

## **SECTION 16170 – DISCONNECTS (MOTOR & CIRCUIT & SEPARATE CIRCUIT BREAKERS)**

### **PART 1 – GENERAL**

#### **1.1 DESCRIPTION OF WORK:**

- A. Safety switches and disconnects and separately mounted circuit breakers.
- B. Provide shop drawing.

### **PART 2 – PRODUCTS**

#### **2.1 DISCONNECT SWITCHES:**

- A. Heavy duty rated 250 or 600 volts as required; quick-make, quick-break operation, horsepower rated. If switch is not available with proper horsepower rating, classify switch as isolating switch only and provide nameplate reading, "DO NOT OPEN UNDER LOAD". Operating handle interlocked with switch door to prevent opening door with switch closed. Provide mechanical over-ride for authorized personnel to open switch door without operating switch handle.
- B. Fusible or non-fusible as shown. Furnish Bussman "Fusetron" fuses for each fusible position, size as shown. Furnish 3 spare fuses for each size.
- C. Furnish with provisions for locking with padlock. Enclosures for switches NEMA 1, general purpose, NEMA 3R, raintight, or special enclosure, as shown.
- D. Standard product of Siemens, Square "D", General Electric, or Cutler-Hammer.

#### **2.2 SEPARATELY MOUNTED CIRCUIT BREAKERS:**

- A. Furnish and install separately mounted circuit breakers for overcurrent protection of feeders and branch circuits where shown on drawings.
- B. Circuit breakers: Thermal-magnetic, molded case type, rated 600 volts, with interrupting rating as indicated on the drawings.
- C. Individual circuit breakers shall be mounted in NEMA 1, general purpose, surface or flush enclosures as shown.
- D. Circuit breakers shall be the standard product of G.E., Siemens, Square "D" or Cutler-Hammer.
- E. Lockable switch.

### PART 3 – EXECUTION

- A. Secure disconnect switches to building or equipment surface as shown. If location shown is not suitable for installing, provide Unistrut P-1000 rack mounted as directed to secure switch.
- B. Disconnects shall be located to be accessible and within 5 feet or closer to equipment served.
- C. Provide engraved nameplates identifying equipment served, fuse or breaker size. Refer to specification Section 16014.

END OF SECTION 16170