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Main Service Modules

Product Description

- Main terminal box
- Main circuit breaker
- Main bolted pressure switch
- Main fusible switch
- Main fusible switch with pull box
- Underground pull box

Application Description

Main Circuit Breakers with Busway Connections

The Service Entrance Product Team announces the availability of both main fusible switch and main circuit breaker group metering mains with busway connections. This offering provides us with the ability to offer multiple tenant metering in high rise apartment buildings where riser busway is used.

Features, Benefits and Functions

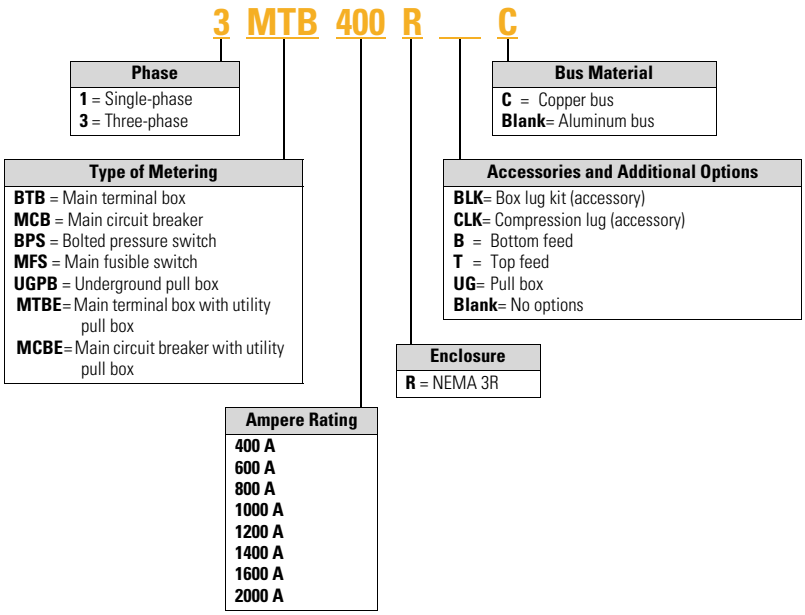
Eaton's Main Service Module

- Offering: main terminal/lug compartment, main circuit breaker, main fusible switch, main bolted pressure switch, main fusible switch with pull box (meets EUSERC electrical requirements), underground pull box termination compartment without cross bus (meets EUSERC electrical requirements)
- Mechanically and electrically built for use with 1MM, 3MM, 35MM, 37MM, 35SS and 37SS modular metering stacks
- For integrated system short-circuit ratings with main devices, see series ratings on **Page V1-T4-144**
- All main service modules include both left and right horizontal bus closure plates
- Two-pole devices are applied to single-phase, three-wire, 120/240 V or 208Y/120 V systems, three-pole devices to 208Y/240 V or 120/240 V delta systems
- Single-phase mains couple to any modular metering stack (1MM, 3MM, 35MM, 37MM, 35SS and 37SS)
- Three-phase mains require three-phase bussed stacks. These modular metering stacks are 3MM, 35MM, 37MM, 35SS and 37SS
- If the ampere rating of the main service module is greater than the horizontal bus rating of the meter stack (residential or commercial), the main service module must be center fed. Examples: 1200 A Main Circuit Breaker (**1MCB1200R**) with an 800 A residential stack (**1MM512R**). 1600 A Main Terminal Box (**3MTB1600R**) with a 1200 A residential stack (**3MM212R12**)
- Most main service modules are available with aluminum or copper bus

Main Circuit Breakers with Busway Connections

- Three-phase, 400–200 A main circuit breakers
- Three-phase, 400–800 A main fusible switches
- Simple bridge joint connection
- Variety of options:
  - Right or left mounting
  - Internal ground or housing ground
- The MFS/MCB and busway connector are supplied completely assembled

Catalog Number Selection



When Ordering:

1. Determine catalog number of Main Service Module.
2. Determine catalog number of Meter Stack (Residential or Commercial).
3. Find quantity and catalog numbers for tenant circuit breakers (found on **Page V1-T4-127** or **V1-T4-137**). Order one breaker per socket.
4. If any accessories are needed, order from **Pages V1-T4-138** and **V1-T4-139**.

