Grounding/Bonding & Meter Socket

* If nipple is PVC, no bonding lug required.

NOTES
(1) In some cases such as switchgear, meter packs, pedestals, temp services, etc. the drawings may not apply due to how things are manufactured. These would fit for most single meter, self-contained services.

2, 3 or 4 Wire, 120/240V, Single or Three-Phase
Grounding/Bonding & Meter Socket

Disconnect

Neutral Lug
Bonding Screw
Neutral
Bonding Lug
Bonding Conductor
Nipple

Meter

REC Bonding - Since PNM put the isolation switch ahead of the REC Meter Bonding is done at the Isolation Switch if needed, no the socket

* If nipple is PVC, no bonding lug required.

NOTES

1) In some cases such as switchgear, meter packs, pedestals, temp services, etc. the drawings may not apply due to how things are manufactured. These would fit for most single meter, self-contained services.
Grounding/Bonding & Meter Socket

200A Disconnect

Meter

Customer Equipment

Neutral Lug

Bonding Screw

Bonding Lug

Bonding Conductor

Neutral

Nipple

Neutral Bar

Bonding Screw

Bonding Conductor

Neutral Lug

Bonding Lug

Neutral

Nipple

* If nipple is PVC, no bonding lug required.

OPTIONAL

PREFERRED

NOTES

(1) In some cases such as switchgear, meter packs, pedestals, temp services, etc., the drawings may not apply due to how things are manufactured. These would fit for most single meter, self-contained services.

277/480V Four-Wire Wye

MS-1-29.0

Not to Scale
NOTES

(1) Type A socket ring 7000-480450 is approved for use on PNM's system.
(2) Type C has been disapproved due to installation problems, effective 08/01/11. Type D has been disapproved due to installation problems, effective 01/01/88.

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.
NOTES

(1) Type A socket ring 7000-480450 is approved for use on PNM's system.

(2) Type C has been disapproved due to installation problems, effective 08/01/11. Type D has been disapproved due to installation problems, effective 01/01/88.

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.
NOTES

1. Socket to be Underwriters Laboratory (UL) listed.
2. Connections for terminating service conductors shall be the lay-in type.
3. Conduct conduit to enter at point “A”
4. No load conduits or load conductors in shaded area from front to back.
5. PNM will make line terminations on underground permanent residential services only.
6. 125A is only applicable for manufactured, mobile homes, temporary overhead and underground service and replacing existing 100A or less meter socket.
7. Meter shall be 4’- 5’6” from finished grade.
8. If load is >320A, must use use MS-3-7.0.
9. PNM does not permit a trough ahead of meter socket.
10. Metering and instrument cabinets shall not be used to house customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.
11. Customer building numbers must be permanently painted on proper meter panels.

REFERENCES

1. See DS-4-5.0 Underground Service Entrance System
2. See DM-4-11.0 Maximum Available Fault Current
3. See MS-3-7.0 Over 320A 240V Single-Phase Meter

120/240V 100/200A Permanent Overhead or Underground Single-Phase Meter Socket

Approved Equipment

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<th>Item</th>
<th>Mfg Part #</th>
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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.
(Overhead)

NOTES
(1) Socket to be Underwriters Laboratory (UL) listed.
(2) Connections for terminating service conductors shall be the lay-in type.
(3) Service conduit to enter at point "A".
(4) Meter shall be 4'-5' 6" from finished grade.
(5) Commercial application for non-critical loads, i.e. sprinkler control and gates. PNM will allow socket without bypass handle.
(6) PNM does not permit a trough ahead of meter socket.
(7) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/trench for the distribution of circuits.
(8) Customer building numbers must be permanently painted on proper meter panels.

REFERENCES
(1) See DS-4-6.0 120/240V Underground Service Pole
(2) See DS-4-8.0 Overhead Permanent/Temporary Single-Phase or Temporary Three-Phase Service Pole
(3) See DS-4-9.0 Underground Residential Customer-Owned Service
(4) See DM-4-11.0 Maximum Available Fault Current

Allowable Uses
- Manufactured/Mobile Homes
- Replacing existing 100A or less meter socket
- Non-critical commercial application

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* Varies depending on hub size.

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.
**Allowable Uses**

- 120/240 V
  Permanent/Temporary Services ONLY

**NOTES**

1. Socket to be Underwriters Laboratory (UL) listed.
2. Connections for terminating service conductors shall be the lay-in type lug.
3. Service conduit to enter at point "A."
4. Meter shall be 4" - 5" 6" from finished grade.
5. Commercial application for non-critical loads i.e. sprinkler control and gates. PNM will allow socket without bypass handle.
6. PNM does not permit a trough ahead of meter socket.
7. Metering and instrument cabinets shall not be used to house
   Customer-owned equipment, such as distribution panels or other
   equipment, nor used as a junction box/trough for the distribution of
   circuits.
8. Customer building numbers must be permanently painted on meter panels.

**REFERENCES**

1. See DS-4-6.0 120/240V Underground Service Pole
2. See DS-4-8.0 Overhead Permanent/Temporary Single-Phase or
   Temporary Three-Phase Service Pole
3. See DS-4-9.0 Undergound Residential Customer-Owned Service
4. See DM-4-11.0 Maximum Available Fault Current
5. See MS-3-7.0 Over 320A 240V Single-Phase Meter

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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

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240V 200A Customer Overhead or Underground Single-Phase Meter Socket

MS-2-2.5
NOTES

(1) Socket to be Underwriters Laboratory (UL) listed.
(2) May be used on single-phase overhead and underground service.
(3) Connections for terminating service conductors shall be the lay-in type.
(4) Service conduit to enter at point "A"
(5) PNM will make line termination on underground service only.
(6) No load conduits or load conductors in shaded area from front to back.
(7) Line section shall be lockable and sealable.
(8) Customer building numbers must be permanently painted on proper meter panels.
(9) Meter shall be 4' - 5' 6" from finished grade.
(10) Commercial application require bypass handle.
(11) Metering and instrument cabinets shall not be used to house customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.
(12) PNM requires 4 terminals, remove 5th terminal in field.

REFERENCES

(1) See DS-4-5.0 Underground Service Entrance System
(2) See DM-4-11.0 Maximum Available Fault Currents

<table>
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<tr>
<th>Approved Equipment</th>
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<th>Item</th>
<th>Mfg Part #</th>
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* Denotes number of positions

There are various catalog #s available for # of gang socket
For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

120/240V 125/200A Commercial Single-Phase
Multi-Meter Socket with Bypass

MS-2-3.0
08/01/22 E
NOTES

(1) Socket to be Underwriters Laboratory (UL) listed.
(2) May be used on single-phase overhead and underground service.
(3) Connections for terminating service conductors shall be the lay-in type.
(4) Service conduit to enter at point "A".
(5) PNM will make line termination on underground service only.
(6) No load conductors or load conductors in shaded area from front to back.
(7) Line section shall be lockable and sealable.
(8) Customer building numbers must be permanently painted on proper meter panels.
(9) Meter shall be 4' - 5' 6" from finished grade.
(10) Commercial application require bypass handle.
(11) Metering and instrument cabinets shall not be used to house
      Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.

REFERENCES

(1) See DS-4-5.0 Underground Service Entrance System
(2) See DM-4-11.0 Maximum Available Fault Currents

<table>
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<tr>
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* There are various catalog #s available for # of gang socket
For ease of checking service without interruption, PNM will no
longer allow ring meter sockets as of 12/01/2013.
Socket is required for permanent commercial installations.

NOTES

(1) Socket to be Underwriters Laboratory (UL) listed.
(2) Connections for terminating service conductors shall be the lay-in type.
(3) Service conduit to enter at points "A".
(4) No load conduits or load conductors in shaded area from front to back.
(5) May be used on single-phase overhead services up to and including 200A or 200A underground service.
(6) This socket is optional for residential use.
(7) Commercial application for non-critical loads, i.e. sprinkler controls and gates, PNM will allow socket without bypass handle.
(8) Meter shall be 4'-5' 6" from finished grade.
(9) PNM does not permit a trough ahead of meter socket.
(10) Metering and instrument cabinets shall not be used to house customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.
(11) Customer building numbers must be permanently painted on proper meter panels.

REFERENCES

(1) See DS-4-5.0 Underground Service Entrance System
(2) See DM-4-11.0 Maximum Available Fault Current

Approved Equipment

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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

120/240V 200A Single-Phase Meter Socket with Bypass

MS-2-5.0

08/01/22  E

Not to Scale
In the socket and at the weatherhead the colors green or white are not permitted to mark permanently phases one, two and three.

Neutral Tap

See Note 6

Manual Bypass

Phase three will be wild or high leg on FOUR-WIRE DELTA SYSTEMS and shall be permanently marked orange in color, in socket and at weatherhead.

NOTES

(1) Socket to be Underwriters Laboratory (UL) listed.
(2) May be used on 120/208, Wye or 120/240 Delta services of 200A or less.
(3) Socket shall be 200A class only.
(4) Appropriate socket for overhead or underground shall be used.
(5) Equipped with lever arm bypass with jaw tension release.
(6) Transparent safety shield required.
(7) Socket shall be wired by contractor.
(8) Full sized neutral and three-phase conductors shall be installed into meter socket.
(9) Meter shall be 4' - 5' 6" from finished grade.
(10) Not to be used on 480V delta.
(11) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/trough for the distribution of circuits.
(12) Customer building numbers must be permanently painted on proper meter panels.
(13) PNM does not permit a trough ahead of meter socket.

REFERENCES

(1) See NEC 110.16
(2) See DM-4-11.0 Maximum Available Fault Currents

Important:
Socket shall be wired phase 1 - 2 - 3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or padmount, and at the meter base using band-wraps of electrical tape:
One band for phase one
Two bands for phase two
Three bands for phase three
White tape is suitable for neutral conductors only.

