

## SECTION 26 28 00 - LOW VOLTAGE CIRCUIT PROTECTIVE DEVICES

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. **KROGER DIRECT BUY PROGRAM:** Owner supplied/Contractor installed.
  - a. The Kroger Company will supply overcurrent protective devices for new panelboards and switchboards required by drawings, schedules, and section including:
    - 1) Circuit Breakers
    - 2) Shunt trip breakers
  - b. Comply with requirements in Division 00 Section "General Conditions."
2. Contractor supplied items:
  - a. Remodels and Additions: Circuit breakers and fused switches for existing panelboards and switchboards.
  - b. Accessories, including fuses, as required for a complete installation.
3. Contractor installed items:
  - a. Overcurrent protective devices including fuses,

#### 1.2 SUBMITTALS

- A. For Owner supplied items, 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 overcurrent type indicated.
  2. Operation and maintenance data.
- B. Selective Coordination Study And Fuse Curves.

#### 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 NEMA FU 1.
- C. Comply with NFPA 70.

## **PART 2 - PRODUCTS**

### **2.1 CIRCUIT BREAKERS AND SHUNT TRIP BREAKERS**

- A. Refer to Division 01 Section "Vendor Contact List" for information on circuit breakers supplied by the Owner.
- B. Circuit breakers, shunt trip breakers, and ancillary components shall be of the types, sizes, ratings and electrical characteristics indicated, which comply with manufacturer's standard design, materials, components and construction, in accordance with published product information, and as required for a complete installation.

### **2.2 FUSES:**

- A. General: Provide fuses as specified.
- B. Except as otherwise indicated, provide fuses of same manufacturer and of types, sizes and ratings, and electrical characteristic indicated, which comply with manufacturer's standard design, materials, components and construction, in accordance with published product information, and with industry standards and configurations.
- C. For 601 amps and larger circuits: NEMA Class "L" fuses in current ratings indicated.
  - 1. Cooper Bussmann, Inc.: KRP-C; 636-394-2877
  - 2. Ferraz Shawmut, Inc.; A4BY; 800-526-9067
  - 3. Reliance: LCU
- D. For use with switches rated 600 amps and smaller: Class "R" Fuses: Provide NEMA Class RK-1, dual-element (low-peak) types 200,000 amp interrupting rating, with time delay of ten seconds at 500 percent of rating,
  - 1. Cooper Bussmann, Inc.: LPNRK; 636-394-2877
  - 2. Ferraz Shawmut, Inc.; A2DR; 800-526-9067
  - 3. Reliance: LENR or NCLR

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION OF OVERCURRENT PROTECTIVE DEVICES:**

- A. Install overcurrent protective devices, as indicated, in accordance with manufacturer's written instructions and with recognized industry practices, to ensure that overcurrent protective devices comply with requirements.
- B. Do not install fuses until equipment is ready to be energized.
- C. Conduct final test and inspections prior to energization of the equipment.
- D. Clean, tighten, and inspect electrical connections and inspect grounding conductors.

END OF SECTION 26 28 00