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# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td></td>
<td>vii</td>
</tr>
<tr>
<td>1 Scope</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2 References</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>3 Definitions</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>3.1</td>
<td>Circuit bypass means (bypass)</td>
<td>1</td>
</tr>
<tr>
<td>3.2</td>
<td>Continuous-duty current rating</td>
<td>1</td>
</tr>
<tr>
<td>3.3</td>
<td>Continuous load</td>
<td>1</td>
</tr>
<tr>
<td>3.4</td>
<td>Meter socket (socket)</td>
<td>1</td>
</tr>
<tr>
<td>3.5</td>
<td>Meter support</td>
<td>1</td>
</tr>
<tr>
<td>3.6</td>
<td>Ringless-type meter socket</td>
<td>1</td>
</tr>
<tr>
<td>3.7</td>
<td>Ring-type meter socket</td>
<td>1</td>
</tr>
<tr>
<td>3.8</td>
<td>Socket cover</td>
<td>1</td>
</tr>
<tr>
<td>3.9</td>
<td>Socket rim</td>
<td>1</td>
</tr>
<tr>
<td>3.10</td>
<td>Socket sealing ring</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Electrical ratings</td>
<td>1</td>
</tr>
<tr>
<td>4.1</td>
<td>Current ratings</td>
<td>2</td>
</tr>
<tr>
<td>4.2</td>
<td>Voltage ratings</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Performance requirements</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Construction requirements</td>
<td>2</td>
</tr>
<tr>
<td>6.1</td>
<td>Construction and workmanship</td>
<td>2</td>
</tr>
<tr>
<td>6.2</td>
<td>Marking</td>
<td>2</td>
</tr>
<tr>
<td>6.3</td>
<td>Enclosures</td>
<td>2</td>
</tr>
<tr>
<td>6.3.1</td>
<td>Protection</td>
<td>2</td>
</tr>
<tr>
<td>6.3.2</td>
<td>Construction</td>
<td>3</td>
</tr>
<tr>
<td>6.3.3</td>
<td>Enclosure materials</td>
<td>3</td>
</tr>
</tbody>
</table>
6.3.4 Mounting bosses .........................................................................................3
6.3.5 Wiring space ...............................................................................................3
6.4 Conduit connections and knockouts .............................................................3
6.5 Limiting dimensions and relative locations of functional parts ....................4
6.6 Terminal connectors ....................................................................................5
6.7 Circuit closing means (bypass) .....................................................................5
6.7.1 Horn bypass ............................................................................................5
6.8 Sealing ..........................................................................................................5
6.9 Sectional and multiple-opening trough-type sockets ......................................6
6.9.1 Structural types .......................................................................................6
6.9.2 Covers .....................................................................................................6
6.9.3 Meter position spacings ..........................................................................6
6.10 Socket sealing .............................................................................................6
6.10.1 General ..................................................................................................6
6.10.2 Dimensions and tolerances .....................................................................6
6.10.3 Facilities for sealing ................................................................................6
6.11 Watthour meter/ringless socket interference ...............................................6
6.12 Metric conversion .......................................................................................7
6.13 Safety alert markings ..................................................................................7

Tables
1 Knockout and bushing dimensions ..................................................................4

Figures
1 Limiting dimensions of socket rim .................................................................8
2 Limiting dimensions and positions of socket jaws .........................................9
3 Location of socket jaws (front view) ...............................................................10
4 Socket-jaw position identification ................................................................11
5 Internal voltage connections of 13-, 14-, and 15-jaw sockets ........................................... 12
6 Socket-sealing-ring dimensions ........................................................................................... 13
7 Hole dimensions to accommodate sealing means ............................................................ 14
8 Provisions for interchangeable gasketless hubs ............................................................ 15
9 Horn bypass ......................................................................................................................... 16
A1 Envelope of surfaces that project into socket for 4- to 6-terminal meters .................... 18
A2 Envelope of surfaces that project into socket for 5-terminal meters
   in 7-terminal sockets ......................................................................................................... 19
A3 Envelope of surfaces that project into socket for 7- to 8-terminal meters .................. 20
A4 Envelope of surfaces that project into socket for 8-terminal and
   13- to 15-terminal meters .............................................................................................. 21
A5 Mounting and terminal dimensions for detachable single-element and
   multi-element watthour meters with 4 to 8 terminals .................................................. 22
A6 Mounting and terminal dimensions for detachable multi-stator watthour
   meters with 8 terminals and 13 to 15 terminals .......................................................... 23
A7 Envelope of round covers for detachable single element and multi-element watthour
   meters ............................................................................................................................. 24

