

SECTION 26 28 20 - ELEVATOR POWER MODULE SWITCH

PART 1 - GENERAL

1.1 DESCRIPTION

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

1.2 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.

1.3 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-865

1.4 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

2.1 MANUFACTURERS

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

2.2 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

3.1 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 26 28 20