

# Current transformer

## Split core current transformer 50A



- Split core
- Safe operation
- Mini in size
- Very easy mounting
- Wide inner window

|               |  |
|---------------|--|
| Model number: | <b>CT1-E-50</b>                            |
| Connect to:   | <a href="#">PM1-E-CT</a><br>terminals 1 -2 |
| Mounting:     | on wire                                    |
| Dimensions:   | 41 × 24 × 27 mm                            |

## General description

The CT1-E-50 split core current transformer is designed for fast and easy installation. The split core design permits non-contact current measurements through magnetic field induction without requiring that the primary wire be taken off line and disconnected for CT installation. This method permits a safer easy and portable current measurement. An internal precision burden resistor across the secondary winding of the CT provides a safe low voltage output and permits safe opening of the secondary circuit.

## Technical specifications

|                         |   |
|-------------------------|---|
| Frequency               | 50-60 Hz                                    |
| Rated current           | 50 A  |
| Accuracy                | ±1% from 20% to 120% of rated current       |
| Phase angle             | less than 2 degrees at 50% of rated current |
| Insulation voltage      | 600 VAC                                     |
| Maximum primary voltage | 5000 VAC (insulated conductor)              |
| Dielectric strength     | 2.5 kV/1mA/1min                             |
| Operating temperature   | -15 to 60°C                                 |
| Operating humidity      | < 85 %                                      |
| Case material           | PC/UL94-V0                                  |
| Bobin                   | PBT   |
| Core                    | Permalloy                                   |
| Internal structure      | Epoxy                                       |
| Leads                   | UL 1015, Twisted pair, 22 AWG               |

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