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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

120/208 Wye or 120/240 Delta 200A Three-Phase
Four-Wire Wye or Delta Meter Socket with Bypass

MS-2-6.0
05/01/23
NOTES

(1) Socket to be Underwriters Laboratory (UL) listed.
(2) Socket shall be 20A class only.
(3) Socket shall have two separate covers for meter and test switch compartments.
(4) Latching bottom compartment shall lock both covers.
(5) This applies to 100 and 167 kVA single-phase transformers only.
(6) Meter shall be 4' - 5' 6" from finished grade.
(7) Metering and instrument cabinets shall not be used to house customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/trench for the distribution of circuits.
(8) Customer building numbers must be permanently painted on proper meter panel.
(9) PNM does not permit a trough ahead of meter socket.

REFERENCES

(1) See MS-3-9.5 Single-Phase Bushing CT Meter Installation
(2) See DM-4-11.0 Maximum Available Fault Currents

Approved Equipment

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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

Single-Phase Six-Terminal CT Meter Socket
NOTES
(1) Socket to be Underwriters Laboratory (UL) listed.
(2) Socket shall be 20A class only.
(3) Meter shall be 4'-5' 6" from finished grade.
(4) Socket shall have two separate covers for meter and test switch compartments.
(5) Latching bottom compartment shall lock both covers.
(6) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.
(7) Customer building numbers must be permanently painted on proper meter panels.
(8) PNM does not permit a trough ahead of meter socket.

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<td>20A 13T Ringless Socket 9837-8500</td>
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<tr>
<td>Siemens</td>
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</tr>
</tbody>
</table>

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

Three-Phase Thirteen-Terminal CT Meter Socket

MS-2-7.0

Not to Scale
NOTES

(1) Socket to be Underwriters Laboratory (UL) listed.
(2) Meter shall be 4' - 5' 6" from finished grade.
(3) Metering and instrument cabinets shall not be used to house
   Customer-owned equipment, such as distribution panels or other
   equipment, nor used as a junction box/trough for the distribution of
   circuits.
(4) Customer building numbers must be permanently painted on proper
   meter panels.
(5) PNM does not permit a trough ahead of meter socket.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Item</th>
<th>Mtg Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milbank</td>
<td>3 Phase 13 T Ringless Trans Socket</td>
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<td>Milbank</td>
<td>1 Phase 6 T Ringless Trans Socket</td>
<td>U2228-XT</td>
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</table>

For ease of checking service without interruption, PNM will no
longer allow ring meter sockets as of 12/01/2013.

Ringless Trans Socket
NOTES

(1) Socket to be Underwriters Laboratory (UL) listed.
(2) Connections for terminating service conductors shall be the lay-in type.
(3) Service conduit to enter at point "A".
(4) Permanent 240V overhead, customer owned underground, permanent 240V underground PNM Service <100' Maximum or less than (4/0 underground cable), or overhead and underground temporary service only.
(5) Meter shall be 4' - 5' 6" from finished grade.
(6) Commercial application for non-critical loads, i.e. sprinkler control and gates. PNM will allow socket without bypass handle.
(7) PNM does not permit a trough ahead of meter socket.
(8) Metering and instrument cabinets shall not be used to house customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.
(9) Customer building numbers must be permanently painted on proper meter panels.
(10) 125A is only applicable for manufactured, mobile homes, temporary overhead and underground service and replacing existing 100A or less meter socket.
(11) PNM does not permit a trough ahead of meter socket.

REFERENCES

(1) See DS-4-8.0 120/240V Underground Temporary Service Pole
(2) See DS-4-8.0 Overhead Permanent/Temporary Single-Phase or Temporary Three-Phase Service Pole
(3) See DS-4-9.0 Underground Residential Customer-Owned Service
(4) See DM-4-11.0 Maximum Available Fault Current
(5) See MS-3-7.0 Over 320A 240V Single-Phase Meter Options

Approved Equipment

<table>
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<tr>
<th>Manufacturer</th>
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<tbody>
<tr>
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<tr>
<td>Eaton **</td>
<td>200A OH/UG Ringless</td>
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<tr>
<td>Leviton</td>
<td>200A OH/UG Ringless 8T Socket</td>
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<tr>
<td>Milbank</td>
<td>200A OH/UG Ringless 4T Socket</td>
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<td>Siemens</td>
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<td>Square D</td>
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</tr>
</tbody>
</table>

** 225A buss makes solar tie ready, eliminating the need for supply side connection.
*** There are various catalog # available when gasket is included.
For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

PNM
METER
STANDARD

Allowable Uses

- Permanent 240V Overhead and Customer Owned Underground.
- Temporary Overhead and Temporary Underground Service.
- Permanent 240V Underground PNM Service <100' Maximum or Less than (4/0 Underground Cable, NOT Approved for 350 Underground Cable)

Not to Scale

240V 200A Single-Phase Combo Meter Socket

MS-2-9.0

02/01/23 E
Allowable Uses
- Permanent 240V Overhead and Customer Owned Underground.
- Temporary Overhead and Temporary Underground Service.
- Permanent 240V Underground PNM Service <100' Maximum or Less than (4/0 Underground Cable, NOT Approved for 350 Underground Cable)

NOTES
1. Socket to be Underwriters Laboratory (UL) listed.
2. Connections for terminating service conductors shall be the lay-in type.
3. May be used on Single-Phase Overhead or Underground services in excess of 200A but not to exceed 300A residential or 300A commercial. The total capacity of the Main Breakers cannot exceed 300A (i.e.: 1 @ 200A + 1 @ 100A, 2 @ 150A, etc.). 400A Fused Disconnects with reduced size fusing are NOT Allowed. No Buss Overcurrent Protection rated above 300A Total will be allowed. If used on a Commercial Service a Lever Operated Bypass is Required.
4. Service conduit to enter at point "A".
5. Permanent 240V overhead, customer owned underground, permanent 240V underground PNM Service <100' Maximum or less than (4/0 underground cable), or overhead and underground temporary service only.
6. Meter shall be 4' - 5' 6" from finished grade.
7. Commercial application for non-critical loads, i.e. sprinkler control and gates. PNM will allow socket without bypass handle.
8. PNM does not permit a trough ahead of meter socket.
9. Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/trough for the distribution of circuits.
10. Customer building numbers must be permanently painted on proper meter panels.
11. PNM does not permit a trough ahead of meter socket.

REFERENCES
1. See DS-4-8.0 120/240V Underground Temporary Service Pole
2. See DS-4-8.0 Overhead Permanent/Temporary Single-Phase or Temporary Three-Phase Service Pole
3. See DS-4-9.0 Underground Residential Customer-Owned Service
4. See DM-4-11.0 Maximum Available Fault Current
5. See MS-3-7.0 Over 320A 240V Single-Phase Meter

<table>
<thead>
<tr>
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<th>Item</th>
<th>Mfg Part #</th>
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<tbody>
<tr>
<td>Eaton</td>
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<tr>
<td>Eaton</td>
<td>320A UG Ringless 24T Socket</td>
<td>U4042MCC</td>
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<td>Siemens</td>
<td>320A UG Ringless 24T Socket</td>
<td>MG2442B1300SDL</td>
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</table>

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.
NOTES

1. Check with PNM for sizing of duct on underground services.
2. Enclosure shall be securely mounted to building.
3. May be used on Single-Phase Overhead or Underground services in excess of 200A but not to exceed 300A residential or 300A commercial. The total capacity of the Main Breakers cannot exceed 300A (i.e.: 1 @ 200A + 1 @ 100A, 2 @ 150A, etc.). 400A Fused Disconnects with reduced size fusing are Not Allowed. No Buss Overcurrent Protection rated above 300A Total will be allowed. If used on a Commercial Service a Lever Operated Bypass is Required.
4. Service duct to enter at points "A".
5. Connections for terminating service conductors shall be the lay-in type.
6. Meter shall be 4'- 5' 6" from final grade.
7. PNM will make line termination on underground services only.
8. Equipped with lever arm bypass with jaw tension release.
9. Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.
10. Customer building numbers must be permanently painted on proper meter panel.
11. PNM does not permit a trough ahead of meter socket.

<table>
<thead>
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<th>Item</th>
<th>Mfg Part #</th>
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<tbody>
<tr>
<td>Eaton</td>
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<td>320A UG Meter Base</td>
<td>MC2442B1300SDL</td>
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<tr>
<td>Eaton</td>
<td>320A OH/UG Meter Base Bypass</td>
<td>HPC4046SHLG</td>
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<td>HP40SHL</td>
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<tr>
<td>Milbank</td>
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<td>U1797-O-K2L-K2L</td>
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<td>U1079-RRL-K3</td>
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<td>Milbank</td>
<td>320A OH/UG Meter Base</td>
<td>U2448-X</td>
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<td>320A OH/UG Meter Base Bypass</td>
<td>UTH4330T</td>
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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

320A Meter Socket with Bypass

MS-2-10.0
NOTES

(1) Fourteen gauge galvanized steel, painted.
(2) Contractor must furnish full 3/4" plywood back.
(3) Opening in both doors, no glass, fitted with hinged flap covers, and lockable latch.
(4) Door shall have latch and lockable handle.

<table>
<thead>
<tr>
<th>Approved Equipment</th>
<th>Manufacturer</th>
<th>Item</th>
<th>Mfg Part #</th>
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</thead>
<tbody>
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<td>Enclosure</td>
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<td></td>
<td>Hoffman</td>
<td>Enclosure</td>
<td>BN830ASY</td>
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<td>Milbank</td>
<td>Enclosure</td>
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<td>Nvent</td>
<td>Enclosure</td>
<td>A483612CTPNMW2</td>
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<tr>
<td></td>
<td>Sunwest</td>
<td>Enclosure</td>
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</table>

Double-Window Three-Phase Instrument
Transformer and Meter Enclosure

MS-3-2.0
NOTES

(1) 14 gauge galvanized steel, painted.
(2) Door shall have latch and lockable handle.
(3) Contractor must furnish full 3/4" plywood back.

