

Models available : **TM-9000s-U240n-1A / 5A**  
**\*TM-9000s-U240c-1A / 5A (with communication)**  
**TM-9000s-D24n (DC 16 V~36 V)**  
**\*TM-9000s-D24c (DC 16 V~36 V) with communication**

# NUMERICAL BASED TM 9000s

## COMBINED OVER CURRENT AND EARTH FAULT RELAY

### FEATURES

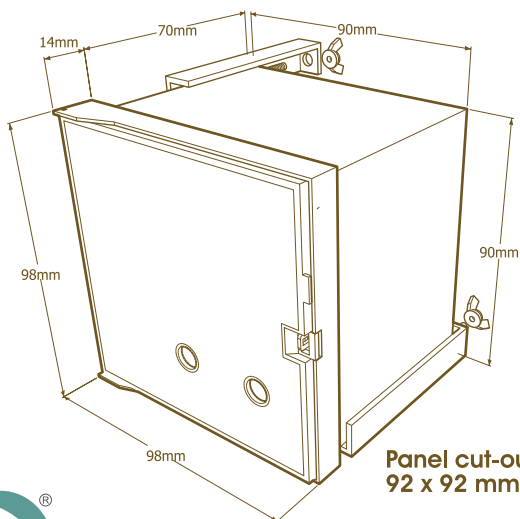
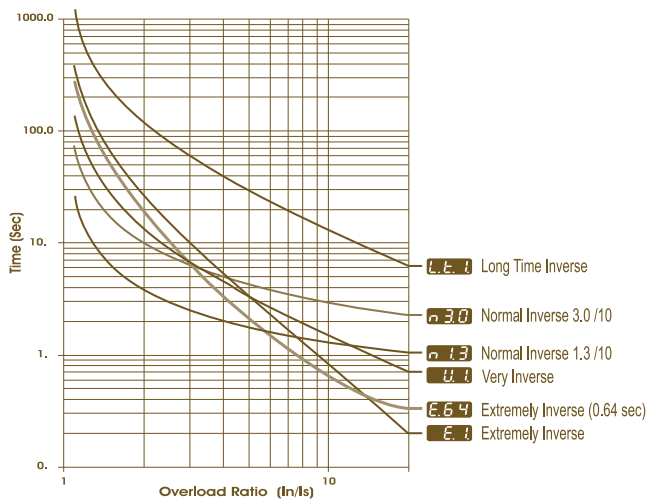
- True RMS measurement
- Low set and High set
- Operation hour recording
- Fault / Trip LED indication
- 7-tripping history
- Neutral current display
- THD-I display
- Last 30 min. ampere demand
- Maximum ampere demand
- Selectable 6 IDMT graphs
- 2 output relays
- \*4 output relays
- \*1 programmable digital input
- \*RS 485 modbus
- \*Dual setting parameters
- Auto shorting of CT terminals (when unplugged)
- Programmable software lock
- Flush mount



(\*): Available for IDMT models only

### IDMT GRAPH

Time graph based on Time Multiplier 1.0



### TECHNICAL DATA

Measurement	True RMS Ampere
Power supply	85 ~ 270 VAC / 100 ~ 340 VDC 16 ~ 36 VDC (model : D24n)
Rated current	..,/5A , ..,/1A upon request
Rated frequency	50 / 60 Hz (selectable)
Relay operation level	≥ 1.10 x (IDMT), ≥ 1.0 x (DTL)
C.T. burden@5A	< 0.5 VA
Tripping contact	SPDT 5A / 240 VAC
Weight	520 g
Operating temp.	0° C ~ +55° C
Standard	IEC : 61000-4-2/4-4/4-5/255-5:1

### SETTING RANGE

Current Setting	20 ~ 200% (1% step) over current 2 ~ 50% (1% step) earth fault
Time setting	0.05~1.00 (0.01 time multiplier step) 0.05 ~ 20.0 (0.1 sec step)
High-set	20 ~ 2000% (10% step) over current 20 ~ 1000% (10% step) earth fault
High-set time	0.03~ 20.0 (0.1 sec step)

### WIRING DIAGRAM

