## SECTION 262816.11 - DISCONNECT SWITCHES

## PART 1 - GENERAL

### 1.1 SCOPE

A. Provide all electrical equipment disconnects shown on the Drawings and specified, except where the disconnect is furnished in another Division of the Specifications.

## PART 2 - PRODUCTS

### 2.1 DISCONNECTS

A. Type: Fusible or non-fusible as noted on the Drawing.
B. Voltage: 600 volts, horsepower rated at 480 volts. 250 volt rated switches, with 230 volt horsepower rating, may be provided where indicated on the Drawings.
C. Current Rating: Amperes as noted on the Drawings, or as required for actual equipment installed. Capable of interrupting rated full load current 1,000 operations.
D. Mechanical

1. 3-pole heavy duty; quick-make quick-break.
2. Visible blade; plated copper current carrying parts.
3. Lugs, UL listed for 60 degrees C, aluminum or copper wires.
4. Operating handle part of box, not on the cover. Position indication of ON or OFF.
5. Provision for padlocking in OFF position with 3 padlocks.
6. Cover interlock to prevent opening of door with switch ON, or closing of switch with door open. Screwdriver interlock defeater.
E. Enclosure: NEMA-1 unless otherwise indicated; or suitable for the environment.
F. Fuses: Unless otherwise indicated, fuses shall be dual element time delay, Class RK-5. Interrupting rating 200,000 amperes symmetrical.

### 2.2 CIRCUIT BREAKERS - NON-AUTOMATIC

A. General

1. For disconnects indicated larger than 200 amperes, or for motors larger than 60 horsepower, provide 3-pole non-automatic molded case (circuit breaker) switches.
2. Enclosure and operating same as for automatic circuit breaker.
3. Provision for padlocking in OFF position with 3 padlocks.
4. Cover interlock to prevent opening of door with switch ON, or closing of switch with door open. Screwdriver interlock defeater.

## B. Ratings

1. Voltage: 600 volts, $60 \mathrm{~Hz}, 3$ phase.
2. Current: as indicated on Drawings or $125 \%$ of equipment full load amperes.
3. Interrupting Rating: 14,000 amperes symmetrical at 480 volts.

### 2.3 CIRCUIT BREAKERS - AUTOMATIC

A. Type: Molded case, with thermal and magnetic trips.
B. Thermal Trips: Bi-metal, inverse time curve. Current as noted on the Drawings.
C. Magnetic Trips: Approximately ten times thermal rating.
D. Interrupting Capacity: Min. 14,000 amperes at 480 volts, or as indicated.
E. Operating Handle:

1. External on box or through cover. Three distinct positions; ON, TRIPPED, OFF.
2. Cover interlock to prevent opening of door with switch ON, or closing of switch with door open. Screwdriver interlock defeater.
3. Provision for padlocking in OFF position with 3 padlocks.
F. Enclosure: NEMA-1 unless otherwise indicated; or suitable for the environment.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

A. Locate as indicated on the Drawings, or as convenient, comply with the NEC.
B. Bolt units rigidly to structure with appropriate brackets, or threaded holes.
C. On Masonry or Concrete Walls, install insulating spacers between unit and wall.

### 3.2 SPARE FUSES

A. Furnish to Owner at the completion of the project, a quantity of fuses of each size and type used equal to $10 \%$ of the number installed, but not less than three of each size.

END OF SECTION 262816.11

