

SYNCHRONIZATION DEVICE FOR WOUND-ROTOR ASYNCHRONOUS THREE-PHASE MOTOR

Mod. DS-1/EV

INTRODUCTION

This rheostat is designed to start a wound-rotor asynchronous three-phase motor mod. M-5/EV progressively: as soon as rotor resistances have been excluded, it connects its rotor windings with a DC power supply unit.

Adjusting the excitation properly will lead to the operation as synchronous motor.



TECHNICAL SPECIFICATIONS:

Mechanical characteristics

The equipment is contained in a metallic box painted with epoxy varnish and provided with rubber feet so that it can be laid on a table.

The silk-screen-printed fore plate of aluminium alloy shows the symbols of the components.

Electric characteristics

This equipment can be applied to wound-rotor asynchronous three-phase motors with power up to 500 W and rated rotor voltage 3 x 380-400 V.

External direct-current power supply, variable 0-220 Vdc or fixed, with typical excitation rheostat for synchronous motors (recommended rheostat: RC1b – 3000 Ω - 500 W).

Toroidal three-phase rheostat with short-circuit contacts at exclusion end and switching on DC external line, rotating control by knob on fore panel. Educational terminals for safety plugs (Ø 4 mm) for connection with the rotor of the motor having to be synchronized and connection with DC excitation line.

Intermediate resistor in the passage from rotor starting end to synchronization phase with injection of DC power supply.

Dimensions: 200 x 200 x 200 mm

Net weight: 3 kg