

SECTION 16487
CONTACTORS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. General purpose contactors.
- B. Lighting contactors.

1.2 REFERENCES

- A. ANSI/NEMA ICS 6 - Enclosures for Industrial Controls and Systems.
- B. NEMA ICS 2 - Industrial Control Devices, Controllers, and Assemblies.
- C. ANSI/NFPA 70 - National Electrical Code.

1.3 QUALITY ASSURANCE

- A. Contactors shall be of the latest approved design as manufactured by Square D Company to match equipment provided in C Concourse Phase 2 Building Completion Package. Equipment shall be listed in the Underwriters' Laboratory and bear the UL label.
- B. Contactors of each type provided shall include the features as required by the application.

PART 2 - PRODUCTS

2.1 CONTACTOR FEATURES - GENERAL

A. ENCLOSURES

- 1. Enclosures shall be ANSI/NEMA ICS 6, Type 1.

B. ACCESSORIES

- 1. Provide the following accessories as indicated for each contactor:
 - a. Pushbutton: ON/OFF. NEMA ICS 2, heavy duty type.
 - b. Selector Switches: ON/OFF or HAND/OFF/AUTOMATIC. NEMA ICS 2, heavy duty type.
 - c. Indicating Lights: NEMA ICS 2, push-to- test type.
 - d. Auxiliary Contacts: field convertible, quantity indicated.
 - e. Other: as indicated.

C. Coil Voltages: 120 volts, 60 Hz.

D. Poles: As required for the specific application.

E. Contact Rating: as required to meet conditions of the installation.

F. Size: As required by the load.

G. Configuration: Provide types as required by the application:

1. Electrically held shall have continuously rated, encapsulated coils.
2. Mechanically held shall be electrically operated with encapsulated coils. Standard coil clearing contacts are to be provided so that the contactor coils shall be energized only during the instance of operation.

2.2 GENERAL PURPOSE CONTACTORS

- A. Square D Company - 8502 Type S
- B. Description: NEMA ICS 2, AC general purpose magnetic contactor.
- C. Coil: encapsulated type.
- D. Contacts: Totally enclosed, double-break silver-cadmium-oxide power contacts. Contact inspection and replacement shall be possible without disturbing line or load wiring.
- E. Wiring: Straight-through wiring with all terminals clearly marked.

2.3 POWER LIGHTING CONTACTORS

- A. Square D Company - 8903 Type S.
- B. Description: NEMA ICS 2, magnetic lighting contactor.
- C. Wiring: Straight-through wiring with all terminals clearly marked.
- D. Disconnect Means: Contactor shall not provide the disconnecting means in the same enclosure.

2.4 MULTIPOLE LIGHTING CONTACTORS

- A. Square D Company - 8903 Type L & LX.
- B. Description: magnetic lighting contactor.
- C. Contact Rating: 20 amperes for all types of ballast and tungsten lighting, resistive heating, and motor loads.
- D. Contacts: Totally enclosed, double-break silver-cadmium-oxide power contacts. Contact inspection and replacement shall be possible without disturbing line or load wiring. All contacts shall have clearly visible N.O. and N.C. contact status indicators.
- E. Wiring: Straight-through wiring with all terminals clearly marked.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

END OF SECTION