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Product Name :

Overcurrent And Earth Fault Relay

Product Code :

SLE/EPS/01



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Description :

Overcurrent And Earth Fault Relay (Product Code: SLE/EPS/01) is a programmable protection-relay module used to teach how overcurrent and earth-fault protection is set, tested and verifiedin power system and electrical engineering laboratories. It is based on the Micom P122 industrial relay and provides three independent three-phase overcurrent and earth-fault stages, the first selectable from 12 IDMT curves. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, within its range of engineering lab equipment in India.

Specifications

Parameter	Detail
Relay basis	Micom P122 industrial relay
Programming	Keypad and display on the relay module; or relay support software on a suitable computer
Three-phase earth and overcurrent	Three independent stages; first stage selectable from any of 12 IDMT curves; remaining stages with a direct time characteristic
Restricted earth fault	High impedance
Thermal protection	Thermal overload
Negative-phase sequence overcurrent	Two independent stages
Other functions	Broken conductor detection; selectable blocking; undercurrent; circuit monitoring
Records	Trend, fault and disturbance records
Test arrangement	Connected to fault circuits set up on a Protection and Relay Test Set; most tests use single relays
Product code	SLE/EPS/01
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Overcurrent and Earth Fault Relay Used For?

Protection relays decide when a circuit breaker must trip, and setting them correctly is a core skill for power engineers. In the lab, the lecturer or students build a fault circuit on the Protection and Relay Test Set, program the relay module for the test using its keypad and display (or from a computer running the relay support software), and then apply the fault. Measuring how quickly the relay operates at different fault currents lets students plot its real characteristic and compare it with the selected IDMT curve.

Because the first stage offers 12 IDMT curves and the remaining stages have a direct time characteristic, one relay can show how the choice of curve changes tripping times and how separate stages are graded against each other. Further exercises cover restricted earth fault, therm the store

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