Annex

A Limiting dimensions and tolerances of watthour meters .......................................... 17
Foreword (This Foreword is not part of American National Standard C12.7-2005.)

This standard was developed by subcommittee 15 and balloted by the Accredited Standards Committee on Electricity Metering, C12, for full consensus approval as an American National Standard. This revised version supersedes ANSI C12.7-1987. Certain performance requirements covered by the latest revision of Underwriters Laboratories Standard for Safety on Meter Sockets have been adopted and referred to in this standard. Information on subsequent revisions of these provisions can be obtained through the Underwriters Laboratories Subscription Revision Service.*

This standard covers the dimensions and functions of meter test switches for transformer-rated watthour meters when used in conjunction with instrument transformers.

Suggestions for improvements of this standard will be welcomed. They should be in the form of a proposed change of text, together with appropriate supporting comments.

Comments on standards and requests for interpretations should be addressed to:

ANSI Committee C12 Secretary
National Electrical Manufacturers Association
1300 North 17th Street
Rosslyn, Virginia 22209

At the time this standard was completed, the American National Standards Committee C12 had the following membership:

Tom Nelson, Chairman
Carin Bernstiel, Secretary

<table>
<thead>
<tr>
<th>Organization Represented</th>
<th>Name of Representative</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
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</tr>
</tbody>
</table>

* Available from Underwriters Laboratories, Inc. 333 Pfingsten Road, Northbrook, IL 60062-2096, USA.
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Requirements for Watthour Meter Sockets

1 Scope
This standard covers the general requirements and pertinent dimensions applicable to watthour meter sockets rated up to and including 600 V and up to and including 320 A continuous duty per socket opening.

2 References
This standard shall be used in conjunction with the following standards. When the following standards are superseded by an approved revision, the revision shall apply.

3 Definitions
3.1 circuit bypass means (bypass): An assembly of parts which, when properly operated, closes the circuit between the line and load jaws.
3.2 continuous-duty current rating: The rating in amperes that a meter socket will carry continuously under stated conditions, without exceeding the allowable temperature rise.
A multiposition trough socket has an additional current rating that denotes the maximum ampere capacity of the line buses.
3.3 continuous load: A load where the current continues for 3 hr or more.
3.4 meter socket (socket): An enclosure that has matching jaws to accommodate the bayonet-type (blade) terminals of a detachable watthour meter and has a means of connections for the termination of the circuit conductors. It may be a single-position socket for one meter or a multiposition trough socket for two or more meters.
3.5 meter support: That part of a ringless-type meter socket that positions and supports a detachable watthour meter.
3.6 ringless-type meter socket: A meter socket that has no provision for a socket sealing ring but has other means of holding a detachable watthour meter in place, such as a cover that is secured in place by a latch.
3.7 ring-type meter socket: A meter socket that has a socket rim.
3.8 socket cover: The removable portion of the enclosure that provides access to the meter socket wiring.
3.9 socket rim: That part of a ring-type meter socket that is required to accommodate the socket sealing ring that holds a detachable watthour meter in place.
The socket rim may be a part of the cover that is secured in place by a fastener such as a latch or crossbar.
3.10 socket sealing ring: A ring used to overlap the socket rim and the detachable watthour meter cover ring to hold and provide means for sealing a detachable watthour meter in place.