



.1 General Information

- .1 This section applies to service entrance rated service equipment and buildings not equipped with a unit substations.

.2 Service Entrance Board

- .1 Service entrance board shall have cubicles, free standing, dead front, size as required. Frame and structure of enclosure and all components to be secured to earthquake standards.
- .2 These boards shall have a barrier metering section from adjoining sections and be compliant with B.C. Hydro metering standards.
- .3 Bus bars and main connections shall be copper.

.3 Moulded Case Circuit Breakers

- .1 Fully rated for available fault.
- .2 Common-trip breakers with single handle and trip mechanism for multipole applications.
- .3 Magnetic instantaneous trip elements in circuit breakers, 400A and above, to operate only when the value of current reaches setting. Trip settings on breakers with adjustable trips to range from 3-10 times current rating.

.4 Moulded Case Circuit Breakers - Current Limiting

- .1 Fully rated for available fault.
- .2 Common-trip breakers with single handle and trip mechanism for multipole applications.
- .3 Breakers up to 225 Amp to limit fault (RMS Symmetrical Amps) to 10,000A at 51,600 Amp input.

.5 Fusible Disconnects

- .1 Disconnect switches shall be heavy duty, lockable position, complete with HRC fuses, quick make/quick break mechanism, adapted for HRC fuses.

.6 Fuses

- .1 All fuses shall be designed for special fault limiting.
- .2 Fuse sizes 30A - 350 Amp shall be bus low peak LPN-RK1 (or equivalent fuse providing equal or better fault limiting characteristics).
- .3 Fuse sizes 400 - 600 Amp shall be bus T-tron type JJN (or equivalent fuse providing equal or better fault limiting characteristics).

.7 Grounding

- .1 Copper ground bus extending full width of cubicles and located at bottom.
- .2 Copper lugs at each end for size #4/0 grounding cable, connect to main ground bus.

.8 Equipment Identification

- .1 Provide equipment identification nameplates with:
 - .1 White plate, black letters, size 30mm lettering.
 - .2 Complete board labelled: "120/208 600V".
 - .3 Branch disconnects labelled: "Feeder Panel ____"

.9 Manufacturers

- .1 Manufacturer: Square D, Cutler-Hammer, Seimens.