Fuji Electric UL 489 Rated Molded Case Circuit Breakers (MCCBs)

- BW Series: Fuji molded case circuit breakers are more compact (especially 100A, 125A, 250A frame) than any breakers on the market, so control panels take up less space than ever before. This product group maintains conformity to all worldwide standards, including cULus / IEC / CE Marking / JIS (Japan) / CCC (China).

- Suitable for branch circuit protection
- Standard type and high interrupting capabilities are available in identically sized breakers
- Auxiliary Switch and Shunt Trip can be installed in the field

Available in five frame sizes, max 600V
- BW125 frame size 15 to 125 amps
- BW250 frame size 125 to 250 amps
- BW400 frame size 250 to 400 amps
- BW630 frame size 500 to 600 amps
- BW900 frame size 700 to 800 amps

Molded Case Circuit Breakers (MCCBs)

- Available in five frame sizes, max 600V
- Starting at $218.00

3P Series Accessories

- Auxiliary Contacts: The auxiliary contacts are accessory contacts for the indication of circuit breaker open-closed or tripped.
- Flexible Shaft Handle: Flexible cable mechanisms allow the external operation of circuit breakers installed in tall, deep enclosures where placement flexibility is required.
- Undervoltage Release: The undervoltage release will trip the circuit breaker when the connected voltage drops to less than 70% of undervoltage release voltage rating. It will allow the circuit breaker to close when the voltage is approximately 85% of rated voltage.
- Replacement Lugs: Replacement box type wiring lugs, line or load side, for Fuji 125 adn 250 A frame MCCBs.
- Terminal Covers: Terminal covers act as guards to shield the equipment stays safely powered down during maintenance and repair work.
- Rotary Handle and Shafts: The rotary handle and shaft assemblies make it possible to externally operate circuit breakers installed in an enclosure.
- Shunt Trip: The shunt trip is for remote tripping of the circuit breaker.
- Lockout Attachment: The lockout attachment is a padlocking device that allows a circuit breaker to be safely locked out in the OFF position by up to three padlocks. It helps to ensure equipment stays safely powered down during maintenance and repair work.
- Auxiliary Contacts: Auxiliary contacts are used to signal external monitoring equipment when the circuit breaker is tripped.
- Rotary Handles and Shafts: Rotary handle and shaft assemblies make it possible to externally operate circuit breakers installed in an enclosure.
- Shunt Trip: The shunt trip mechanically trips the breaker when power is applied to the shunt trip terminals.
- Lockout Attachment: The lockout attachment is a padlocking device that allows a circuit breaker to be safely locked out in the OFF position by up to three padlocks. It helps to ensure equipment stays safely powered down during maintenance and repair work.

Multi-Wire Box Type Wiring Lug

- Multi-Wire box type wiring lugs for 3P series G-, F- or K-frame MCCBs are designed for load-side mounting.

Replacement Lug Kit

- Replacement lugs replace existing line and load terminals and provide wire connecting capabilities for specific current ratings and wire types.

DIN Rail Mounting Clip

- DIN rail mounting clips are used for mounting 3P series G-Frame MCCBs to 35 mm Din rail.

NEMA 12 Safety Door Hardware

- Type C361 door interlocking safety handle kits for 3P series MCCBs and flexible handle when mounted on an SDN12, or equivalent, enclosure. These handles secure the SDN12 enclosure, protecting against unauthorized entry while the MCCB is in the ON position.

Gladiator GCB Series UL 489 Rated Molded Case Circuit Breakers (MCCBs)

- Gladiator GCB Series molded case circuit breakers are designed to provide UL 489 protection for low voltage electrical systems from damage caused by overloads and short circuits. This product line offers 2- and 3-pole breakers, three types of tri units, and high-performance options with up to 100kA interrupting capacity.

- Available in seven frame sizes, max 600V
- Starting at $314.00

- G-frame size 15 to 100 amps
- F-frame size 100 to 225 amps
- K-frame size 250 to 400 amps
- L-frame size ≥400 to 600 amps

- UL 489
- Up to 600 amps
- 65kA @ 240 VAC interrupting rating

- Fixed thermal & magnetic
- Adjustable thermal & magnetic
- Tri Units
- Ultrasensitive thermal & magnetic
- Electronic self-powered

Auxiliary Contacts

- Auxiliary contacts are used to signal external monitoring equipment when the circuit breaker is tripped.
- Rotary Handles and Shafts: Rotary handle and shaft assemblies make it possible to externally operate circuit breakers installed in an enclosure.
- Shunt Trip: The shunt trip mechanically trips the breaker when power is applied to the shunt trip terminals.
- Lockout Attachment: The lockout attachment is a padlocking device that allows a circuit breaker to be safely locked out in the OFF position by up to three padlocks. It helps to ensure equipment stays safely powered down during maintenance and repair work.

