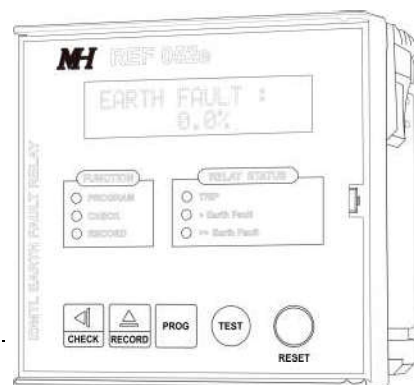


REF052e • IDMTL Earth Fault Relay - V1

Standards Compliances

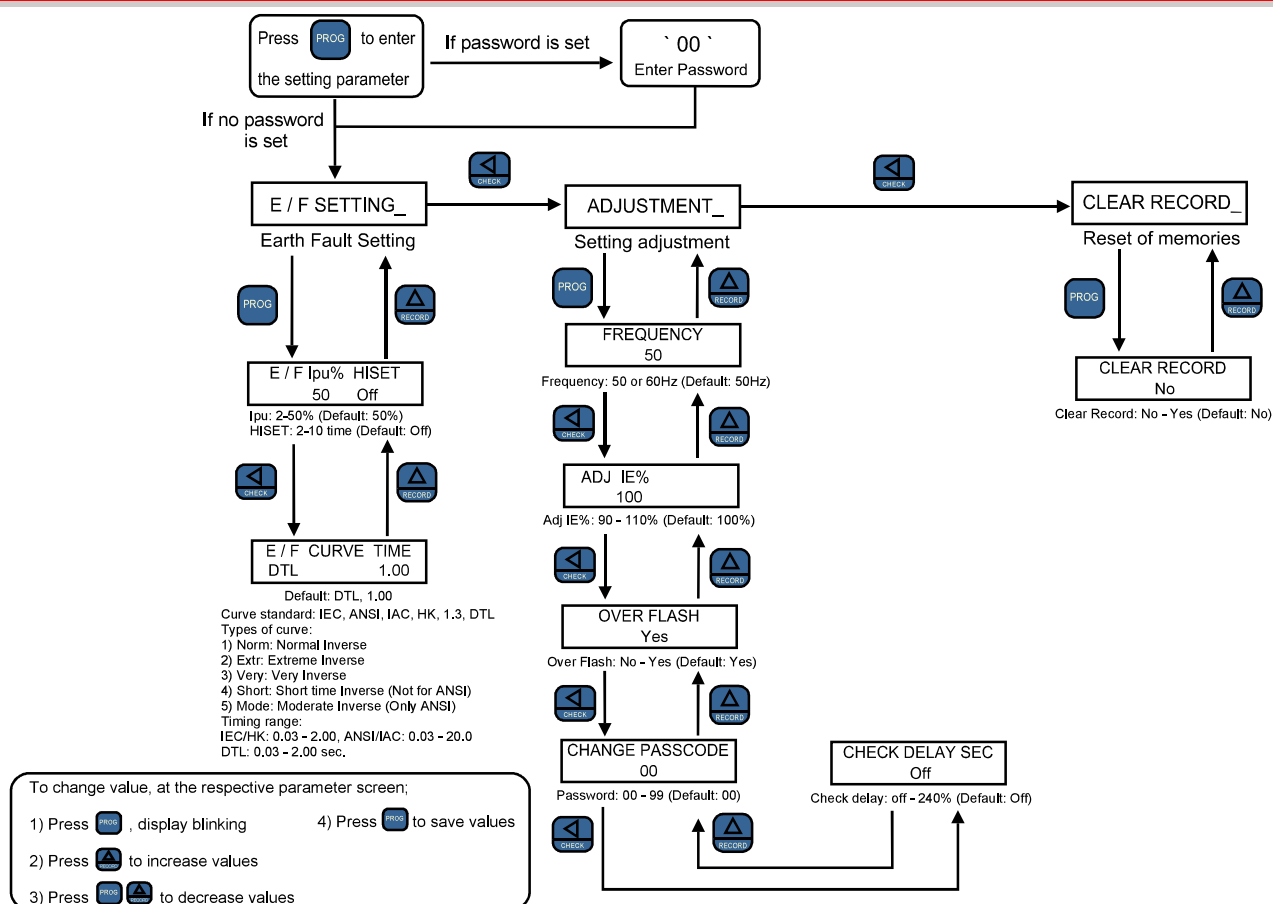
Product Safety Requirements	IEC 60255-27
Electromagnetic Compatibility	CISPR11/22 (IEC 60255-26)
	IEC 61000-4-2 (IEC 60255-26)
	IEC 61000-4-3 (IEC 60255-26)
	IEC 61000-4-4 (IEC 60255-26)
	IEC 61000-4-5 (IEC 60255-26)
	IEC 61000-4-6 (IEC 60255-26)
	IEC 61000-4-8 (IEC 60255-26)
Vibration, Shock and Bump	IEC 60255-21-1
	IEC 60255-21-2
Dry Heat, Damp Heat, Steady State, Cyclic Temperature with Humidity	IEC 60068-2-2 (IEC 60255-1)
	IEC 60068-2-78 (IEC 60255-1)
	IEC 60068-2-30 (IEC 60255-1)

