

1 General

1.1 SECTION INCLUDES

- .1 Materials and installation for standard breaker type panelboards.

1.2 RELATED SECTIONS

- .1 Section 26 05 00 – Common Work Results - Electrical.
- .2 Section 26 28 16.02 - Moulded Case Circuit Breakers.

1.3 REFERENCES

- .1 Canadian Standards Association (CSA)
 - .1 CSA C22.2 No.29, Panelboards and enclosed Panelboards.

1.4 SUBMITTALS

- .1 Submit shop drawings and product data in accordance with Division 01 - General Requirements.
- .2 Drawings to include electrical detail of panel, branch breaker type, quantity, ampacity, interrupting capacity, incoming feeder location, and enclosure dimensions.

2 Products

2.1 PANELBOARDS

- .1 Panelboards: to CSA C22.2 No.29 and product of one manufacturer.
 - .1 Install circuit breakers in panelboards before shipment.
 - .2 In addition to CSA requirements manufacturer's nameplate must show fault current that panel including breakers has been built to withstand.
- .2 250 V panelboards: bus and breakers rated for 10,000 A (symmetrical) minimum interrupting capacity respectively or as indicated on electrical drawings.
 - .1 Where new circuit breakers are installed in existing panelboards, the minimum interrupting capacity of the new circuit breakers is to match the minimum interrupting capacity of the existing panelboard and associated circuit breakers.
- .3 Sequence phase bussing with odd numbered breakers on left and even on right, with each breaker identified by permanent number identification as to circuit number and phase.
- .4 Panelboards: mains, number of circuits, and number and size of branch circuit breakers as indicated.
- .5 Two keys for each panelboard and key panelboards alike.
- .6 Tin plated aluminum bus with neutral of same ampere rating as mains. Panelboards are to be supplied fully bussed.
- .7 Mains: suitable for bolt-on breakers.
- .8 Trim and door finish: baked grey enamel with concealed front bolts and hinges.
- .9 Minimum tub width of 500 mm.

2.2 BREAKERS

- .1 Breakers with thermal and magnetic tripping in panelboards except as indicated otherwise.
 - .2 Main breaker: separately mounted on top or bottom of panel to suit cable entry. When mounted vertically, down position should open breaker.
 - .3 Lock-on devices for 10% of 15 to 30 A breakers installed as indicated. Turn over unused lock-on devices to Departmental Representative.
 - .4 Lock-on devices are to be installed and branch circuit breakers are to be painted red for fire alarm, clock outlet, emergency and exit light circuits.
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2.3 EQUIPMENT IDENTIFICATION

- .1 Provide equipment identification in accordance with Section 26 05 00 – Common Work Results - Electrical.
- .2 Nameplate for each panelboard size 4 engraved as indicated.
- .3 Nameplate for each circuit in distribution panelboards size 2 engraved as indicated.
- .4 Complete circuit directory with typewritten legend showing location and load of each circuit.

3 Execution

3.1 INSTALLATION

- .1 Locate panelboards as indicated and mount securely, plumb, true and square, to adjoining surfaces.
- .2 Mount panelboards 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.
- .5 Balance phase loading and complete testing in accordance with Section 26 05 00 - Common Work Results - Electrical.

END OF SECTION
