

**SECTION 16440**  
**DISCONNECTS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section describes general requirements, products, and methods of execution relating to fusible and non-fusible disconnecting devices approved for use at ANC.

**1.2 QUALITY ASSURANCE**

- A. Devices shall be of the latest approved design as manufactured by Square D Company to match equipment provided in C Concourse Phase 2 Building Completion Package. Equipment shall be in conformity with UL listings and the governing NEMA standards.

**PART 2 - PRODUCTS**

**2.1 SAFETY SWITCHES**

- A. Safety switches, fusible and non-fusible, shall conform to NEMA Standard KSI-1990 for type HD (Heavy Duty) unless otherwise noted.
1. Switch Interior: All switches shall have switch blades that are fully visible in the OFF position when the door is open. Switches shall be of dead-front construction with permanently attached arc suppressers. Lugs shall be UL listed for copper and/or aluminum cables and be front removable.
  2. Switch Mechanism: Switches shall have a quick-make and quick-break operating handle and mechanism that shall be an integral part of the box, not the cover. Switches shall have a defeatable dual cover interlock to prevent unauthorized opening of the switch door in the ON position or closing of the switch mechanism with the door open. The switch shall be capable of being locked in the OFF position with three (3) padlocks.
  3. Enclosures: Switch enclosure shall be suitable for the environment in which the switch is mounted. NEMA 1 enclosure shall be code gauge, UL-98, sheet steel, treated with a rust inhibiting phosphate and finished in gray, baked enamel. NEMA 3R enclosure--same requirements as NEMA 1 except galvanized prior to painting.
  4. Rating: Ampere, volt and horsepower ratings, as well as number of poles and presence of neutral bar shall be shown on the name plate.

**2.2 CIRCUIT BREAKERS**

- A. Circuit breakers used as disconnects shall meet requirements specified in Section 16475 - OVERCURRENT PROTECTIVE DEVICES. Enclosures for same shall meet the requirements as specified above.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

- A. Coordinate all details pertaining to size of motor and/or equipment, location and requirements to enclosure, ratings, etc., so as to provide the most suitable unit for the intended purpose.
- B. Provide nameplates for all disconnects. Coordinate names with mechanical equipment lists.

- C. Where the rating of a fused disconnect exceeds the ampacity of the conductors being protected, a permanent label noting maximum fuse size shall be installed in a conspicuous location within the switch.
- D. Where recommended or required by the equipment manufacturer, or required by underwriters' laboratories, disconnects shall be the fusible type, fused in accordance with the equipment nameplate information.
- E. Provide all code-required disconnects. For equipment which is under the jurisdiction of the UMC, a disconnect shall be provided within sight of the equipment.

**END OF SECTION**