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Product Name :

Distance Protection Relay

Product Code :

SLE/EPS/12



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Description :

Distance Protection Relay (Product Code: SLE/EPS/12) is a relay module used to teach full-scheme phase and ground distance protection, with up to five zones, in power system protection laboratories. Based on the Micom industrial relay, it also provides overcurrent, earth fault, negative sequence, thermal overload and broken conductor functions, programmed from its keypad or a computer. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Key Details

Parameter	Detail
Relay	Based on the Micom industrial relay
Distance protection	Full scheme phase and ground distance protection, up to five zones
Overcurrent functions	Directional/non-directional phase overcurrent; directional/non-directional negative sequence overcurrent
Earth fault	Directional/non-directional earth fault
Other protection	Thermal overload protection; broken conductor
Element blocking	Blocking of any one protection element
Records	Creates fault and disturbance records
Programming	Keypad and display on the relay module, or Micom S1 software on a suitable computer
Test setup	Fault circuits set up on the Protection and Relay Test Set; relay module then connected to them
Product code	SLE/EPS/12
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Distance Protection Relay Used For?

A distance relay judges how far away a fault is by comparing voltage and current — in effect measuring the impedance to the fault — and responds according to the zone the fault falls in. This module lets students program up to five zones of full-scheme phase and ground distance protection and see which zone responds to each fault set up on the Protection and Relay Test Set.

The same relay also covers directional and non-directional overcurrent, earth fault and negative sequence overcurrent, thermal overload and broken conductor detection, so one module supports a whole sequence of protection practicals. Its fault and disturbance records let students review each test afterwards, and blocking any one protection element shows how individual functions interact. Settings go in through the keypad or Micom S1 software on a suitable computer.

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