Residential Meter Breakers

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Residential Meter Breakers

Product Description

A meter breaker is service entrance equipment that consists of a single meter socket and loadcenter (circuit breaker distribution section) or meter socket and main breaker combined in one enclosure. Sometimes called Combos, All-in-Ones, Meter Centers or Meter Mains, these units are increasing in popularity as the socket and loadcenter or main breaker are located in one location, thus providing the contractor with a labor and material savings when installing.

Application Description

In addition to residential installations, meter breakers are equally applicable for rural service entrance, mobile homes and construction site temporary power. Meter breakers are most often sold in the western, southwestern and southeastern United States. The popularity of meter breakers is continuing to increase as more utilities deregulate and pass the responsibility of supplying watthour meter sockets on to the electrical contractor.

Application Considerations

Eaton has the meter breaker to meet your application, offering:

- Non-EUSERC
- EUSERC/West Coast
- House panels
- Commercial safety socket

Non-EUSERC (Page V1-T5-43)

Eaton's line of non-EUSERC meter breakers are designed for customers served by utilities that are not members of EUSERC.

EUSERC/West Coast (Page V1-T5-63)

Eaton's line of EUSERC required devices adhere to the agreed upon standards. EUSERC utilities are predominately located in the western United States, but some eastern and midwestern utilities are also members. These units can also be used in many Non-EUSERC areas.

House Panels (Page V1-T5-79)

CH and BR Styles (**Page V1-T5-80**).

Meter breaker device rated at 300–400A. Applied in EUSERC and non-EUSERC areas.

Commercial Safety Sockets (Page V1-T5-87)

Applied in EUSERC and non-EUSERC service areas and used in commercial applications.

Features, Benefits and Functions

- Both Type BR and CH branch circuit breaker styles available
- Meets latest NEC wire bending space requirements
- Slotted sealing screws at hub with sealing provision provided
- Surface units are supplied with mounting tabs
- Semi-flush units are supplied with stucco flange
- Meter socket ring landing will accept locking security rings
- Overhead or underground service
- Fifth jaw can be installed in the 3 o'clock or 9 o'clock position
- Semi-flush with nail flange or surface mounting
- Meter mounting and underground pull sections are utility sealable
- Units are rated a minimum of 10 kAIC; some units are 22 kAIC
- Numerous units supplied with center keyhole for ease of mounting
- NEMA 3R rainproof construction

Standards and Certifications

- UL Specification 414 (socket)
- UL File Number E52977
- AEIC-EEI-NEMA Standards (MSJ-7)
- Meet EUSERC utility requirements where noted
- Documented seismic qualified—UBC® and CBC Title 24
- UL Specification 67 (panel)

Listed

Technical Data and Specifications

- Ratings single-phase, three-wire, 120/240 Vac
- 100–225A main breaker and main lug types
- 10,000A rms symmetrical short-circuit rating
- Available kAIC ratings: 10k with BW breaker, 22k with BWH breaker and 35k with CSH breaker

Consult TD.31F.01.T.E for dimensions, wiring diagrams and knockouts.

Residential Meter Breakers

Standard Design Non-EUSERC Panel

Compact Design

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Non-EUSERC Combination Service Entrance Devices 100–200A Styles

Product Description

A device that may include a meter socket, main breaker and loadcenter section within the same enclosure.

- Meter main = meter socket and main breaker
- Meter breaker = meter socket, main breaker and loadcenter section

Application Description

Eaton's line of non-EUSERC meter breakers are designed for customers served by utilities that are not members of EUSERC.

Features, Benefits and Functions

Meter Mains and All-in-Ones

- Single-phase, three-wire, 120/240 Vac,10 kAIC
- Larger lay-in lugs and 3-inch (76.2 mm) knockouts for ease of installation
- Box-type main lugs included
- Factory-installed neutral
- Hub provisions on top endwall. If hubs are required, order "DS" style
- Ring, ringless and ringless with horn bypass styles available
- Ringless style, provided with embossed covers and security latch for utility company lock
- Padlockable device covers provide additional measure of safety and help prevent tampering
- NEMA 3R rainproof construction

