



SECTION 16441

ENCLOSED SWITCHES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Disconnect Switches.
- B. Fuses.

1.2 REFERENCES

- A. NEMA KS 1 - Enclosed Switches.
- B. ANSI/NFPA 70 - National Electrical Code.

1.3 SUBMITTALS

- A. Include outline drawings with dimensions, and equipment ratings for voltage, capacity, horsepower, and short circuit.

PART 2 - PRODUCTS

2.1 DISCONNECT SWITCHES

- A. Acceptable manufacturers:
 - 1. *Square D.*
 - 2. *General Electric.*
 - 3. *Cutler-Hammer.*
 - 4. *Siemens.*
 - 5. Substitutions: Or Approved Equal.
- B. Nonfusible Switch Assemblies: NEMA KS 1; Type HD; quick-make, quick-break, load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front with switch in ON position. Handle lockable in OFF position.
- C. Fusible Switch Assemblies: NEMA KS 1, Type HD, quick-make, quick-break, load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in ON position. Handle lockable in OFF position. Fuse clips: designed to accommodate Class R fuses.
- D. Enclosures: NEMA KS 1; Type 1. For indoor locations; Type 3R for outdoor locations.



2.2 FUSES

A. Acceptable manufacturers:

1. *Bussman*
2. *Shawmut-Gould*
3. Substitutions: Or Approved Equal.

B. Fuses 600 amperes and less: ANSI/UL 198E, Class RK5 dual element 250-volt.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install disconnect switches for all motor loads and where indicated on Drawings, except where equipment is factory supplied with an integral means of disconnect.
- B. Install disconnect switches within sight and within 25 feet of equipment item being served. Install switch handle no higher than 60 inches above the working surface.
- C. Provide unfused disconnect switches for general motors. Provide fused disconnect switches for elevator controller, feeder and for elevator cab branch circuit power. Also provide fused disconnect switches for Mechanical System Air Handling Units (AHs) and Outside Air Units (OUs).
- D. Provide a mechanical interlock contact on the elevator main power disconnect switch of use by elevator control wiring.

END OF SECTION