

SECTION 26 27 16 - ELECTRICAL CABINETS AND ENCLOSURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes hinged cover enclosures, cabinets, terminal blocks, and accessories.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's standard data for enclosures, cabinets, and terminal blocks.

1.3 EXTRA MATERIALS

- A. Furnish two of each key.

PART 2 - PRODUCTS

- 2.1 Due to the corrosive exterior environment at the airport, all electrical cabinets and enclosure are to be located indoors, as much as possible. In the event that an exterior installation is the only option, these items are to be a NEMA Type 4, 3R Stainless Steel gasketed.

2.2 HINGED COVER ENCLOSURES

- A. Manufacturers:
 - 1. **Hoffman Electrical Products.**
 - 2. **Square D.**
 - 3. **General Electric.**
- B. Construction: NEMA 250, Type 1 for indoors or NEMA type 4, or 3R stainless steel gasketed for outdoor installations.
- C. Covers: Continuous hinge, held closed by flush latch operable by key.
- D. Furnish interior plywood panel for mounting terminal blocks and electrical components; finish with white enamel.
- E. Enclosure Finish: Manufacturer's standard enamel.

2.3 CABINETS

- A. Manufacturers:
 - 1. **Hoffman Electrical Products.**
 - 2. **Square D.**
 - 3. **General Electric.**



- B. Boxes: Galvanized steel with removable end walls.
- C. Backboard: Furnish 3/4 inch thick plywood backboard for mounting terminal blocks. Paint matte white.
- D. Fronts: Steel, flush or surface type with screw cover front, door with concealed hinge. Finish with gray baked enamel.
- E. Knockouts: as required for conduit entry.
- F. Furnish metal barriers to form separate compartments wiring of different systems and voltages.
- G. Furnish accessory feet for free-standing equipment.

2.4 TERMINAL BLOCKS

- A. Terminal Blocks: NEMA ICS 4.
- B. Power Terminals: Unit construction type with closed back and tubular pressure screw connectors, rated 600 volts.
- C. Signal and Control Terminals: Modular construction type, suitable for channel mounting, with tubular pressure screw connectors, rated 300 volts.
- D. Furnish ground bus terminal block, with each connector bonded to enclosure.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install enclosures and boxes plumb. Anchor securely to wall and structural supports at each corner.
- B. Install cabinet fronts plumb.
- C. To the extent possible, install all enclosures indoors due to the corrosive environment.

END OF SECTION 26 27 16