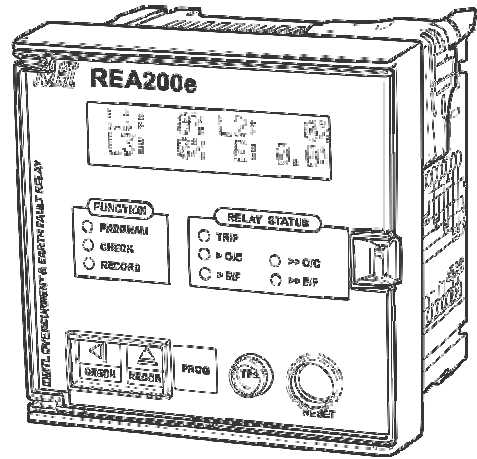


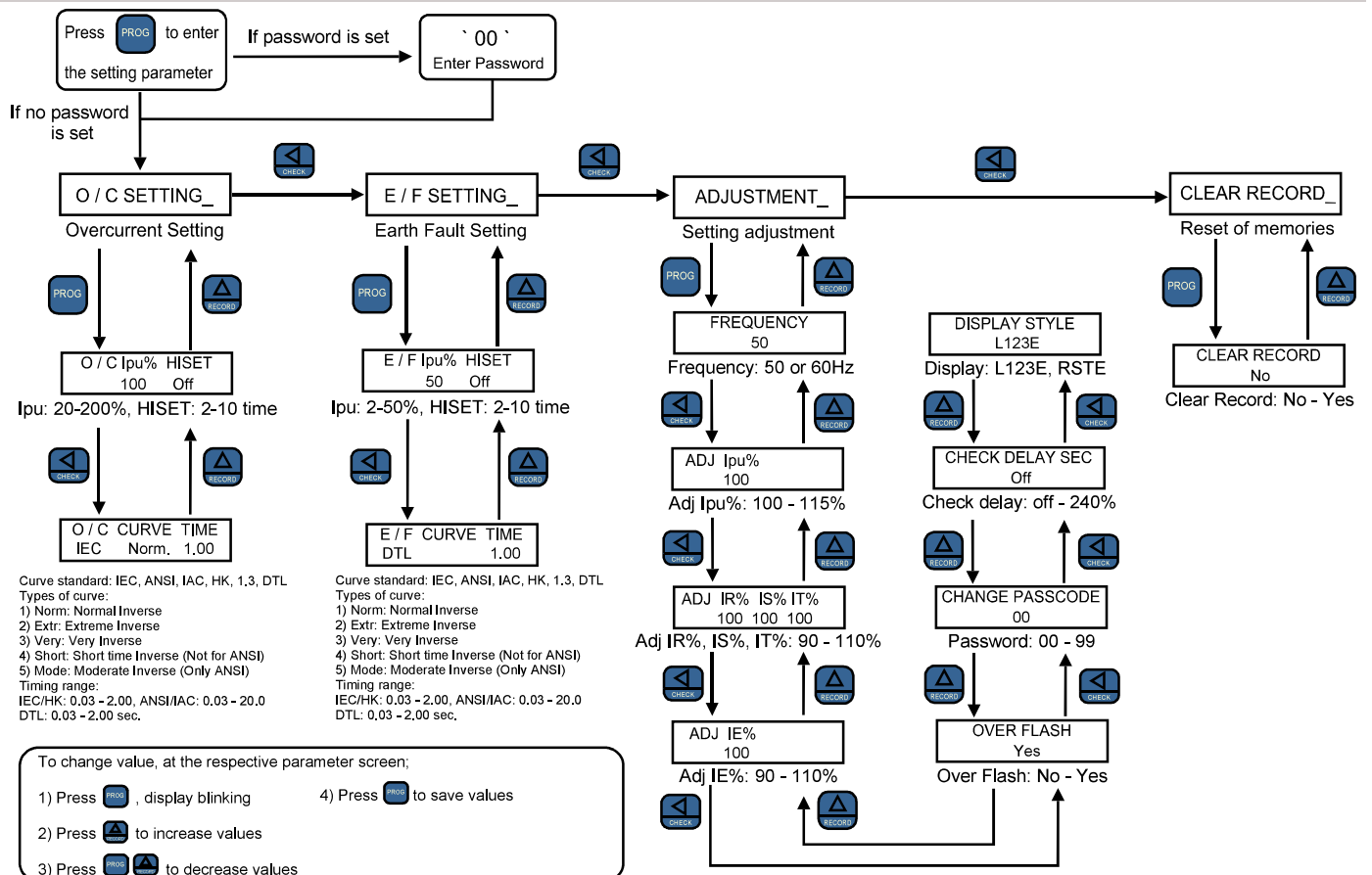
REA200e • Combined IDMTL Overcurrent & Earth Fault Relay - V1

