

## Control Circuit and Load Protection Products

Bulletin Numbers 188, 1489, 1492, 1692



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# Circuit Protection Portfolio



## 1489-M Circuit Breakers

Approved for branch circuit protection in the United States and Canada, and certified as Miniature Circuit Breakers for IEC applications.



## 1492-SP Supplementary Protectors

Overcurrent protection for equipment where branch circuit protection is already provided, or is not required. Also Miniature Circuit Breakers as defined by IEC Standards.



## 1492-D Circuit Breakers

Overcurrent and short circuit protection for higher voltage DC circuits. Also Miniature Circuit Breakers as defined by IEC Standards.



## 188-J 10 kA Regional Circuit Breakers

Protective devices applied at the equipment level. Regional certifications only. Available for purchase in China and Europe.



## 188-K 6 kA Regional Circuit Breakers

Protective devices applied at the equipment level. Regional certifications only. Available for purchase in China and Europe.

Rockwell Automation offers a wide range of Allen-Bradley circuit protection products designed for a variety of applications.

## Miniature Circuit Breakers, Supplementary Protectors, and Residual Current Devices

| Product     | Certifications |       |     |    |     |     | Poles |     |   |   |     |   | Trip |   |   |     |     |     |   |     |     |     |   |     |  |
|-------------|----------------|-------|-----|----|-----|-----|-------|-----|---|---|-----|---|------|---|---|-----|-----|-----|---|-----|-----|-----|---|-----|--|
|             | cULus          | cURus | CSA | CE | VDE | CCC | 1     | 1+N | 2 | 3 | 3+N | 4 | B    | C | D | 0.2 | 0.5 | 0.8 | 1 | 1.2 | 1.5 | 1.6 | 2 | 2.5 |  |
| 1489-M      | ●              |       | ●   | ●  | ●   | ●   | ●     |     | ● | ● |     |   |      | ● | ● |     | ●   |     | ● |     |     | ●   | ● |     |  |
| 1492-SP     |                | ★     | ●   | ●  | ●   | ●   | ●     | ♣   | ● | ● | ♣   |   | ●    | ● | ● |     | ●   |     | ● |     |     |     | ● |     |  |
| 1492-D      |                | ★     | ●   | ●  | ●   |     | ●     |     | ● |   |     |   |      | ● |   |     | ●   |     | ● |     |     | ●   | ● |     |  |
| 188-J,-K    |                |       |     | ●  | ●   | ●   | ●     | ●   | ● | ● | ●   | ● | ●    | ● | ● |     | ●   |     | ● |     |     |     | ● |     |  |
| 1492-RCD    |                | ●     |     | ●  | ●   | ●   |       |     | ● |   |     | ● |      |   |   |     |     |     |   |     |     |     |   |     |  |
| 1492-MC     | ●              |       | ●   |    |     |     | ●     |     | ● | ● |     |   |      |   |   |     |     |     |   |     |     |     |   |     |  |
| 1492-GH,-GS |                | ●     | ●   | ●  | ●   |     | ●     |     | ● | ● |     |   |      |   |   | ●   | ●   | ●   | ● | ●   | ●   |     | ● | ●   |  |

★ UL Recognized only.

♣ 1+N and 3+N devices are not cURus or CSA certified.

## Electronic Circuit Protectors

| Product | Certifications |    |      |        | Circuits |     | Output Current Rating [A] |   |   |   |   |    |     |      |
|---------|----------------|----|------|--------|----------|-----|---------------------------|---|---|---|---|----|-----|------|
|         | cULus          | CE | C1D2 | NEC C2 | 4        | 2x2 | 1                         | 2 | 3 | 4 | 6 | 10 | 3/6 | 6/12 |
| 1692    | ●              | ●  | ●    | ●      | ●        | ●   | ●                         | ● | ● | ● | ● | ●  | ●   | ●    |



### 1492-RCD Residual Current Devices

By detecting small leakage currents and disconnecting all ungrounded connectors quickly, RCDs can prevent injury to exposed personnel and damage to equipment.



### 1692 Electronic Circuit Protectors

Protection for secondary circuits of 24V DC switched mode power supplies. These modules monitor both supply voltage and load currents, and can be monitored and controlled locally and remotely.



### 1492-MC Circuit Breakers and Ground Fault Protectors

Thermal magnetic circuit protection and sensing thresholds for personnel and equipment protection.



### 1492-GH, -GS High-density Supplementary Protectors

Thermal magnetic circuit breakers with a high density design useful when DIN Rail space is a premium.



### 1492-FB Fuse Holders

Designed for use in many OEM applications. Provides safe and convenient installation of Midget, Class CC, and Class J fuses.

- Test equipment
- Automotive systems
- Controller I/O points
- Power supplies

- Relay and contractor coils
- Medical equipment
- Control instrumentation

- Computers
- Solenoids
- Transformers

| Rated Current [A] |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------------------|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 3                 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 13 | 15 | 16 | 20 | 25 | 30 | 32 | 35 | 40 | 45 | 50 | 55 | 60 | 63 | 70 | 80 |
| ●                 | ● | ● | ● | ● | ● | ●  |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    | ●  |    | ●  | ●  |    |    |
| ●                 | ● | ● | ● | ● | ● | ●  |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    | ●  |    | ●  | ●  |    |    |
| ●                 | ● |   | ● |   | ● | ●  |    | ●  |    | ●  | ●  | ●  |    | ●  |    | ●  |    | ●  |    |    | ●  |    |    |
| ●                 | ● |   | ● |   | ● | ●  |    | ●  |    | ●  | ●  | ●  |    | ●  |    | ●  |    | ●  |    |    | ●  |    |    |
|                   |   |   |   |   |   | ●  |    |    | ●  |    | ●  | ●  | ●  |    | ●  |    | ●  | ●  | ●  | ●  |    | ●  | ●  |
| ●                 | ● | ● | ● | ● | ● | ●  | ●  |    | ●  | ●  | ●  | ●  |    |    | ●  | ●  | ●  | ●  | ●  | ●  |    | ●  | ●  |

Typical North America Current Ratings: 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 10, 15, 20, 25, 30, 40, 50, 60, 63 A.

Typical IEC Current Ratings: 0.5, 1, 1.6, 2, 3, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 63 A.

## Fuse Holders

| Product | Certifications |     |    | Poles |   |   | Indication |   |    | Fuse Types |     |     |     |
|---------|----------------|-----|----|-------|---|---|------------|---|----|------------|-----|-----|-----|
|         | cULus          | CSA | CE | 1     | 2 | 3 | none       | L | D1 | M30        | C30 | J30 | J60 |
| 1492-FB | ●              | ●   | ●  | ●     | ● | ● | ●          | ● | ●  | ●          | ●   | ●   | ●   |