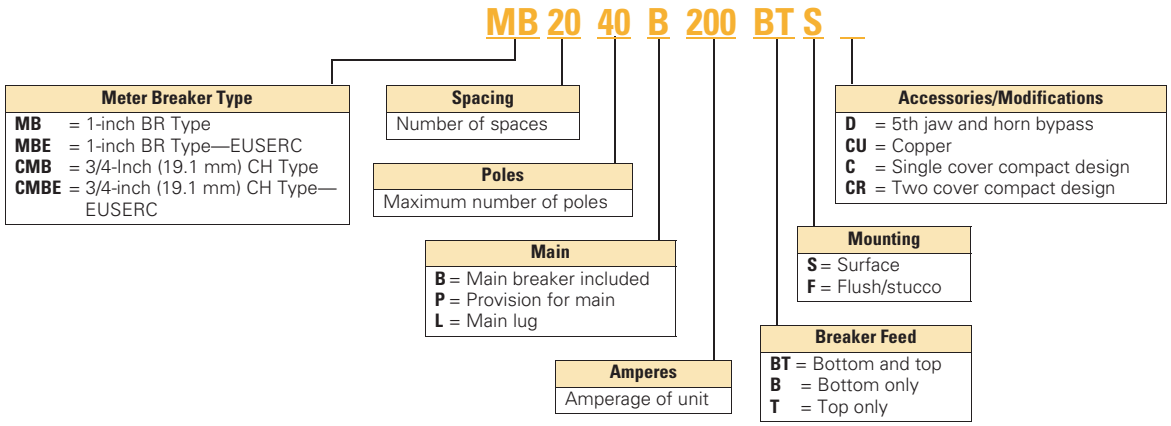
Meter Mains

- Meter socket and main breaker
- Stainless steel latches on meter compartments in MBP types
- No distribution section included

All-in-Ones

- Meter socket and loadcenter distribution section
- Stainless steel latches on meter compartments
- Several designs with horn bypass and fifth jaw
- Center-fed main breaker, lugs or provision
- Uses Type BR 1-inch (25.4 mm) wide branch breakers
- Special channel for top exit

Catalog Number Selection

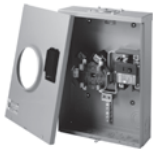


Product Selection

Note: See knockout drawings on **Pages V1-T5-72 through V1-T5-78** for hub information.

Standard Design Non-EUSERC Panel

Compact Design



Combination Service Entrance Devices—Non-EUSERC

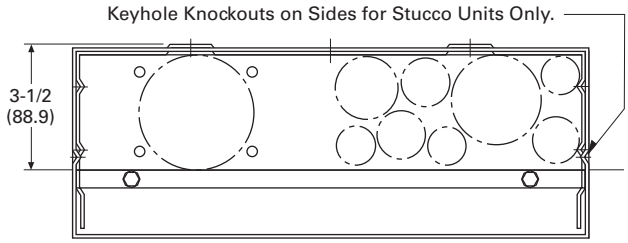
Ampere Rating	Bypass	Service	kAIC	Jaws	Distribution	Main	Branch Breaker Type	Dimensions and Enclosure Shape ①	Page Numbers Wiring	Page Numbers Knockout ①	Catalog Number
Ring Style Meter Mains (no distribution section included)											
150	None	OH/UG	10	4	None	CSH2150	None	13	**V1-T5-50**	**V1-T5-78**	**MBB150BTSCR**
150	None	OH/UG	22	4	None	CSH2150	None	3	**V1-T5-47**	**V1-T5-74**	**CMBB150BTS** ⑥⑦
200	None	OH/UG	10	4	None	CSH2200	None	13	**V1-T5-50**	**V1-T5-78**	**MBB200BTSCR**
200	None	OH/UG	②	4	None	Provision ④⑤	None	3	**V1-T5-47**	**V1-T5-74**	**CMBP200BTS** ⑥⑦
200	None	OH/UG	22	4	None	CSH2200	None	3	—	**V1-T5-74**	**CMBB200BTS** ⑥⑦
Ringless Meter Mains (no distribution section included)											
150	None	OH/UG	10	4	None	CSH2150	None	13	**V1-T5-50**	**V1-T5-78**	**MBB150BTSC** ⑦
200	None	OH/UG	10	4	None	CSH2200	None	9	**V1-T5-51**	**V1-T5-78**	**MBB200BTS** ⑧
200	None	OH/UG	10	4	None	CSH2200	None	13	**V1-T5-50**	**V1-T5-78**	**MBB200BTSC** ⑦
150	None	OH/UG	10	4	None	CSH2125	None	9	**V1-T5-51**	**V1-T5-78**	**MBB150BTS**
200	None	OH/UG	②	4	None	Provision ③	None	9	**V1-T5-51**	**V1-T5-78**	**MBP200BTS** ⑦
200	Horn	OH/UG	②	5	None	Provision ③④	None	11	**V1-T5-49**	**V1-T5-78**	**MBP200SD**
200	Horn	OH/UG	②	5	None	Provision ③④	None	9	**V1-T5-51**	**V1-T5-78**	**MBP200BTSD**
100	Horn	OH/UG	10	5	None	Provision	None	15	—	**V1-T5-78**	**CHMMB100BTS**
150	Horn	OH/UG	10	5	None	BWH2150	None	16	—	**V1-T5-78**	**CHMMB150BTS**
200	Horn	OH/UG	10	5	None	BWH2200	None	16	—	**V1-T5-78**	**CHMMB200BTS**
150	None	OH/UG	10	4	4/8	BWH	BR	—	—	—	**MB48B150TSG**
200	None	OH/UG	10	4	4/8	BWH	BR	—	—	—	**MB48B200BTSG**
200	Lever	OH/UG	22	4	8/16	BWH	BR	—	—	—	**MBX816B200BTS**
200	Lever	OH/UG	22	4	20/40	BWH	BR	—	—	—	**MBX2040B200BTS**

