

SECTION 260919 - ENCLOSED CONTACTORS

PART 1 - GENERAL

1.1 SUBMITTAL REQUIREMENTS

A. Product Data

1. For each type of product. Include rated capacities, operating characteristics, electrical characteristics, and furnished enclosures, specialties and accessories.

PART 2 - PRODUCTS

2.1 ENCLOSED CONTACTORS

A. Acceptable Manufacturers: Subject to being equivalent and subject to compliance with requirements, provide product by one of the manufacturers listed below.

1. Allen-Bradley Co.
2. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
3. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
4. Siemens Energy & Automation, Inc.
5. Square D; a brand of Schneider Electric.

B. Enclosed Contactors:

1. Provide NEMA standard equipment, rating as indicated on drawings or application dependent, including those incorporated as an integral part of a factory/shop pre-fabricated piece of equipment. Do not use IEC standards for equipment.
2. Provide units as indicated on drawings and as indicated under Division 26 sections.
3. Provide contactors equipped with externally-visible pilot lights and externally-operated Hand-Off-Automatic (HOA) selector switches in front cover of enclosure.
4. Wire contactors for lighting applications so that the "AUTO" position is the normal activated condition (i.e. photocell controlled, photocell/time-clock controlled, remote switch controlled, BAS controlled, etc.); so that the "OFF" position is manual override to turn lighting off; and so that the "HAND" position is manual override to turn lighting on.
5. Provide contactors with field convertible N.O./N.C. contacts and descriptive nameplates.
6. Provide lugs, lug kits and related accessory work as required to accommodate the conductor sizes and quantities needed for each application. Coordinate with associated installers, single-line diagram, field conditions, etc.
7. Electrically Held Contactors

- a. Provide contactors equal to Square D Class 8903 (or Allen-Bradley Bul. 500L-BA*94 series) for small resistance heating loads. Provide contactors that are electrically operated and electrically held (EOEH). Provide contactors in factory NEMA 1 minimum enclosures, with 120V coils (unless indicated otherwise elsewhere or otherwise required to render controls fully operable).
 - b. Provide "dry" contacts rated at 30A, unless otherwise indicated on drawings, minimum 250V (600V if required by application). Provide number of poles (minimum of three poles) and number of contactors as required for each application or as indicated on drawing, whichever is larger. Determine coil voltage ratings in field.
8. Mechanically Held Contactors
- a. Provide magnetic (mechanically latched) contactors equal to Square D Class 8502 (or Allen-Bradley Bul. 500-BA*930 series) for heating loads, capacitor loads, transformer loads, motor loads, and similar loads. Provide contactors with factory enclosures, with 120V coils (unless indicated otherwise elsewhere or otherwise required to render controls fully operable). Provide starters with holding circuit contacts (provide related interlock wiring). Provide magnetic contactors in enclosures that are NEMA Size 1 minimum.
 - b. Provide "dry" contacts rated at 30A, unless otherwise indicated on drawings, minimum 250V (600V if required by application). Provide number of poles (minimum of three poles) and number of contactors as required for each application or as indicated on drawing, whichever is larger. Determine coil voltage ratings in field.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Provide units with horsepower ratings suitable to the loads. Size units according to load being served or as noted on drawings, whichever requirement is larger.
- B. Provide NEMA 3R enclosures for units that are installed outdoors, in moist areas, and in other atmospheres subject to similar moisture or exposure. Provide other NEMA enclosure types if indicated on drawings.

END OF SECTION 260919