

Customer Owned Meter Socket Specifications

Enclosure Construction

Steel enclosures shall be a minimum of G-90 galvanized steel. All edges shall be smooth after forming. Enclosure shall be painted after fabrication. Finish coat shall be a minimum of 2 mils thickness and provide a tough, non-chalking weather resistant finish. Construction shall be in accordance with ANSI/UL50. Outdoor enclosures shall be rated Type 3R. Mounting bosses shall provide 0.125 inch minimum air space between back of the socket and the mounting surface. Meter socket sealing shall be provided by minimum 304 stainless steel latch and rivet with provision for 3/8 inch padlock and/or ribbon seal.

Protection

Enclosures shall be designed to protect personnel against accidental contact with the electrical devices. Guard against unauthorized use of electric service and be equipped with Barrel lock provision 7/8 inch on each cover and cannot be opened without either breaking the seal or visibly damaging the enclosure.

Socket Jaws

Block assemblies shall be replaceable from the front. Current carrying socket jaws shall be reinforced and have meter blade guides. Socket jaws shall be tin plated, capable of carrying full rated (continuous) current and withstand the mechanical and heat rise requirements of ANSI/UL 414.

Terminal Connectors

Terminal connectors shall be suitable for use with aluminum and copper conductors. Connectors shall be tin plated and capable of carrying full rated (continuous) current and withstand the mechanical and heat rise requirements of ANSI/UL 486B.

UL Listing

All meter sockets shall be Underwriters Laboratories Listed and labeled as such.

100 and 200 amp 4 terminal meter sockets shall have provisions for a 5th terminal and bypass horns for utilities use for manual bypass using jumper cables. When a 5th terminal is required it shall be installed in the 9 o'clock position and securely tied to the neutral. All sockets shall have a double lay-in for the neutral connection. 200 amp underground socket shall have one set of concentric knockouts in bottom left for 3 inch conduit and be of the side wire/bused design for straight in wiring. The left side will be for the line side and the right load side. These meter sockets will be ringless style.

100-125 amp meter socket is prohibited for use on underground in AEP East. 100-125 amp meter socket is prohibited for use in AEP West.

200 amp 5 and 7 terminal and all 320 amp meter sockets shall have a good quality jaw release manual operated bypass which is 100% rated. Meter sockets, multigang sockets, and meter pedestals will be ringless style. 200 amp 4 terminal commercial meter sockets shall have a good quality jaw release manual operated bypass which is 100% rated.

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All meter sockets, multigang sockets, and meter pedestals will be ringless style. Socket/breaker combinations or multi-gang polyphase sockets shall be approved by local supervision.

Metering equipment shall have a barrel lock provision.

Corrosive Environments

Corrosive areas are installations within 30 miles of the Texas Gulf of Mexico coast and any other area where high moisture or chemical exposure may exist such as chemical plants or water treatment plants. Enclosure shall be of aluminum construction. Bottom front lip to be continuous fold up with slot cut for stainless steel hasp. Latch, rivet, hasp and exposed hardware will be minimum 316 series stainless steel. A minimum of five welds on the back and three welds on the sides, top, and bottom.

Additional Notes:

- AEP does not support the use of K-base meter bases.
- AEP does not support the use of anti-inversion feature on 320 amp meter sockets.