

## SECTION 26 27 16

### ELECTRICAL CABINETS AND ENCLOSURES

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. Section includes hinged cover enclosures, cabinets, terminal blocks, and accessories.
- B. Related Sections:
  - 1. Division 26 - Grounding and Bonding for Electrical Systems.
  - 2. Division 26 - Raceway and Boxes for Electrical Systems.

##### 1.02 REFERENCES

- A. National Electrical Manufacturers Association:
  - 1. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).
  - 2. NEMA ICS 4 - Industrial Control and Systems: Terminal Blocks.
  - 3. ANSI / NFPA 70 – National Electrical Code / California Electrical Code.

##### 1.03 SUBMITTALS

- A. Division 01 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit manufacturer's standard data for enclosures, cabinets, and terminal blocks.
- C. Manufacturer's Installation Instructions: Submit application conditions and limitations of use stipulated by product testing agency specified under Regulatory Requirements. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

##### 1.04 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum five years documented experience.

##### 1.05 EXTRA MATERIALS

- A. Division 01 - Execution and Closeout Requirements: Spare parts and maintenance products.
- B. Furnish two of each key.

#### PART 2 PRODUCTS

##### 2.01 HINGED OR SCREWED COVER ENCLOSURES

- A. Construction: NEMA 250, Type 1 for interior dry locations and Type 3R for outdoor locations, steel enclosure unless otherwise noted.
- B. For hinged covers: Continuous hinge, held closed by flush latch operable by key.
- C. Enclosure Finish: Manufacturer's standard enamel.

## 2.02 CABINETS

- A. Boxes: Galvanized steel with removable end walls.
- B. Fronts: Steel, flush or surface type, as required per program, with concealed trim clamps, keyed to match branch circuit panelboard. Finish with gray baked enamel.
- C. Knockouts: As required for conduit entry.
- D. Furnish metal barriers to form separate compartments for wiring of different systems and voltages.
- E. Furnish metal barriers to form separate compartments for wiring of normal and emergency circuits.
- F. Furnish accessory feet for free-standing equipment.

## 2.03 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.

## 2.04 PLASTIC RACEWAY

- A. Product Description: Plastic channel with hinged or snap-on cover.

## PART 3 EXECUTION

### 3.01 INSTALLATION

- A. Verify that surfaces are ready to receive work.
- B. Install products in accordance with manufacturer's instructions.
- C. Install enclosures and boxes plumb. Anchor securely to wall and structural supports at each corner in accordance with Division 26.
- D. Install cabinet fronts plumb.

### 3.02 CLEANING

- A. Division 01 - Execution and Closeout Requirements: Final cleaning.
- B. Clean electrical parts to remove conductive and harmful materials.
- C. Remove dirt and debris from enclosure.
- D. Clean finishes and touch up damage.

END OF SECTION