

SECTION 262816 – ENCLOSED SWITCHES AND CIRCUIT BREAKERS

- 1.0 Enclosed switches shall be of the heavy-duty fused or unfused type and shall meet applicable NEMA KS1 and UL 98 Standards.

Enclosed circuit breakers shall be thermal magnetic, molded case type that comply with UL 489 and NEMA AB1 and AB3 requirements.

Enclosures for switches and circuit breakers shall meet NEMA 250 requirements. Indoor locations shall be NEMA 250 Type 1. Outdoor and kitchen locations shall be NEMA 250 Type 4X stainless steel.

- 2.0 Local safety switches are considered to be an integral part of equipment maintenance. Safety switches shall be located adjacent to electrical/electrically powered equipment where required for compliance with NEC/NFPA 70 requirements. Switches shall be located where they are readily accessible, unobstructed and clearly identified. Refer to Section 260553 – Electrical Identification for labeling requirements.
- 3.0 Switches shall be rated for the available fault current. In no case shall the fault current interrupting or withstand rating be less than 10,000 amperes for nonfusible switches and 200,000 amperes for fusible switches.
- 4.0 Where electrically operated release or shunt trip devices are specified, the enclosed switch or circuit breaker shall include a control power transformer, with primary and secondary fuse protection, powered from the line side of the switch or circuit breaker. Provide terminal strip for connection of all external control circuit wiring.
- 5.0 The enclosure types shall be UL listed for the applications. Enclosures shall include external operating handles that are pad-lockable in either the ON/CLOSED or OFF/OPEN position.
- 6.0 Fuses shall be specified in contract documents so that they are suitable for the load type and the short circuit current available. All fuses shall be current limiting, rejection type, applied generally as follows:
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| Feeders: | Class RK1, Dual Element Time Delay |
| Motor branch circuits: | Class RK5, Dual Element Time Delay |
| Branch circuits-general purpose: | Class RK1, Dual Element Time Delay |
| Control Circuits: | Class CC, Time Delay |
- 7.0 Provide three (3) spare fuses of each required size for each installed fusible switch.
- 8.0 Provide handle padlock device for enclosed circuit breakers.