Approved Equipment

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Item</th>
<th>Mfg Part #</th>
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</thead>
<tbody>
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<td>EOT-82</td>
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<td>Sunwest</td>
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<td>SW-1982 W0</td>
</tr>
</tbody>
</table>

Recording Meter Instrument Transformer Enclosure

MS-3-3.0

Not to Scale
NOTES
(1) Enclosure must be used when parallel conductors of 350 kcmil or larger per phase are installed. (600A main disconnect or larger)
(2) Must have 3/4" plywood backing inside enclosure installed by contractor.
(3) Use only one of two load options.
(4) Enclosure shall be securely mounted to building.
(5) Line and load options shall be on different quarter sections.
(6) If the number of runs or duct size meets that allowed by Table A, use MS-2-6.5.
(7) When using load out top of CT can, a J-Box or LB must be used within 2' of existing can. The same will be for single-phase ITT when coming in underground and exiting out top side with load conductors.
(8) 1-2-3 to be identified in RED, Neutral in WHITE. For Delta services the third (wild) leg in ORANGE.
Leave wire rolled up in CT can and ensure the wire is long enough to reach Main Disconnect Panel (MDP).

REFERENCES
(1) See MS-2-6.5 Single-Phase Six-Terminal CT Meter Socket
(2) See MS-3-2.0 Double-Window Three-Phase Instrument Transformer and Meter Enclosure

Table A

<table>
<thead>
<tr>
<th>Allowed Number of Ducts</th>
<th>Maximum Conductors Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>750 kcmil</td>
</tr>
<tr>
<td>3</td>
<td>500 kcmil</td>
</tr>
<tr>
<td>4</td>
<td>Not Allowed</td>
</tr>
</tbody>
</table>

Maximum Three Conductors Per Duct

All conduits or nipples exiting a CT enclosure will be the same size as the entrance conduits without exception.
Important:

Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or padmount, and at the meter base using band-wraps of electrical tape:

- One band for phase one
- Two bands for phase two
- Three bands for phase three
- White tape is suitable for neutral conductors only.

NOTES

1. MS-3-2.0 Double-Window Three-Phase Instrument Transformer and Meter Enclosure
2. Must be used when main switch is larger than 200A.
3. Use only one of the options.
4. Must have 3/4" plywood backing inside enclosure.
5. If ducts or conductors cannot be kept out of shaded area due to parallel or large conductors. MS-3-8.0 drawings B must be used.
6. Maximum of two runs of 500 kcmil cable in a maximum of two ducts.
7. Line and load options shall be on different quarter section.
8. 1-2-3 to be identified in RED, Neutral in WHITE. For Delta services the third (wild) leg in ORANGE.

Leave wire rolled up in CT can and ensure the wire is long enough to reach Main Disconnect Panel (MDP).

Over 200A Three-Phase Overhead Meter

Table A

<table>
<thead>
<tr>
<th>Allowed Number of Ducts</th>
<th>Maximum Conductors Per Duct</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>750 kcmil Overhead ONLY</td>
</tr>
<tr>
<td>2</td>
<td>500 kcmil</td>
</tr>
<tr>
<td>3</td>
<td>Not Allowed</td>
</tr>
</tbody>
</table>

All conduits or nipples exiting a CT enclosure will be the same size as the entrance conduits without exception.

MS-3-7.5

Not to Scale

05/01/21 E
NOTES

(1) MS-3-2.0 Double-Window Three-Phase Instrument Transformer and Meter Enclosure
(2) Must be used when main switch is larger than 200A.
(3) Use only one of the options.
(4) Must have 3/4" plywood backing inside enclosure.
(5) If ducts or conductors cannot be kept out of shaded area due to parallel or large conductors. Drawings B must be used.
(6) Maximum of 2 runs of 500 kcmil cable in a maximum of 2 ducts.
(7) Line and load options shall be on different quarter section.
(8) 1-2-3 to be identified in RED, Neutral in WHITE. For Delta services the third (wired) leg is ORANGE.

 Leave wire rolled up in CT can and ensure the wire is long enough to reach Main Disconnect Panel (MDP).

---

NOTES

(1) MS-2-7.0 Three-Phase Thirteen-Terminal Socket for CT Meter
(2) MS-3-3.0 Recording Meter Instrument Transformer Enclosure
(3) Line and load options shall be on opposite quarter section.
(4) If the number of runs or duct size meets that allowed by table A, use MS-3-3.0 or MS-3-11.0 enclosure.
(5) Use only one of the four load options.
(6) Contractor shall install a 1" rigid duct between transformer enclosure and meter enclosure. This duct shall not exceed 30'. It shall be an unbroken run of conduit/wire containing no conduits.
(7) All enclosures (drawings A and B) shall be securely mounted to building
(8) Line and load options shall be on opposite quarter section.
(9) 1-2-3 to be identified in RED. Neutral in WHITE. For Delta services third (wired) leg is ORANGE.

 Leave wire rolled up in CT can and ensure the wire is long enough to reach Main Disconnect Panel (MDP).

---

**Table A**

<table>
<thead>
<tr>
<th>Allowed # of Ducts</th>
<th>Maximum Conductor Size</th>
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<tr>
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<td>750 kcmil</td>
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<tr>
<td>3</td>
<td>500 kcmil</td>
</tr>
<tr>
<td>4</td>
<td>Not Allowed</td>
</tr>
</tbody>
</table>

Maximum Four Conductors Per Duct

All conduits or nipples exiting a CT enclosure will be the same size as the entrance conduits without exception

---

Over 200A Three-Phase Underground Meter

MS-3-8.0

02/01/22 E
### Table A

<table>
<thead>
<tr>
<th>Allowed # of Ducts</th>
<th>Maximum Conductors Size</th>
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<tbody>
<tr>
<td>2</td>
<td>750 kcmil</td>
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<tr>
<td>3</td>
<td>500 kcmil</td>
</tr>
<tr>
<td>4</td>
<td>Not Allowed</td>
</tr>
</tbody>
</table>

Maximum Four Conductors Per Duct

All conduits or nipples exiting a CT enclosure will be the same size as the entrance conduits without exception.

#### NOTES

1. MS-3-2.0 Double-Window Three-Phase Instrument Transformer and Meter Enclosure
2. Must be used when main switch is 200A or less.
3. Use one only of four load options.
4. Must have 3/4" plywood backing inside enclosure.
5. Coordinate duct size with PNM (line ducts).
6. Line and load options shall be on different quarter section.

---

#### Important:

Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or padmount, and at the meter base using band-wraps of electrical tape; one band for phase one, two bands for phase two, and three bands for phase three. White tape is suitable for neutral conductors only.

---

### Notes

1. MS-3-3.0 Recording Meter Instrument Transformer Enclosure
2. MS-3-4.0 Triplex Meter Enclosure
3. Both enclosures must be used when parallel conductors exceeds 350MCM and shall not exceed 750MCM parallel conductors per phase.
4. Only option C or option C1 can be used due to space. Ducts must enter and leave per drawing above.
5. 1" rigid duct installed by contractor, shall not exceed 30' and shall be continuous run of duct/wire containing no conductors.
6. Must have 3/4" plywood backing inside enclosure.
7. All enclosures (drawings A, B and C) shall be securely mounted to building.
8. Coordinate duct size with PNM (line ducts).

---

**277/480V Instrument Transformer and Meter Enclosure for Meter Network**

MS-3.9.0

02/01/22
NOTES

(1) For use on dedicated transformer installations only.
(2) Acceptable support members are as follows:
   - 3" x 3" 1/2" angle
   - 3" x 4.1 lbs/ft channel
   - 2" x 2" 3/16" box steel
   - 2 1/2" standard pipe
   - P1001 unistrut
(3) Equipment shall be securely attached to support members either bolted directly or
   mounted to metal channel or unistrut cross members.
(4) Contact PNM new customer service representative to assure proper location.
(5) The conduit must be 1" rigid galvanized.
(6) Conduit must be buried a minimum 24" and stubbed into transformer secondary
   compartment. Arrangement with PNM is necessary to open transformer.
(7) Caution: 2' 6" depth should not be exceeded because of power and telephone cables
   below.
(8) Minimum #6 cu ground wire. Connector and rod per NEC article 250. A separate
   copper grounding electrode conductor sized in accordance with NEC table 250-94
   must be provided for connection to PNM's transformer.
(9) 480V being installed in the Southern Divisions, PT's will be required. See Approved
   Equipment for approved enclosure. ONLY Options A or C will be used.
(10) 1-2-3 to be identified in RED. Neutral in WHITE. For Delta services the third (wild) leg
     in ORANGE. Leave wires rolled up in CT can and ensure the wire is long enough to reach Main
     Disconnect Panel (MDP)

REFERENCES

(1) See MS-2-7.0 Three-Phase Thirteen-Terminal Socket for CT Meter
(2) See MS-5-3.0 Single-Phase or Three-Phase Pedestal Meter

Approved Equipment:

<table>
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<tr>
<th>Manufacturer</th>
<th>Item</th>
<th>Mfg Part #</th>
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<tbody>
<tr>
<td>B-Line</td>
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<tr>
<td>Milbank</td>
<td>Enclosure/Panel</td>
<td>363612-CT3R/A-36P36</td>
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<tr>
<td>Pentair/Hoffman</td>
<td>Enclosure</td>
<td>A303012CTCJ</td>
</tr>
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</table>

Three-Phase Bushing CT Meter Installation

05/01/23 E
NOTES

(1) PNM will supply weatherproof lockable junction box and terminal strip for KYZ pulses or modems.

