



SERVICE ENTRANCE - GROUP
7 or More Positions, Socket Breaker
Combination, 100, 200 Ampere
Single Phase or Network, 3 Wire

10-01-14
ER 19-220-H
PAGE 1 OF 5

USE: Installation on a multiple meter project consisting of seven or more meters which required a master entrance switch ahead of the meters.

PREVIOUS REVISION
10-01-13

ORIGINATED
03-94

PREVIOUS NUMBER
ER 1-154-B (12-29-92)

LATEST REVISION: Added notes when ordering equipment.

SPECIFICATION:

1. GENERAL:

- 1.1 The equipment shall be constructed of galvanized steel or aluminum and shall be sealable.
- 1.2 Each meter position shall be individually sealable.
- 1.3 Outdoor units shall be weatherproof.
- 1.4 Two, three, four, or five gang units can be used to make up the seven or more positions, provided they comply with dimension requirements as follows:
 - 1.4.1 Minimum height as measured from the top of the lowest meter to the floor or final grade level:
Indoor - 33 inches
Outdoor - 39 inches
 - 1.4.2 Maximum height as measured from the top of the highest meter to floor or final grade level:
Indoor and Outdoor - 79 inches
- 1.5 Each meter position shall be rated at least 100 amperes for customer loads of 100 amperes or less.
- 1.6 Each meter position shall be rated 200 amperes for customer loads greater than 100 amperes but not exceeding 200 amperes.
- 1.7 Each meter position shall have a minimum dimension of 9 inches center to center.
- 1.8 Each meter socket (including the inside of the socket), and its respective main disconnect, shall be labeled in a distinctive, permanent, and legible manner, identifying the location they are to serve (Apt #, Unit #, etc.). The labels must be either engraved nameplates or adhesive-type labels at least one inch high. Felt tip pens and label maker tape **are not** considered permanent marking. The location itself, shall also be labeled with its respective identification marking. Meters shall not be installed and energized until this identification has been completed. The Company will assume no responsibility for the accuracy of matching premise location as indicated on the meter socket and main disconnect switch.

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- 1.9 There shall be a minimum of three (3) feet of unobstructed space in front of the meter measured from the surface on which the meter is mounted.
- 1.10 The meter installation shall be adequately grounded in accordance with NIPSCO Standard ER 7-500, Grounding, latest revision. The ground connection shall be located at the service switch or breaker. The meter socket circuit breaker assembly shall be grounded to the neutral conductor.

2. TYPE OF INSTALLATIONS:

- 2.1 Single phase, three wire, 120/240 volt.
- 2.2 Network, three wire, 120/208 volt.
 - 2.2.1 Main service entrance feed is three phase, four wire, 120/208 volt.
 - 2.2.2 Each meter position uses two phase wires and the neutral wire. The meter sockets require a fifth jaw at the nine o'clock position for grounded neutral.
 - 2.2.3 Load should be balanced between phases.

