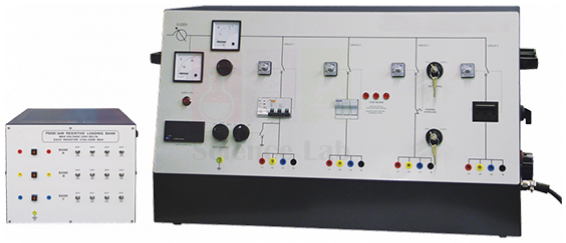
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Product Name :

Circuit Breaker Trainer

Product Code :

SLE/EPS/06



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Description :

Circuit Breaker Trainer (Product Code: SLE/EPS/06) is a protection-device trainer used to test and compare fuses and circuit-breakers under controlled fault currents in electrical engineering, polytechnic and electrician training labs. Its four circuits each carry a different protective device, and an internal variable transformer sets the fault current in each one. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Test circuits	Four, each with a different current protection device
Protection devices	Fuses, magnetic-only circuit-breaker, thermal-only circuit-breaker and thermomagnetic circuit-breaker
Fault current control	Variable transformer inside the unit works with the load to set and control the fault current in each circuit
Circuit one	Additional adjustable residual current detector for experiments with different residual current faults
Circuit two	Tests fuses; ‘fuse break’ detector circuit with lamps showing when each fuse breaks
Circuit three	Remote and local control keyswitches to switch its contact breaker and break the circuit
Switching	Each circuit has a contact breaker switched by an industrial standard discrepancy switch
Earth leakage setting	Digital display and switches to set the earth leakage fault current before the test
Product code	SLE/EPS/06
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Circuit Breaker Trainer Used For?

The trainer answers a question every electrician and power engineer must understand: how quickly does each protective device clear a given fault current? Students set a fault current, apply it and note the breaking time, building up the fault current and breaking time relationship for different fuse types and comparing it with magnetic, thermal and thermomagnetic breakers.

It also covers earth leakage and switching practice. On circuit one, students set the earth leakage fault current on the digital display and try the adjustable residual current detector against different residual current faults. Circuit three’s local and remote keyswitches show how a control room operator or a remote operator switches a circuit on or off in a real installation — which makes this usefu

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