(2) Customer will provide all conduit (1" maximum diameter) and wiring for his side of the terminal strip and box. Access to the box shall be under customer control. Customer will be responsible for providing a lock for the box and locking it. Conduit must be installed outside of meter enclosure pad.

(3) Please note, there is a charge for this option.

(4) PNM equipment will not be accessible to customer.

TERMINAL STRIP FOR KYZ PULSES

(1) PNM will supply a Form C dry contact isolation relay. The pulses per hour received by the customer’s equipment will not exceed 7,200 per hour. The contact rating is 100VA at 100V DC or 120V AC at 1/4A maximum. Customer will provide AC power for their equipment.

TELEPHONE MODEM

(1) PNM will supply a Hayes-compatible telephone modem internal to the meter.

(2) Customer access to the modem will be through an RJ11 telephone termination in the junction box.

(3) Customer will arrange for and pay for telephone line installation. This line will be exclusively used for communication with the meter.

(4) Customer will pay monthly telephone charges.

(5) Customer is responsible for telephone line maintenance.

(6) Customer will provide PNM access to the phone line to interrogate the meter at no charge to PNM.

REFERENCES

(1) See MS-2-7.0 Three-Phase Thirteen-Terminal Socket for CT Meter

(2) See MS-3-11.0 120/208/277/480V CT Meter Enclosure

Optional Equipment to Provide Meter Data for Customer Use
NOTES

(1) Enclosure foundation may be incorporated with padmount transformer foundation.
(2) Guard posts are required in traffic areas.
(3) Concrete pad shall be 3000 psi concrete level within ± 1/4" in 5' and trowel finished to provide a true plane within 1/16" in 5' as determined by 5' straight edge.
(4) Existing grade and backfill under concrete pad shall be compacted to 95% in accordance with ASTM D1557.

REFERENCES

(1) See DS-7-16.10 Guard Post
(2) See MS-3-13.0 120/208-277/480V Transformer and Meter Enclosure Using Conduit
(3) See MS-7-2.0 Working Space Required for Meter Enclosure

120/208-277/480V Enclosure Pad

Not to Scale
NOTES

(1) Line duct must be rigid galvanized, Schedule 80 PVC or IMC. Coordinate size and number of line duct with PNM.

(2) Main disconnect may be required on the line side of any group of more than six meter sets to meet NEC, state or local codes.

(3) New socket jaw installations must be minimum of 200A, for gang meter sockets only. For existing installations 125A is permitted.

(4) Load conductors may exit either top or bottom of tenant breaker section. They shall not travel through or exit out of socket sections of modules.

(5) All enclosures shall be securely mounted to building.

(6) 1” placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No painted or written identification will be accepted.

(7) Line bus feed must have metal barrier when passing through tenant breaker section for safety and security.

(8) Top meter shall be a maximum of 79” from finished grade. Bottom meter shall be a minimum of 30” from finish grade. Maximum of four meters per column.

(9) PNM requires a minimum clearance of 36” minimum between front of sockets and any wall or obstruction.

(10) All line feed sections shall be lockable and sealable by PNM.

(11) All units shall be complete with sockets and breakers at the time of initial set of first meter.

(12) The single-phase house meter must be a four-jaw meter socket with a bypass handle. House meter must be tapped off from the phases and neutral of the line side meter pack main buss or disconnect breaker only when applicable.

REFERENCES

(1) See DM-4-11.0 Maximum Available Fault Currents

(2) See DS-7-16.10 Guard Post

(3) See MS-2-1.0 Meter Socket Ring

(4) See MS-2-2.0 120/240V 125/200A Permanent Single-Phase Meter Socket

(5) See MS-2-5.0 120/240V 200A Single-Phase Meter Socket with Bypass Handle

Approved Equipment

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<td>200A OH/UG Ringless # Position 1</td>
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*** There are various catalog # available for # positions. Remove the first "W" if units are indoor.

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.
1. Line duct must be rigid galvanized, Schedule 80 PVC or IMC. Coordinate size and number of line ducts with PNM.

2. Main disconnect may be required on the line side of any group of more than six meter sets to meet NEC, state or local codes.

3. New socket jaws installation must be minimum of 200A for gang meter sockets only. Fifth terminal to be in 900 o'clock position. For existing installations 125A is permitted.

4. Load conductors may exit either top or bottom of tenant breaker section. They shall not travel through or exit out of socket sections of modules.

5. Three-phase services will not be added to this gear after initial installation unless gear was designed and manufactured for that use and approved by PNM.

6. "1" placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No painted or written identification will be accepted.

7. Line bus feed must have metal barrier when passing through tenant breaker section for safety and security.

8. Top meter shall be a maximum of 79° from finished grade. Bottom meter shall be a minimum of 30° from finished grade. Maximum of four meters per column.

9. PNM requires a minimum clearance of 30° minimum between front of sockets and any wall or obstruction.

10. All line feed sections shall be lockable and sealable by PNM.

11. All units shall be complete with sockets and breakers at the time of initial set of first meter.

12. Guard posts will be required in traffic areas.

13. The three-phase house meter must be a seven-jaw with bypass handle. House meter must be tapped off from all phases and neutral of the line side meter pack main buss or disconnect.

REFERENCES

(1) See DM-4-11.0 Maximum Available Fault Currents

(2) See DS-7-16.10 Guard Post

(3) See MS-2-1.0 Meter Socket Ring

(4) See MS-2-6.0 120/208 Wye or 120/240 Delta 200A Three-Phase Four-Wire Wye or Delta Meter Socket with Bypass

PNM
METER
STANDARD

120/208V Five-Terminal Modular Meter and Equipment

11/01/22  E

**There are various catalog # available for # positions. Remove the first "W" if units are indoor.

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

Approved Equipment

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<thead>
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<th>Manufacturer</th>
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<td>200A OH/UG Ringless # Position</td>
<td>WML*****</td>
</tr>
<tr>
<td>Square D</td>
<td>200A OH/UG Ringless # Position</td>
<td>MPR*****</td>
</tr>
</tbody>
</table>
NOTES

(1) Line conduit must be rigid galvanized, Schedule 80 PVC or IMC. Coordinate size and number of line conduits with PNM.
(2) Main disconnect may be required on the line side of any group of more than six meter sets to meet NEC, state or local codes.
(3) All units shall be complete with sockets and breakers at the time of initial set of first meter.
(4) Load conductors may exit either top or bottom of tenant breaker section. They shall not travel through or exit of socket sections of modules.
(5) All enclosures shall be securely mounted to building.
(6) 1” placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No painted or written identification will be accepted.
(7) Guard posts will be required in traffic areas.
(8) Top meter shall be a maximum of 79” from finished grade. Bottom meter shall be a minimum of 30” from finish grade. Maximum of four meters per column.
(9) PNM requires a minimum clearance of 36” minimum between front of sockets and any wall or obstruction.
(10) All line feed sections shall be lockable and sealable by PNM.
(11) All units shall be complete with sockets and breakers at the time of initial set of first meter.

REFERENCES

(1) See DM-4-11.0 Maximum Available Fault Currents
(2) See DS-7-16.10 Guard Post
(3) See MS-2-6.0 120/208 Wye or 120/240 Delta 200A Three-Phase Four-Wire Wye or Delta Meter Socket with Bypass

Approved Equipment

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<th>Mfg Part #</th>
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<tr>
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<td>Square D</td>
<td>200A OH/UG Ringless * Position</td>
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Important:

Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or padmount, and at the meter base using band-wraps of electrical tape:

One band for phase one
Two bands for phase two
Three bands for phase three
White tape is suitable for neutral conductors only.

* There are various catalog#’s available for # of positions

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

120/208-277/480V 200A Three-Phase Four-Wire Multiple Meter

MS-4-3.0
02/01/20 E

Not to Scale
NOTES

1. Line conduit must be rigid galvanized, Schedule 80 PVC or IMC. Coordinate size and number of line conduits with PNM.
2. Main disconnect may be required on the line side of any group of more than six meters to meet NEC, state or local codes.
3. All units shall be complete with sockets and breakers at the time of initial set of first meter.
4. Load conductors may exit either top or bottom of tenant breaker section. They shall not travel through or exit out of socket sections of modules.
5. All enclosures shall be securely mounted to building.
6. *Placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No printed or written identification will be accepted.
7. Guard posts will be required in traffic areas.
8. Top meter shall be a maximum of 79" from finished grade. Bottom meter shall be a minimum of 30" from finish grade. Maximum of four meters per column.
9. PNM requires a minimum clearance of 36" minimum between front of sockets and any wall or obstruction.
10. All line feed sections shall be lockable and sealable by PNM.
11. All units shall be complete with sockets and breakers at the time of initial set of first meter.
12. "A" is for metering 120/208-277/480V seven-jaw sockets with 200A loads.
13. "B" is for metering customer with loads over 200A.

REFERENCES

1. See DM-4-11.0 Maximum Available Fault Currents
2. See DS-7-16.10 Guard Post
3. See MS-2-6.0 120/208 Wye or 120/240 Delta 200A Three-Phase Four-Wire Wye or Delta Meter Socket with Bypass
4. See MS-3-8.0 Over 200A Three-Phase Meter Options
5. See MS-4-8.0 Switchgear Seven-Jaw Socket Meter
6. See MS-4-11.0 120/208 or 277/480V Switchgear Metering

Approved Equipment

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<tr>
<th>Manufacturer</th>
<th>Item</th>
<th>Mfg Part #</th>
</tr>
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<tbody>
<tr>
<td>Square D</td>
<td>200A OH/UG Ringless * Position</td>
<td>EZML33225</td>
</tr>
</tbody>
</table>

* There are various catalog #'s available for # of positions

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

120/208-277/480V Three-Phase Four-Wire Multiple Meter

MS-4-4.0

02/01/20 E
NOTES

(1) This equipment to be used as housing for three-phase 120/208, 277/480V switchgear and metering when used outdoors.
(2) Drawing must be submitted to meter department for approval.
(3) Dual locking arrangements must be made. Enclosure door must be operable without the use of tools.
(4) Customer building number must be permanently painted under main disconnect.
(5) Same spacing can be used for various metering application.
(6) Guard posts will be required in traffic areas.

