SECTION 16360 D - MEDIUM VOLTAGE INTERRUPTER SWITCHES

A. PRODUCT

1. Medium voltage switches shall be air-interrupter type, non-fusible, or fusible, as manufactured by S&C Electric Co. Pad mounted switches shall be PMH type.

2. Switches shall have the following ratings:
   - Kv, Nominal: 13.8
   - Kv, Maximum Design: 15.5
   - Kv, BIL: 95
   - Main Bus Aluminum Continuous, Amperes: 600
   - Short Circuit Ratings
     - Amperes, Rms Symmetrical: 25,000
     - Mva Three-Phase Symmetrical at Rated Nominal Voltage: 600
   - Duty-Cycle Fault Closing
     - Amperes, Rms Asymmetrical: 40,000

3. Switch Construction
   a. Interrupter switches shall be three-pole, gang-operated, arranged with hinged end on load side to provide for “dead-blade” when open. Switch mechanisms shall be non-removable, operable externally from front of cubicle and be equipped with a quick-make, quick-break device to open and close switch independent of speed with which operating handle is moved.


5. Metal-Enclosed Switchgear Assembly
   a. Metal-enclosed switchgear assembly shall consist of self-supporting bays, containing interrupter switches, power fuses, and necessary accessory components, completely factory-assembled and operationally checked.
   b. Provide mechanical interlock between fuse and switch compartments, and proper key interlocking on duplex switches.
   c. Busing shall be 600 amp silver-plated copper, braced for 300 MVA. Each unit shall have a copper ground bus. Main and ground busses to be arranged for future extension.

6. Enclosure and Doors
   a. Enclosure and doors shall be designed and constructed to guard against unauthorized entry.
   b. Access shall be from front only, and side to rear sheets shall not be externally removable.
   c. Door handles and hinged bolted panels shall have provisions for padlocking.
   d. Door handle shall incorporate means to protect padlock shackle from tampering.
   e. Doors shall be provided with door holders to prevent doors from closing inadvertently while work is being performed within switchgear enclosure.
   f. Each door giving access to high-voltage interrupter switch shall be provided with inspection window to allow observation of switch position.