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Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Squirrel-Cage Induction Motor Trainer | SC-SCM 1100

Category: TVET Equipments · **Order Code:** SCM 1100 · **Country of Origin:** India

Product Overview

The Squirrel-Cage Induction Motor Trainer – SC-SCM 1100 is a three-phase squirrel-cage induction motor rated at 1.1 kW, 400/230 V, 50 Hz, 1,445 rpm. It features plug-in banana connections and a terminal board for star and delta winding configurations. The motor mounts on an aluminium base with glides and includes a coupling hub on a robust base plate, matched to standard machine bench shaft heights. Electronic motor data is provided as a QR code and PDF data sheet. The unit complies with IEC/EN 60034, CE standards, and Jordan electrical safety codes. It is ideal for induction motor training, starting methods, and power factor correction studies.

View this product online: https://scienticoindia.com/product/squirrel-cage-induction-motor-trainer-sc-scm-1100/



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

Technical Specifications

Squirrel-Cage Induction Motor Trainer – SC-SCM 1100: Technical Specifications

Category	Specification
Power Rating	1.1 kW
Voltage	400/230 V, 50 Hz
Current	2.5 / 4.35 A
Speed	1,445 rpm
Power Factor	cos phi 0.75
Shaft	Two ends; with coupling hub on robust base plate
Base	Aluminium with glides
Connections	Overhead connection box with separate 4 mm safety sockets; terminal board L1–L2–L3 and earth
Winding Access	All windings accessible for star and delta connection
Overload Protection	Included
Motor Data	Electronic nameplate (EDD) as QR code and PDF data sheet
Insulation	Class F
Enclosure	IP20
Standards	IEC/EN 60034; CE marked; Jordan national electrical safety codes

Category	Specification
Nameplate	Metal, to IEC/EN 60034
Shaft Compatibility	Matched to DC machine Item 11058 and slip-ring motor

Key Features

Key Features

- **Squirrel-Cage Design:** robust, low-maintenance three-phase induction motor
- **Rated Power:** 1.1 kW at 400/230 V, 50 Hz, 1,445 rpm
- **Star and Delta:** terminal board for winding reconfiguration
- **Plug-In Connections:** 4 mm banana sockets for easy setup
- **Overload Protected:** thermal protection included
- **Shaft Compatibility:** matched height and coupling to standard machines
- **Electronic Nameplate:** QR code and PDF data sheet readable on any device
- **Aluminium Base:** mounted with glides for stability
- **Class F Insulation:** thermal protection up to 155°C
- **Compliance:** IEC/EN 60034, CE, and Jordan electrical safety codes

Experiments

- Starting characteristics of squirrel-cage induction motor
- No-load and full-load operation with torque measurement
- Star and delta connection comparison and switching
- Current inrush during start in star and delta configurations
- Power factor measurement and improvement with capacitor bank
- Speed control using variable frequency supply
- Efficiency measurement at different load points
- Slip measurement and calculation
- Thermal characteristics under continuous operation
- Three-phase to single-phase operation using capacitor method

Construction and Design

The Squirrel-Cage Induction Motor Trainer – SC-SCM 1100 has a squirrel-cage rotor for robust, low-maintenance operation. All stator windings connect to an overhead connection box on separate 4 mm safety sockets. A terminal board marked L1–L2–L3 and earth allows the learner to configure star or delta connections. The motor mounts on an aluminium base with glides. The shaft has two ends with a coupling hub on a robust base plate, matching standard machine bench heights.

Scope of Delivery

- Motor on base plate with coupling hub
- English manuals: operation, maintenance, safety, wiring diagrams for all configurations

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 the power rating of this motor?
A: The Squirrel-Cage Induction Motor Trainer – SC-SCM 1100 is rated at 1.1 kW, 400/230 V, 50 Hz, 1,445 rpm, with a power factor of cos phi 0.75.

Q: Can I switch between star and delta connections?
A: Yes. The terminal board allows you to make both star and delta winding connections. You can observe the differences in starting current and running characteristics.

Q: How is motor data provided?

A: Motor data is provided as an electronic nameplate (EDD) readable as a QR code and PDF data sheet on any PC or smartphone.

Q: Is the shaft compatible with other machines?

A: Yes. The shaft height and coupling are matched to the DC machine Item 11058 and slip-ring motor for use on a standard machine bench.

Q: Is overload protection included?

A: Yes. The Squirrel-Cage Induction Motor Trainer – SC-SCM 1100 includes overload protection and has Class F insulation rated to 155°C.

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