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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-T5-144**
- All main service modules include both left and right horizontal bus closure plates
- Two-pole devices are applied to single-phase, three-wire, 120/240V or 208Y/120V systems, three-pole devices to 208Y/240V or 120/240V delta systems

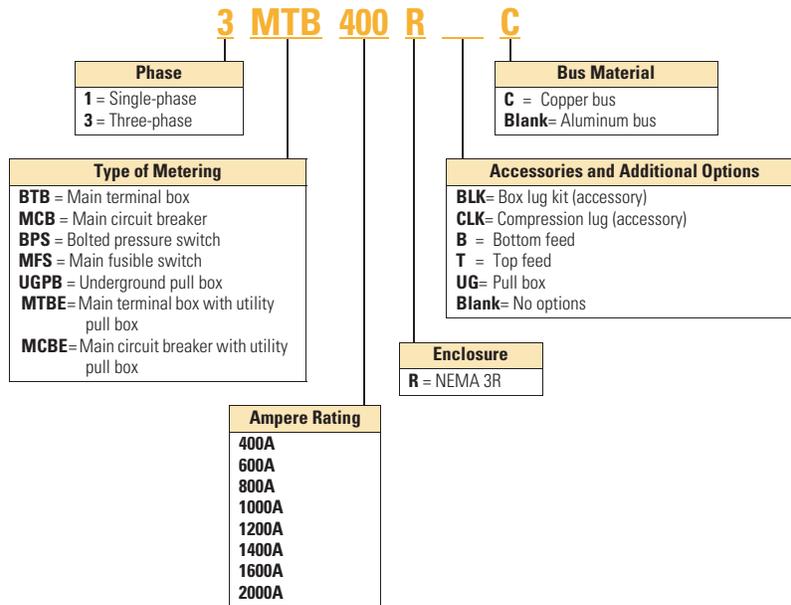
- Single-phase mains couple to any modular metering stack (1MM, 3MM, 35MM, 37MM, 35SS and 37SS)
- Three-phase mains require three-phase bussed stacks. These modular metering stacks are 3MM, 35MM, 37MM, 35SS and 37SS
- If the ampere rating of the main service module is greater than the horizontal bus rating of the meter stack (residential or commercial), the main service module must be center fed. Examples: 1200A Main Circuit Breaker (**1MCB1200R**) with an 800A residential stack (**1MM512R**). 1600A Main Terminal Box (**3MTB1600R**) with a 1200A residential stack (**3MM212R12**)
- Most main service modules are available with aluminum or copper bus

Main Circuit Breakers with Busway Connections

- Three-phase, 400–200A main circuit breakers
- Three-phase, 400–800A 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

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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-T5-127** or **V1-T5-137**). Order one breaker per socket.
4. If any accessories are needed, order from **Pages V1-T5-138** and **V1-T5-139**.

Main Fusible Switches

- Fuses not included
- Main lugs and neutral included with device
- 100 kAIC rating on switches with Class T fuses installed. If converting to Class H, the kAIC rating is 10 and if converted to Class R, the kAIC rating is 200
- 800A top and bottom fed units are supplied with Class T fuse clips as standard. The Class T fuse clips are field convertible to Class L by repositioning. No kit is needed
- Barrier kits available for 400A–800A fusible switches:
Bottom feed—**3MFSBBK**,
Top feed—**3MFSBK**

Note: This is the fuse rating, switch still rated at 100 kAIC.

Main Fusible Switches



Main Fusible Switches

Ampere Rating	Feed	Class Fuse Clips (Fuses Not Included)	Line Side Box Lugs and Wire Sizes (Included with Switch)	System Voltage	
				120/240 Vac Single-Phase, Three-Wire Catalog Number	120/208 Vac Three-Phase, Four-Wire Catalog Number
Aluminum Bus (Standard Offering)					
400	Bottom	T ①	(2) 1/0–300 kcmil or (1) 750 kcmil ④⑤	1MFS400RB	3MFS400RB
400	Top	T ①	(2) 1/0–300 kcmil or (1) 750 kcmil ⑤⑥	1MFS400RT	3MFS400RT
600	Bottom	T ②	(2) #2–600 kcmil ④⑤	1MFS600RB	3MFS600RB
600	Top	T ②	(2) #2–600 kcmil ⑤⑥	1MFS600RT	3MFS600RT
800	Bottom	T, L ③	(4) 3/0–750 kcmil ④	1MFS800RB	3MFS800RB
800	Top	T, L ③	(4) 3/0–750 kcmil ⑥	1MFS800RT	3MFS800RT
1200	Bottom	T, L ③	(4) #2–600 kcmil ⑦	1MFS1200RB	3MFS1200RB
Copper Bus (Premium Offering)					
400	Bottom	T ①	(2) 1/0–300 kcmil or (1) 750 kcmil ④⑤	1MFS400RBC	3MFS400RBC
400	Top	T ①	(2) 1/0–300 kcmil or (1) 750 kcmil ⑤⑥	1MFS400RTC	3MFS400RTC
600	Bottom	T ②	(2) #2–600 kcmil ④⑤	1MFS600RBC	3MFS600RBC
600	Top	T ②	(2) #2–600 kcmil ⑤⑥	1MFS600RTC	3MFS600RTC
800	Bottom	T, L ③	(4) 3/0–750 kcmil ④	1MFS800RBC	3MFS800RBC
800	Top	T, L ③	(4) 3/0–750 kcmil ⑥	1MFS800RTC	3MFS800RTC
1200	Bottom	T, L ③	(4) #2–600 kcmil ⑦	1MFS1200RBC	3MFS1200RBC

Notes

- ① If Class H fuse clips are needed, use catalog number **WCG3HK400** (order 1) per phase). If Class R fuse clips are needed, order catalog number **DS56FK** in addition to **WCG3HK400**. In order to go from T to R, the device must first be converted to H. All kits are field installable and each **DS56FK** kit will convert three poles.
- ② If Class H fuse clips are needed, use catalog number **WCG3HK600** (order 1) per phase). If Class R fuse clips are needed, order catalog number **DS66FK** in addition to **WCG3HK600**. In order to go from T to R, the device must first be converted to H. All kits are field installable and each **DS66FK** kit will convert three poles.
- ③ Class T fuse clips provided are field convertible to Class L by repositioning. No kit is needed.
- ④ If compression lugs are being used, order **3MFS800CLK**. This compression lug kit includes four pads (three poles and neutral).
- ⑤ 1MFS600BLK (4) 3/0–750 kcmil/phase (one kit/phase and one kit/neutral).
- ⑥ If compression lugs are being used, order **3MFS800CLKT**. This compression lug kit includes four pads (three poles and neutral).
- ⑦ IMFS1200LK (3) 750 kcmil/phase (one kit/phase). IMFS1200LKN (3) 750 kcmil (neutral).