Specification Number: 26 28 16.15
Product Name: CIRCUIT BREAKER ENCLOSURES

SECTION 26 28 16.15
CIRCUIT BREAKER ENCLOSURES
PART 1 GENERAL

1.01 SECTION INCLUDES

A. Circuit breaker enclosures shall be furnished and installed at locations as shown on the drawings. Enclosures shall be of the type approved, indicated, and specified herein.

1.02 REFERENCES

Circuit breaker enclosures shall be manufactured in accordance with the following standards:

A. UL®489 - Molded Case Circuit Breakers and Circuit Breaker Enclosures

B. UL® 50 - Cabinets and Boxes

C. NEMA® 250 - Enclosures for Electrical Equipment

1.03 SERVICE ENTRANCE

A. Circuit breaker enclosures identified for use as service equipment are to be labeled for this application.

1.04 SUBMITTALS

A. Provide outline drawings with dimensions, voltage, amperage, and integrated equipment short circuit current ratings.

PART 2 PRODUCT

2.01 MANUFACTURERS

A. Circuit breaker enclosures shall be manufactured by Square D®/Schneider Electric [no equal] [or approved equal].

2.02 OPERATING MECHANISM

A. The circuit breaker operating handle shall be [externally operable with the operating mechanism being an integral part of the box, not the cover (circuit breakers through 1000 amperes in Type 4-4X-5 stainless steel, 12, 12K [directly operable through the front cover of the enclosure (Type 1)] [directly operable through the dead front trim of the enclosure (Type 3R)] [externally operable with the operating mechanism being an integral part of the cover (Type 7, 9)].

B. Provisions for padlocking the circuit breaker in the OFF position shall be provided.

C. Enclosures designated as Type 4-4X-5 stainless steel, 12, or 12K shall have a dual cover interlock mechanism to prevent unintentional opening of the enclosure cover when the circuit breaker is ON and prevent turning the circuit breaker ON when the enclosure cover is open. The cover interlock mechanism shall have an externally operated override but the override shall not permanently disable the interlock mechanism. The tool used to override the cover interlock mechanism shall not be required to enter the enclosure in order to override the interlock.

2.03 ENCLOSURE

A. Enclosure covers shall be [attached with pin-type hinges (Type 4-4X-5 stainless steel, 12, 12K)] [top or side hinged (Type 3R)] [attached by type 316 stainless steel bolts (Type 7, 9)].

B. The enclosure shall be finished with [gray baked enamel paint which is electrodeposited on cleaned, phosphatized steel (Type 1)] [gray baked enamel paint which is electrodeposited on cleaned, phosphatized galvannealed steel (Type 3R, 12, 12K)] [A brush finish on Type 304 stainless steel (Type 4-4X-5 stainless steel)] [copper free cast aluminum alloy (Type 7, 9)].

C. The external operating handle shall be provided with a dual colored, red/black indicating handle knob [Type 4-4X-5 stainless steel, 12 and 12K for circuit breaker enclosures rated through 1000 amperes].

D. Tangential knockouts shall be provided to facilitate ease of conduit entry (Type 1, 3R, 12K) through 225 amperes.

E. Type 12 and 4-4X-5 stainless steel enclosures shall contain no knockouts; supply watertight hubs as indicated on the plans.

F. Type 7 and 9 enclosures shall be provided with threaded conduit openings in both endwalls.

G. Enclosures for Type 3R application through 225 amperes shall have provisions for interchangeable bolt-on hubs in the top endwall. Hubs shall be Square D/Schneider Electric B-Type hubs sized as indicated on the plans.

H. Cover sealing means for enclosures rated through 1200 ampere shall be quick-release trunk latches (Type 4-

4X-5 stainless steel, 12, and 12K).

I. Type 12, 4-4X-5 enclosures shall be dual rated as Type 3R to facilitate their use in outdoor applications.

2.04 ENCLOSURE RATINGS

A. The integrated equipment short circuit current rating shall be equal to the interrupting rating at the supply voltage marked on the circuit breaker installed, up to 200,000 rms symmetrical amperes short circuit current, or as shown on enclosure wiring diagram.

PART 3 EXECUTION
NOT USED