

Speciality Magnetic Components QUALIFIED to ISO 9001:2008

Hall Effect Current Transformer Panel Mounting Type HT500M



The HT500M is a closed loop Hall Effect Current Transformer in the same family as the HT200M and HT300M.

Rated for 500A continuous operation, it offers high accuracy and bandwidth and high electrical isolation.

Features

- Robust Package
- 7kV Proof Stress
- ±12 to ±15V supplies
- Fast Response
- D.C. Coupled Design

Applications

- Variable Speed Drives
- UPS Systems
- Welding Equipment

Benefits

- No Insertion Loss
- Useable with Bare Primary Conductors
- No Shunt Resistor Required
- No Switching Noise
- Built in Semiconductor Protection
- High Reliability
- Power System Monitoring
- Overcurrent Protection
- Traction Systems

TECHNICAL DATA

Nominal Primary Current Turns Ratio Nominal Power Supply Supply Current Burden Resistance (see Note 1) Operating Temperature Range Storage Temperature Range	500A (D.C. or r.m.s. A.C) 2000:1 $\pm 12V$ -5% to $\pm 15V$ +5% 25mA per rail + output current To meet linearity limit: 0 to 3Ω at $\pm 12V \pm 5\%$, 1.2 to 7Ω at $\pm 15V \pm 5\%$ To measure nominal current: 0 to 6Ω at $\pm 12V \pm 5\%$, 1.2 to 12Ω at $\pm 15V \pm 5\%$ -10 to +85°C	
	-40°C to +90°C	
SPECIFICATION		

Linearity Limit of Linearity (see Note 2) Overall Accuracy Output Offset Current Output Offset Current After Overload Zero Offset/Temperature Zero Offset/Supply Variation Coil resistance Bandwidth di/dt following Delay Time Proof Stress Voltage Creepage Distance	0.1% of nominal primary current. ± 800A peak value 0.65% of nominal primary current <±200µA at primary current =0A <±300µA at primary current =0A < 3µA/°C < 2µA/V 20Ω at 25°C DC to 75kHz at -1dB, DC to 125kHz at -3dB >100A/µs < 0.5µS 7kV a.c., rms for 1 minute 14 mm min
Creepage Distance	
Clearance Distance	14 mm min

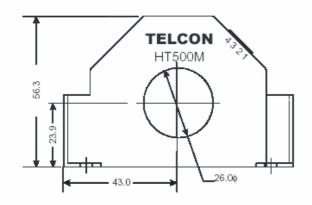
GENERAL DATA

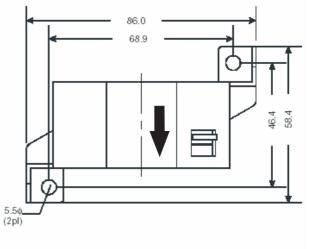
Weight	112g
Housing Material	Modified PPO Flammability Rating UL94 V0
Connector	Molex 5046-04/AG
Signal Sense	A positive output is obtained across the burden when current
	flows in the direction of the arrow.

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, he duration of overload currents should not exceed 2 minutes in an y 15 minute period

DIMENSIONS





Pin-out 1: +15V 2: 0/P 3: -15V



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