**SECTION 26 09 00**

**ELECTRICAL INSTRUMENTATION and CONTROL**

**PART 1 GENERAL**

1. SECTION INCLUDES
	1. General purpose contactors
	2. Lighting contactors
2. REFERENCES
	1. NEMA ICS 6 ‑ Enclosures for Industrial Controls and Systems
	2. NEMA ICS 2 ‑ Controllers, Contactors and Overload Relays Related to 600V
	3. NFPA 70 ‑ National Electrical Code
3. SUBMITTALS
	1. Submit under provisions of Section 01 33 00.
	2. Product Data: Include dimensions, size, voltage ratings, and current ratings.
4. PROJECT RECORD DOCUMENTS
	1. Submit under provisions of Section 01 77 00.
	2. Accurately record actual locations of each contactor and indicate circuits controlled.
5. OPERATION AND MAINTENANCE DATA
	1. Submit under provisions of Section 01 77 00.
	2. Maintenance Data: Include instructions for replacing and maintaining coil and contacts.
6. QUALIFICATIONS
	1. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years experience.

**PART 2 PRODUCTS**

1. MANUFACTURERS ‑ GENERAL PURPOSE CONTACTORS
	1. Square D
	2. General Electric
	3. Allen-Bradley
	4. Cutler Hammer
	5. Siemens/ITE
2. GENERAL PURPOSE CONTACTORS
	1. Description: NEMA ICS 2 AC general-purpose magnetic contactor
	2. Coil Voltage: 120 volts, 60 Hertz
	3. Poles: As indicated
	4. Size: As indicated
	5. Enclosure: NEMA ICS 6, Type as required to meet conditions of installation, unless indicated on the Drawings.
	6. Accessories:
		1. Pushbutton: ON/OFF
		2. Selector Switch: ON/OFF
		3. Indicating Light: RED
		4. Auxiliary Contacts: Field convertible
3. MANUFACTURERS ‑ LIGHTING CONTACTORS
	1. Square D
	2. General Electric
	3. Allen-Bradley
	4. Cutler Hammer
	5. Siemens/ITE
4. LIGHTING CONTACTORS
	1. Description: NEMA ICS 2 magnetic lighting contactor
	2. Configuration: Electrically held or mechanically held 3-wire control.
	3. Coil Voltage: 120 volts, 60 Hertz
	4. Poles: As indicated
	5. Contact Rating: Match the branch-circuit over-current protection, take-in consideration the de-rating for continuous loads.
	6. Enclosure: NEMA ICS 6, Type as required to meet conditions of installation unless indicated on the Drawings.
	7. Accessories:
		1. Selector Switch: ON/OFF/AUTOMATIC
		2. Indicating Light: RED
		3. Auxiliary Contacts: Field convertible
5. ACCESSORIES
	1. Pushbuttons and Selector Switches: NEMA ICS 2 heavy-duty type
	2. Indicating Lights: NEMA ICS 2 transformer type
	3. Auxiliary Contacts: NEMA ICS 2 Class A300 or A600

**PART 3 EXECUTION**

1. INSTALLATION
	1. Install in accordance with manufacturer's instructions.

END OF SECTION