REFERENCES

(1) See DS-7-16.10 Guard Post
(2) See MS-4-11.0 120/208 or 277/480V Switchgear Metering
NOTES

1. "A" is a pull section for cables from the padmount transformer. This section could be at either end of switchgear. Main disconnect could be required to meet NEC, state or local codes. Load conductors shall not be allowed in this or bus sections of switchgear.

2. "B" 200A seven-jaw sockets.

3. "C" is for metering customers with CT's 800A and under.

4. "D" is for metering customers with CT's 800A and over.

5. Front panels must be removable and sealable.

6. 1" placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No painted or written identification will be accepted.

7. Rain tight housing should be used if switch gear is in unprotected location.

REFERENCES

1. See DM-4-11.0 Maximum Available Fault Currents

2. See MS-4-5.0 Raintight Housing for Switchgear and Meter

3. See MS-4-8.0 Seven-Jaw Socket Switchgear Meter

4. See MS-4-9.0 Cradle Mount CT Switchgear Metering

5. See MS-4-10.0 Base Mount CT Switchgear Metering

Important:

Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or padmount, and at the meter base using band-wraps of electrical tape:

One band for phase one
Two bands for phase two
Three bands for phase three
White tape is suitable for neutral conductors only

120/208-277/480V Switchgear

MS-4-6.0

02/01/20

Not to scale
NOTES

(1) Rain tight housing should be used if switchgear is mounted in unprotected location.
(2) Switchgear and transformer may be mounted on common pad.
(3) Guard posts will be required in traffic areas.
(4) 1" placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No painted or written identification will be accepted.

REFERENCES

(1) See Section 7 for individual pad details
(2) See DS-7-16.10 Guard Post
(3) See MS-4-8.0 Raintight Housing for Switchgear and Meter
(4) See MS-4-8.0 Switchgear Seven-jaw Socket Meter
(5) See MS-4-8.0 Cradle Mount CT Switchgear Metering
(6) See MS-4-10.0 Base Mount CT Switchgear Metering

Important:

Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or padmount, and at the meter base using band-wraps of electrical tape:

One band for phase one
Two bands for phase two
Three bands for phase three
White tape is suitable for neutral conductors only

Switchgear Meters with Padmount Transformer

MS-4-7.0

Not to Scale

02/01/20  E
NOTES

(1) Single meter covers with provisions to seal and or lock.
(2) 120/208V, 277/480V seven-jaw socket, 200A only.
(3) # of blackout to be used under main disconnect and adjacent to the corresponding
   socket on a non-removable part of the cabinet. No painted or written identification will
   be accepted.
(4) Panel bus
(5) Circuit breaker
(6) Cross bus
(7) Barriers per UL, NEC, AND PNM Requirements.
(8) Service entrance equipment shall be designed for an available fault current of 60,000A
    symmetrical three-phase at the transformer.
(9) Main disconnect may be required on the line side of any group of more than six meter
    sets to meet NEC, state or local codes.
(10) Top meter shall be maximum of 7/8" from finish grade. Bottom meter shall be a
     minimum of 3/8" from finish grade. Maximum of four meters per column.
(11) All units shall be complete with sockets and breakers at the time of the initial set of
     first meter.
(12) Guard posts will be required

REFERENCES

(1) See DM-4.11.0 Maximum Available Fault Currents
(2) See DS-7-16.10 Guard post
(3) See MS-2.06.0 120/208 Wye or 120/240 Delta 200A Three-Phase Four-Wire Wye or
    Delta Meter Socket with Bypass
(4) See MS-4.9.0 Cradle Mount CT Switchgear Metering

Important:
Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weatherhead or padmount, and at the meter base using band-wraps of electrical tape:

One band for phase one
Two bands for phase two
Three bands for phase three
White tape is suitable for neutral conductors only

Switchgear Seven-Jaw Socket Meter
MS-4-8.0
Not to Scale
NOTES

(1) Bond neutral bus, cabinet and meter bases to common ground.
(2) Bond CT secondary meter frames to cabinet and neutral bus.
(3) 1" placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No painted or written identification will be accepted.
(4) If conductor are used instead of bus, they must be kept behind meter board.
(5) Load conductors must leave switchgear through bottom area. NEC does not allow load conductors to exit through line bus area.

REFERENCES

(1) See DM-4-11.0 Maximum Available Fault currents
(2) See DS-7-16.10 Guard post
(3) See MS-4-6.0 120/208-277/480V Switchgear
(4) See EUSERC Section 300 Metering and Service Equipment

Cradle Mount CT Switchgear Metering

MS-4-9.0

Not to Scale
NOTES

(1) Bond neutral bus, cabinet and meter bases to common ground.
(2) Bond CT secondary meter frames to cabinet and neutral bus.
(3) 1" placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No painted or written identification will be accepted.
(4) If conductors are used instead of bus. They must be kept behind meter board.
(5) Load conductors must leave switchgear through bottom area. NEC does not allow load conductors to exit through line bus area.

REFERENCES

(1) See DS-4-11.0 Maximum Available Fault Currents
(2) See DS-7-16.10 Guard Post
(3) See MS-4-6.0 120/208-277/480V Switchgear
**NOTES**

(1) "A" is a pull section for cables from the padmount transformer. This section could be at either end of switchgear. Main disconnect could be required to meet NEC, state or local codes. Load conductors shall not be allowed in this or bus sections of switchgear.

(2) "B" is for metering Customers with loads over 200A.

(3) "C" 200A Seven-Jaw sockets.

(4) Front panels must be removable and sealable.

(5) 1" placards to be used under main disconnect and adjacent to the corresponding socket on a non-removable part of the cabinet. No painted or written identification will be accepted.

(6) Rain tight housing should be used if switchgear is in unprotected location.

(7) Switchgear metering must have a lockable load side main disconnect.

**REFERENCES**

(1) See DM-4-11.0 Maximum Available Fault Currents
(2) See MS-4-5.0 Rain Tight Housing for Switchgear and Meter
(3) See MS-4-8.0 Seven-Jaw Socket Switchgear Meter
(4) See MS-4-9.0 Cradle Mount CT Switchgear Metering

**Important:**

Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or padmount, and at the meter base using band-wraps of electrical tape:

- One band for phase one
- Two bands for phase two
- Three bands for phase three

White tape is suitable for neutral conductors only.
NOTES

(1) Pedestal construction from 14 gauge steel with corrosion resistant finish.
(2) Meter socket minimum rating 125A factory wired in separate wire way from terminal block to meter socket.
(3) For services larger than 125A, a factory rated 200 or 320A pedestal must be used.
(4) Insulated stud terminal block or bus pads to accommodate PNM connections.
(5) Pedestal bonding lug grounding conductor must be continuous to breaker panel grounding terminal.
(6) Termination section to have removable rain tight cover with provision for padlocking. All other removable portions of termination section must be sealable.
(7) Rigid galvanized, schedule 80 PVC or IMC 90° elbow. If plastic conduit is used in place of rigid, it must be encased in 2" of concrete from where it enters metal enclosure, to 18" below ground level. End of elbow conduit run must extend beyond the edge of the concrete foundation.
(8) Contact your new service representative with the meter location and estimated load for more information.
(9) Commercial application for non-critical loads, i.e. sprinklers controls and gates. PNM will allow socket without bypass handle.
(10) Allowed on single manufactured and mobile homes ONLY. For mobile home parks see MS-5-4.0.
(11) Ground wire connector and rod per NEC Article 250.
(12) Equipped with lever arm bypass with jaw tension release.

REFERENCES

(1) See DM-4-11.0 Maximum Available Fault Currents

PNM
METER
STANDARD

Residential Underground Service Entrance Conduit Size
(Internal Diameter)

<table>
<thead>
<tr>
<th>Service Distance (ft)</th>
<th>*125A Class Meter Socket</th>
<th>200A Class Meter Socket</th>
<th>320A Class Meter Socket</th>
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<tr>
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<td>3.0&quot;</td>
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<td>Greater than 100'</td>
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<td>3.0&quot;</td>
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- Contact your new service representative with the meter location and estimated load for more information.
- *For manufactured and mobile homes ONLY
- Main breaker larger than 320 Amps See MS-3-7.0

Approved Equipment

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<th>Item</th>
<th>Mfg Part #</th>
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<td>Midwest</td>
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<td>200A Ringless Pedestal</td>
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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

120/240V 125 to 200A Rated Socket Pedestal Meter

MS-5-1.5
Page 1
11/01/22
(1) Pedestal construction from 14 gauge steel with corrosion resistant finish.
(2) Meter socket minimum rating 125A factory wired in separate wire way from terminal block to meter socket.
(3) For services larger than 125A, a factory rated 200 or 320A pedestal must be used.
(4) Insulated stud terminal block or bus pads to accommodate PNM connections.
(5) Pedestal bonding lug grounding conductor must be continuous to breaker panel grounding terminal.
(6) Termination section to have removable rain tight cover with provision for padlocking. All other removable portions of termination section must be seizable.
(7) Rigid galvanized, schedule 80 PVC or IMC 90° elbow. If plastic conduit is used in place of rigid, it must be encased in 2” of concrete from where it enters metal enclosure, to 18” below ground level. End of elbow conduit run must extend beyond the edge of the concrete foundation.
(8) Contact your new service representative with the meter location and estimated load for more information.
(9) Commercial application for non-critical loads, i.e. sprinklers controls and gates. PNM will allow socket without bypass handle.
(10) Allowed on single manufactured and mobile homes ONLY. For mobile home parks see MS-5-4.0.
(11) Ground wire connector and rod per NEC Article 250.
(12) Equipped with lever arm bypass with jaw tension release.

