

### Section 16XXX – POWR-Switch Panel

Elevator – Data Processing – Emergency Systems

#### Part 1 - General

##### 1.01 Description

- A. Equipment shall be kept clean, dry, and in a protected environment until ready for installation and conform to all requirements identified in the project documents.

##### 1.02 Protection of Elevator Circuits

- A. Provide elevator POWR-Switch Panel, fuses and accessories as specified on all project documents.

##### 1.03 Protection of Related Systems

- A. Provide POWR-Switch Panel, fuses and accessories as specified on all project documents.

##### 1.04 Codes

- A. All work shall be performed in accordance with the latest editions of all applicable standards, codes, and laws.
1. NFPA 70 – Section 620-51 (a)-(c), 620-62, 620-91(c),
  2. Canadian Electric Code Part 1 38-034 (3)
  3. ANSI/ASME A17.1 102.2(4)(c)(3)
  4. BOCA 3006.2.3
  5. NFPA 72 – Section 6.15.4.4

##### 1.05 Standards

- A. All equipment shall be manufactured in accordance with the manufacturers specification and meet the latest applicable standards unless modified by local governing codes or standards with jurisdiction.
1. Panelboards, U.L. 67 and CSA – C22.2 No. 29
  2. Switchboards, U.L. 891 and CSA - C22.2 No. 31

##### 1.06 Substitutions

- A. In all such cases, substitutions shall comply with the project documents and meet any applicable code requirements. In addition, the engineer shall be advised and their approval obtained prior to any proposed changes.

##### 1.07 Submittals

- A. Drawings and product information shall be submitted in accordance with the project provisions.
- B. Manufacturer's product information shall contain general catalog data, dimensions, mounting and installation information, and optional configurations as needed.
- C. All types, sizes, quantity, and location of fuses to be installed shall be submitted.
- D. Spare fuses shall be supplied in accordance with the general fuse specification.

#### Part 2 - Products

##### 2.01 Manufacturers

- A. Littelfuse – POWR-Switch Panel – LPMP series

##### 2.02 General Conditions & Requirements

- A. Provide POWR-Switch Panel in NEMA enclosure(s) with all components and options (as listed below) shown on drawings. The POWR-Switch Panel shall be listed and certified to the standards listed herein. The POWR-Switch Panel shall have an ampere rating of \_\_\_\_\_ (MLO or Main Switch) with copper bus (120/208V, 3 phase, 3 or 4 wire or 277/480V, 3 phase, 3 or 4 wire) as shown on the project documents and include individual molded case switch(s) with shunt trip capabilities, separate fusing and have appropriate horsepower ratings. The switch ratings shall be based on the elevator manufacturer's requirements (if applicable) and utilize Littelfuse Class J fuses. A 100VA control power transformer shall be included as an accessory with primary and secondary fuses. The primary voltage rating shall be \_\_\_\_\_ volts with a 120 volt secondary. An isolation relay shall also be provided (3PDT, 10 amp, 120V). The rating of the coil of the isolation relay shall be \_\_\_\_\_ (120VAC or 24VDC). To energize the isolation relay and activate the shunt trip solenoid (140VA inrush at 120V), a 5A normally open dry contact shall be provided. **(Note:** If a 24 VDC coil is selected, a separate 24 VDC source and contact must be provided by the Fire Alarm Safety System) The switch unit shall include the following options:
- \_\_\_\_\_ Key to Test Switch
  - \_\_\_\_\_ Pilot Light (Green, Red, or White) "On"
  - \_\_\_\_\_ Mechanical Interlock Auxiliary Contact (1 NO & 1 NC - required for hydraulic elevators with automatic recall).
  - \_\_\_\_\_ Fire Alarm Voltage Monitoring Relay (complies w/ NFPA 72)
  - \_\_\_\_\_ NEMA \_\_\_\_\_ Enclosure (NEMA 1 or 3R)

The Littelfuse POWR-Switch Panel shall have been successfully tested to a short-circuit rating at 200,000 amps RMS Symmetrical with Littelfuse Class J time-delay fuses.

All switches shall include shunt trip capabilities at 120 VAC from remote fire safety signals. Selective coordination shall be maintained with branch feeders and other overcurrent protective devices by utilizing Littelfuse Class J, RK1, or L fuses sized at a minimum 2:1 ratio.

#### Part 3 – Execution

##### 3.01 Installation

- A. All equipment shall be installed in accordance with the manufacturer's guidelines and the latest edition of any applicable codes.
- B. Fuses shall not be inserted in the equipment until the equipment is in place, completely connected, and tested for insulation integrity.