

CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT

PURCHASE SPECIFICATION

FOR

SEVEN-TERMINAL, 200 AMP, THREE-PHASE METER SOCKET

DATE	PREPARED BY	ISSUANCE/REVISION	APPROVAL PROCESS MANAGER/ STDS. SUPV.
01/30/76	Max Kretschmer	Issuance	
01/25/89	Robin Kittel	Revision	Brian K. Davison / Richard C. Dreiss
01/25/99	Carlos Tello	Revision	
05/17/99	Herman Millican	Revision	
08/18/99	Herman Millican	Revision	
11/30/2009	Carlos Tello	Revision	
07/13/2010	Carlos Tello	Revision	
03/10/2011	Carlos Tello	Revision	
05/24/2011	Carlos Tello	Revision	
02/5/2013	Steve Booher	Revision	

REASON FOR REVISION	AFFECTED PARAGRAPHS
Add OH/UG requirement	1.2
Change minimum wiring space	5.8
Add barcode requirement	7.3, Attachment 1, Table 1
Remove barcode requirement	7.3, Attachment 1, Table 1
Add 3" to knockout	5.7
Matched knockouts	5.7

This specification, until rescinded, shall apply to each future purchase and contract for the commodity described herein.
Retain for future reference.

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FOR
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1.0 SCOPE AND CLASSIFICATIONS

- 1.1 The City of Austin Electric Utility Department is hereinafter referred to as Austin Energy (AE). This specification establishes the minimum requirements for 200 amp, three-phase meter sockets.
- 1.2 The items purchased under these specifications shall be seven terminal, three-phase, meter sockets for overhead and underground services.

2.0 APPLICABLE SPECIFICATIONS/STANDARDS

- 2.1 All materials, construction, and testing shall be in accordance with the American National Standards Institute (ANSI) C12.7, Requirements for Watthour Meter Sockets.

3.0 FUNCTIONAL REQUIREMENTS

- 3.1 The meter sockets supplied under these specifications shall be used to protect external metering connections in electric service installations.

4.0 PERFORMANCE REQUIREMENTS

- 4.1 The meter socket shall have a 200-ampere, 600-volt capacity.
- 4.2 Terminal jaws shall be equipped with a by-pass feature operable by use of a by-pass lever, which controls the clamping of the meter blades (Jaw release). By-pass current capacity shall be 200-Amperes continuous

5.0 MATERIAL REQUIREMENTS

- 5.1 The enclosure shall be made of 16-gauge galvanized steel or 14-gauge aluminum with baked-on gray finish with the letters "ALP" indented on the external side of the enclosure with ¼ inch minimum size letters.
- 5.2 The enclosure shall have a weatherproof-ringless cover with a latch arrangement for the application of padlock type seals, used to secure enclosure.
- 5.3 Connectors shall be electrolytic, tin-plated copper or extruded aluminum. The connectors shall be 300 MCM lay-in type connectors. The connector screw shall be cadmium plated with 1/2" external hex head. The ground terminal shall be the double lay-in type arranged so that the meter potential lead may be separately attached. Each connector shall be installed with approved inhibitors.
- 5.4 Terminal jaws shall be reinforced at the base at a 90-degree bend.
- 5.5 The insulator shall be composed of rosite, phenolic-fiberglass or equivalent material, which is non-tracking and rated for 600 volts (ceramic material not acceptable).
- 5.6 The top of the enclosure shall be punched to accommodate a maximum of 2-1/2" approved unit hub. The enclosure shall be equipped with a mounted hub, sized according to order. The hub shall meet latest revision of Industry MSJ7-NEMA standards so it may interchange with several manufacturers' meter sockets.

5.7 Knockouts shall be required for IPS conduit. The knockout arrangement for the enclosure shall be as follows:

- * One 1 1/2", 2", 2 1/2" and 3" knockout at the center of the bottom with a 1" knockout on either side.
- * One 1/4" knockout for ground wire on the bottom of the enclosure.
- * One 1 1/2", 2", 2 1/2" and 3" knockout at the center of the bottom of the back of the enclosure.
- * One 1 1/2", 2", 2 1/2" knockout at the bottom of each side of enclosure.

No knockouts shall be above any energized surfaces with meter in place.

5.8 Minimum inside dimensions of the enclosure shall be sufficient to provide ample room for the distribution of the maximum-size conductors for which the socket is intended. Internal wiring space shall be such as to allow line or load conductors, or both, entering either or both ends of the enclosure to be readily routed to the proper terminals.

6.0 DESIGN DRAWINGS

6.1 The Vendor shall provide the Austin Energy Metering Operations Section at the beginning of each year in the month of January, drawings for all applicable meter sockets regardless of whether revisions have been made to the drawings. 6.2 The Vendor shall provide revised drawings to the Austin Energy Metering Operations Section as soon as the drawings are revised.

7.0 OTHER REQUIREMENTS

7.1 No deviation from this specification on the part of the supplier will be allowed.

7.2 Any items supplied under this specification not in complete compliance with this specification shall be unacceptable.