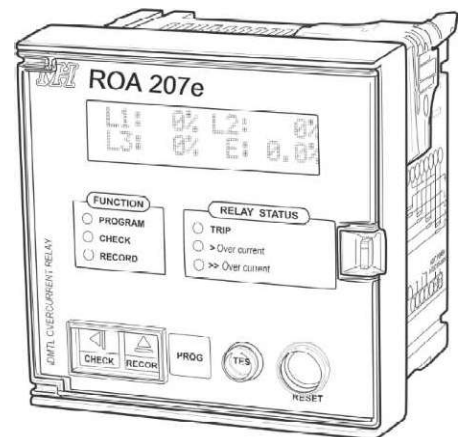


ROA207e • IDMTL Overcurrent Relay - V1

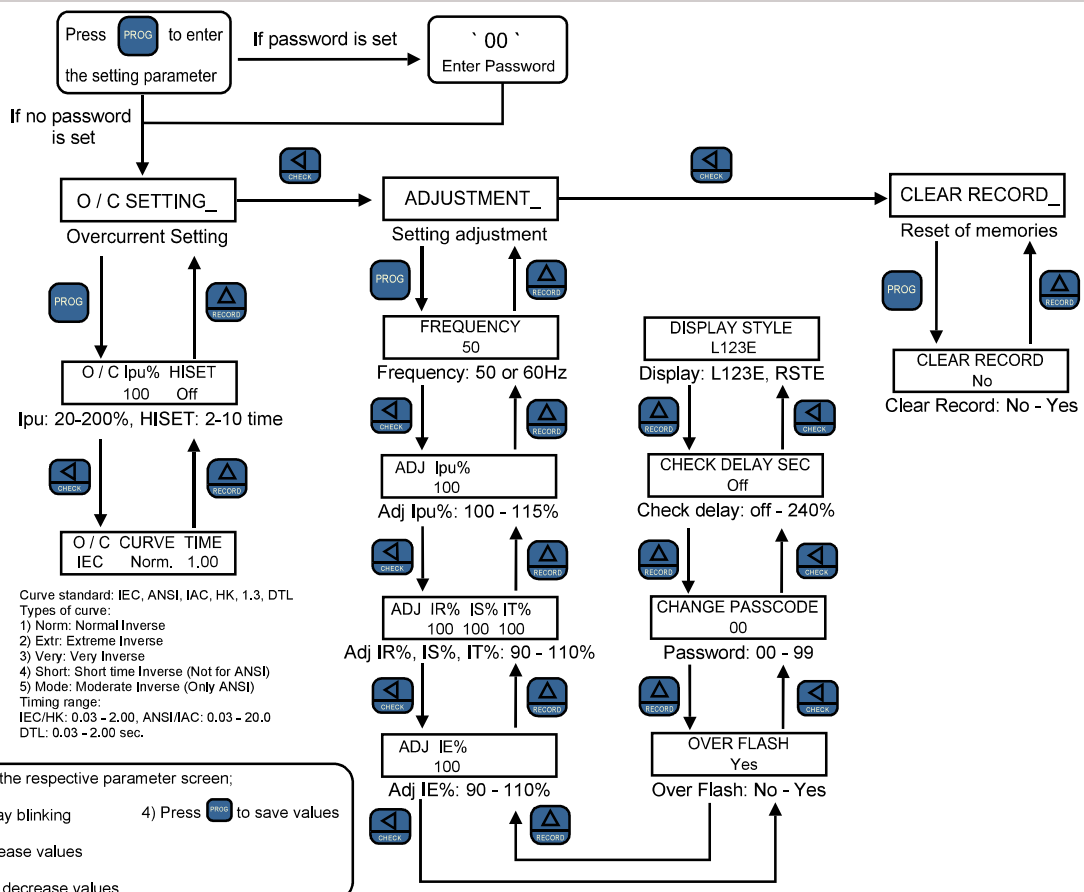
Operation and Installation Guide



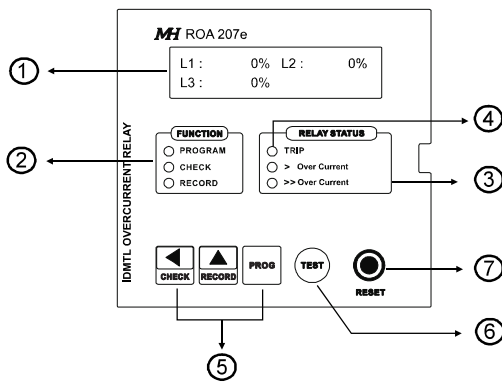
Configuration Overview

IDMTL Overcurrent Relay

ROA 207e



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

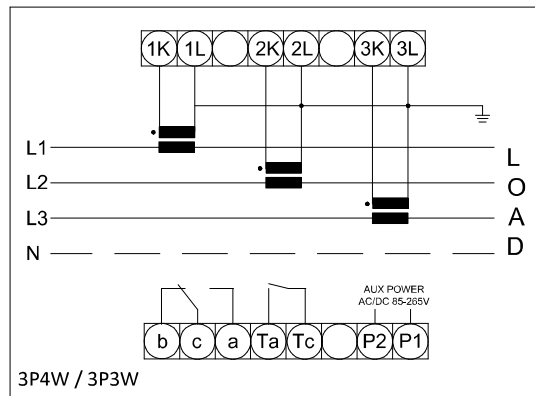
Features

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

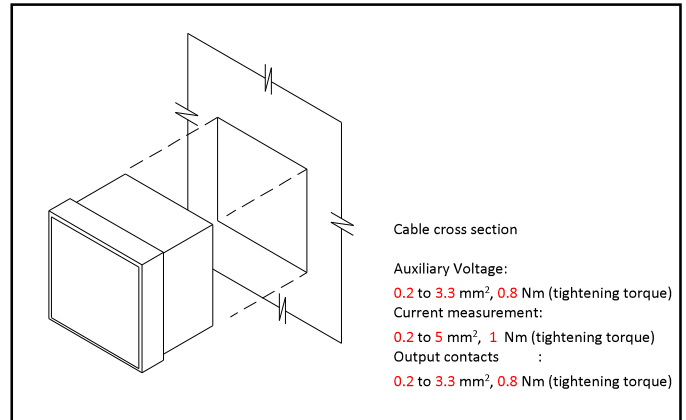
Connection Diagram



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)
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	$20 \times I_{rated}$ for 3 sec (100A O/C, 20A E/F)
Operation life expectancy	Electrical: > 100,000 operations Mechanical: > 5×10^6 operations
Output contact	2 NO and 1 NC, AC 250V, 5A
Indication	Red LED (relay tripped)
Housing material	ABS resin complying with UL94VO
Unit Weight	Approximately 500g
Power consumption	$\leq 4VA$

Installation



Dimension & Cut Out (in mm)