Operation and Installation Guide

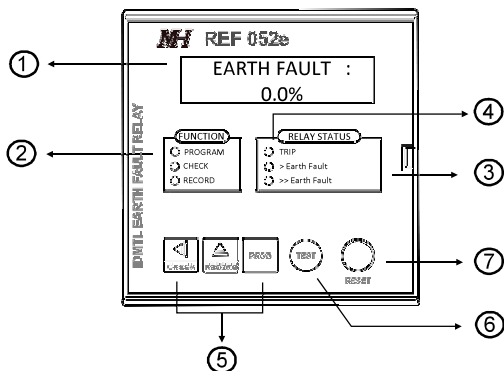


Configuration Overview

IDMTL Earth Fault Relay REF 052e



Overview

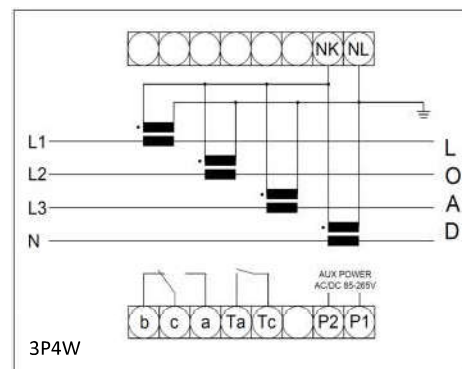
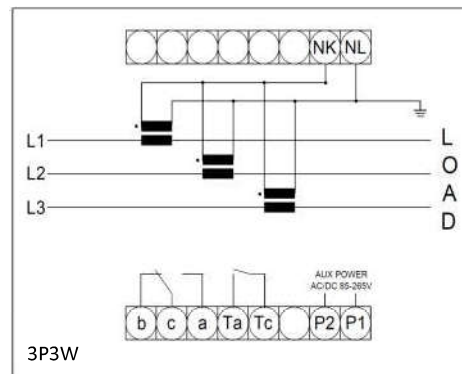


- (1) Real Time Current Reading (%) (5) Menu Navigation Button
 (2) Function Indicator (6) Test Button
 (3) Fault Indicator (7) Reset Button
 (4) Trip Indicator

Features

- Provides elementary protection function
- Added security against nuisance trip handling
- Manual test button for relay operation checking
- Integrated surge arrestor against transient overvoltages
- Tamper-Proof design for setting protection
- Password Protection

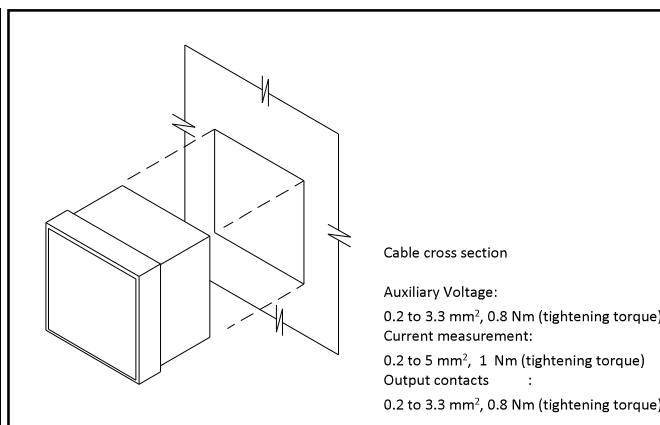
Connection Diagram



Technical Data

Power supply	AC/DC 85-265V (other voltages available upon request)
Operating frequency	50/60Hz
Measurement Resolution	True RMS
Current Input	5A or 1A (Optional), Approx. $\leq 0.5VA$
Protection & Functionality Description	ANSI 51N / 51G - Time delay earth fault ANSI 50N / 50G - Instantaneous earth fault
Current setting	2.0 - 50.0% (0.1% per step)
Time multiplier setting	0.03 - 2.00 in step of 0.01 (IEC, 1.3/10) 0.3 - 20.0 in step of 0.1 (ANSI, IAC)
Instantaneous Setting (High-Set)	2.0 - 10.0 x setting current (0.1 per step)
Time setting range (DTL)	0.03 - 2.00 sec in steps of 0.01 sec
Pick-up current	100 -115% of the setting current
Operating and storage temperature range	Operating -10°C to 55°C Storage and transit -20°C to 65°C
Curve Standard Selection	IEC, IAC, ANSI, 1.3/10, DTL
Curve Selection Type	Normal Inverse Very Inverse Extremely Inverse Short Time Inverse (Only IEC and IAC) Moderate Inverse (Only ANSI) Definite time (DTL)
Operating humidity	< 95% RH (non-condensing)
IP Rating	IP54 (Front), IP20 (Back)
Operation life expectancy	Electrical: > 100,000 operations Mechanical: > 5 x 10 ⁶ operations
Output contact / rating	1xCO (Changeover), 1xNO (Normal open) 250VAC, 5A
Trip Indication	Red LED (relay tripped)
Trip Event record	Last four trip events
Housing material	ABS resin complying with UL94VO
Unit Weight	Approximately 500g
Power consumption	$\leq 4VA$

Installation



Dimension & Cut Out (in mm)

