

Part 1 General

1.1 ELATED SECTIONS

- .1 Section 26 05 00 - Common Work Results - Electrical.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA International).
 - .1 CSA C22.2 No.29-M1989 (R2000), Panelboards and Enclosed Panelboards.
- .2 Department of Justice Canada (Jus).
 - .1 Canadian Environmental Protection Act (CEPA), 1999, c. 33.
- .3 Health Canada/Workplace Hazardous Materials Information System (WHMIS).
 - .1 Material Safety Data Sheets (MSDS).
- .4 Transport Canada (TC).
 - .1 Transportation of Dangerous Goods Act (TDGA), 1992, c. 34.

1.3 SUBMITTALS

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit shop drawings and include electrical detail and dimensions of panel, branch switch type, ampacity and quantity.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse and recycling.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper plastic polystyrene corrugated cardboard packaging material in appropriate on-site bins.

Part 2 Products

2.1 PLANT ASSEMBLY

- .1 Assemble panelboard interior before shipment. Install circuit breakers in panelboard before shipment.
- .2 In addition to CSA requirements, manufacturer's nameplates must show fault current that panelboard has been built to withstand.

2.2 CONSTRUCTION FEATURES

- .1 250 V panelboard: bus and breakers rated for 10,000 A (symmetrical) interrupting capacity or as indicated
- .2 Panelboards: product of one manufacturer.
- .3 Panel enclosure to be suitable for installation environment, NEMA 3R weatherproof minimum.
- .4 Sequence phase bussing with odd numbered sections on left and even on right, with each breaker identified by permanent number identification as to circuit number and phase.
- .5 Panelboards with mains, number of circuits, and number and size of branch circuit as indicated.
- .6 Two keys for each panelboard and key panelboards alike.
- .7 Copper bus with neutral of same ampere rating as mains.
- .8 Mains: Suitable for bolt-on breakers.
- .9 Trim with concealed front bolts and hinges.
- .10 Fusible pull-outs or door-operated type switches not acceptable.
- .11 Trim and door finish: baked grey enamel.

2.3 BREAKERS

- .1 Breakers to Section 26281602 – Moulded Case Circuit Breakers.
- .2 Breakers with thermal and magnetic tripping in panelboards except as indicated otherwise.
- .3 Main Breaker: separately mounted on top or bottom of panel to suit cable entry. When mounted vertically, down position should open breaker.

2.4 EQUIPMENT IDENTIFICATION

- .1 Provide equipment identification in accordance with Section 26 05 00 - Common Work Results - Electrical.
- .2 Nameplate for each circuit in distribution panels size 2 engraved "name of load" as indicated.
- .3 Complete circuit directory with typewritten legend showing location and load of each circuit. Install circuit directory under plastic protective cover on front of panel.

Part 3 Execution

3.1 INSTALLATION GENERAL

- .1 Locate panelboards as indicated and mount securely, plumb, and square, to adjoining surfaces.
- .2 Mount panels to height specified in Section 26 05 00 - Common Work Results – Electrical or as indicated.
- .3 Connect loads to circuits.
- .4 Connect neutral conductors to common neutral bus with respective neutral identified.