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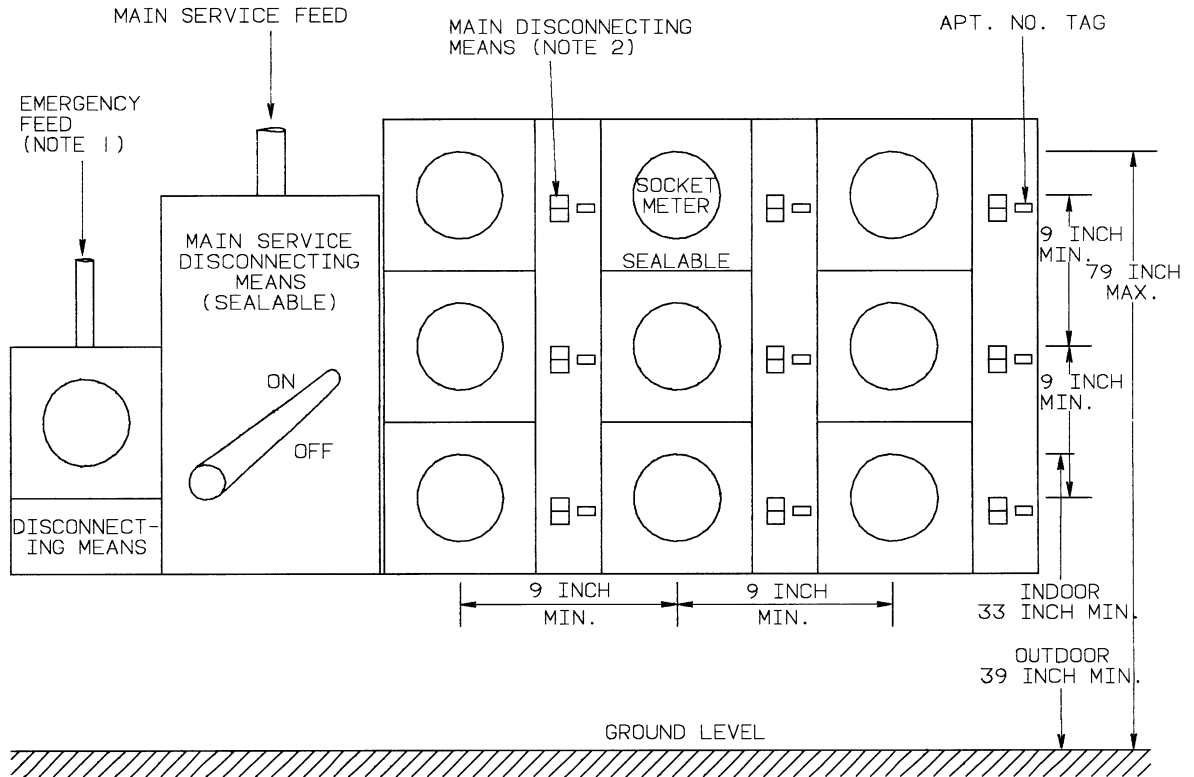


Figure 1 Typical installation - nine meter position

NOTES:

1. Emergency feed must be sufficiently separated from the main service disconnecting means per NEC Articles 700.5(d) and 700.17, latest revision.
2. It should be noted that the equipment approved on the standard is designed as a meter socket-circuit breaker combination. A bonding jumper or metallic conduit is required to bond the service equipment on the load side of the current limiting device for this type of installation per NEC Articles 250.142(b) and 250.94.

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3. COMPANY APPROVED EQUIPMENT:

3.1 Single phase and network installations

3.1.1 100-ampere sockets

Company Approved Combination Meter Socket Circuit Breaker Equipment		
Approved Manufacturers	Catalog Series or Type	
	Indoor	Outdoor
Square D Company	EZM-H-1...-125 or EZM-H-3...-125	
Murray	DCW	DCW
General Electric	TMP	TMP...R
Cutler Hammer/ETN	3MM-212R, 1MM -312R, 1MM-412R followed by -RLB	3MM-212R, 1MM -312R, 1MM-412R followed by -RLB
Erickson	CM84, 3RM, WM...	CM84, 3RM
Siemens	WMM...125RJ, WMM...125RJB	WMM...125RJ, WMM...125RJB

NOTES:

1. It is necessary to specify 4-jaw socket (single phase, three wire, 120/240 Volt) or 5-jaw (Network, three wire, 120/208 Volt) when ordering equipment.



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3.1.2 200-ampere sockets

Company Approved Combination Meter Socket Circuit Breaker Equipment		
Approved Manufacturers	Catalog Series or Type	
	Indoor	Outdoor
Square D Company	EZM-H-1...200 or	EZM-H-3...-200
Murray	DCW	DCW
General Electric	TMP	TMP...R
Cutler Hammer/ETN	3MM-220R, 1MM-320R, 1MM-420R followed by -RLB	3MM-220R, 1MM-320R, 1MM-420R followed by -RLB
Erickson	CM84,3RM,WM..., M8	CM84, 3RM
Siemens	WMM...225RJ, WMM...225RJB	WMM...225RJ, WMM...225RJB

NOTES:

1. It is necessary to specify 4-jaw socket (single phase, three wire, 120/240 Volt) or 5-jaw (Network, three wire, 120/208 Volt) when ordering equipment.