

200amp & 400amp Residential Underground Meter Pedestal Service

CONSTRUCTION HOTLINE
1.866.992.6619

METER ENCLOSURES:

1. Selected from the List of Approved devices as shown in the Ameren Missouri Electric Service Manual found at Ameren.com/ServiceManual.
2. 200amp or 400amp enclosures to be designed for Underground application and U.L. approved and equipped with Safety Lever Bypass. No Ring style meter bases allowed.
3. All unused knockouts in meter enclosure and fused/breaker disconnect must be plugged with standardized plugs.
4. Only use bottom left knockout for Ameren Missouri service cables.
5. All meter enclosure locations to be approved by Ameren Missouri.
6. Meter enclosures shall not be attached with non-ferrous screws or drywall screws.
7. Meter enclosure shall be installed between 3' and 5 1/2' measured from final grade to center of glass. If enclosure is mounted along a driveway/parking lot or an abutting sidewalk 36" or less, mount at 6 1/2' from center of glass.
8. NOTE: To qualify for a Residential rate, the residence must have one or more rooms used for eating, sleeping, and permanent provisions for cooking and sanitation.

CONDUIT:

1. For 200amp services, use 2 1/2" or 3" schedule 40 PVC conduit with expansion coupling and 24" radius elbows.
2. For 400amp services, use 3" schedule 40 PVC conduit with expansion coupling and either 24" or 36" radius elbows.
3. Service conduits shall have a minimum of 24" of cover and be equipped with a 2500# polyester pulling tape.
4. Use schedule 80 PVC conduit for any sections subject to physical damage.
5. No bends/elbows of less than 24" radius shall be used.
6. Conduit shall be schedule 40 PVC, gray in color, standard sizes for use with standard schedule 40 fittings and accessories.
7. Conduits and their associated fittings to be bonded together with PVC solvent cement.
8. Service conduit path shall have 90 degree/24" bend at meter base and at power source with one additional 24" or 36" bend in between, if required.
9. Schedule 40 PVC Expansion Coupling Joint required and to be installed in the left knockout with the outer sleeve on top and positioned at the manufacturer's 'midway mark'.

GROUNDING:

1. National Electric Code approved grounding required. For 200amp service, bond enclosure with #4 bare copper. For 400amp service, bond enclosure with #2 bare copper.
2. Ground wire between meter enclosure ground lug and ground rod shall be continuous with no splices.



200amp with lever bypass & main disconnect



400amp with lever bypass & main disconnect

NOTE: Contact local inspection authority for their requirements



All material listed is Furnished & Installed by Customer or Contractor

- A. Meter enclosure with Safety Lever By-Pass and 200A or 400A breaker
 - B. Locknut & Bushing 2 1/2"(200A) or 3"(400A)
 - C. Conduit clamp w/ Lag Screws 2 1/2"(200A) or 3"(400A)
 - D. 24"Radius Sweep Elbow 2 1/2"(200A) or 3"(400A)
 - E. Schedule 40 PVC Conduit 2 1/2"(200A) or 3"(400A)
 - F. 1/2" Box Adapter
 - G. 1/2" Conduit (Optional)
 - H. Ground Wire #4 Bare(200A), #2 Bare(400A)
 - I. Ground Rod - 8' Copper Clad
 - J. Ground Rod Clamp
 - K. 2" (Min) Heavy Wall Steel Posts with Cross Braces
 - L. Expansion Joint 2 1/2"(200A) or 3"(400A)
- AmerenMo Furnished Material**

Service cable installed in Residential conduit. Meter installed by Ameren

Note: Contact local inspection authority for their requirements

