

## HT Current Transformer (Epoxy Cast, Metering, Protection and PS)

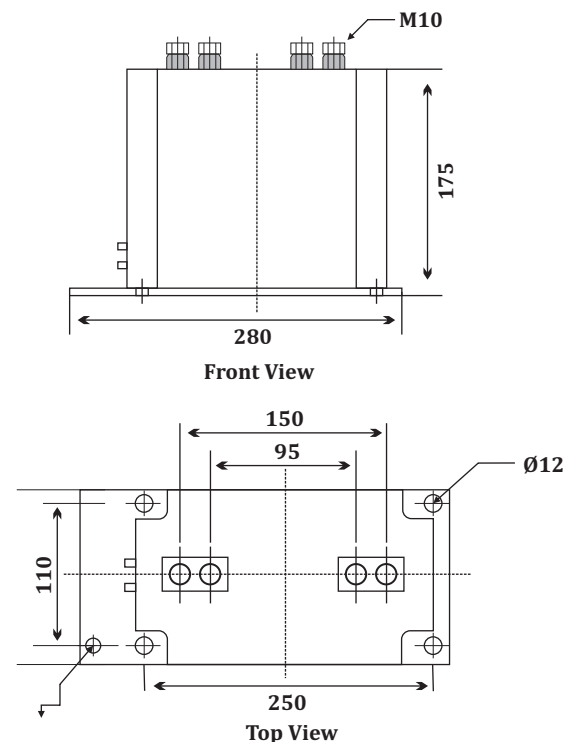
### DESCRIPTION

An HT Current Transformer (CT) is a device for safely and accurately measuring high-voltage, high-current electricity by reducing the current to a lower, standard secondary level (like 5A or 1A). "HT" stands for High Tension, meaning these transformers are designed for high-voltage systems (e.g., 11 kV and above) and must be mechanically robust and highly insulated to handle the stress. They are crucial for energy metering, load monitoring, and protection systems in substations and power distribution networks.

Particulars	Specification
Type	Epoxy Cast, Indoor Type Current Transformer
Standards	IS: 2705 (Part I-IV)
System Voltage	11 kV (or as per requirement)
Insulation Level	12 kV / 28 kV / 75 kVp (as per voltage)
Frequency	50 Hz $\pm$ 5%, 60Hz
Ratio	As per requirement (e.g., 50/5A, 100/5A, etc.)
Number of Cores	Single, Dual, Triple Core and as per requirement
Core-1 (Metering)	Accuracy Cl.: 0.5, 1.0, 2.0 as specify
Burden	15 VA (or as specified)
Core-2 (Protection)	Accuracy Class: 5P10 / 5P20 (as specified)
Burden	5, 10, 15 / 30 VA (as required)
Short Time Current	As per system fault level (e.g., 25 kA for 1 sec) As per requirement
Instrument Security Factor (ISF)	$\leq$ 5 for Metering Core
Accuracy Limit Factor (ALF)	10 / 20 (as per protection requirement)
Thermal Rating	Continuous thermal current $1.2 \times$ rated current
Construction	Resin Cast, Vacuum cast epoxy resin Flame retardant, crack-resistant
Mounting	Horizontal / Vertical (as per design)
Primary Terminal Brass	Electrolytic copper with tin plating, suitable for lug connection
Creepage Distance	As per IS/IEC requirements
Ambient Temperature	-10°C to +50°
Markings	As per IS: 2705 (Ratio, VA, Class, ISF, ALF, Serial No., Year)
Routine & Type Tests	As per IS: 2705
Applicable Use	One core for <b>Energy Metering</b> , another core for <b>Protection Relays</b>



Dimension



\* Other sizes on request

\* +5mm Tolerance all dimension in mm