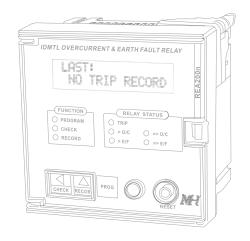
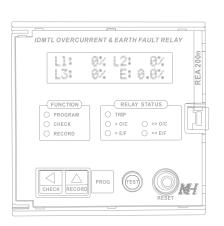


A Protection Class of its Own

Combined IDMTL Overcurrent & Earth Fault Relay . REA200n







Represents a legacy of design and development, specializing in power management and power quality solutions and its core expertise, electrical protection relays. The MH Protection Relays has its heritage dated since 1981 where, designed by Mun Hean and OEM by Kasuga of Japan, developed a range of electronic relays that dominated the market for decades. The range of relays were marketed under the brand name "Kasuga-MH".

Today, with its own R&D wing, Mun Hean Technology Pte Ltd, MH continues this tradition. Anchored on the exclusive MTB fault indication system, we proudly bring to you this state-of-the-art protection relay series that is truly, A Protection Class of its Own.

Features

- Microprocessor-based with highest accuracy
- Mechanical Trip Button (MTB) fault indication system
- No requirement for auxiliary power supply for fault indication
- Safeguard against automatic reset before fault rectification
- Curve selection in accordance with ANSI, IAC, IEC, 1.3/10
 - Normally Inverse (NI)
 - Very Inverse (VI)
 - Extremely Inverse (EI)
 - Short Time Inverse (STI)
 - Moderate Inverse (MI)
- Trip value recording (4-memory) Date & time stamping for tripping
- Integrated surge arrester against transient overvoltages
- High set mode is incorporated for instantaneous protection
- Tamper-proof design for settings protection
- Serial interface RS485 for Modbus RTU communication (optional)
- Type tested* for EMC compliance in acc. with IEC 61000
- High immunity to electrical interference (tested to 2.5GHz)
- Type tested in acc. with IEC 60255*

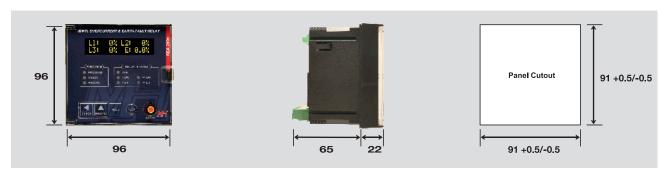
^{*} Type test report issued by independent testing laboratory is available upon request.



Technical Data

Characteristics		
Power supply		AC / DC 85 - 265V (other voltages available on request)
Operating frequency		50/60Hz
Earth Fault setting		2-50% (0.1% per step)
Overcurrent setting		20 - 200% (1% per step)
Time Multiplier		
Overcurrent / Earth Fault IDMTL		0.03 - 2.0 (IEC, 1.3), 0.3 - 20.0 (ANSI, IAC)
Time setting range (DTL)		0.03 - 2.0 sec
Instantaneous Mode (High-set)		2 - 10 * setting current
Pick-up current		100 - 115% of the setting current
Reset current value		≤90% of the operating value
Operating and storage temperature range		Operating -10°C to 55°C Storage and transit -20°C to 65°C
Relative humidity (IEC 60068-2-30)		95% at +40°C
Degree of protection (IEC 60529)		IP52
Voltage withstand (IEC 60255-5)		2kVrms for 1 min between all case terminals connected together and the case earth terminal 2kVrms for 1 min between independent circuit including contact circuits
Overcurrent withstand		20 * I _{rated} for 3 sec (100A-O/C, 20A-E/F)
Power Consumption		Approximately 2VA
Operational life expectancy		Electrical: > 1 x 10 ⁵ operations
Output contact		Mechanical: > 5 x 10 ⁶ operations AC250V 5A
Optional output contact		2 separate contacts - AC240V 5A, DC24V 5A - E/F & O/C indication Communication : RS485
LED status indication		(Normal operation) (Fault current detected)
Safety feature		Mechanical Trip Button (MTB)
Housing material		ABS resin complying with UL94VO
Unit weight		Approximately 600g
Compliance with sta	ndards	
IEC/EN 60755	General rules for residual-current protection devices	
IEC/EN 61000-4-2	Electrostatic-discharge immu	unity test
IEC/EN 61000-4-3	Radiated, radio-frequency, electromagnetic-field immunity test (type tested to 2.5GHz)	
IEC/EN 61000-4-4	Electrical fast transient/burst immunity test	
IEC/EN 61000-4-5	Surge immunity test	
IEC/EN 61000-4-6	Immunity to conducted disturbances, induced by radio-frequency fields	
IEC/EN 60255-1	Measuring relay and protect	ion equipment
IEC/EN 60255-5	Insulation coordination for n	neasuring relays and protection equipment - Requirement and tests
IEC/EN 6472-2 Low voltage switchgear and co		control gear, Part 2: Circuit breakers, Annex M and J

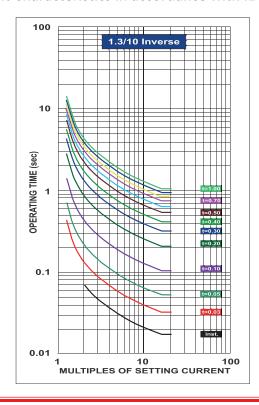
Dimensions

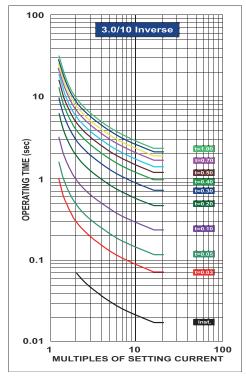




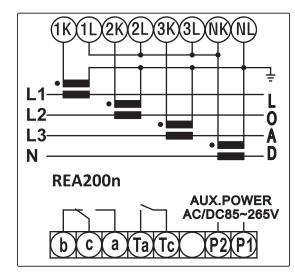
Characteristics Curve

Time Current Characteristics in accordance with IEC 60255





Connection Diagram



About MTB Fault Indication System

MTB, or Mechanical Trip Button is a fault indication system incorporated in advanced protection relaying for electrical power networks. The MTB does not require auxiliary supply to provide a fault indication. The MTB is designed to prevent power circuits from re-energising before a fault is completely rectified. This is an essential safety feature which protection relays using electrical latching mechanisms are not able to provide.

Authorized Dealer:



Plus 201501