Notes

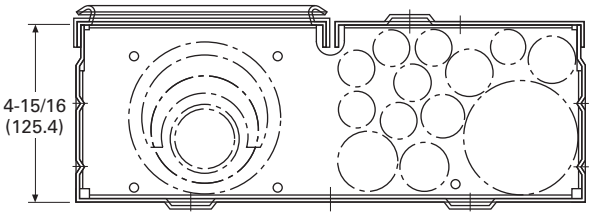
① See **Page V1-T5-72** for box details.
② Per installed main breaker rating.
③ When a provision for main is provided, order one of the main breakers listed in **Page V1-T5-47**. Panels are dual labeled to accept Types BW, BWH, CSR or CSH Main Breakers.
④ MCBK225 lug kit is needed for load side cable connection for Meter Mains. Please order separately.
⑤ When a provision for main is provided, order one of the main breakers listed in this table. Panels are labeled to accept Type CSR Main Breakers.
⑥ Copper bus.
⑦ One-piece cover on utility side, Florida approved.
⑧ Single cover design.
⑨ Xcel approved.

Approximate Dimensions in Inches (mm)

Knockouts for Stucco and Surface Units Catalog Numbers—CMBE88B150BTF, CMBE88B200BTF, MBE24L125BTF, MBE24L200BTF, MBE48B200BTF, MBEB200BTF, MBE1224B100BTF and MBE1224B125BTF

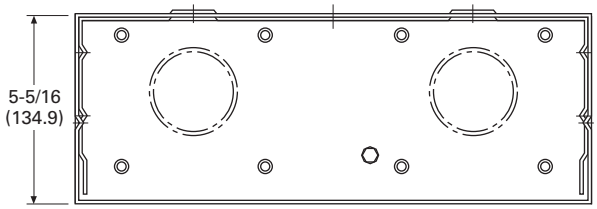


Top Stucco

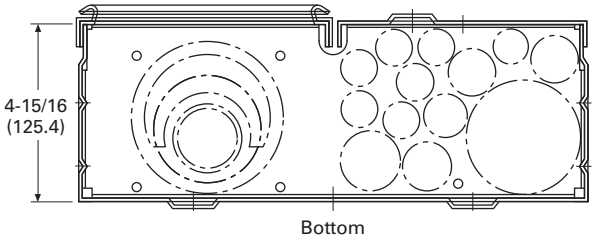


Bottom

Knockouts for Stucco and Surface Units Catalog Numbers—CMBB150BTS, CMBB200BTS, CMBP200BTS, CMBE24L125BTS, CMB24L125BTS, CMBE24L200BTS, CMBEB200BTS, CMBEB150BTS, CMBE88B150BTS, CMBP200BTS, CMBE88B200BTS, MBE24L125BTS, MBE24L200BTS, MBE48B150BTS, MBE48B200BTS, MBE88B200BTS, MBEB200BTS, MBE1224B100BTS, MBE1224B125BTS, CMB88B150BTS, CMB88B200BTS and MB48B200BTS



Top Surface



Bottom

Top Endwall (Surface)

Hub Provision Catalog Number		Quantity
DS100H2		①
DS125H2		①
DS150H2		①
DS200H2		①
DS250H2		①
DS300H2		①
DS900AP	(Adapter Plate if using DS___H1 hubs only) ②	①

Top Endwall (Stucco) ③

Knockout Size Dimensions in Inches (mm)	Quantity
1.25, 1.50, 2.00, 2.50 (31.8, 38.1, 50.8, 63.5)	1
1.00, 1.25, 1.50 (25.4, 31.8, 38.1)	1
0.50, 0.75, 1.00 (12.7, 19.1, 25.4)	1
0.50, 0.75 (12.7, 19.1)	3
0.50 (12.7)	3

Bottom Endwall

Knockout Size Dimensions in Inches (mm)	Quantity
0.50 (12.7)	7
0.50, 0.75 (12.7, 19.1)	4
0.50, 0.75, 1.00 (12.7, 19.1, 25.4)	1
1.00, 1.25, 1.50, 2.00 (25.4, 31.8, 38.1, 50.8)	1
1.25, 1.50, 2.00, 2.50, 3.00 (31.8, 38.1, 50.8, 63.5, 76.2)	1

Notes

① For details regarding quantities, please contact the Technical Resource Center (TRC) at 1-877-ETN-CARE

② Use when DS H1 Type 1, 1.25 and 1.50-inch hubs are needed.

③ RH hubs are to be used for Top Endwall (Stucco) endwalls.