



Three Phase Synchronous Machine Trainer

Category: Electrical Engineering · Model reference: MZM-4014



SPECIFICATIONS

TECHNICAL SPECIFICATION :

1. MZM-4017-1-SYNCHRONOUS MACHINE MOTOR

Three-phase model synchronous machine with salient pole rotor and damper cage for motor and generator operation

- Voltage: 220V/380V
- Current: 0.3A
- Frequency: 50Hz
- Rotor voltage: 24VDC
- Rotor current: 2.6ADC
- Output power: 150W
- Rotate speed: 1500rpm
- Shaft height: 81mm
- Dimension: 240x170x180mm

2. MZM-4017-2-SYNCHRONOUS MACHINE GENERATOR

Three-phase model synchronous machine with salient pole rotor and damper cage for motor and generator operation

- Voltage: 220V/380V
- Current: 1.2A
- Frequency: 50Hz
- Output power: 150W
- Rotate speed: 1420rpm
- Shaft height: 81mm
- Dimension: 280x170x180mm

3. MZM-4017-3-RESISTIVE LOAD

- Steps of 20% DC mode or 220V(50Hz) single phase
- Three-phase star 380V(50Hz) and delta 220V(50Hz)
- Have series resistor and fuse for parallel, star and delta circuits
- Resistance : (242Ω/121Ω/81Ω/61Ω/48Ω)×3
- Power : (200W/400W/600W/800W/1000W)×3

4. MZM-4017-4-INDUCTIVE LOAD

- Suitable for parallel, series and delta circuit
- Inductor : (770mH/385mH/257mH/193mH/154mH)×3
- Power: (200W/400W/600W/800W/1000W)×3

5. MZM-4017-5-CAPACITIVE LOAD

- Three groups capacitors, each consisting of four capacitors, suitable for parallel, series, star and delta circuits.
- Capacitors : (13μF/26μF/39μF/53μF/66μF)×3
- Power : (200W/400W/600W/800W/1000W)×3

6. MZM-4017-6-THREE-PHASE SUPPLY UNIT WITH ELCB

- Have switch the 3 phase supply for line voltage 400V
- Earth leakage circuit breaker 30mA
- Motor protection switch : approximate 6-10A
- Have phase indicator for each phase or other.

7. MZM-4017-7-MANUAL SYNCHRONISATION UNIT

- Have indicator display for voltage, frequency and zero volt, relating field
- Have an optical synchronous scope and synchronization indicator

8. MZM-4017-8-MOTOR PROTECTION SWITCH

- Have overload and instantaneous short circuit trip with approximate 1-1.6A

9. MZM-4017-9-POWER CIRCUIT BREAKER MODULE

- Contact load capacity : 400VAC, 3A
- Main connection : 115/230V, 50Hz

10. MZM-4017-10-GALVANOMETER

- Class : 1.5
- Measurement range : 0 - 2.5A or other

11. MZM-4017-11-POWER FACTOR METER (DIGITAL DISPLAY)

- Power Factor : 0 - 1 - 0
- Phase angle : -90° (capacitance) - 0 - +90° (inductance)
- Voltage package : 1000V
- Current range : 30A
- Frequency range : from 20Hz until 2kHz

12. MZM-4017-12-MACHINE TEST SYSTEM

12-1-DYNAMIC TORQUE SENSOR

- Working voltage: ±15VDC
- Max. torque: ±5Nm
- Max. rotate speed: 8000rpm
- Shaft height: 63mm
- Dimensions: 215 x 130 x 145 mm

12-2-3 IN 1 TORQUE METER

- Torque measuring range: 0~±5.000 N.M.
- Rotate speed measuring range: 0~5000 rpm
- Power measuring range: 0~2600W
- Output voltage: ±15VDC
- Dimensions: 170×135×70 mm

13. MZM-4017-13-DC MACHINE SUPPLY

- Output : 40 - 250V/0-6A DC voltage and current adjustable short circuit-proof, with power adjustment
- Output : 220V/2A direct current (full-wave rectifier)
- Protection : circuit breaker 2A
- Outputs : 4 x 4mm safety sockets
- Display : Digital display for current and voltage
- External constant-voltage power supply : (0-10VDC) via 2 x 4mm safety sockets

SAFETY BRIDGING PLUGS, BLACK, YELLOW AND GREEN - 10 units

- Plugs : safety plugs, 4mm diameter
- Pin spacing : 19mm
- Current : 25A

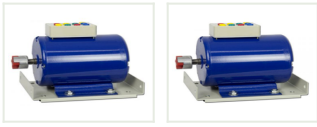
SAFETY CONNECTION LEADS, 32A

- Plugs and sockets : 4mm dia (nickel plated)
- Conductor cross-section : 2.5mm
- Safety connecting lead, 10cm black - 4 unit
- Safety connecting lead, 25cm red - 2 unit
- Safety connecting lead, 25cm blue - 2 unit
- Safety connecting lead, 25cm black - 6 unit
- Safety connecting lead, 50cm red - 2 unit
- Safety connecting lead, 50cm blue - 2 unit
- Safety connecting lead, 50cm black - 6 unit
- Safety connecting lead, 100cm red - 2 unit
- Safety connecting lead, 100cm blue - 2 unit
- Safety connecting lead, 100cm black - 4 unit

SAFETY CONNECTING LEADS, 32A YELLOW AND GREEN

- Plugs and sockets : 4mm dia (nickel plated)
- Conductor cross-section : 2.5mm
- Safety connecting lead, 25cm yellow/green - 2 unit
- Safety connecting lead, 50cm yellow/green - 4 unit
- Safety connecting lead, 100cm yellow/green - 4 unit

Send Enquiry **Your Name****Your Email****Tele Phone**



MZFIRSTMOTION SDN BHD · Reg No. 1137962-V · No 53, Lorong 1/SS3, Bandar Tasek Mutiara, 14120 Simpang Ampat, Pulau PinangT: +604-505 7422 · E: sales@mzfirstmotion.com · <https://www.mzfirstmotion.com>