Flexible Shaft Handle

- Flange-mounted cable mechanisms allow the external operation of circuit breakers installed in tall, deep enclosures where placement flexibility is required.

Flexible Shaft Handle and Shafts

- Rotary handle and shaft assemblies make it possible to externally operate circuit breakers installed in an enclosure.

High Performance

- Ultimate breaking capacity (kA rms)
- Max 100A @ 1800VAC and 50kA @ 600V

Alarm Contacts

- Alarm contacts indicate that a circuit breaker has tripped due to an overload, short circuit, shunt trip, undervoltage trip, or the “push-to-trip” button. The contacts only operate when the breaker is tripped by a fault condition; they are not triggered when the breaker is operated manually.

Insulation Barrier

- Insulation barriers provide additional isolation between breaker phases.
Gladiator UL 489 Rated Miniature Circuit Breakers (MCBs)
Gladiator GMCBU series miniature circuit breakers are quality and affordable AC and DC rated DIN-rail mountable true branch circuit breakers and can be used in feeder and branch circuit applications up to 63 amps. These circuit breakers are available with B, C or D trip characteristics in accordance with UL 489.

- True branch circuit protection (UL489) circuit breakers.
- Up to 63 amps
- AC and DC rated
- Single-pole, two-pole and three-pole models
- B, C and D trip curves
- Trip-free design – breaker cannot be defeated by holding the handle in the "ON" position
- Captive screws cannot be lost
- Field installable shunt trip and auxiliary switches, side mountable shunt and undervoltage trip
- Contact position indicator (red / green)
- Small size and 35mm DIN rail mountable
- Suitable for reverse feed

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Gladiator UL 1077 Rated Miniature Supplementary Protectors
Gladiator UL 1077 rated GMCB series miniature supplementary protectors provide overcurrent protection where branch protection is already provided or not required. The units can be installed as a component within, or as a part of, an appliance or a piece of electrical equipment and are ideal replacements for fuses that are applied as a supplementary protector. Their advantage over fuses is that it is resettable and the device’s status is easily and clearly identified by the position of the handle and the flag indicator.

- AC and DC rated
- Single-pole, two-pole and three-pole models
- Thermal magnetic overcurrent protection; B, C and D trip curves
- Trip-free design – breaker cannot be defeated by holding the handle in the "ON" position
- Small size and 35mm DIN rail mountable
- Suitable for reverse feed applications

### Which type of Circuit Protection are you looking for?

#### Circuit Protection Selection

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<th>Molded Case and DIN rail mounted UL489 Circuit Breakers</th>
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*Optional Feeder protection, required for Safety Interlock circuits NEC 670.6 (2017)*

**FAZ-NA and FAZ-NA-L Series UL 489 Miniature Circuit Breakers**

The FAZ-NA and FAZ-NA-L series are DIN-rail mountable and can be used in branch circuit applications up to 63 amps and are available with B, C or D trip characteristics.

**Gladiator GMCBU Series Accessories**

- **Auxiliary Contact**
  - Auxiliary contacts signal external monitoring equipment the operational status of the breaker. They are available for both GMCB and GMCBU series breakers.

- **Alarm Contacts**
  - Alarm contacts only change state when the breaker or protector is tripped, indicating an alarm condition for the device; they are not triggered when the breaker is operated manually. Alarm contacts are available for both GMCB and GMCBU series breakers.

- **Shunt Trips**
  - Shunt trips, available for GMCB and GMCBU breakers, provide a way to switch the breaker or supplementary protector off remotely when voltage is applied to the shunt trip terminals.

**Undervoltage Trips**

Undervoltage trips protect downstream equipment from voltage dips by tripping the breaker when power drops below 70 percent of the rated line voltage. They are available for the GMCBU series breakers.