Product Selection

Main Terminal Box

- Phase and neutral lugs are included
- Top or bottom feed:
  - For top feed, use Myer type hub
- Indoor or outdoor
- Terminal box UL listed short-circuit rating is the least AIC rating of any installed main tenant breaker—to a maximum of 100,000 rms symmetrical amperes

Main Terminal Box

Main Terminal Box

Ampere Rating	Line Side Lug and Wire Sizes—Included	System Voltage 120/240 Vac Single-Phase, Three-Wire Catalog Number	System Voltage 120/208 Vac Three-Phase, Four-Wire Catalog Number
Aluminum Bus (Standard Offering)			
400	(1) #6–600 or (2) 1/0–250 kcmil ②	Use three-phase	**3MTB400R**
600	(2) 250–500 kcmil ③	Use three-phase	**3MTB600R**
800	(4) 250–500 kcmil ④⑤	**1MTB800R**	**3MTB800R**
1200 ①	(4) 250–500 kcmil ⑤⑥	**1MTB1200R**	**3MTB1200R**
Aluminum Bus (EUSERC)			
400	Crimp lug landing pads (no lugs included)	**1MTBE400R** ⑦	**3MTBE400R** ⑦
800	Crimp lug landing pads (no lugs included)	**1MTBE800R** ⑦	**3MTBE800R** ⑦
Copper Bus (Premium Offering)			
400	(1) #6–600 or (2) 1/0–250 kcmil ②	Use three-phase	**3MTB400RC**
600	(2) 250–500 kcmil ③	Use three-phase	**3MTB600RC**
800	(4) 250–500 kcmil ④⑤	**1MTB800RC**	**3MTB800RC**
1200 ①	(4) 250–500 kcmil ⑤⑥	**1MTB1200RC**	**3MTB1200RC**
1600 ①	(6) 500 kcmil ⑧	**1MTB1600RC**	**3MTB1600RC**

Main Terminal Box Riser Panel

Eaton's Main Terminal Box Riser Panel is a main terminal box with offset lugs on each phase to allow riser cables to pass through the main service module.

These panels are used in the construction of assisted living homes, dormitories, public housing complexes and apartments.

Main Terminal Box Riser Panel

Ampere Rating	Line and Load Side Lug and Wire Sizes Included	System Voltage 120/240 Vac Single-Phase, Three-Wire Catalog Number	System Voltage 120/208 Vac Three-Phase, Four-Wire Catalog Number
Copper Bus (Standard Offering)			
1200	#2 AWG–750 kcmil ①⑨	Use three-phase	**3MTB1200RCRIS**
1600	#2 AWG–750 kcmil ①⑨	Use three-phase	**3MTB1600RCRIS**

Notes

① 1200 A main devices must be center fed when installing 800 A residential meter stacks.
1600 A main devices must be center fed when installing 800–1200 A residential and commercial meter stacks.

② For 400 A units, to obtain (4) 750 kcmil cables per phase—order quantity 4 **1MPLK2**. Kit contains one lug.

③ For compression lug landing kits for 600 A units, order **3MTB600CLK**. Kit includes lug landings for three phases and neutral.

④ For 800 A units, to obtain (4) 1/0–300 kcmil or (2) 1/0–750 kcmil cables per phase—order catalog number **3MTB800BLK**, one lug kit per main terminal box ordered (neutral and ground included in kit).

⑤ For 800 A and 1200 A units, for compression lug landing kits, order **3MTB1200CLK**. Kit includes lug landings for three-phase and neutral.

⑥ For 1200 A units, to obtain (6) 1/0–300 kcmil or (3) 750 kcmil cables per phase—order catalog number **3MTB1200BLK**, one lug kit per main terminal box ordered (neutral and ground included in kit).

⑦ Meets EUSERC electrical requirements and eliminates the need to add additional pull box section. Reference drawing EUSERC DWG-343.

⑧ For 1600 A units, to obtain (4) 750 kcmil cables per phase—order catalog number **3MTB1600BLK**, one lug kit per main terminal box ordered. For a 1600 A compression lug landing kit, order catalog number **3MTB1600CLK**.

⑨ Quantity (10) lugs per phase—quantity (5) lugs incoming and quantity (5) lugs outgoing per phase.