

CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT

PURCHASE SPECIFICATION

FOR

FOUR TERMINAL, 200 AMP, SINGLE PHASE METER SOCKET

DATE	PREPARED BY	ISSUANCE/REVISION	APPROVAL PROCESS MANAGER/ STDS. SUPV.
01/30/76	Max Kretschmar	Issuance	_____
01/25/99	Carlos Tello	Revision	_____
05/10/99	Herman Millican	Revision	_____
08/18/99	Herman Millican	Revision	
07/13/2010	Carlos Tello	Revision	
03/10/2011	Carlos Tello	Revision	
04/24/2011	Carlos Tello	Revision	
02/5/2013	Steve Booher	Revision	
06/18/2020	Abdur Rahman	Revision	<i>Scott Larson</i>

REASON FOR REVISION	AFFECTED PARAGRAPHS
Add five terminal requirement	1.2
Add preferred by-pass type	4.2
Remove letter indentation requirement	5.1
Specify 5 th terminal factory install requirement	5.9
Update business unit name	6.1, 6.2

This specification, until rescinded, shall apply to each future purchase and contract for the commodity described herein.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

- 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, single phase meter sockets.
- 1.2 The items purchased under these specifications shall be five terminal, single 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 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 that controls the clamping of the meter blades (Jaw release). AE prefers a bar type lever by-pass. By-pass current capacity shall be 200 Amperes continuous.

5.0 MATERIAL REQUIREMENTS

- 5.1 The enclosure shall be fabricated of 16 gauge galvanized steel, or 14 gauge aluminum with baked on gray finish.
- 5.2 The enclosure shall have a weatherproof/ringless cover with a padlocking latch arrangement for securing the enclosure.
- 5.3 The connectors shall be 300 MCM lay-in type, made of electrolytic copper, tin plated or extruded aluminum. The connector screw shall be cadmium plated with 1/2" external hex head. The ground terminal shall be double lay-in type and shall be arranged in a manner that will allow potential leads to be separately attached. Each connector shall be installed with approved inhibitors.
- 5.4 Terminal jaws shall be reinforced at the base at the 90-degree bend.
- 5.5 The insulator shall be fabricated of rosite, phenolic-fiberglass or equivalent material, be non-tracking and rated for 600 volts, (ceramic material not acceptable).
- 5.6 The top of the enclosure shall be punched to accommodate a 2 1/2" (maximum size) approved hub unit. The hub shall meet latest revision of Industry MSJ-7-NEMA standards and shall be interchangeable with other 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", and 2 1/2" knockout at the bottom of each side of enclosure.

Knockouts shall not be above any energized surfaces with the 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.

5.9 Fifth terminal shall be factory installed by manufacturer in the 9 o'clock position. The kit for the fifth terminal is unacceptable.

6.0 DESIGN DRAWINGS

6.1 The Vendor shall provide AE Advanced Metering Systems & Engineering, 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. Failure to provide these drawings will result in the rejection of the Vendor from the Qualified Products List (QPL).

6.2 The Vendor shall provide revised drawings to AE Advanced Systems & Engineering 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.