

Technical Specification of Motors



DC INTEGRATED (TRUNION MOUNTED) MOTOR - TYPE-20 501

Voltage : $V_{arm} = 180V$ $V_{field} = 180V$

Capacity - 300W/2 Pole m/c, **RPM - 1500, Shrouded Socket - 12**

Rotor Construction: Standard commutator / brush arrangement with laminated stack, brought out on 2 terminals

Stator construction : Separately excited field winding with laminated solid yoke 2 pole and series winding brought out on 4 terminals.

Toeque characteristic: Provision of load cells 6 Kg. 2 No. assembly to measure the torque .



3 PHASE AC INTEGRATED MOTOR - TYPE-20 502

Voltage : 415VAC, 50Hz

Capacity - 300W/4 Pole m/c, **RPM - 1500, Shrouded Socket - 18**

Rotor Construction : Star connected, four terminals including star point brought out on 4 slip rings mounted on shaft.

Stator construction : Six terminals to be brought out to start the motor using STAR-DELTA starter.



3 PHASE SALIENT POLE ALTERNATOR - TYPE-20 503

Voltage : 415VAC, 50Hz

Capacity - 300W/4 Pole m/c, **RPM - 1500, Shrouded Socket - 12**

Rotor Construction : Star connected, four terminals including star point brought out on 4 slip rings mounted on shaft.

Stator construction : Separately excited field winding with laminated solid yoke, 4 pole brought out on 2 terminals



1 PHASE. SYNCHRONOUS MOTOR - TYPE-20 504

Voltage : 230 VAC, 50Hz

Capacity - 300W/4 Pole m/c, **RPM - 1500, Shrouded Socket - 8**

Rotor Construction : Single phase wound rotor with terminals brought out on two slip rings mounted on shaft.

Stator construction : One winding will be used to configure synchronous motor & Alternator output when used as single phase generators.



1 PHASE AC INTEGRATED MOTOR - TYPE-20 505

Voltage : 230 VAC, 50Hz

Capacity - 300W/4 Pole m/c, **RPM - 1500 Shrouded Socket - 18**

Rotor Construction : Diecast Squirrel cage motor

Stator construction : Two windings brought out on 4 terminals for main and auxilliary. These will be used to configure different motors Split phase, CSCR, CSIR.

Continues-1/2

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UNIVERSAL MOTOR - TYPE-20 506

Voltage : 230 VAC, 50Hz / 150VDC

Capacity - 300W/4 Pole m/c, **RPM - 1500, Shrouded Socket - 8**

Rotor Construction : Standard commutator brush arrangement brought out on 4 terminals

Stator construction : Stator brought out on 4 terminals to facilitate AC/DC operation and direction change. Built in compensating winding to minimize AR and sparking.



REPULSION MOTOR - TYPE-20 507

Voltage : 230 VAC, 50Hz

Capacity - 300W/4 Pole m/c, **RPM - 1500, Shrouded Socket - 4**

Rotor Construction : Standard commutator brush but short circuited.

Stator construction : Stator brought out on 4 terminals. Settable handle to rotate brush position w.r.t. Neutral axis.



3 PHASE SQUIRREL CAGE INDUCTION MOTOR - TYPE-20 508

Voltage : 415 VAC, 50Hz

Capacity - 300W/4 Pole m/c, **RPM - 1500, Shrouded Socket - 12**

Rotor Construction : Diecast Squirrel cage motor

Stator construction : 6x2 terminals brought out to run machine at two speeds using pole changing method (Dahellander Winding)



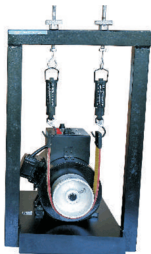
DC INTEGRATED (FOOT MOUNTED) MACHINE - TYPE-20 509

Voltage : $V_{arm} = 180V$ $V_{field} = 180V$

Capacity - 300W/4 Pole m/c, **RPM - 1500, Shrouded Socket - 12**

Rotor Construction: Standard commutator / brush arrangement with laminated stack, brought out on 2 terminals

Stator construction : Separately excited field winding with laminated solid yoke 2 pole and series winding brought out on 2 terminals.



- 1 PHASE AC INTEGRATED MOTOR (20505) with loading arrangement.....TYPE-20510
- 3 PHASE AC INTEGRATED MOTOR (20502) with loading arrangement.....TYPE-20511
- 3 PHASE SQUIRREL CAGE INDUCTION MOTOR (20508) with loading arrangement...TYPE-20512
- REPULSION MOTOR)20507(with loading arrangement.....TYPE-20513
- UNIVERSAL MOTOR (20506) with loading arrangement.....TYPE-20514

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