

SECTION 26 28 16 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. **KROGER DIRECT BUY PROGRAM:** Owner supplied/Contractor installed.
 - a. The Kroger Company will supply the following items for the Contractor to install.
 - 1) Equipment Disconnects
 - 2) Appliance Disconnects
 - 3) Motor Circuit Disconnects
 - b. Wiring circuit and motor switches are indicated on Drawings and Schedules, and as required by National Electrical Code (NEC).
 - c. Comply with requirements in Division 00 Section "General Conditions."
2. Contractor supplied items:
 - a. Accessories as required for a complete installation.
3. Contractor installed items:
 - a. Equipment Disconnects
 - b. Appliance Disconnects
 - c. Motor Circuit Disconnects

1.2 SUBMITTALS

- A. The Owner will provide the following submittals for the Contractor's review. The Contractor shall review and return submittals as specified in Division 00 Section "General Conditions."
1. Product Data: For each type of enclosed switch, circuit breaker, accessory, and component indicated.
 2. Shop Drawings: Diagram power, signal, and control wiring.

1.3 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 WIRING CIRCUIT AND MOTOR SWITCHES

- A. Refer to Division 01 Section "Vendor Contact List" for information on the following items:
 - 1. Prefabricated switches.
 - 2. Molded-case circuit breakers and switches.
 - 3. Insulated case circuit breakers.
 - 4. Enclosures.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coordinate circuit and motor disconnect switch installation work with electrical raceway and cable work, as necessary to interface installation of wiring devices with other work. Interface installation with required phasing of work.
- B. The Owner will supply the disconnect, or shut off switch for the following items. The Contractor is to make final connections:
 - 1. Roof top HVAC units.
 - 2. Hood fans.
 - 3. Hood fan starters.
 - 4. Trash compactors.
 - 5. Utensil washer(s).
 - 6. Balers.
 - 7. Refrigeration condenser fans.
 - 8. Fluid coolers (protocol).
 - 9. Pump station (protocol).
 - 10. Generators.
- C. The Owner will supply the disconnect, or shut off switch for the following contractor supplied items. The Contractor is to make final connections:
 - 1. Electric water heaters
- D. Install disconnect switches for use with motor driven appliances, and motors and controllers within sight of controller position, unless otherwise indicated. Contractor to make final electrical connections.

3.2 FIELD QUALITY CONTROL

- A. Prepare for acceptance testing as follows:
 - 1. Inspect mechanical and electrical connections.

2. Verify switch and relay type and labeling verification.
3. Verify rating of installed fuses.

B. Perform the following field tests and inspections and prepare test reports:

1. Perform each electrical test and visual and mechanical inspection stated in NETA ATS, Section 7.5 for switches and Section 7.6 for molded-case circuit breakers. Certify compliance with test parameters.
2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
3. Insulated Case Circuit Breakers:
 - a. Switchboard/Circuit Breaker manufacturer to provide adjustable settings for insulated case circuit breakers larger than 1,200A, including the switchboard's main (GFCI) circuit breaker and the mobile generator connection's circuit breaker. Refer to Drawings for any additional breakers that may require adjustment.
 - b. Apply manufacturer's settings to insulated case circuit breakers and complete the applicable information on sticker located on switchboard enclosure's deadfront cover, verifying compliance with manufacturer's settings.

END OF SECTION 26 28 16

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