

## TRAINING SUITCASE ON THE ASYNCHRONOUS MOTOR STARTING

Discover easily and quickly the different configurations of asynchronous motor starts with this simple and intuitive suitcase. This compact didactic solution allows the acquisition and validation of skills in a simple environment. Ideal to initiate your students in a clear and fast way!

This case is composed of control devices and actuators allowing the study and realization of the main starting diagrams of asynchronous motors:

- Direct start with or without reversal of rotation direction.
- Star/triangle coupling start
- Star/triangle coupling start with reversal of the rotation direction

Component identification and other technical characteristics are screen-printed on the faces.

Wiring on 4mm terminals (safety leads provided).

System protected by differential circuit breaker and emergency stop.

The suitcase must be connected to an asynchronous three-phase motor (not included) to operate and be able to perform all exercises.



### EDUCATIONAL OBJECTIVES

- Understand the different starting modes of an asynchronous motor
- Know the role and identify the different elements of electrical protection

ref. VAL-DEM-1

DELIVERED WIRED  
AND SET

TEACHING RESSOURCES  
STUDENTS / TEACHER

### Possible Practical work

- Study of the direct start operation in star/triangle coupling
- Identification and configuration of different components
- Realization of the electrical diagram in accordance with the starting mode
- Wiring of the various components.
- Engine characteristics reading, U and I measurement

### COMPOSITION OF THE SUITECASE

#### On the lower side

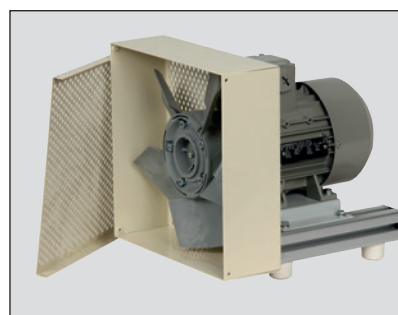
- 3 power contactors 25A coil 24VAC
- 1 auxiliary contactor coil 24VAC
- 1 block of auxiliary contacts timed work 1 to 30s
- 1 thermal relay sized for use with 300W motor
- 1 transformer. single-phase 230V/24V-5A for the command circuit

#### On the upper side

- 1 tetrapolar disconnecter
- 1 tetrapolar circuit breaker
- 2 bipolar fuse holders
- 5 24Vac LEDs
- 5 NO / NC push buttons
- 1 motor circuit breaker



Suitcase with ergonomic handle.  
Dimensions 534 x 374 x 190mm.  
Power supply by 400V 3P+E+N cord



### MOTOR-FAN OPTION

- Three-phase fan motor 400/690V of 300W.
- Rated speed 1500rpm
- Power supply by 4mm double-well safety terminals

ref. KT-1M

Protective grid disassembled for the photo needs