

PART 1 - GENERAL

1.1 RELATED WORK

- .1 Section 26 05 00: Electrical General Requirements.
- .2 Section 26 28 21: Moulded Case Circuit Breakers.

1.2 SHOP DRAWINGS AND PRODUCT DATA

- .1 Submit shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Drawings to include electrical detail of panel, branch breaker type, quantity, ampacity and enclosure dimension.

1.3 OPERATIONS AND MAINTENANCE DATA

- .1 Provide maintenance data for panelboards for incorporation into manual as specified in Section 01 78 00 - Closeout Procedures

PART 2 - PRODUCTS

2.1 PANELBOARDS

- .1 Panelboard:
 - .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 600V panelboards: bus and breakers rated for the interrupting capacity (RMS symmetrical) as indicated on the drawings, minimum rating to be 32kA.
- .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 Panelboard: mains, number of circuits, and number and size of branch circuit breakers as indicated on the drawings.
- .5 Tin-plated, copper busbars with neutral of same ampere rating as mains.
- .6 Mains: suitable for bolt-on breakers.

- .7 Trim with concealed front bolts and hinges.
- .8 Trim and door finish: baked grey enamel.
- .9 Provide panelboard complete with drip hood.
- .10 Free standing enclosure to be anchored to concrete floor.

2.2 BREAKERS

- .1 Breakers: as specified in Section 26 28 21.
- .2 Bolt-on breakers with solid state trip units in panelboards as indicated.
- .3 All breakers to be equipped with lock out means.
- .4 Each new panel is to be equipped with breakers shown on the drawings. Where panels have space for additional breakers the contractor is to fill the empty spaces with spare breakers of various size.

2.3 EQUIPMENT IDENTIFICATION

- .1 Provide equipment identification in accordance with Section 26 05 00.
- .2 Nameplate for each panelboard size 9 engraved.
- .3 Nameplate for each circuit in 600V distribution panelboards size 4 engraved.
- .4 Complete circuit directory with typewritten legend showing location and load of each circuit.

2.4 ACCEPTABLE MANUFACTURERS

- .1 Cutler-Hammer, Square D, Siemens.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Locate panelboard as indicated and mount securely, plumb, true and square, to adjoining surfaces.
- .2 Install surface mounted panelboards unistrut channel.
- .3 Connect panelboard to source transformer or circuit breaker as indicated.
- .4 Connect loads to circuits.
- .5 Connect neutral conductors to common neutral bus with respective neutral identified.

END OF SECTION