**Locking Device**

The locking device is a safety lockout device that allows a circuit breaker to be safely locked out in the OFF position. It ensures equipment stays safely powered down during maintenance and repair work. The locking device is available for both series GMCU and GMCB series breakers.
Edison Single and Dual-element Fuses
Industry standard extremely fast-acting, single element Class T and dual element time delay Class RK5, RK1, and Class J current limiting short circuit protection is available up to 600 amps. High-speed Class J (JHL) combines electronic and motor branch circuit protection in one fuse. These fuses are recommended for AC power distribution feeder and branch circuits. They provide ideal protection for motors and all general purpose applications including lighting, heating, inductive and non-inductive loads. Class L fast-acting current limiting fuses are particularly suited for protection of circuit breakers with lower interrupting ratings; non-inductive loads such as lighting and heating circuits and drive protection applications.

Edison Current-limiting Fuses
We carry industry standard current limiting class CC, general purpose class M (Midget) and small dimension glass and ceramic circuit protection, fuse holders and accessories. They provide ideal supplementary protection up to 30 amps to branch circuits and end-of-line equipment.

Eaton Supplementary Protectors (UL1077)
Supplementary protectors are UL 1077 recognized and are used in applications where branch circuit protection is not required or is already provided.

- **FAZ Series**
  - DIN rail mountable
  - Full line of auxiliary switches, alarm switches and padlock knockout accessories
  - 8 trip curve 1 to 63 amps
  - C trip curve 0.5 to 63 amps
  - D trip curve 0.5 to 40 amps

Edison
For single Class T $13.00 per 500

Merz UL 508 Non-Fusible Disconnect Switches
Merz disconnect switches safely break power to motor loads and other equipment for service; they can withstand high fault currents and remain operational. These disconnects are manual motor controllers (MMC) capable of across-the-line starting/stopping, according to UL508. The NEC requires each motor controller to have a disconnect within line of sight (article 430.102). The code also recognizes that a controller and disconnect can be the same unit (article 430.109). These devices are manual controllers and disconnects in a single switch. The controller is listed as “Suitable as Motor Disconnect,” in compliance with both the controller and disconnect requirements of the NEC.

- **Open switches/disconnects**
  - 3 Pole; 16 to 125A
  - Shaft/handles/Accessories
  - 3 Pole; 25 to 125A

- **Enclosed Disconnects**
  - 3 Pole; 25 to 63A
  - 3 Pole; 10, 15 & 63A

- **Merz Non-UL Cam Changeover Switches**
  Rotary Transfer Cam switches are CSA rated MMCs and are also rated for switching of other power circuits such as heaters, but motor loads are the primary use. These cam switches are capable of across-the-line switching of 2- or 3-pole motor loads. They are 3-position switches with:
  - Transfer functions: I-OFF-II
  - Reversing: Forward-Off-Reverse

Socomec UL 98 and UL 508 Disconnects
Socomec offers disconnect switches in small, compact frames or larger, heavy-duty switches for more demanding uses. All fused or non-fused disconnects provide a high short-circuit current rating and can make or break under load to provide safe isolation. The versatile Socomec disconnect switches are suitable for a variety of applications.

- **FUSERBLOC Series Fused Disconnects (30-600 Amps)**
  - UL 98 and UL 1990 ratings
  - 30A to 600A compact and large heavy duty frame
  - 100 to 200A SCCR @ 600VAC
  - Front or side operated UL 98 Class J fuseable rotary switch

- **SIRCO and SIRCO M Series Non- Fused Disconnects (16-600 Amps)**
  - UL 98, UL 98B, and UL 508 ratings
  - 3-Pole; 3-Pole + N; 3-Pole; 25 to 125A
  - 3-Pole; 25 to 63A

- **Merz disconnect switches**
  - They are designed for cutting the power to motor loads and other equipment where service is required.
  - These devices are manual controllers and disconnects in a single switch.

- **Socomec disconnect switches**
  - They are designed for cutting the power to motor loads and other equipment where service is required.

- **Eaton disconnect switches**
  - They are designed for cutting the power to motor loads and other equipment where service is required.

Socomec SIRCOVER UL 1008 Manual Transfer Switch
Durable Socomec SIRCOVER transfer switches are UL 1008 rated, suitable for the most demanding applications.

- **Transferring between normal and generator power supplies**
  - Three stable completely isolated positions
  - Compact design

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