

The School District of Palm Beach County

Project name:

SDPBC Project No:

SECTION 26 27 16
ELECTRICAL CABINETS AND ENCLOSURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Hinged cover enclosures
- B. Cabinets
- C. Terminal blocks and accessories

1.2 REFERENCES

- A. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum)
- B. NEMA ICS 1 - Industrial Control and Systems: General Requirements
- C. NEMA ICS 4 – Application Guideline for Terminal Blocks
- D. NEMA ICS 6 - Enclosures

1.3 SUBMITTALS

- A. Submit product data under provisions of Section 01 33 00.
- B. Shop Drawings for Equipment Panels: Include wiring schematic diagram, wiring diagram, outline drawing and construction diagram as described in NEMA ICS 1.

PART 2 PRODUCTS

2.1 HINGED COVER ENCLOSURES

- A. Construction: Use NEMA 250 steel types as required to meet conditions of installation unless indicated on the Drawings.
- B. Finish: Use manufacturer's standard enamel finish.
- C. Covers: Continuous hinge, held closed by flush latch operable by key.
- D. Panel for Mounting Terminal Blocks or Electrical Components: 14-gage steel, enamel finish.

2.2 CABINETS

- A. Cabinet Boxes: Provide galvanized steel with removable end walls.
 - 1. Provide ¾" thick plywood backboard (exterior fir, type A/C, 7 ply) painted gray on all sides, for mounting terminal blocks.
- B. Cabinet Fronts: Steel, flush or surface type with screw cover front, concealed hinge and flush lock keyed to match branch circuit panel board; finish in baked enamel.

2.3 TERMINAL BLOCKS AND ACCESSORIES

- A. Terminal Blocks: NEMA ICS 4; UL listed.
- B. Power Terminals: Unit construction type, closed-back type, with tubular pressure screw connectors, rated 600 volts.
- C. Signal and Control Terminals: Modular construction type, channel mounted; tubular pressure screw connectors, rated 300 volts.

2.4 FABRICATION

- A. Shop assemble the enclosures and cabinets housing terminal blocks or electrical components in accordance with NEMA ICS 6.
- B. Provide knockouts on enclosures.
- C. Provide protective pocket inside front cover with schematic diagram, connection diagram, and layout drawing of control wiring and components within enclosure.

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PART 3 EXECUTION

3.1 INSTALLATION

- A. Install cabinets and enclosures plumb; anchor securely to wall and structural supports at each corner, minimum.
- B. Provide accessory feet for free-standing equipment enclosures.
- C. Install trim plumb.

END OF SECTION