

# **INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION**

## **SPECIFICATIONS FOR THREE-PHASE 120/208, 120/240, AND 277/480 VOLT 4-WIRE SELF-CONTAINED METER HOUSINGS**

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1. Housings shall be constructed from metal in accordance with the latest revision of Underwriters' Laboratories (UL) Standard No. 414 for meter sockets.
2. Each socket on line-side compartment shall be equipped so proper sealing of the socket can be maintained by padlock.
3. After installation and sealing are completed, the socket shall not have any openings except as permitted by NEMA type 3R construction.
4. All meter housings shall be UL listed and labeled, and they shall be installed and used in accordance with their labeling.
5. Meter-housing installations shall be installed per National Electric Code (NEC) procedures and shall be enforced by the local inspection authority.
6. Top of glass on meter housing shall be located between 4 ft. and 5 ft. above finished grade.
7. All sockets will be permanently labeled with an etched metal tag or permanent tag approved by the Association meter department personnel noting the service location that it feeds.
8. Maximum amp size to be metered by a self-contained 3Ø meter will not exceed 200 amps.
9. All polyphase sockets will have a seven-terminal mounting block with a heavy duty 200-amp locking jaw with lever-type bypass or meet the EUSERC standards for commercial metering with safety sockets.
10. All 3Ø consumers will provide their own single-phase protection.

Additional approval will be given to meter/load center combinations as well as multiple combinations, which meet all other provisions for commercial/3Ø meter housings.

It is understood that IREA approval does not mean approval in any area where there may be a conflict with any national or local code, and the local inspecting body will need to approve and will have the final authority.

It is also understood that in case of a disaster, IREA will not have spare parts and will not be responsible for the repair.

Questions can be answered by IREA meter department personnel at (303) 688-3100.

## **METER LOCATION AND INSTALLATION SPECIFICATIONS**

Subject to Association meter department personnel approval, the customer shall provide and maintain, without cost to the Association, an easily accessible metering location on or within the premises to be supplied service. All locations must comply with Association rules and regulations.

Where meters, originally installed in accessible locations satisfactory to the Association, are rendered inaccessible by virtue of alterations or new construction by the owner of the premises or his agent, such meters shall be reinstalled at a point designated by the Association at the expense of the property owner.

The location of meters and metering equipment shall be designated by the Association meter department personnel. No wiring dependent upon the meter location should be started until such location has been definitely established. Meters shall be installed outdoors in accordance with rules governing outdoor meter installations. Meters and EUSERC cabinets are to be installed outside the building either free standing (EUSERC cabinet) or against an exterior wall (EUSERC cabinet or meter) allowing unobstructed access by the Association's personnel. A minimum of a four-foot unobstructed working space in front of the cabinet is also required. Please note that the cabinet or meter may ***NOT*** be installed in an interior room, courtyard, or any other structure that could possibly have a lockable entry way. If the EUSERC cabinet, metering, and main disconnect are not installed in a proper location and manner, the Association will refuse service. Major changes may be required at the customer's cost and delay the service connection. Meter mountings and associated equipment shall be mounted securely and plumb. Where attachment is made to masonry, concrete, or plaster walls, expansion bolts, plugs, or anchors shall be used. Meter mountings shall not be placed in a location where meter reading or servicing may become impracticable or may cause damage to any part of the customer's premises.

The line-side conductors in meter-mounting devices shall be required to be separated from the load-side conductors by means of permanent barrier. Access to the line-side conductors shall be sealable. No conductors other than line-side conductors shall be permitted in line-side conduits, troughs, or lug landings.

All line-side (unmetered) conductors must be in a continuous length of conduit from the point of delivery to the meter mounting device. The use of line-side (ahead of the meter) disconnects or other open devices are not permitted with exception to commercial accounts and/or multiple-meter stacks. Association meter department personnel must approve the location of any ahead-of-the-meter devices. In general, an approved location will be limited to installation in secured switch gear or on the same surface wall directly ahead and within 24" of the meter.

Meter location, point of delivery, and service disconnect will be determined by the Association in accordance with standard practices, including the National Electrical Code, and will be accessible to the Association's service personnel at all times.

# **INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION**

## **SPECIFICATIONS FOR SINGLE-PHASE 120/240 VOLT 3-WIRE METER HOUSINGS**

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1. Housings shall be constructed from metal in accordance with the latest revision of Underwriters' Laboratories (UL) Standard No. 414 for meter sockets.
2. Each socket on line-side compartment shall be equipped so proper sealing of the socket can be maintained by padlock.
3. After installation and sealing are completed, the socket shall not have any openings except as permitted by NEMA type 3R construction.
4. All meter housings shall be UL listed and labeled, and they shall be installed and used in accordance with their labeling.
5. Meter housing installations shall be installed per National Electric Code (NEC) procedures and shall be enforced by the local inspection authority.
6. Meter housing shall be located between 4 ft. and 5 ft. above finished grade.
7. All commercial applications will have a meter socket with a heavy-duty locking jaw with lever-type bypass or meet the EUSERC standards for commercial metering with safety sockets.
8. Maximum amp size to be metered by a self-contained 1Ø meter will not exceed 400 amps. All single-phase services in excess of 200 amps, which require a class 320 meter, must have a lever bypass meter housing unless preapproved by the Association.

Additional approval will be given to meter/load center combinations as well as multiple combinations, which meet all other provisions for residential/1Ø meter housings.

It is understood that IREA approval does not mean approval in any area where there may be a conflict with any national or local code, and the local inspecting body will need to approve and will have the final authority.

It is also understood that in case of a disaster, IREA will not have spare parts and will not be responsible for the repair.

Questions can be answered by IREA meter department personnel at (303) 688-3100.

### **ADDITIONAL REQUIREMENTS FOR 1Ø UG FEED RESIDENTIAL METER HOUSINGS**

1. Minimum size permitted must be 200 amp capable of terminating 4/O aluminum wire.
2. Meter will be located on the front 25% of the house, ahead of fence, and in a direct line with the Association's electric facility designated to serve that location.

### **ADDITIONAL REQUIREMENT FOR 120/208 1Ø HOOKUPS**

Fifth (5<sup>th</sup>) terminal is required and will be allowed in the 9 o'clock position only and must be bonded within the housing. Typically used for 1Ø service fed by 3Ø transformer, 120/208 voltage.