



ADIT - E

ADJUSTABLE EARTH FAULT RELAY

The ADIT-E is an adjustable current and time earth fault relay, used in transformers, mini-sub, line feeders and LV switchgear.



www.strike.co.za 

GENERAL INDUSTRY • UTILITIES • MINING

OPERATIONAL INFORMATION & SPECIFICATIONS

ADIT-E

The ADIT-E is an electronic version of the tried and tested electromechanical ADIT that has been a market favorite for over 30 years. The electronic version was first launched in the early 2000's due to the increasing market demand and technology shift.

The ADIT-E offers adjustable trip sensitivities enabling the user to customize both the electrical protection system as well as the trip threshold required for the dedicated equipment being protected.

The ADIT-E is used in conjunction with a user specified current transformer sensor, automatically sensing the current transformer input and selecting either the 1 Amp or 5 Amp applicable to the system specifications.

Why buy an ADIT-E

The ADIT-E is designed, manufactured and supported in South Africa to meet the needs of our harsh climate.

It is suitable for operation with a single current transformer connected over the earth bar or over all three phases.

The ADIT-E offers neutral compensator restricted earth fault protection.

Variations on output relay operation: the customer may use two methods to source the auxiliary power.



Key features and functions

The ADIT-E autonomously detects whether it is using either a 1 Amp or 5 Amp current transformer limiting potential user error.

The ADIT-E offers one normally open and one normally closed output which are potential free from each other.

The ADIT-E features three LED status indicators:

- Red: trip indication
- Yellow: trip cycle started
- Green: healthy or trip alarm in memory

The time and current settings of the ADIT-E can be set independently to user requirements.

The ADIT-E auxiliary supply can be connected on the downstream side of the breaker feeding the load.

The ADIT-E can be panel mounted, fitting into any big enough space, independent of its orientation.

A protective screen covers the setting dials on the front of the ADIT-E unit.

Systems Applications

Protection of high and low voltage systems such as:

- Transformers and Mini-sub
- High current sub-feeders
- Motors
- Rising mains
- Dropped overhead lines
- Motor Control Centers
- Neutral compensator restricted earth faults
- Variable Speed Drives
- Switchgear incomer circuits
- LV feeders

Current Threshold Settings

Table of settings for switch position:

CURRENT		TIME	
Switch Position	mA Sensitivity	Switch Position	Definite time in seconds
0	25	0	0.40
1	50	1	0.63
2	100	2	1.00
3	150	3	1.60
4	250	4	2.50
5	300	5	5.00
6	800	6	10.00
7	2000	7	20.00
*8	25	*8	0.40
*9	50	*9	0.63

Note: Positions 8 & 9 are not used but will select settings as indicated

Percentage of CT secondary

Table of percentage settings for 1 A and 5 A CT to assist the users of the superseded electromechanical ADIT:

ADIT-E mA setting	%In (1A CT)	%In (5A CT)
25	2.5	0.5
50	5	1
100	10	2
150	15	3
250	25	5
300	30	6
800	80	16
2000	200	40



www.strike.co.za 

CONTACT US

31 Park Avenue North
Highway Business Park
Old Johannesburg Road
Centurion
South Africa

Tel: +27-12-804-9550
Fax: +27-12-804-8512
info@strike.co.za

PO Box 30220
Sunnyside
0132
Pretoria
South Africa