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Product Name :

Differential Protection Relay

Product Code :

SLE/EPS/08



Science Lab

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Description :

Differential Protection Relay (Product Code: SLE/EPS/08) is a desk-mounted relay moduleused to demonstrate the characteristics of three-phase differential protection in power systemprotection laboratories. Built around an industrial numerical relay in a robust enclosure with acarrying handle, it lets lecturers and students program real relay settings and test them againstfault circuits. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala,India, a laboratory instruments supplier in India for engineering colleges.

Specifications

Parameter	Detail
Purpose	Clearly shows the characteristics of three-phase differential protection
Relay	An industrial numerical relay forms the main part of the unit
Enclosure	Robust enclosure with carrying handle
Mounting	On the desk area of the power system test rig it is used with
System connection	Multi-core cable from the back of the relay to the test rig
Test connections	4 mm shrouded sockets to the test circuits
Programming	Keypad and display on the relay module, or relay setting software on a suitable computer
Construction	Enclosed, mains-protected bench panel
Inputs/outputs	Isolated test inputs and fused outputs
Features	CT shorting facilities and labelled terminals
Includes	Experiment manual
Current inputs	Differential-protection current-input scheme
Product code	SLE/EPS/08
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Differential Protection Relay Used For?

Differential protection compares the current entering and leaving a protected zone, such as a transformer or generator winding, and trips when the two no longer balance. This module lets students see that principle on real hardware: fault circuits are set up on the test rig, and the relay's response reveals the three-phase differential characteristic.

A typical session runs in three steps. First, mount the unit on the desk area and connect the multi-core cable from the back of the relay. Next, program the settings with the keypad and display, or from a suitable computer running relay setting software. Finally, link the 4 mm shrouded sockets to the [illegible] ome.

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