

SECTION 16160

CABINETS AND ENCLOSURES

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Hinged Cover Enclosures.
- B. Cabinets.
- C. Terminal Blocks.
- D. Accessories.

1.2 RELATED SECTIONS

- A. Section 16190 - Supporting Devices.

1.3 REFERENCES

- A. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).
- B. NEMA ICS 4 - Terminal Blocks for Industrial Control Equipment and Systems.
- C. ANSI/NFPA 70 - National Electrical Code.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300 - Submittals.
- B. Product Data: Provide manufacturer's standard data for enclosures and cabinets.

1.5 REGULATORY REQUIREMENTS

- A. Conform to requirements of ANSI/NFPA 70.
- B. Furnish products listed and classified by Underwriters Laboratories, Inc., or testing firm acceptable to authority having jurisdiction as suitable for purpose specified and shown.

1.6 EXTRA MATERIALS

- A. Furnish under provisions of Section 01700 – Contract Closeout.
- B. Provide two keys for each cabinet.

2. PART 2 PRODUCTS

2.1 HINGED COVER ENCLOSURES

- A. Construction: NEMA 250, Type 3R, or 4X steel enclosure.

- B. Covers: Continuous hinge, held closed by flush latch operable by a screwdriver.
- C. Provide interior metal panel for mounting terminal blocks and electrical components; finish shall be white enamel.
- D. Enclosure Finish: Manufacturer's standard enamel.

## 2.2 CABINETS

- A. Boxes: Galvanized steel.
- B. Box Size: As shown on plans.
- C. Fronts: Steel with concealed hinge, and flush lock. Finish shall be gray baked enamel.
- D. Provide accessory feet for free-standing equipment.

## 2.3 TERMINAL BLOCKS

- A. Terminal Blocks: ANSI/NEMA ICS 4.
- B. Power Terminals: Unit construction type with closed back and tubular pressure crew 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. Provide ground bus terminal block, with each connector bonded to enclosure.

## 2.4 ACCESSORIES

- A. Plastic raceway.

# 3. PART 3 EXECUTION

## 3.1 EXAMINATION

- A. Verify that surfaces are ready to receive Work.

## 3.2 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install enclosures and boxes plumb. Anchor securely to wall and structural supports at each corner.
- C. Install cabinet fronts plumb.

END OF SECTION