Operation and Installation Guide

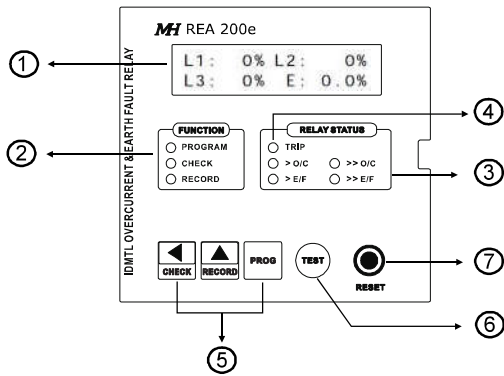


Configuration Overview

*IDMTL Overcurrent and Earth Fault Relay
REA 200e*



Overview



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

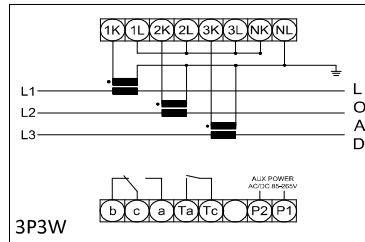
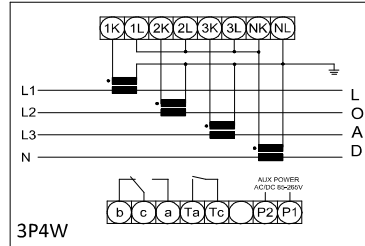
Features

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

Standards Compliance

- CISPR 11 / EN 55011
 - IEC/EN 61000-4-2
 - IEC/EN 61000-4-3
 - IEC/EN 61000-4-4
 - IEC/EN 61000-4-5
 - IEC/EN 61000-4-6
 - IEC/EN 61000-4-8
 - IEC/EN 61000-4-11
 - IEC/EN 61000-4-18
 - IEC/EN 60255-1
 - IEC/EN 60255-5
 - IEC/EN 60255-27
- Conducted and radiated emissions
 Electrostatic-discharge immunity
 Radiated, radio-frequency, electromagnetic-field Immunity
 Electrical fast transient/burst immunity
 Surge immunity
 Immunity to conducted disturbance, induced by radio-frequency fields
 Power frequency magnetic field immunity
 Voltage dips, short interruptions and voltage variations immunity
 Damped oscillatory wave immunity
 Measuring relay and protection equipment
 Insulation coordination for measuring relays and protection equipment. Requirement & Test
 Measuring relays and protection equipment - Part 27: Product safety requirements

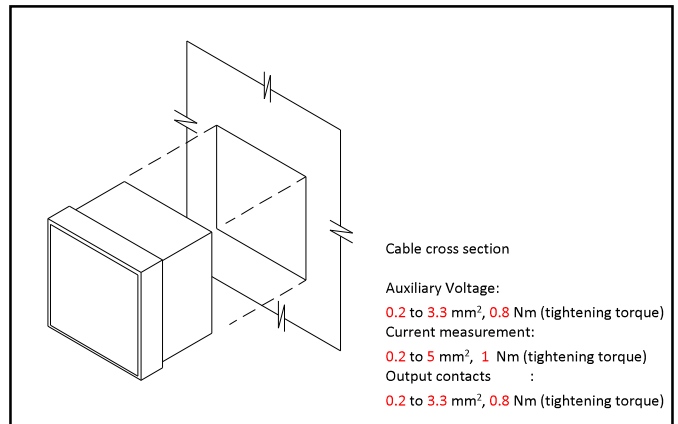
Connection Diagram



Technical Data

Power supply	AC/DC 85-265V (other voltages available upon request)
Operating frequency	50/60Hz
Current Input	5A or 1A (Optional), Approx. $\leq 0.5VA$
Overcurrent	
Current setting	20 - 200% (1% per step)
Time multiplier setting	0.03 - 2.00 (0.01 step)
High-Set	2.0 - 10.0x setting current (0.1 step)
Earth Fault	
Current setting	2.0 - 50.0% (0.1% per step)
Time multiplier setting	0.03 - 2.00 (0.01 step)
High-Set	2.0 - 10.0x setting current (0.1 step)
Time setting range (DTL)	0.03 - 2.00 sec (0.01 sec step)
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	IEC, IAC, ANSI, HK, 1.3/10, DTL
IDMTL Curve Type	Normal Inverse Very Inverse Extremely Inverse Short Time Inverse (Not for ANSI) Moderate Inverse (Only ANSI)
Relative humidity (IEC 60068-2-30)	95% at +40°C
Degree of protection (IEC 60529)	IP54 (Front), IP20 (Back)
Voltage withstand (IEC 60255-5)	2kVrms for 1 min
Overcurrent withstand	10x I _{rated} for 3 sec
Operation life expectancy	Electrical: > 100,000 operations Mechanical: > 5 x 10 ⁶ operations
Output contact	2 NO and 1 NC, AC 250V, 5A
Indication	Red LED (relay tripped)
Housing material	ABS resin complying with UL94V0
Unit Weight	Approximately 500g
Power consumption	$\leq 5VA$

Installation



Dimension & Cut Out (in mm)

