

## Type I – Automatic Reset

Cycles or continuously resets until the fault is corrected. Type I circuit breakers are typically used to protect circuits which occasionally experience momentary overloads such as wiper motor and headlamp circuits where a self resetting device is preferred.

## Type II – Modified Reset

Non-cycling, remains in open position while there is power to the circuit. Resets when ignition is turned off. Type II circuit breakers are typically used in applications where fuse replacement is objectionable, such as power window, seat and sunroof circuits.

## Type III – Manual Reset

Manually resettable circuit breakers remain in the open position until a button, lever or other external reset device is manually depressed. Type III circuit breakers are typically used in applications where a manual reset is desired for safe diagnosis of a circuit fault.

### CIRCUIT BREAKERS



## MINI® Circuit Breakers

### Standard Mini Footprint Circuit Breakers:

Designed to fit in a MINI® Blade fuse block or panel. SAE Type II used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard.

| Bulk Part No. | US & Canadian Carded No. | Amp Rating |
|---------------|--------------------------|------------|
| MIB 5         | MIB 5 BP                 | 5          |
| MIB 10        | MIB 10 BP                | 10         |
| MIB 15        | MIB 15 BP                | 15         |
| MIB 20        | MIB 20 BP                | 20         |
| MIB 25        | MIB 25 BP                | 25         |
| MIB 30        | MIB 30 BP                | 30         |

MIB



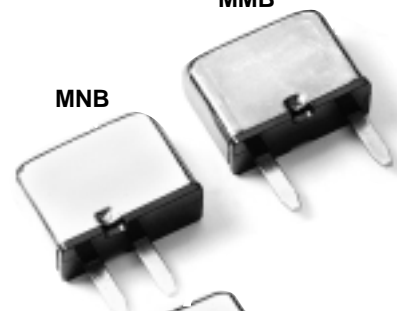
### Wide Mini Footprint Circuit Breakers:

Direct factory replacement for many domestic OEM applications. Designed to fit either in an ATO® or MINI® Blade fuse block or panel. Their blade configuration is of the MINI design and fit in a standard ATO fuse slot or across two MINI slots. Available in either SAE Type I cycling or SAE Type II non-cycling used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard.

| Bulk Part No.                       | US Carded No. | Amp Rating | Typical Application    | OEM No.      |
|-------------------------------------|---------------|------------|------------------------|--------------|
| <b>Cycling Design – Type I</b>      |               |            |                        |              |
| MMB 15                              | MMB 15 BP     | 15         | Heavy Truck Headlamp   | GM# 12135171 |
| MMB 20                              | MMB 20 BP     | 20         | Automotive Headlamp    | GM# 12135072 |
| <b>Non-Cycling Design – Type II</b> |               |            |                        |              |
| MNB 10                              | MNB 10 BP     | 10         | Heavy Duty Truck       | GM# 12135162 |
| MNB 15                              | MNB 15 BP     | 15         | Heavy Duty Truck       | GM# 12135164 |
| MNB 20                              | MNB 20 BP     | 20         | Automotive/Heavy Truck | GM# 12077861 |
| MNB 25                              | MNB 25 BP     | 25         | Automotive/Heavy Truck | GM# 12077862 |
|                                     |               |            |                        | GM# 12088575 |
| MNB 30                              | MNB 30 BP     | 30         | Automotive/Heavy Truck | GM# 12077863 |

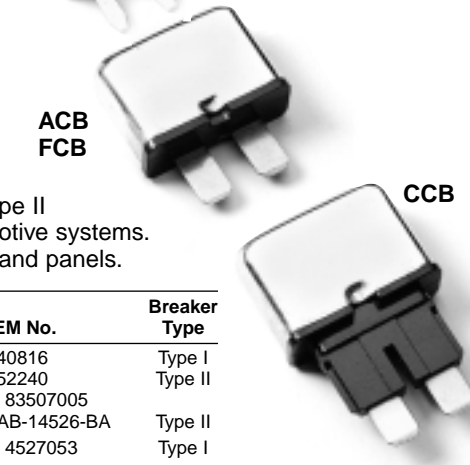
MMB

MNB



ACB  
FCB

CCB



## Specialty OEM Circuit Breakers

Direct factory replacement for many domestic OEM vehicles. SAE Type I and Type II modified reset used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard. Designed to mount in ATO style fuse blocks and panels.

| Bulk Part No. | US Carded No. | Canadian Carded No. | Amp Rating | Typical Application                     | OEM No.                            | Breaker Type |
|---------------|---------------|---------------------|------------|---|------------------------------------|--------------|
| ACB 20        | ACB 20 BP     | ACB 20 CABP         | 20         | Automotive Headlamp                     | GM# 12040816                       | Type I       |
| ACB 30        | ACB 30 BP     | ACB 30 CABP         | 30         | Power Windows, & Locks                  | GM# 01252240<br>Chrysler# 83507005 | Type II      |
| FCB 20        | FCB 20 BP     | FCB 20 CABP         | 20         | Power Windows                           | Ford# D9AB-14526-BA                | Type II      |
| CCB 25        | CCB 25 BP     | CCB 25 CABP         | 25         | Headlamps, Power Windows, Seats & Locks | Chrysler# 4527053                  | Type I       |

UCB



### Universal Circuit Breakers

Universal Circuit Breakers function identically and have same internal components as OEM breakers but offer the versatility of snap off terminals for greater flexibility. SAE Type II modified reset used primarily as a wiring harness protector in 12 volt DC automotive systems. Meets OEM requirements. Conforms to SAE J553C standard. Designed to mount in ATO style fuse blocks and panels.

