Email : sales@scilabexport.com
Phone: +91-7082934803

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 an industrial numericalrelay and provides three independent three-phase overcurrent and earth-fault stages, the first selectable from 12 IDMT curves. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, within its range of engineering lab equipment in India.

Specifications

Parameter	Detail
Relay basis	Industrial numerical 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 of12 IDMT curves; remaining stages with a direct timecharacteristic
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 the test rig it is used with; most tests use single relays
Construction	Enclosed, mains-protected bench panel
Inputs/outputs	Isolated test inputs and fused outputs
Features	CT shorting facilities and labelled terminals
Includes	Experiment manual
Test input options	1 A or 5 A variants, specified separately
Product code	SLE/EPS/01
Manufacturer	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 test rig, program the relay module for the test using its keypad and display (or from a computer running the relay supp ent fault urve.

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