

CURRENT TRANSFORMERS



GENERAL DESCRIPTION

Instrument transformers (ITRs) are designed to transform voltage or current from a high value in the transmission and distribution systems to a low value that can be utilized by low voltage metering devices. There are primary applications for which ITRs are used: metering (for energy billing and transaction purposes) and protection control (for system protection and protective relaying purposes). Typical output levels of instrument transformers are 1 or 5 amperes and 110 volts for CTs and VTs, respectively. There are several classes of accuracy for instrument transformers defined by the IS, IEEE, IEC, and ANSI standards.

TECHNICAL SPECIFICATION FOR CURRENT TRANSFORMER

Construction Type	Indoor/Outdoor
Type	LV (Resin cast, Moulded Case, Tape Insulated. MV-3.3kV to 33kV Indoor-Epoxy Resin Outdoor-cycloaliphatic, Oil-Filled
Construction Type	Window (Ring & Rectangular) Wound Primary Type(WPL) Bar Primary Type(BPL)
System Voltage	Up to 33kV
Rated Primary Current(A)	Up to 75,000Amps
Rated Secondary Current(A)	1A or 5A
Metering class	1,0.5,0.5s,0.2,0.2s,0.1
Protection Class	5P-15P , ALF 5-30
Rated Burden (VA)	Up to 100VA
Special Protection(PS)	As per Customer Requirement
Number of cores	1 or more
Rated Frequency(Hz)	50Hz-400Hz
Class of insulation	A,B,F and H
Standards	IS,IEC,ANSI,BS etc.

