SECTION 16423

ENCLOSED CONTACTORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes enclosed contactors for lighting and general purposes.

1.2 REFERENCES

A. NECA (National Electrical Contractors Association) - Standard of Installation.

B. UL 489 (Underwriters Laboratories, Inc.) – Molded-Case Circuit Breakers, Mold-Case Switches and Circuit-Breaker Enclosure / NEMA AB 1 (National Electrical Manufacturers Association) - Molded Case Circuit Breakers.

C. NEMA FU 1 (National Electrical Manufacturers Association) - Low Voltage Cartridge Fuses.

D. NEMA ICS 2 (National Electrical Manufacturers Association) – Industrial Control and Systems: Controllers, Contactors, and Overload Relays Rated Not More Than 2000 Volts AC or 750 Volts DC.

E. NEMA ICS 5 (National Electrical Manufacturers Association) - Industrial Control and Systems: Control Circuit and Pilot Devices.

F. NEMA ICS 6 (National Electrical Manufacturers Association) - Industrial Control and Systems: Enclosures.

G. NEMA KS 1 (National Electrical Manufacturers Association) - Enclosed and Miscellaneous Distribution Equipment Switches (600 Volts Maximum).


1.3 SUBMITTALS

A. Section 01330 - Submittal Procedures.

B. Product Data: Submit dimensions, size, voltage ratings and current ratings.

1.4 CLOSEOUT SUBMITTALS

A. Section 01770 - Closeout and turnover procedures.

B. Project Record Documents: Record actual locations and ratings of enclosed contactors.
C. Operation and Maintenance Data: Submit instructions for replacing and maintaining coil and contacts.

1.5 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

PART 2 - PRODUCTS

2.1 GENERAL PURPOSE CONTACTORS

A. Product Description: NEMA ICS 2, AC general purpose magnetic contactor.

B. Coil operating voltage: 120 volts or less, 60 Hertz.

C. Poles: As required to match circuit configuration and control function.

D. Product Features:

2. Selector Switch: ON/OFF/AUTOMATIC.
3. Indicating Light: Amber lens, led lamp.
4. Auxiliary Contacts: Two field convertible in addition to seal-in contact.

E. Combination Contactors: Combine contactors with thermal magnetic circuit breaker conforming to UL 489, with integral thermal and instantaneous magnetic trip in each pole.

F. Enclosure: NEMA ICS 6, as required to meet conditions. Provide listed enclosure from steel finished with manufacturer's standard gray enamel

1. Interior Dry Locations: Type 1.
2. Exterior Locations: Type 3R

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install enclosed contactors where indicated, in accordance with NECA "Standard of Installation."

B. Install enclosed contactors plumb. Provide supports as specified elsewhere in Electrical specifications.

C. Height: 5 ft to operating handle.
D. Provide engraved plastic nameplates as specified elsewhere in Electrical specifications.

3.2 FIELD QUALITY CONTROL

A. Inspect and test in accordance with NETA ATS, except Section 4.

B. Perform inspections and tests listed in NETA ATS, Section 7.16.1.

3.3 EXISTING WORK

A. Disconnect abandoned enclosed contactors and remove abandoned enclosed contactors. All existing enclosed contactors which are to be reused or reinstalled shall be cleaned and repaired.

B. Ensure access to existing enclosed contactors and other installations which remain active and which require access. Modify installation or provide access panel as appropriate.

END OF SECTION