

SECTION 26 27 13 ELECTRICITY METERING, SINGLE SOCKET

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish and install single position meter sockets 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 single position meter sockets and all accessories shall be designed, manufactured and tested in accordance with the latest applicable standards of the following:
 - 1. UL414- Meter Sockets
 - 2. UL50 - Enclosures for Electrical Equipment
 - 3. UL 486 - Wire Connectors
 - 4. NEC
 - 5. ANSI C12.7

1.5 QUALITY ASSURANCE

- A. Manufacturer shall have produced similar electrical equipment for a minimum period of 10 years.
- B. *[Products shall be listed by Underwriters Laboratories, Inc.]*

1.6 DELIVERY, STORAGE AND HANDLING

- A. Products shall be handled and stored in accordance with manufacturer's recommendations.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The single position socket shall be manufactured by Siemens or pre-approved equal. Approved manufacturers are as follows:
 - 1. SIEMENS
 - 2. *[]*

2.2 GENERAL REQUIREMENTS

- A. 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.
- B. The sockets shall be rated *[135] [200] [320] [400]* amps continuous. Up to *[300] [600]* volts at *[1 phase, 3 wire] [3 phase, 4 wire]*. The sockets shall include *[5th jaw] [horn bypass] [lever bypass] [manual/bolt-on bypass]* where required by code.

- C. All current carrying parts shall be tin plated or equivalent to resist corrosion. Lugs shall be *[extruded aluminum lay-in type design] [lay-in type, box lugs] [crimp/compression lugs]* and shall be suitable for use with 60/75 degree C *[copper] [aluminum]* wire.
- D. Line side meter jaws for non lever-bypass sockets shall have meter guides and all meter jaws shall be made from copper alloy. Non lever bypass socket jaws shall be spring reinforced mounted to a special thermoset insulating block.

2.3 SWITCH ENCLOSURES

- A. The single position meter sockets shall be continuous duty rated. Outdoor enclosures shall be fabricated from zinc-coated steel finish or 3003 grade aluminum *[with] [without]* an ANSI light gray paint applied by electro-deposition process.

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 single position meter sockets in final operating condition.

3.3 TESTING

- A. 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