REFERENCES
(1) See DM-4-11.0 Maximum Available Fault Currents

120/240V 125 to 200A Rated Socket Pedestal Meter

NOTES

Residential Underground Service Entrance Conduit Size
(Internal Diameter)

<table>
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<tr>
<th>Service Distance (ft)</th>
<th>*125A Class Meter Socket</th>
<th>200A Class Meter Socket</th>
<th>320A Class Meter Socket</th>
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<td>100' or Less</td>
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<td>3.0&quot;</td>
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<tr>
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<td>3.0&quot;</td>
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</table>

- Contact your new service representative with the meter location and estimated load for more information.
- *For manufactured and mobile homes ONLY
- Main breaker larger than 320 Amps See MS-3-7.0

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<tr>
<th>Manufacturer</th>
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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.
NOTES

(1) Pedestal construction from 14 gauge steel with corrosion resistant finish.
(2) Meter socket minimum rating 125A factory wired in separate wire way from terminal block to meter socket.
(3) For services larger than 125A, a factory rated 200 or 320A pedestal must be used.
(4) Insulated stud terminal block or bus pads to accommodate PNM connections.
(5) Pedestal bonding lug grounding conductor must be continuous to breaker panel grounding terminal.
(6) Termination section to have removable rain tight cover with provision for padlocking. All other removable portions of termination section must be sealable.
(7) Rigid galvanized, schedule 80 PVC or IMC 90° elbow. If plastic conduit is used in place of rigid, it must be encased in 2” of concrete from where it enters metal enclosure, to 18” below ground level. End of elbow conduit run must extend beyond the edge of the concrete foundation.
(8) Contact your new service representative with the meter location and estimated load for more information.
(9) Commercial application for non-critical loads, ie. sprinklers controls and gates, PNM will allow socket without bypass handle.
(10) Allowed on single manufactured and mobile homes ONLY. For mobile home parks see MS-5-4.0.
(11) Ground wire connector and rod per NEC Article 250.
(12) Equipped with lever arm bypass with jaw tension release.

REFERENCES

(1) See DM-4-11.0 Maximum Available Fault Currents

PNM METER STANDARD

120/240V 320A Pedestal Meter

Approved Equipment

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Item</th>
<th>Mfg Part #</th>
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<tbody>
<tr>
<td>Milbank</td>
<td>320A Ringless Pedestal</td>
<td>CP385411GB22PBSP1</td>
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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

Residential Underground Service Entrance Conduit Size (Internal Diameter)

<table>
<thead>
<tr>
<th>Service Distance (ft)</th>
<th>320A Class Meter Socket</th>
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</thead>
<tbody>
<tr>
<td>100' or Less</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Greater than 100'</td>
<td>3&quot;</td>
</tr>
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</table>

- Contact your new service representative with the meter location and estimated load for more information.
- "For manufactured and mobile homes ONLY.
- Main breaker larger than 320 Amps See MS-3-7.0

MS-5-2.0
NOTES

(1) Use rigid nipple between meter socket and main breaker.
(2) Equipment shall be securely attached to support members either bolted directly or mounted to metal channel or unistrut cross members.
(3) Rigid galvanized, Schedule 80 PVC or IMC conduit shall be used for source and load conduits. No junction box or cable trough is permitted ahead of the metering enclosure.
(4) Guard posts will be required in traffic areas. As specified.
(5) Acceptable support members are as follows:
   - 3" x 3" Angle
   - 3" x 4.1 lbs/ft Channel
   - 2" x 2" 5/16" Box Steel
   - 2.2" Standard Pipe
   - P1001 Unistrut (See Steel Detail)

REFERENCES

(1) See DM-4.11.0 Maximum Available Fault Currents
(2) See DS-7.16.10 Guard Post
(3) See MS-2.2.0 120/240V 125/200A Permanent Overhead and Underground Single-Phase Meter Socket
(4) See MS-2.5.0 120/240V 200A Single-Phase Meter Socket with Bypass
(5) See MS-2.6.0 120/208 Wye or 120/240 Delta 200A Three-Phase Four-Wire Wye or Delta Meter Socket with Bypass

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.
NOTES

(1) Line duct shall be rigid galvanized, IMC or EMT.  
(2) Concreted to be 1" above grade and tapered from post to ground.  
(3) Main disconnect may be required on the line side of any group of more than six meter sets to meet NEC, state, or local codes.  
(4) Top meter shall be a maximum of 4'-6" 6' from finished grade bottom meter shall be minimum of 30" from finished grade.  
(5) PNM requires a minimum of 48" between front of above enclosures and any wall or obstruction.  
(6) All line feed sections shall be lockable and sealable by PNM.  
(7) All units shall be complete with sockets and breakers at the time of initial set of first meter.  
(8) Guard posts will be required in traffic areas.  
(9) Contact PNM customer service representative for height of service attachment point if service crosses driveways. Areas subject to vehicle traffic are specified herein for 12' attachment height. Higher attachment may require different supports.  
(10) Pipe strap shall be firmly attached to support member at intervals of 30" minimum.  
(11) If separation between support members is greater than 6' an additional center support of the same material will be required.  
(12) Metering installations shall be located along the front lot line. Contact PNM Electric Service delivery to coordinated a meter spot.  
(13) 480V can be used for Mobile Home Park and asphalt.  
(14) Approved materials for support members:  
2 2" Pipe (min), 3" x 3" - 3/8" Angle I, 2" x 2" - 3/8" Box Steel. Capped or filled with concrete.  
(15) Approved material for backing:  
P1000 Unistrut Welded, 3/8" Plate Steel Welded and Painted.  
(16) PNM requires this gang metering in Field Build Structure per MS-5-4.0 for new/upgrades to Mobile Home Parks. Please consult with you PNM representative before installing metering equipment in Mobile Home Parks.  

REFERENCES

(1) See DS-4-4.5 Minimum Point of Attachment Height for Service Drop Cables  
(2) See DM-4.11.0 Maximum Available Fault Currents  

Approved Equipment

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Item</th>
<th>Mfg Part #</th>
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<tr>
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* There are various catalog #'s available for # of positions  

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

Three-Phase or Single-Phase, Overhead or Underground  
Field Build Structure
NOTES

(1) Use 1" rigid nipple between instrument transformer enclosure and meter enclosure for secondary wiring.
(2) Enclosures shall be securely attached to support members either bolted directly or mounted to metal channel or unistrut cross members.
(3) Rigid galvanized, Schedule 80 PVC or IMC conduit shall be used for source and load conduits. No junction box or cable trough is permitted ahead of the metering enclosure.
(4) Guard posts will be required in traffic areas as specified.
(5) Acceptable support members are as follows:
   3" x 3" x 3/8" Angle
   3" x 4.1 lbs/ft Channel
   2" x 2" 16 gage Box Steel
   2 1/2" Standard Pipe
   P1001 Unistrut (See Steel Detail)

REFERENCES

(1) See DM-4-11.0 Maximum Available Fault Currents
(2) See DS-7-1E.10 Guard Post
(3) See MS-2.7.0 Three-Phase Thirteen-Terminal CT Meter Socket
(4) See MS-3.3.0 Recaedring Meter Instrument Transformer Enclosure

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

Over 200A Permanent Three-Phase Pedestal Meter

MS-5-5.0

Not to Scale

05/01/18   E
NOTES

(1) Four 5/8 x 18" anchor bolts recommended.
(2) Recommend 3" minimum foundation extension all sides.
   Recommend 6" minimum depth.
(3) Minimum 36" clearance required per NEC 110-16 typical front/back.
(4) Service ONLY Three-wire 240V

REFERENCES

(1) See DM-4-11.0 Maximum Available Fault Currents

<table>
<thead>
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<th>Manufacturer</th>
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<th>Mfg Part #</th>
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<tbody>
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<td>TESCO</td>
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<td>27000</td>
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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

240V Single-Phase Commercial Pedestal Meter

MS-5-6.0
NOTES

(1) Shaded area is considered working space and shall be kept clear of all obstacles (including landscaping) to permit ready and safe operation and maintenance of the service equipment.

(2) Electric meter shall be protected with extended curbs or ballards (guard posts) in traffic areas to maintain working space.

(3) Clearance from meter socket, gas regulator, canales (roof drains) is 36" minimum.

(4) This drawing is to be used for dimensioning purposes only. Canales (roof drains) are NOT allowed to be installed over electric and gas meters.

REFERENCES

(1) NEC 110-16 Working Space
(2) See DS-7-16.10 Guard Post

Underground or Overhead Working Space for Electric Meter
NOTES

(1) Shaded area is considered working space and shall be kept clear of all obstacles (including landscaping) to permit ready and safe operation and maintenance of the service equipment.

(2) Electric meter shall be protected with extended curbs or ballards (guard posts) in traffic areas to maintain working space.

(3) Clearance from meter socket, gas regulator, canales (roof drains) is 36" minimum.

(4) This drawing is to be used for dimensioning purposes only. Canales (roof drains) are NOT allowed to be installed over electric and gas meters.

