

# SINGLE PHASE MOTOR ANALYZER AND STARTER TRAINER

Model Number : GOTT-SPMA-0001



## DESCRIPTION

The Single Phase Motor Analyzer and Starter Trainer with model number GOTT-SPMA-0001 is a briefcase designed training kit. The main function of this training kit is to test and simulate the fault of the single phase motor in cooling and climate control system.

In order to analyze and monitor the main electrical signals of the motor, a few test points have been implemented. All test points are protected with 4mm safety terminals to avoid any short circuit during testing. The trainer is equipped with voltmeter and ammeter to provide the measurement in an actual system.

## FEATURES

- Fault Current Circuit Breaker is to make sure there are no leakage current between line voltage
- Voltmeter for the measurement of line voltage
- Ammeter for the measurement of motor's current in actual operation
- Emergency Stop to cut-off the mains if any problems occur
- Capacitor with 5µF,5% to start the motor

## BLOCK DIAGRAM

The block diagrams consist of the following functional modules :

- Ammeter Section
- Voltmeter Section
- Motor Control Section
- Overload Relay Section
- Capacitor Section

## FAULT SIMULATOR

The fault simulator is to simulate the real fault which could be happened at any electrical points of the motor.

## GENERAL SPECIFICATION

- Operating Conditions: 0 to 45°C , 85% or Less(R.H.)
- Input Power: AC 240V, 50/60Hz 1-Phase

## PRODUCT MODULES

MAIN UNIT	CODE 159-134	COMPRESSOR	CODE 159-135	SAFETY CONNECTING LEAD	CODE 237-001	EXPERIMENT MANUAL	CODE 159-136
		Input Voltage: 240V 4mm safety socket		4mm connecting leads			

## EXPERIMENT TOPICS:

- Understand the safety purpose of Single Phase Motor system
- Analyze the Single Phase Motor system
- Determine the voltage and current of single phase motor in an actual system
- Operation of Single Phase AC Motor

### Manuals :

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

### General Terms :

- (1) Accessories will be provided where applicable
- (2) Manuals & Training will be provided where applicable
- (3) Designs & Specifications are subject to change without notice
- (4) We reserve the right to discontinue the manufacturing of any product

### Warranty :

2 Years

## ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
SINGLE PHASE MOTOR ANALYZER AND STARTER TRAINER	GOTT-SPMA-0001	159-133

\*Proposed design only, subject to changes without any notice.