note 2 : At maximum ambient temperature and supply voltage, the duration of overload currents should not exceed 2 minutes in any 15 minute period

DIMENSIONS in millimetres

