

SECTION 26 25 00

ENCLOSED BUS ASSEMBLIES

PART 1 GENERAL

1.01 SUBMITTALS

- A. Quality Assurance Data:
 - 1. Certified production test reports or mill test reports.
 - 2. Test reports for previous design, and documentation showing previous design ratings and configurations.
- B. Project Record Documents:
 - 1. Shop Drawings:
 - a) Certified elevation and outline drawings with dimensions.
 - b) Certified plan view drawings with dimensions, type of busway (feeder or plug-in), and ratings.
 - c) Wiring and termination drawings.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Busways and Plug-In Units:
 - 1. General Electric.
 - 2. Eaton.
 - 3. Square D.
 - 4. Siemens.

2.02 EQUIPMENT

- A. Indoor Busways:
 - 1. Plug-in busways: Single or three-phase with number of low-impedance silver-plated copper busses as required, rated for 120/208V or 277/480V and 60 Hz. Provide with non-ventilated housing with plug-in opening 24" on center, each side. Provide with hinged doors to protect unused openings. Busways shall have full-sized neutral and integrated ground bus. Joints to be single-bolt type with silver-plated contact surfaces.
 - 2. Feeder busways: Single or three-phase with number of low-impedance silver-plated copper busses as required, rated for 120/208V or 277/480V and 60 Hz. Provide with non-ventilated housing, full-sized neutral, and integrated ground bus. Joints to be single-bolt type with silver-plated contact surfaces.
- B. Plug-In Units for Plug-In Busways:
 - 1. All units to have hinged door and operating handle for hook stick operation.
 - 2. Molded case thermal-magnetic circuit breakers with integral thermal and instantaneous magnetic trip in each pole.
 - 3. Fusible Switch Assemblies: Quick-make, quick-break, load interrupter enclosed knife switch with externally-operable handle, lockable in "off" position, heavy duty rated. Fuse clips for Class R fuses.
 - 4. The plug-in units shall be equipped with internal barriers to prevent accidental contact of fish tape and conductors with live parts on the line side of the protective device during time of wire pulling.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Bus joints shall be tightened using a calibrated torque wrench.

- B. Support bus duct horizontal runs with threaded rod suspension hangers at intervals not to exceed 10' on center. Provide horizontal sway bracing when busway contains operable plug-in units. Outdoor feeder busway shall be approved for hanger spacing of up to 5 ft for horizontally or vertically mounted runs.
- C. Support vertical runs of bus duct at each floor.
- D. Integral fire stops are required where busway penetrates fire rated walls or floors.
- E. Provide expansion fittings where bus duct crosses building expansion joint and busway is solidly attached to structure.
- F. Provide adequate space near spare spaces for future bus switch installations.
- G. Plug-in busways shall be assembled to ensure plug-in access is available and clearances for plug-in switches, including required working clearances, are maintained. Where space allows, orient bus to allow for plug-in switches on either side of assembly.

END OF SECTION 26 25 00