

AC 3 PH SQUIRREL CAGE INDUCTION MOTORS



3PHASE AC SQUIRREL CAGE INDUCTION MOTOR



Sci-tech 3 Phase Squirrel Induction Motors are most commonly used motors in all practical purposes and today they hold 90% of market application usage share compared to all type of motors.

The simplicity in operation with the 3phase voltages & immediate torque make them very common motor.

Sci-tech 3 Phase Squirrel Induction Motors are Industrial/Educational usage models, suitable for demonstrating to students the complete knowledge of the Basics of the motors, Components, Starting methods, Wear & Tear & Maintenance of these motors packaged in small rating.

Students can make connections on their own with the help of the terminations provided for study of features like Starting methods, Speed control, Speed-Torque, Effect of Phase angle, Study of Cogging/Crawling, Effects of Single phasing, Effect of voltage imbalance operation, Blocked rotor test.

Technical Specifications

Power ratings available: 300W / 750W / 1KW / 2 KW / 3KW/ 5KW

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Voltage Input: 440V AC 50 Hz

RPM: 1440 / 2880 RPM,

Single / Double shaft extension, TEFC, IP44, IC01, B3, Class-B, S1, Casting body.

3PHASE AC SQUIRREL CAGE INDUCTION MOTOR – DAHLANDER TYPE

Sci-tech 3 Phase Squirrel Induction Dahlander motor is just an extension with the flexibility that from 1 motor you can get 2 different fixed speeds, basically by changing the coil connections inside the motor.



LIST OF EXPERIMENTS THAT CAN BE CARRIED OUT WITH THE MOTORS

- 1) Starting by DOL Starter
- 2) Starting by Star-Delta Starter
- 3) Starting by reduced voltage starter.
- 4) Speed Control by VVVF method
- 5) Load test & No load test of machine
- 6) Speed-Torque Analysis
- 7) Voltage-Speed Analysis
- 8) Speed reversal
- 9) Efficiency Analysis
- 10) Blocked rotor test

Designed, Developed & Marketed by **Sci-tech UK**

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- 11) Cold Resistance & Hot Resistance
- 12) Motor Operation parameters
- 13) Basic Overhauling Know how.

(We recommend our starters, test panels & tachometers for use in the experiment setups)

Specifications, Model Photos and design subject to changes without any notice