CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT

PURCHASE SPECIFICATION

FOR

SINGLE PHASE METER SOCKET, CLASS 320

DATE	PREPARED BY	ISSUANCE/REVISION	APPROVAL PROCESS MANAGER/STANDARDS SUPV.
05/02/90		Revision	
02/22/92		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	

REASON FOR REVISION	*AFFECTED PARAGRAPHS*
Add OH/UG requirement	1.2
Change minimum wiring space	5.8
Anti-Inversion Insert	5.9
Specified inside dimensions of socket	5.8
Add barcode requirement	7.3, Attachment 1, Table 1
Remove barcode requirement	7.3, Attachment 1, Table 1

This specification, until rescinded, shall apply to each future purchase and contract for the commodity described herein.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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PURCHASE SPECIFICATION
FOR
SINGLE PHASE METER SOCKET, CLASS 320

1.0 SCOPE & 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 320 amp, single phase meter sockets.

1.2 The items purchased under these specifications shall be four 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 320 amperes, 600-volt capacity.

4.2 Terminal jaws shall be equipped with a by-pass feature operable by use a by-pass lever that controls the clamping of the meter blades (Jaw release). By-pass current capacity shall be 320 Amperes continuous.

5.0 MATERIAL REQUIREMENTS

5.1 The socket shall be fabricated of 16 gauge galvanized steel, or 14 gauge aluminum with baked on gray finish with the letters “AE” indented on the external side of the enclosure with ¼ inch minimum size letters.

5.2 All sockets shall have a weatherproof-ringless cover, with latch and approved sealing arrangement for securing the socket with a 1/4" padlock.

5.3 Terminals shall be 1/2" cold headed zinc plated steel stud to accommodate compression lugs for conductor up to 500 MCM. Tin-plated mounting plates compatible with aluminum or copper lugs.

5.4 The insulator shall be fabricated of rosite, phenolic-fiberglass or equivalent material, be non-tracking and rated for 600 volts, (ceramic material not acceptable).

5.5 Top of socket shall be punched to accommodate a 3" (maximum size) approved unit hub of specified size to be included with and mounted on socket. The hub shall meet latest revision of Industry MSJ-7-NEMA standards and shall be interchangeable with other manufacturers' meter sockets.

5.6 All sockets shall have insulated protection safety shield.

5.7 Knockouts shall be required for IPS conduit and 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. The inside dimensions of the socket shall be 15” wide, 29” tall, and 5” in depth. The dimensions shall not deviate ¼”. 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 Sockets shall be equipped with an Anti-Inversion Insert. This insert rejects normal width terminal blades (*like the ones on the class 200 meters*) from being installed in a Class 320 socket.

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. 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 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 shall be allowed.

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