| Bulk Part No. | US Carded No. | Canadian Carded No. | Amp Rating | Bulk Part No. | US Carded No. | Canadian Carded No. | Amp Rating |
|---------------|---------------|---------------------|------------|---------------|---------------|---------------------|------------|
| UCB 5         | UCB 5 BP      | UCB 5 CABP          | 5          | UCB 20        | UCB 20 BP     | UCB 20 CABP         | 20         |
| UCB 10        | UCB 10 BP     | UCB 10 CABP         | 10         | UCB 25        | UCB 25 BP     | UCB 25 CABP         | 25         |
| UCB 15        | UCB 15 BP     | UCB 15 CABP         | 15         | UCB 30        | UCB 30 BP     | UCB 30 CABP         | 30         |

MRB



### Manually Resettable Circuit Breakers

Manually Resettable Circuit Breakers feature an external button to allow resetting of the device in a safe, convenient manner. SAE Type III manual reset used primarily as a wiring harness protector in heavy duty 12 volt DC truck systems. Meets OEM requirements. Designed to mount in ATO style fuse blocks and panels.

| Bulk Part No. | Amp Rating | Color  | OEM #              |
|---------------|------------|--------|--------------------|
| MRB 10        | 10         | Red    | Navistar 2011944C1 |
| MRB 15        | 15         | Blue   | Navistar 2011945C1 |
| MRB 20        | 20         | Gold   | Navistar 2011946C1 |
| MRB 25        | 25         | Silver | Navistar 2011947C1 |
| MRB 30        | 30         | Green  | Navistar 2011948C1 |

MCB



### MAXI™ Circuit Breakers

Direct factory replacement for many domestic OEM applications. Designed to fit a MAXI™ Blade fuse block or panel. Available in either SAE Type I cycling or SAE Type II non-cycling used primarily as a wiring harness protector in 12 volt DC automotive systems. Meets OEM requirements. Conforms to SAE J553C standard.

| Bulk Part No.                       | US Carded No. | Canadian Carded No. | Amp Rating | Typical Application                           | OEM No.             |
|-------------------------------------|---------------|---------------------|------------|---|---------------------|
| <b>Cycling Design – Type I</b>      |               |                     |            |   |                     |
| MCB 20                              | MCB 20 BP     | MCB 20 CABP         | 20         | Automotive Headlamp                           | GM# 12065132        |
| MCB 30                              | MCB 30 BP     | MCB 30 CABP         | 30         | Automotive Headlamp, Seats & Wipers           | GM# 12088553        |
| <b>Non-Cycling Design – Type II</b> |               |                     |            |   |                     |
| MXB 20                              | MXB 20 BP     | MXB 20 CABP         | 20         | Automotive Power Devices                      | GM# 12077842        |
|                                     |               |                     |            | Heavy Truck & Auto Cooling Fan                | Ford# F6HT-14526-KA |
| MXB 30                              | MXB 30 BP     | MXB 30 CABP         | 30         | Automotive Power Window                       | GM# 12077843        |
|                                     |               |                     |            | Heavy Truck & Auto Cooling Fan & Power Window | Ford# F6HT-14526-LA |
| MXB 40                              | MXB 40 BP     | MXB 40 CABP         | 40         | Heavy Truck                                   | Ford# F6HT-14526-JA |

MXB



CBF



### Fuse Clip Circuit Breakers

Direct replacement for many OEM applications. Designed for glass fuses without physical alteration in the system. Fits 1/4" fuse clips. SAE Type II non-cycling used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard.

| Bulk Part No. | US Carded No. | Canadian Carded No. | Amp Rating | Bulk Part No. | US Carded No. | Canadian Carded No. | Amp Rating |
|---------------|---------------|---------------------|------------|---------------|---------------|---------------------|------------|
| CBF 10        | CBF 10 BP     | CBF 10 CABP         | 10         | CBF 30        | CBF 30 BP     | CBF 30 CABP         | 30         |
| CBF 15        | CBF 15 BP     | CBF 15 CABP         | 15         | CBF 35        | CBF 35 BP     | CBF 35 CABP         | 35         |
| CBF 20        | CBF 20 BP     | CBF 20 CABP         | 20         | CBF 40        | CBF 40 BP     | CBF 40 CABP         | 40         |
| CBF 25        | CBF 25 BP     | CBF 25 CABP         | 25         |               |               |                     |            |

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### Stud Type Low Voltage (6–12 Volts) Circuit Breakers

SAE Type I automatic reset provides protection in installations where it is not possible to manually reset a breaker because of location or safety requirements. Used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard. Available with mounting bracket-change part number from 812 to 813, e.g. 813005 ST.

812



| Bulk Part No. | US Carded No. | Canadian Carded No. | Amp Rating | Bulk Part No. | US Carded No. | Canadian Carded No. | Amp Rating |
|---------------|---------------|---------------------|------------|---------------|---------------|---------------------|------------|
| 812005 ST     | N/A           | N/A                 | 5          | 812025 ST     | N/A           | N/A                 | 25         |
| 812006 ST     | N/A           | N/A                 | 6          | 812030 ST     | 812030 BP     | 812030 CABP         | 30         |
| 812008 ST     | N/A           | N/A                 | 8          | 812035 ST     | N/A           | N/A                 | 35         |
| 812010 ST     | N/A           | N/A                 | 10         | 812040 ST     | 812040 BP     | 812040 CABP         | 40         |
| 812015 ST     | N/A           | N/A                 | 15         | 812050 ST     | 812050 BP     | 812050 CABP         | 50         |
| 812020 ST     | 812020 BP     | 812020 CABP         | 20         |               |               |                     |            |

CIRCUIT BREAKERS

