SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

Phone: +91 7015865225 **Email:** info@scienticoindia.com **Web:** scienticoindia.com **Address:** #71, Industrial Area, Ambala Cantt, Haryana, India

Isolating Transformer, Three-Phase, Bench Mounted | SC-ITR 3050

Category: TVET Equipments · **Order Code:** ITR 3050 · **Country of Origin:** India

Product Overview

The Isolating Transformer, Three-Phase, Bench Mounted – SC-ITR 3050 provides galvanic isolation between 3 x 400 V AC mains and low-voltage secondary outputs. It comprises three isolated single-phase transformers with secondary taps at 22 V, 110 V, 220 V and 244 V AC. A star-point terminal allows single- and three-phase use. The unit is rated 1.5 kVA continuous, protected by a 6 A primary MCB and 2.5 A secondary fuses. A printed schematic on the front panel shows the wiring and tap arrangement. It is an IEC 61558 safety isolating transformer for machines, rectifiers, control circuits and trainers.

View this product online: https://scienticoindia.com/product/isolating-transformer-three-phase-bench-mounted-sc-itr-3050/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Isolating Transformer, Three-Phase, Bench Mounted – SC-ITR 3050: Technical Specifications

Category	Specification
Primary	3 x 400 V AC, 50/60 Hz
Secondary Taps	22 V, 110 V, 220 V, 244 V AC on 4 mm safety sockets; one per secondary
Neutral	Star-point terminal group on 4 mm sockets for single- and three-phase use
Power Rating	500 VA per secondary; 1.5 kVA total; continuous S1 duty
Insulation	Safety isolating transformers to IEC 61558
Primary Protection	MCB 6 A C-curve
Secondary Protection	2.5 A fuses per phase; protective earth terminal
Enclosure	IP20; front panel with schematic and tap arrangement; educational trainer frame
Nameplate	IEC 61558 compliant; voltages, VA rating and serial number

Key Features

Key Features

- **Galvanic Isolation:** three isolated single-phase transformers
- **Multiple Taps:** 22 V, 110 V, 220 V, 244 V AC per secondary
- **Flexible Configuration:** star-point terminal for single- and three-phase use

- **Safety Rating:** IEC 61558 safety isolating transformer
- **Primary Protection:** 6 A C-curve MCB
- **Secondary Protection:** 2.5 A fuses per phase
- **Panel Schematic:** wiring diagram and tap arrangement printed on front
- **Continuous Operation:** 1.5 kVA total, S1 duty cycle
- **Educational Design:** trainer frame for classroom and lab use

Experiments

- Three-phase to single-phase power conversion using star-point terminal
- Voltage selection using secondary taps for different load requirements
- Testing galvanic isolation between primary and secondary
- Rectifier circuits at different secondary voltage levels
- Three-phase machine control circuit design
- Power measurement on isolated secondary circuits
- Phase angle and power factor measurement with isolated secondary
- Single-phase loads from three-phase primary using tap selection

Construction and Design

The Isolating Transformer, Three-Phase, Bench Mounted – SC-ITR 3050 consists of three isolated single-phase transformer units. The primary accepts 3 x 400 V AC at 50/60 Hz. Each secondary has four voltage taps on 4 mm safety sockets. A star-point terminal group allows flexible single- and three-phase use. The unit mounts in an IP20 enclosure with an educational trainer frame. The front panel displays a printed schematic and tap arrangement. A 6 A C-curve MCB protects the primary. Secondary fuses of 2.5 A per phase protect the outputs.

Scope of Delivery

- Isolating transformer panel
- English manual and wiring diagram

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q: What is galvanic isolation?
A: Galvanic isolation means there is no direct electrical connection between the primary and secondary windings. This protects users and circuits from high-voltage faults.

Q: Can I use this transformer for single-phase circuits?
A: Yes. The star-point terminal group allows you to use a single secondary tap as a single-phase supply, or combine outputs for three-phase loads.

Q: What secondary voltages are available?
A: Each secondary has four taps: 22 V, 110 V, 220 V and 244 V AC, all on 4 mm safety sockets.

Q: Is the transformer protected against overload?
A: Yes. The primary has a 6 A C-curve MCB. Secondary fuses of 2.5 A per phase protect the outputs.

Q: What is the total power capacity?
A: The transformer has a continuous rating of 1.5 kVA total, with 500 VA per secondary.

SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India
#71, Industrial Area, Ambala Cantt, Haryana, India

+91 7015865225 · info@scienticoindia.com
scienticoindia.com
Product reference: ITR 3050