

SECTION 26 17 13
ELECTRICITY METERING, MULTI-TENANT (2-6 Tenants)

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish and install multi-tenant metering of the types, sizes and quantities indicated on the contract drawings. Provide all lugs and accessories necessary for proper installation and operation.

1.2 RELATED DOCUMENTS

- A. All drawings and general provisions of the Contract including Division 1 requirements apply to this section.
- B. *[The following sections shall be adhered to in the performance of work specified by this section:*
 - 1. *Section [26 28 16] [16410] – Molded Case Breakers]*

1.3 SUBMITTALS

- A. Provide product information prior to fabrication and installation. Product data shall include all dimensions, electrical ratings and maintenance data (if applicable).

1.4 RELATED STANDARDS

- A. The multi-tenant metering and all accessories shall be designed, manufactured and tested in accordance with the latest applicable standards of the following:
 - 1. ANSI Standard #C 12.7 - 1987
 - 2. NEMA Standard #250 - 1985
 - 3. UL50, UL67, UL414
 - 4. NEC

1.5 QUALITY ASSURANCE

- A. The meter center manufacturer shall also be the manufacturer of the circuit breakers.
- B. Manufacturer shall have produced similar electrical equipment for a minimum period of 10 years.
- C. Products shall be listed by Underwriters Laboratories, Inc.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Handle and store equipment in accordance with manufacturer's Installation and Maintenance Manuals. One (1) copy of this document to be provided with the equipment at time of shipment.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The multi-tenant metering shall be All-In-One Pak Metering provided by Siemens or pre-approved equal. Approved manufacturers are as follows:
 - 1. SIEMENS
 - 2. []

2.2 GENERAL REQUIREMENTS

- A. The metering specified herein shall be designed and constructed for use in small commercial buildings or small apartments. The metering shall have a compact, pre-bussed all-in-one construction designed for [2] [3] [4] [5] [6] tenants.

- B. The cabinets shall have an individual covers for incoming wiring, meter sockets and the breaker section.
- C. The meter socket devices shall have individual covers of *[ring] [ringless]* style design. Meter sockets shall have a barrel-locking, padlocking, wire hasp or other sealing provision.
- D. The sockets shall be rated *[125] [200]* amps continuous and 120/240 volts at 1 phase, 3 wire. They shall also include, where required by code, the following:
 - 1. 5th jaw.
 - 2. Horn Bypass.
- E. All current carrying parts shall be resistant to corrosion.

2.3 ENCLOSURES

- A. The multi-tenant metering shall be continuous duty rated. The enclosure shall be NEMA 3R.
 - 1. Outdoor enclosures shall be UL Listed and NEMA 3R rated fabricated from zinc-coated G90 steel and painted with an ANSI 61 light gray paint applied by electro-deposition process. *The enclosures shall be mounted [flush] [semi-flush] [as shown on the drawings.]*

2.4 FACTORY TESTING

- A. Standard factory tests shall be performed on the equipment in accordance with the latest version of applicable NEMA and UL standards.

2.5 *[ARC FLASH [DELETE ONE OR BOTH OF THE FOLLOWING SENTENCES ON ARC FLASH]*

- A. *[Apply in the field, the factory supplied arc flash warning label to all meter centers that are in other than dwelling occupancies and are likely to require examination, adjustment, servicing, or maintenance while energized to warn qualified persons of potential electrical arc flash hazards.]*
- B. *[Provide a complete arc flash study of the entire electrical system from the point of incoming service to all panelboards rated 240V at 10 kaic or greater. Labels shall include the arc flash boundary in feet, hazard category and a list of appropriate PPE.]*

PART 3 - EXECUTION

3.1 INSTALLATION

- A. The contractor shall install all equipment in accordance with the contract drawings and manufacturers recommendations.

3.2 ADJUSTMENTS AND CLEANING

- A. The contractor shall install the necessary accessories in order to place the multi-tenant metering in final operating condition.

3.3 TESTING

- A. Check tightness of all accessible mechanical and electrical connections to assure they are torqued to the minimum acceptable manufacture's recommendations.
- B. Check for proper grounding, fastening and alignment.

3.4 WARRANTY

- A. Equipment manufacturer warrants that all goods supplied are free of non-conformities in workmanship and materials for one year from date of initial operation, but not more than eighteen months from date of shipment.

END OF SECTION