

SECTION 262820
ELEVATOR POWER MODULE SWITCH

PART 1 GENERAL

1.01 DESCRIPTION

- A. Work of this section shall conform to the requirements of the Contract Documents.

1.02 SECTION INCLUDES

- A. Provide Elevator Power Module Switch(es), fuses, and accessories as required and as specified on Contract Drawings to distribute electrical power to all elevators.

1.03 CODES AND STANDARDS

- A. All work shall be performed in accordance with the latest edition of the National Electrical Code and all other applicable standards, codes, and laws.
1. National Electrical Code, 1996.
 2. ASME/ANSI A17.1.111b.
 3. BOCA 1993.
- B. Except as modified by governing codes, all equipment shall be manufactured in accordance with the latest applicable standards:
1. UL Standard 50, Cabinet Boxes
 2. Federal Specifications, Fused Switches W-S-865C

1.04 SUBMITTALS

- A. Submit shop drawings and product data under the provisions of the General Conditions.
- B. Product Data: Provide manufacturer's catalog information showing dimensions, configurations, and methods of mounting and installation.
- C. Submit listing of all types, sizes, and quantity of fuses which will be installed including the location of each.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Bussman, Littlefuse, and Ferraz-Shawmut.

2.02 GENERAL

- A. Provide elevator power module switch as shown on drawings.
- B. The elevator power module switch shall be constructed with Nationally Recognized Testing Laboratory (NRTL) devices and to the codes and standards as listed above.
- C. The power module switch shall have an ampere rating as shown on the Contract Drawings, and shall include a horsepower rated fusible switch with shunt trip capabilities.

- D. It shall include as an accessory a control power transformer with a primary voltage rating as required and a 120 volt secondary.
- E. The module shall have been successfully tested to a short circuit rating with Class J fuses of 200,000 amps.
- F. Switch shall have shunt trip capabilities at 120V AC for remote fire safety signal. (Note: Fire safety control voltage is normally 24V DC with interface signal off a 5 amp dry contact, which means a control power transformer and relay is necessary to activate the shunt trip solenoid - 140VA inrush at 120V, one per shunt trip mechanism.)
- G. Branch feeders shall be selectively coordinated and fed with an upstream supply overcurrent protective device at a minimum of 2:1 size ratio utilizing Low-Peak (Class J, RK1, or L) fuses.
- H. The power module switch shall have a key to test switch, and an "ON" pilot light.
- I. The power module switch shall have a mechanical interlock auxiliary contact for hydraulic elevators with automatic recall (5 amp, 120Vac rated).

PART 3 EXECUTION

3.01 INSTALLATION

- A. All material installation shall be in accordance with manufacturer's recommendations and the provisions of applicable codes.
- B. Fuses shall not be installed until equipment is ready to be energized.
- C. Coordinate installation requirements with elevator supplier.

END OF SECTION