REFERENCES

(1) NEC 110-16 Working Space

(2) See DS-7-16.10 Guard Post

Underground or Overhead Working Space for REC Meter
NOTES

1. Disconnect Label: Red etched placard on switch must identify type of COGEN and contain the language "Generation Disconnect", i.e. "PV Generation Disconnect" or "Energy Storage Disconnect" or "Wind generation Disconnect."

2. One-Line Electrical and Site Map: Weatherproof drawings located within 2' of billing meter. See table for approved methods.

3. If REC meter is greater than 5' from or not in line of sight of the billing meter:
   - A red etched placard on the billing meter that reads "Warning Customer Owned Generation Connected. See drawing for disconnect location."
   - One-line and Site Map located within 2' if both REC and Billing meters.

4. To pass meter set inspection, all generator equipment and breakers must be ready in the ON position, and inverter is programmed and ready to operate. PNM cannot access or operated any customer owned equipment except for the utility meter and utility accessible Generation Disconnect.

APPROVED WEATHERPROOF METHODS FOR DRAWINGS:

| Etched placard, legible and permanently fixed |
| Document canister by Agri Supply or equivalent |
| Mail box |

Location and Placards for REC Meter
NOTES

(1) Disconnect Label: Red etched placard on switch must identify type of COGEN and contain the language "Generation Disconnect", i.e. "PV Generation Disconnect" or "Energy Storage Disconnect" or "Wind generation Disconnect."

(2) One-Line Electrical and Site Diagram: Weatherproof drawings located within 2' of billing meter. See table for approved methods.

(3) If REC meter is greater than 5' from or not in line of site of the billing meter:
   - A red etched placard on the billing meter that reads "Warning Customer Owned Generation Connected. See drawing for disconnect location."
   - One-line and Site Map located within 2' of both Billing meters.

(4) To pass meter set inspection, all generator equipment and breakers must be ready in the ON position, and inverter programmed and ready to operate. PNM cannot access or operated any customer owned equipment except for the meter and utility accessible Generation Disconnect.

APPROVED WEATHERPROOF MEATHODS FOR DRAWINGS:

(1) Etched placard, legible and permanently fixed.
(2) Document canister by Agri Supply or equivalent
(3) Mail box

Location and Placards for ESS Meter

MS-7-1.7

Not to Scale
Working Space Required for Primary Meter Enclosure

REFERENCES
(1) See MS-3-18.0 120/208-277/480V Enclosure Pad
(2) See MS-3-21.0 7900/12470V CT and PT Meter Enclosure Pad
**DIAGRAM DISCLAIMER**
Connections Shown are for Illustrative Purposes Only
This sketch is intended to be used for illustrative purpose only.
This sketch is not intended to provide an NEC compliant electrical design or directives for full NEC compliance.

**From Inverter**

L1  N

- Must ensure a continuous neutral when meter is removed. Jumper must be same size as neutral.

**Insulated Neutral**

**From Inverter**

L1  N  L2

- Do NOT Bond Neutral

**To Service Panel**

- Load Break
- Lockable
- Visible Disconnect
- Utility Accessible Switch
- Must be Same Height as REC
- Meter 4' - 5' 6" from finished grade

**REC Meter (Form 1S)**
for 120V Inverter

**REC Meter (Form 2S)**
for 240V Inverter

**NOTES**

1. Check with your new service representative if you have a special voltage requirements.
2. Do not bond the neutral to the meter case. Ground the meter case with an equipment grounding conductor or by metallic conduit.
3. A REC meter cannot be installed in a Multiple Meter Center.
4. If supply side connection, Customer Generation Disconnect must be service entrance rated.
5. Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/trench for the distribution of circuits.
6. Fused disconnect must be used for systems 50kW and larger.
7. Meter shall be 4' - 5' 6" from finished grade.

**REC Meter Base**

Standard 120/240V Meter Base - Neutral NOT Bonded

**MS-8-1.0**

Not to Scale

08/01/22  E
DIAGRAM DISCLAIMER
Connections Shown are for Illustrative Purposes Only
This sketch is intended to be used for illustrative purpose only.
This sketch is not intended to provide an NEC compliant electrical design or directives for full NEC compliance.

- Load Break
- Lockable
- Visible Disconnect
- Utility Accessible Switch
- Must be Same Height as REC Meter 4' - 5' 6" from finished grade

From Inverter
L1 N
Must ensure a continuous neutral when meter is removed.
Jumper must be same size as neutral.

Insulated Neutral

Conduit

To Service Panel

L1 N
Must ensure a continuous neutral when meter is removed.
Jumper must be same size as neutral.

2" Max

Customer Generation Disconnect

Meter shall be 4' - 5' 6" from finished grade

Final Grade

Third Party Meter for 120V Inverter

REC Meter 120V Inverter

NOTES
(1) Check with your new service representative if you have a special voltage requirements.
(2) Do not bond the neutral to the meter case. Ground the meter case with an equipment grounding conductor or by metallic conduit.
(3) A REC meter cannot be installed in a Multiple Meter Center.
(4) If supply side connection, Customer Generation Disconnect must be service entrance rated.
(5) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.
(6) Meter shall be 4' - 5' 6" from finished grade.

Third Party Meter with REC Meter Base

Standard 120V Meter Base
From Inverter
L1  N  L2

Conduit

Insulated Neutral

From Inverter

Do NOT Bond Neutral

To Service Panel

Meter shall be 4' - 5' 6" from finished grade

Meter shall be 4' - 5' 6" from finished grade

2" Max

Final Grade

Third Party Meter (Form 2S) for 240V Inverter

REC Meter (Form 2S) for 240V Inverter

NOTES

1. Check with your new service representative if you have a special voltage requirements.
2. Do not bond the neutral to the meter case. Ground the meter case with an equipment grounding conductor or by metallic conduit.
3. A REC meter cannot be installed in a Multiple Meter Center.
4. If supply side connection, Customer Generation Disconnect must be service entrance rated.
5. Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.
6. Fused disconnect must be used for systems 50kW and larger.
7. Meter shall be 4' - 5' 6" from finished grade.

Third Party Meter with REC Meter Base

Standard 240V Meter Base - Neutral NOT Bonded

MS-8-1.2

Not to Scale

08/01/22 E
**DIAGRAM DISCLAIMER**

Connections Shown are for Illustrative Purposes Only

This sketch is intended to be used for illustrative purpose only.

This sketch is not intended to provide an NEC compliant electrical design or directives for full NEC compliance.

- Load Break
- Lockable
- Visible Disconnect
- Utility Accessible Switch
- Must be Same Height as REC Meter 4' - 5' 6"
from finished grade

From Inverter
L1  L2

To Service Panel

2' Maximum

Meter shall be 4' - 5' 6" from finished grade

**REC Meter (Form 2S)**

for 240V Inverter without Neutral

Final Grade

**NOTES**

1. Check with your new service representative if you have special voltage requirements.
2. A REC meter cannot be installed in a Multiple Meter Center.
3. If supply side connection, Customer Generation Disconnect must be service entrance rated.
4. Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/tract for the distribution of circuits.
5. Fused disconnect must be used for systems 50kW and larger.
6. Meter shall be 4' - 5' 6" from finished grade.
NOTES

(1) Socket to be Underwriters Laboratory (UL) listed and same as, or similar to the above drawings.
(2) Connections for terminating service conductors are the lay-in type.
(3) Service duct to enter at point "A"
(4) 120/240V Overhead and customer owned underground or overhead and underground temporary service only.
(5) Meter shall be 4" - 5 6" from finished grade.
(6) Prior approval is required by Meter Department for all non-standard meter sockets.
(7) Commercial application for non-critical loads, i.e. sprinkler control and gates. PNM will allow socket without bypass handle.
(8) PNM does not permit a trough ahead of meter socket.
(9) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.

REFERENCES

(1) See DS-4-6.0 120/240V Underground Service Pole
(2) See DS-4-8.0 Overhead Permanent/Temporary Single-Phase or Temporary Three-Phase Service Pole
(3) See DS-4-8.0 Underground Residential Customer-Owned Service
(4) See DM-4-11.0 Maximum Available Fault Current
(5) See MS-8-1.0 REC Meter Base Standard 120/240V Meter Base-Neutral NOT Bonded
(6) See MS-8-1.5 REC Meter Base Standard 240V Meter Base without Neutral

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<thead>
<tr>
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<th>Item</th>
<th>Mfg Part #</th>
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<td>UTRS101B</td>
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<td>125A OH Ringless Socket</td>
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* Varies depending on hub size.

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

120/240V 100-150A Single-Phase REC Meter Socket for Renewable Systems 10 kW or Less

MS-8-2.0

05/01/22  E
Allowable Uses

- 120/240 V
  Permanent/Temporary
  Services ONLY

NOTES

(1) Socket to be Underwriters Laboratory (UL) listed.
(2) Connections for terminating service conductors shall be the lay-in type lug.
(3) Service conduit to enter at point "A".
(4) Meter shall be 4' - 5' 6" from finished grade.
(5) Commercial application for non-critical loads i.e. sprinkler control and
gates. PNM will allow socket without bypass handle.
(6) PNM does not permit a trough ahead of meter socket.
(7) Metering and instrument cabinets shall not be used to house
  Customer-owned equipment, such as distribution panels or other
  equipment, nor used as a junction box/through for the distribution of
  circuits.
(8) Customer building numbers must be permanently painted on proper meter
  panels.

REFERENCES

(1) See DS-4-6.0 120/240V Underground Service Pole
(2) See DS-4-8.0 Overhead Permanent/Temporary Single-Phase or
    Temporary Three-Phase Service Pole
(3) See DS-4-9.0 Underground Residential Customer-Owned Service
(4) See DM-4-11.0 Maximum Available Fault Current
(5) See MS-3-7.0 Over 320A 240V Single-Phase Meter

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<th>Mfg Part #</th>
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<td>Eaton</td>
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For ease of checking service without interruption, PNM will no
longer allow ring meter sockets as of 12/01/2013.

