

REA 200e - V1

IDMTL Combined Overcurrent & Earth Fault Protection Relay



The **REA 200e** is a combined overcurrent & earth fault protection relay for commercial and industrial electrical facilities application.

Key features:

- Simple to use and compact size
- ANSI 51 (Time-delay phase overcurrent)
- ANSI 50 (Instantaneous phase overcurrent)
- ANSI 51N / 51G (Time-delay earth fault)
- ANSI 50N / 50G (Instantaneous earth fault)
- High-set trip function
- Microprocessor controlled IDMTL operation
- High contrast LCD display
- ANSI, IAC, IEC and 1.3/10 trip curves
- Wide range auxiliary supply
- Four trip events record
- Sealable tamper proof front cover

Technical Specification		
Description	Value	
Protection and Functionality Description	ANSI 51 – Time-delay phase overcurrent ANSI 50 – Instantaneous phase overcurrent ANSI 51N / 51G – Time-delay earth fault ANSI 50N / 50G – Instantaneous earth fault	
Curve Standard Selection	ANSI, IAC, IEC, 1.3/10	
Curve Type selection	<ul style="list-style-type: none"> • Normally inverse • Very inverse • Extremely inverse • Short time inverse (only for IEC, IAC) • Moderately inverse (only for ANSI) • Definite time 	
Overcurrent Pickup Current Setting	20-200% (1% Step)	
Earth Fault Pickup Current Setting	2.0-50.0% (0.1% step)	
Time Multiplier Setting	0.02 - 2.00 in step of 0.01 (IEC, 1.3/10) 0.3 - 20.0 in step of 0.1 (ANSI, IAC)	
Definite Time Delay (DTL) Setting	0.03 -2.00 sec in step of 0.01 sec	
Instantaneous Setting (High-Set)	2.0-10.0 times of setting current in step of 0.1	
Measurement Resolution	True RMS	
Auxiliary Supply Voltage	AC/DC 85 - 265V (other voltage available upon request)	
Power Consumption	< 4VA	
Rated Input Current	5A (1A available upon request)	
Overcurrent withstand	10 * I rated (for 3 sec)	
Output Contacts	Relay Output	1 x CO (Changeover) and 1 x NO (Normally Open)
	Contact Rating	Rated 250VAC, 5A
Display Type	High contrast LCD	
Trip Event record	Last 4 trip events record memory	
Relay Status Indicator	Red Color LED	
Operating temperature	-10 to +60°C	
Relative humidity	< 95% RH (non-condensing)	
Access control	User configurable PIN password	
IP Protection	IP54 (front), IP20 (rear)	
Housing material	ABS resin complying with UL94V0	
Unit weight	Approximately 500g	
Unit dimension	96mm (width) x 96mm (height) x 86mm (depth)	

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Connection Diagram and Dimension

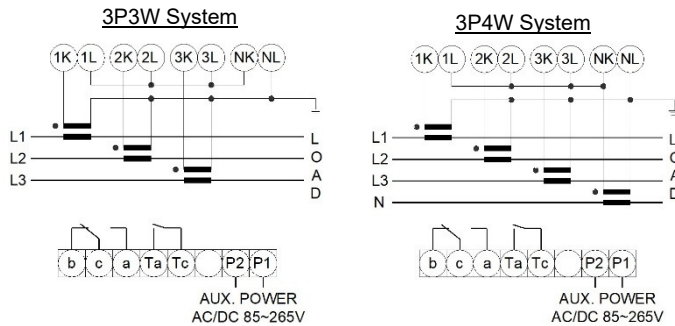


Figure 1 & 2 Connection diagram

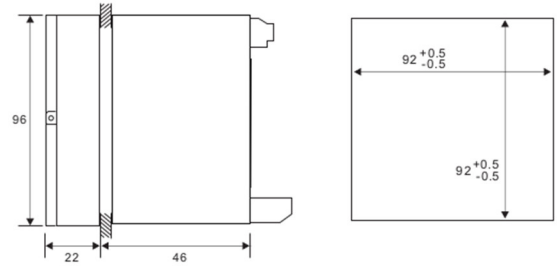
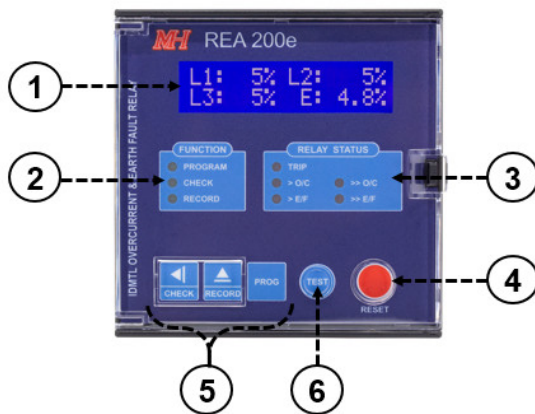


Figure 3 Dimension & Cut out panel opening size

User Interface



User Interface Features

1. High contrast LCD display
2. Function selection indicators
3. Relay status indicators
4. Reset button
5. Navigation buttons
6. Test trip button

Standards Compliance

Electromagnetic compatibility of electrical equipment	Directive 2014/30/EU
Product Safety Requirement	IEC 60255-27
Noise immunity:	
Electrostatic discharge	IEC 61000-4-2 (IEC 60255-26)
Radiated radiofrequency electromagnetic field	IEC 61000-4-3 (IEC 60255-26)
Fast transients	IEC 61000-4-4 (IEC 60255-26)
Surge	IEC 61000-4-5 (IEC 60255-26)
Conducted disturbance induced by radiofrequency fields	IEC 61000-4-6 (IEC 60255-26)
Power frequency magnetic field	IEC 61000-4-8 (IEC 60255-26)
A.C. voltage dips, and interruptions	IEC 61000-4-11 (IEC 60255-26)
Emissions:	
Radiated emission	CISPR 11/22 (IEC 60255-26)
Conducted emission	CISPR 22 (IEC 60255-26)
Environmental test:	
Vibration	IEC 60255-21-1
Shock and Bump	IEC 60255-21-2
Cyclic Temperature with Humidity	IEC 60068-2-30 (IEC 60255-1)
Safety	CE Marking

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