

Part Number: MITSB_GENSET_SYNCH_SIMULATOR
Generator Sets with basic Synchronising Simulator

This system consists of:

- a. 2 x Prime Mover Panel
- b. 2 x Generator Panel
- c. 1 x Synchronising Panel
- d. 2 x Motor-Generator Set

Synchronising Panel

This board shall be equipped with the following:

- a. 2 x Circuit breaker 16A, TP, c/w under-voltage/shunt trip coil.
- b. 2 x Neutral Knife Switch
- c. 1 x ELR, 2 x Ammeter 0-20A c/w Selector Switch
- d. 2 x Voltmeter 0-500V c/w Selector Switch
- e. 2 x Reverse Power Relay
- f. 2 x Power Meter, 1 x Set of Current Transformer for metering and protection
- g. 1 x set of Control MCB c/w 6A MCB
- h. 4 x Potentiometer
- i. 4 x Synchronising Switch
- j. 2 x Synchronising Lamp
- k. 1 x Synchronoscope
- l. 1 x Double Voltmeter, 1 x Double Frequency Meter
- m. 1 x Heavy Sheet Steel Console

Each set consist of AC Motor driving an AC Generator. Both machines are mounted on a common base frame. The machine specifications are as follows:

- a. AC Induction Motor
 - a. Rating : 10HP, 415VAC, 50Hz
 - b. Speed : 1500 RPM nominal
- b. AC Generator
 - a. Rating : 7.5kVA, 415VAC, 50Hz
 - b. Speed : 1500 RPM
 - c. Output : 415 VAC, 10A, 3P, 50 Hz

Outgoing Section Panel

Operate and control the two AC induction motors and equipped with the followings:

- a. 2 x Variable Speed Controller
- b. 4 x Indicating Lights
- c. 2 x CB 16A TP
- d. 4 x Pushbuttons
- e. 1 x Set og Control fuse
- f. 1 x Shell-meter Console

Power Requirement

- 415 VAC , 3P, 60A, 50Hz

Loading Unit – Resistive, Inductive, Capacitive

