**SECTION 26 09 19**

**ENCLOSED CONTACTORS**

**BASED ON DFD MASTER ELECTRICAL SPEC DATED 03/01/21**

This section has been written to cover most (but not all) situations that you will encounter. Depending on the requirements of your specific project, you may have to add material, delete items, or modify what is currently written. The Division of Facilities Development expects changes and comments from you.

**PART 1 - GENERAL**

**SCOPE**

The work under this section includes enclosed contactors. Included are the following topics:

PART 1 - GENERAL

 Scope

 Related Work

 References

 Submittals

 Project Record Documents

 Operation and Maintenance Data

 Regulatory Requirements

PART 2 - PRODUCTS

 Contactors

 Accessories

PART 3 - EXECUTION

 Installation

 Schedule

RELATED WORK

Applicable provisions of Division 1 govern work under this Section.

Section 01 91 01 or 01 91 02 – Commissioning Process

**REFERENCES**

NEMA ICS 2 – Controllers, Contactors and Overload Relays Rated 600 V

NEMA ICS 5 – Industrial Control and Systems, Control Circuit and Pilot Devices

ANSI/NEMA ICS 6 – Industrial Control and Systems: Enclosures

**SUBMITTALS**

Product Data: Include dimensions, size, voltage ratings, current ratings, enclosure type and NEMA sizes.

**PROJECT RECORD DOCUMENTS**

Accurately record actual locations of each contactor and indicate circuits controlled.

**OPERATION AND MAINTENANCE DATA**

All operations and maintenance data shall comply with the submission and content requirements specified under section GENERAL REQUIREMENTS.

**REGULATORY REQUIREMENTS**

Furnish products listed and classified by Underwriters Laboratories Inc., or ETL as suitable for purpose specified and shown.

**PART 2 - PRODUCTS**

**CONTACTORS**

Description: NEMA ICS 2, magnetic contactor, 100% rated.

***Mechanically held contactors with 2-wire control are specified. The longevity of mechanically held contactors is better because the coils on electrically held contactors will fail since the coils are energized over long periods of time. Mechanically held contactors with 2-wire control will work in most situations where electrically held contactors are typically used. Edit to electrically held contactors if necessary.***

Configuration: Mechanically held with 2-wire control. Provide with 2-wire interface for mechanically held contactors.

Coil Voltage: 120-volts, 60-Hertz, or as indicated on the plans.

Poles: Three, or as indicated on the plans.

Contact Rating: 30-amperes, or as indicated on the plans.

**ACCESSORIES**

Enclosure: ANSI/NEMA ICS 6, Type 1, or as indicated on the plans.

Selector Switch: NEMA ICS 5, general duty type HAND-OFF-AUTOMATIC (H-O-A).

Indicating Light: NEMA ICS 2, red LED push-to-test type.

Auxiliary Contacts: NEMA ICS 5, Class [A300] [A600], one (1) set of field convertible contacts.

Two-wire interface: provide with two-wire interface for mechanically held contactors.

**PART 3 - EXECUTION**

**INSTALLATION**

Install in accordance with manufacturer's instructions.

The installation must be accessible. The preferred location shall be in the electrical or the mechanical rooms or as shown on the drawings.

***The engineer shall provide a schedule on drawings.***

**SCHEDULE**

See Drawings.

END OF SECTION