

ENCLOSED SWITCHES AND ENCLOSED CIRCUIT BREAKERS

DESIGN GUIDELINES

1. Material and/or Equipment Type:
 - a. Enclosed Switches (600V and below).
 - b. Enclosed Circuit Breakers (600V and below).
2. Design
 - a. Disconnect switches shall be heavy duty type.
 - b. Either fused, non-fused or separately-enclosed circuit breakers as required.
 - c. Indoor switches shall be NEMA 1 standard or upgraded to NEMA 3R/4 where required due to harsh environmental conditions (i.e. cooling towers).
 - d. Outdoor and protected switches shall be minimum NEMA 3R.
 - e. Service entrance switches shall be UL listed for use as Service Equipment.
 - f. Motor rated toggle switches shall be allowed for single-phase, fractional HP motors.
 - g. Provide circuit breakers in accordance with Circuit Breaker Design Standard.
 - h. Provide auxiliary contacts in local disconnect switches fed from VFD. Connect to power down VFD when local disconnect is open.
3. Related Sections
 - a. Conduits, Fittings and Boxes
 - b. Circuit Breakers
 - c. Identifications of Electrical Systems

EQUIPMENT and PRODUCT REQUIREMENTS

1. Enclosed Switches
 - a. Approved Manufacturers:
 - Square D
 - Eaton Cutler-Hammer

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