

SPECIFICATIONS FOR RAPID TRANSIT CARS

SECTION 10

TRACTION MOTORS AND CONTROL

10.01 Traction Motors

(a) Four traction motors per car of 100 HP nominal capacity, designed for series-parallel operation shall be provided. Traction motors shall be General Electric Type 1247 or approved equal.

10.02 Traction Motor Control

(a) Control equipment for traction motors shall provide for multiple unit control of trains made up of from one to ten cars, at acceleration rates selected by the motorman.

(b) Control equipment shall be of the electrically operated cam type, General Electric Type MCM or approved equal.

(c) Master controller shall be equipped with dead-man feature, without foot pedal.

(d) Provision shall be made to cut out each pair of motors independently.

The control equipment shall provide for blending of dynamic and air brakes.

10.03 Control Accessories

(a) The control of each car shall be interlocked with the motor-generator set or blower motor so that neither power nor dynamic braking current can continue to be applied to the motors in case of failure of the blower system of that car.

(b) Automatic provisions shall be made on each car to prevent undesired braking currents.

(c) An ammeter shunt shall be permanently installed in each

motor circuit in a convenient location to provide easily accessible means of connecting test equipment.