

SECTION 26 29 00 - LOW VOLTAGE CONTROLLERS

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) Full voltage non-reversing combination motor starters
 - 2) Manual motor starters
 - 3) Exhaust systems motor starters
2. Contractor supplied items:
 - a. Motor starter overload protection.
 - b. Accessories as required for a complete installation.
3. Contractor installed items:
 - a. Full voltage non-reversing combination motor starters.
 - b. Manual motor starters.
 - c. Exhaust systems motor starters.
 - d. Motor starter overload protection.

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.
- C. Motors will be provided with overcurrent protection, motor disconnect and motor overload protection as required by NEC.

- D. Single-phase motors will be provided with NEMA Type A fusible disconnect, with lockable handle for circuit protection, except where circuit to motor is already individually protected by overcurrent protective device and disconnect in panelboard located within sight of and not more than **50-feet (15.25-m)** from motor.
- E. Starters will be in NEMA Type 1 enclosures.
- F. Three-Phase Motors:
 - 1. Combination circuit breakers or separate disconnect and magnetic starters for 3-phase motors will be provided in NEMA 12 enclosure.
 - 2. Combination fused disconnect switch and enclosed magnetic across-the-line starters, as indicated, will be provided in NEMA 12 enclosure.
 - 3. Starters will be provided with circuit protection, ambient compensated thermal overload protection.

PART 2 - PRODUCTS

2.1 MOTOR STARTERS

- A. Refer to Division 01 Section "Vendor Contact List" for information on the following items:
 - 1. Full voltage non-reversing combination motor starters
 - 2. Manual motor starters
 - 3. Exhaust system motor starters

PART 3 - EXECUTION

3.1 INSTALLATION OF MOTOR STARTERS:

- A. Coordinate with other work, including motor and electrical wiring/cabling work, as necessary to interface installation of motor starters with other work.
- B. Install fuses in fusible disconnects.
 - 1. Refer to Division 26 Section "Low Voltage Circuit Protective Devices" for responsibility of fuse provisions.
 - 2. Provide fuse size per drawings; if fuse size is not indicated on drawings, size fuses per nameplate data, not to exceed 125 percent of motor full load amps for 1.15 service factor motors, and 115 percent for 1.00 service factor motors. Fuses above 600 amps rating for motors shall be sized up to 150 percent of motor full load amps. Refer abnormal motor starting conditions to Owner's representative.
 - 3. Provide thermal overload protection for motor starters furnished by Owner which are not part of the OEM equipment. Overload protection should be selected based on full load amp draw of motors.

END OF SECTION 26 29 00