
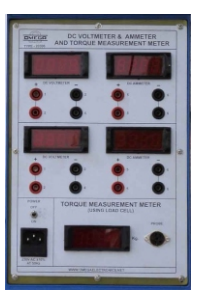


Technical Specification of Panels




**INPUT 3 PHASE DOL STARTER PANEL
TYPE-20 301**

- 1 MCB 4 pole 4Amp.
- 2 DOL 9A Contactor with 415V / 50 Hz / 11VA COIL .
- 3 RYB Indicator
- 4 Emergency Switch
- 5 Shrouded socket 8Nos.
- 6 Push button switch for Stop/Start




**DC VOLTMETER & AMMETER WITH TORQUE MEASUREMENT METER
TYPE-20 306**

- 1 TWO DPM DC voltmeter (0-1000V)
- 2 TWO DPM DC Ammeter (0-20A)
- 3 Torque Measurement Meter
- 4 Shrouded socket 16Nos.



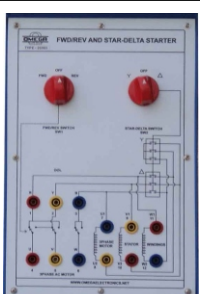
**MULTIFUNCTION METER (Single Phase/ Three Phase AC 50Hz)
TYPE-20 302**

- 1 Bidirectional Multifunction Meter
- 2 3 Phase 4 wire, 440V, Current 5A
- 3 LED display,
- 4 Aux supply 230V, 45-65Hz, 5W
- 5 To measure parameters ie Voltage Current., KVA,Frequency, Power factor, Active Power (W),Reactive Power (vary) etc.
- 6 Shrouded socket 08Nos. etc.




**VARIABLE DC POWER SUPPLY
TYPE-20 307**

- 1 Half bridge SCR based 0V-200V / 3 Amp cosine firing with linear characteristics, 3 Nos. Switch SPDT to On/Off with indication
- 2 Three Nos. of these supplies required for DC Armature, DC motor field and AC generator field.
- 3 Shrouded socket 8Nos.



**FWD/REV AND STAR-DELTA STARTER PANEL
TYPE-20 303**

- 1 FWD/REV, 3 pole 3 way Switch with centre OFF, 10A/ 440V.
- 2 Star/Delta switch 3 pole, 3 way with centre OFF, 10A/ 440V.
- 3 Shrouded socket 12Nos.



**INPUT SINGLE PHASE DOL STARTER PANEL AC DC FIX / VARIABLE SUPPLY
TYPE-20 308**


- 1 MCB 2 pole 10A with indicator
- 2 Emergency Switch
- 3 Push button switch for Stop/Start
- 4 DOL 9A Contractor with 230V / 50 Hz / 11VA Coil .
- 5 Shrouded socket 4Nos.

Variable AC Supply (0-200V)

- 1 Shrouded socket 6Nos.


Fix/Variable DC Supply (0-200V)

- 1 Shrouded socket 4Nos.




**ROTOR RESISTOR CUM 3PHASE SYNCHRONOUS MOTOR CONTROL
TYPE-20 304**

- 1 Rotor resistors of 30E/5A with 3 taps of 15E, 21E, 30E each - 3 Nos.
- 2 Rotor resistor selector switch, 3 pole. 6 Way 10A/440V.
- 3 DC Rotor excitation with circuit breaker (3Amp)
- 4 Shrouded socket 7Nos.




**AC LOAD RESISTOR
TYPE-20 309**

- 1 AC Resistors 10K/5K/3.5K/2.5K/2K/1.5K/OFF 200W x 3 phases/ 6 taps
- 2 Load Resistance switch 3 POL 7 Way/10Amp.
- 3 Cooling Fan size 4" 230V Operated
- 4 Shrouded socket 12Nos.



**1 PH. MOTOR, ALTERNATOR & SYNC. MOTOR
TYPE-20 305**

- 1 1 ph. MCBs of 4A/1.6A 1 each.
- 2 2 no. 2P2W selector switches to run as 1ph. Alternator then as synchronous motor.
- 3 2A push button switch to simulate as centrifugal switch.
- 4 1 Lamp load holder with lamp
- 5 Shrouded socket 14Nos.



**DC LOAD RESISTOR
TYPE-20 310**

- 1 750E/600E/300E/212E/162E/125E/112E/100E/400W /8 taps + OFF + separate 60E tap For DC series Gen.
- 2 Load Resistance switch 3 POL 7 Way/10Amp.
- 3 Cooling Fan size 4" 230V Operated
- 4 Shrouded socket 6Nos.

Continues-1/2

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

Technical Specification of Panels

**AC LOAD INDUCTOR
TYPE-20 311**

- 1 Inductive load =0.15H/0.3H/0.45H/0.6H/0.75H/1.5H/3H/400mA X 3Nos.
- 2 Load inductor switch 3 Pole 7 Way/10Amp.
- 3 Shrouded socket 12Nos.

**AC VOLTMETER & AC AMMETER
AND REVERSING SWITCH
TYPE-20 316**

- 1 Two Digital AC Voltmeter 3½ Digit having Dual range of 0-200V / 600V
- 2 Two Digital AC Ammeter 3½ Digit having Dual range of 0-2A / 20A
- 3 Four DPDT Switches for Dual DPM
- 4 Reversing Switch
- 5 Power socket for AC I/P
- 6 Power on off Switch
- 7 Shrouded socket 20Nos

**CAPACITIVE (C) LOAD
TYPE-20 312**

- 1 Capacitive load =1.25μF /2.5mF/5mF/440VX 3Nos
- 2 Shrouded socket 18Nos.

**DIGITAL WATTMETER
TYPE-20 317**

- 1 Two Digital Wattmeter having range of 0-250V, 0-5Amp. = 1250W Aux. supply 230V.
- 2 Power socket for AC I/P
- 3 Power on off Switch
- 4 Shrouded socket 12Nos

**LAMP LOAD
TYPE-20 313**

- 1 3 Nos. Lamp 100W with Holder & switch
- 2 Shrouded socket 12Nos.

**PHASE SEQUENCE & VIF / PF
METER
TYPE-20 318**

- 1 Phase Sequence meter Operating Voltage 110v ± 20%
- 2 Digital Power factor meter (VIF / PF) 230V 5Amp.
- 3 Power socket for AC I/P
- 3 Power on off Switch
- 4 Shrouded socket 9 Nos

**SYNCHROSCOPE /3 PH. ALTERNATORS
SYNCHRONIZING
TYPE-20 314**

- 01 Synchroscope:- Rotating light meter with 28 LED on a circular scale and a zero voltage differential indication with 2 LED
- 02 3 Phase Alternator Synchronizing
- 03 Synchronization indication for qualitative indication of the phase relationship between mains and voltage of the generator

**ALUMINUM FRAME - MODULAR
PANELS TYPE-20 300.**

Electrical motor trainer rack made up aluminium profile size 40×40mm, foldable and light in weight 10 panel setup can be interchange conveniently to perform experiments. Dimension Length 1100×Height 1000×Depth 350mm.

**EXTENSION BOARD
TYPE-20 315.**

- 1 Operating Voltage 230VAC ± 10% at 50Hz
- 2 ON OFF Switch with indicator
- 3 Eight Nos. five pin 5 Amp Electrical Sockets



Continues-2/2

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