240V 200A Customer Overhead or Underground
Single-Phase Meter Socket 10.1 kW or Greater

MS-8-2.5
In the socket and at the weatherhead the colors green or white are not permitted to mark permanently phases one, two and three.

Conductor Wrap
- A - 1 Wrap
- B - 2 Wrap
- C - 3 Wrap

Multiple Inverters
Combined Panel
Inverters that do not use a Neutral

Distributed - Generation Line
- Load Break
- Lockable
- Visible Disconnect
- Utility Accessible Switch
- Must be Same Height as REC Meter 4" - 5' 6" from finished grade

Phase 1
Phase 2
Phase 3

16S Wye w/ by - Pass

To Service Panel

Final Grade

NOTES

(1) Check with your new service representative if you have special voltage requirements.
(2) To remove the meter first open Customer-Generation Disconnect and then remove the meter.
(3) If supply side connection, Customer Generation Disconnect must be service entrance rated.
(4) Must have three phase outputs.
(5) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/trough for the distribution of circuits.
(6) Fused disconnect must be used for systems 50kW and larger.
(7) Meter shall be 4' - 5' 6" from finished grade.

For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

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<tr>
<th>Manufacturer</th>
<th>Item</th>
<th>Mfg Part #</th>
</tr>
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<tr>
<td>Durham</td>
<td>200A OH Socket</td>
<td>UT-H7203B</td>
</tr>
<tr>
<td>Durham</td>
<td>200A OH/UG Socket</td>
<td>UT-H7213</td>
</tr>
<tr>
<td>Landis &amp; Gyr</td>
<td>200A OH Socket</td>
<td>HQ7-400701F</td>
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<tr>
<td>Landis &amp; Gyr</td>
<td>200A UG Socket</td>
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<tr>
<td>Milbank</td>
<td>200A OH/UG Socket</td>
<td>NU9701-RXL</td>
</tr>
</tbody>
</table>

277/480V, 120/208V Four-Wire Ground Wye
1 Inverter, 3 Outputs without Neutral
NOTES

(1) Check with your new service representative if you have special voltage requirements.
(2) To remove the meter first open Customer-Generation Disconnect and then remove the meter.
(3) If supply side connection, Customer Generation Disconnect must be service entrance rated.
(4) Must have three phase outputs.
(5) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/trough for the distribution of circuits.
(6) Meter shall be 4'-5" from finished grade.

<table>
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<th>Manufacturer</th>
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<th>Mfg Part #</th>
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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

277/480V, 120/208V Four-Wire Ground Wye
1 Inverter, 3 Outputs with Neutral
NOTES

1. Check with your new service representative if you have special voltage requirements.
2. To remove the meter first open Customer-Generation Disconnect and then remove the meter.
3. If supply side connection, Customer Generation Disconnect must be service entrance rated.
4. Must have three phase outputs.
5. Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/trough for the distribution of circuits.
6. Fused disconnect must be used for systems 50kW and larger.
7. Meter shall be 4' - 5' 6" from finished grade.

Approved Equipment

<table>
<thead>
<tr>
<th>Manufacturer</th>
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<th>Mfg Part #</th>
</tr>
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For ease of checking service without interruption, PNM will no longer allow ring meter sockets as of 12/01/2013.

277/480V, 120/208V Four-Wire Ground Wye
3 Inverters, 3 Outputs with Neutral
NOTES

(1) Customer will furnish both meter socket and CT enclosure and deliver to PNM.

(2) 15 kV cable shown as heavy lines.

(3) Minimum clearance between 15 kV non-shielded cable and ground is 7 1/2".

(4) Customer will furnish and install 4" rigid galvanized or IMC duct and concrete pad.

(5) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box/through for the distribution of circuits.

REFERENCES

(1) See MS-1-22.0 2400/4160-7200/12470V Wye Primary Meter
(2) See MS-2-7.0 Three-Phase Thirteen-Terminal Socket for CT Meter
(3) See MS-3-17.0 7200/12470V CT and PT Meter Enclosure
(4) See MS-3-20.0 7200/12470V CT and PT Meter Enclosure Mounts
(5) See MS-3-21.0 7200/12470V CT and PT Meter Enclosure Pad

Important:
Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or padmount, and at the meter base using band-wraps of electrical tape: one band for phase one, two bands for phase two, and three bands for phase three. White tape is suitable for neutral conductors only.
**NOTES**

(1) MS-3-2.0 Double-Window Three-Phase Instrument Transformer and Meter Enclosure.
(2) Must be used when main switch is larger than 200A.
(3) Use only one of the options.
(4) Must have 3/4" plywood back inside enclosure.
(5) If ducts or conductors cannot be kept out of shaded area due to parallel or large conductors, Drawings B must be used.
(6) Maximum of 2 runs of 500 kcmil cable in a maximum of 2 ducts.
(7) Line and load options shall be on different quarter section.
(8) Must pull neutral for every circuit and cannot be pulled or conductor be more than one size of the phases conductors. Neutral be same size as phase conductors.
(9) Cannot terminate neutral in meter enclosure (must pull neutral thru REC enclosure to another device i.e. additional disconnect or distribution block).
(10) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box for the distribution of circuits.
(11) Meter shall be 4'-5" 6" from finished grade.

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**Important:**

Socket shall be wired phase 1-2-3 from left to right and the conductors marked as such. Each conductor phase will be identified at the weather head or pendant, and at the meter base using band-wrap of electrical tape; one band for phase one, two bands for phase two, and three bands for phase three. White tape is suitable for neutral conductors only.

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**Over 200A Three-Phase REC Meter Options**

**Table A**

<table>
<thead>
<tr>
<th>Allowed Number of Ducts</th>
<th>Maximum Conductor Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>750 kcmil</td>
</tr>
<tr>
<td>3</td>
<td>500 kcmil</td>
</tr>
<tr>
<td>4</td>
<td>Not Allowed</td>
</tr>
</tbody>
</table>

| Maximum Four Conductors Per Duct |

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(1) MS-2-7.0 Three-Phase Thirteen-Terminal Socket for CT Meter
(2) MS-3-3.0 Recording Meter Instrument Transformer Enclosure
(3) MS-3-4.0 Tripex Meter Enclosure
(4) If the number of runs or duct size exceed that allowed by Table A, use MS-3-3.0, MS-3-4.0 or MS-3-11.0 enclosure.
(5) Use only one of the load options.
(6) Does not necessarily go to transformer. Ducts have to be unbroken.
(7) All enclosures (drawings A, B and C) shall be securely mounted to building.
(8) Line and load options shall be on different quarter section.
(9) Customer Generation Disconnect (CGD)
(10) Cannot terminate neutral in meter enclosure (must pull neutral thru REC enclosure to another device i.e. additional disconnect or distribution block).
(11) Metering and instrument cabinets shall not be used to house Customer-owned equipment, such as distribution panels or other equipment, nor used as a junction box for the distribution of circuits.
(12) Meter shall be 4'-5" 6" from finished grade.
NOTES

(1) Shaded area is considered working space and shall be kept clear of all obstacles (including landscaping) to permit ready and safe operation and maintenance of the service equipment.

(2) Electric meter shall be protected with extended curbs or ballards (guard posts) in traffic areas to maintain working space.

(3) Clearance from meter socket, gas regulator, canales (roof drains) is 36" minimum.

(4) This drawing is to be used for dimensioning purposes only. Canales (roof drains) are NOT allowed to be installed over electric and gas meters.

REFERENCES

(1) NEC 110-16 Working Space
(2) See DS-7-16.10 Guard Post

Underground or Overhead Working Space for REC Meter
**NOTES**

1. **Disconnect Label:** Red etched placard on switch must identify type of COGEN and contain the language “Generation Disconnect,” i.e. “PV Generation Disconnect” or “Energy Storage Disconnect” or “Wind generation Disconnect.”

2. **One-Line Electrical and Site Map:** Weatherproof drawings located within 2' of billing meter. See table for approved methods.

3. **If REC meter is greater than 5' from or not in line of site of the billing meter:**
   - A red etched placard on the billing meter that reads “Warning Customer Owned Generation Connected. See drawing for disconnect location.”
   - One-line and Site Map located within 2' if both REC and Billing meters.

4. **To pass meter set inspection, all generator equipment and breakers must be ready in the ON position, and inverter is programmed and ready to operate. PNM cannot access or operated any customer owned equipment except for the utility meter and utility accessible Generation Disconnect.**

**APPROVED WEATHERPROOF METHODS FOR DRAWINGS:**

- Etched placard, legible and permanently fixed
- Document canister by Agri Supply or equivalent
- Mail box

**Location and Placards for REC Meter**
NOTES

(1) Disconnect Label: Red etched placard on switch must identify type of Cogens and contain the language "Generation Disconnect," i.e., "PV Generation Disconnect" or "Energy Storage Disconnect" or "Wind generation Disconnect."

(2) One-Line Electrical and Site Diagram: Weatherproof drawings located within 2' of billing meter. See table for approved methods.

(3) If REC meter is greater than 5' from or not in line of sight of the billing meter:
   • A red etched placard on the billing meter that reads "Warning Customer Owned Generation Connected. See drawing for disconnect location."
   • One-line and Site Map located within 2' if both and Billing meters.

(4) To pass meter set inspection, all generator equipment and breakers must be ready in the ON position, and inverter programmed and ready to operate. PNM cannot access or operated any customer owned equipment except for the meter and utility accessible Generation Disconnect.

APPROVED WEATHERPROOF MEATHODS FOR DRAWINGS:

(1) Etched placard, legible and permanently fixed.
(2) Document canister by Agri Supply or equivalent
(3) Mail box