

# **Control Circuit and Load Protection**















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

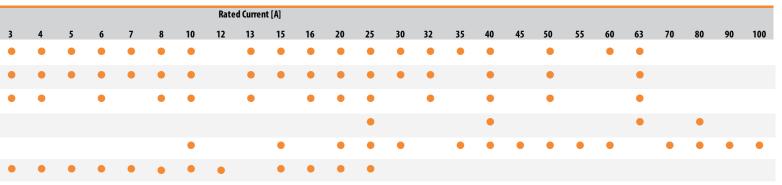
Product			Certific	ations					Po	les				Trip										
	cULus	cURus	CSA	CE	VDE	ccc	1	1+N	2	3	3+N	4	В	C	D	0.2	0.5	0.8	1	1.2	1.5	1.6	2	2.5
1489-M	•		•	•	•	•			•					•	•		•		•			•		
1492-SP			•	•	•	•	•	<b>*</b>	•	•	<b>♣</b>		•	•	•		•		•				•	
188				•	•	•	•	•	•	•	•	•	•	•	•		•		•				•	
1492-RCD		•	•	•	•	•			•			•												
1492-MC	•		•				•		•	•														
1492-GH,-GS	•		•	•			•		•	•						•	•	•	•	•	•		•	•

- **♦**1492-SP supplementary protectors are UL Recognized only.
- 1+N and 3+N devices are not cURus or CSA certified.

#### **Electronic Circuit Protectors**

Product	Certifications			Ciı	Circuits Output Current F						ting [A]				
	cULus	CE	C1D2	NEC C2	4	2x2	1	2	3	4	6	10	3/6	6/12	
1692	•													•	





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	Cer	tificatio	ons		Poles		ln	ndicatio	n		Fuse	Types	
	cULus	CSA	Œ	1	2	3	none	L	D1	M30	C30	J30	J60
1492-FB													

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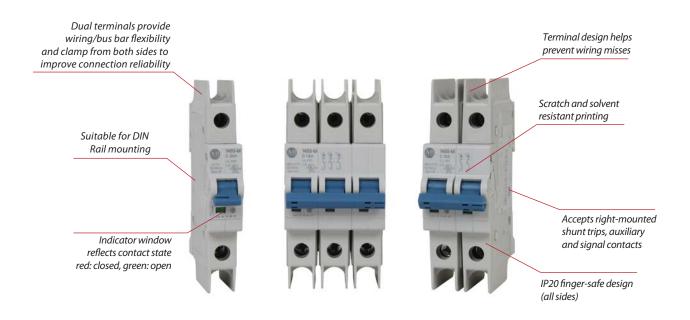


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For the full line of Allen-Bradley Circuit Protection products, please visit: http://literature.rockwellautomation.com and search for Publication 1492-SG122.

### 1489-M Circuit Breakers



Bulletin 1489-M thermal-magnetic Circuit Breakers are approved for branch circuit protection in the United States and Canada, and are certified as Miniature Circuit Breakers for IEC applications.

These branch protectors are compatible with many accessories to meet diverse application needs, including UL 508 Listed bus bars for convenience in panel assembly, auxiliary contacts, signal contacts and shunt trips for versatility, and lockout attachments for safety during maintenance.

#### **Features**

- Current limiting
- Fast breaking time
- High rated voltage
- Superior shock and vibration resistance to help prevent nuisance tripping
- Dual terminals allow a more secure connection of two wires, or both a wire and bus bar
- Terminal design helps prevent wiring misses by directing wires into the terminal openings, even while tightening
- Reversible line and load connections
- Single and multi-pole toggle mount lock out attachments available for Lockout/Tagout (LOTO)
- RoHS compliant and fully recyclable device
- Suitable for extreme ambient conditions

1489-N	A Circuit Breakers					
Rated Voltage	UL/CSA: Max. 480Y/277V AC IEC: U <sub>e</sub> 230/400V AC					
Interrupting Capacity	UL/CSA: 10 kA IEC: 15 kA					
<b>Current Ratings</b>	0.563 A					
Poles	1, 2, 3					
Trip Curves	C, D					
Standards Compliance	UL 489 CSA C22.2 No. 5.1 EN 60947-2 GB 14048.2					
Certifications	UL Listed, File No. E197878 CSA Certified, File No. 259391 CE Marked VDE Certified CCC Certified RoHS Compliant					

### **Catalog Number Explanation**

Note: Examples given in this section are for reference purposes. This basic explanation should not be used for product selection; some combinations may not produce a valid catalog number.

1489 - M 1 C 005

а

	Voltage Type
Code	Description
М	AC Circuit Breaker

b

	Poles
Code	Description
1	1-Pole
2	2-Pole
3	3-Pole

C

	Trip Curve							
Code	Trip Curve							
C	Trip Curve C							
D	Trip Curve D							

d

	Rated Current (/ <sub>n</sub> )
Code	Current [A]
005	0.5
010	1
016	1.6
020	2
030	3
040	4
050	5
060	6
070	7
080	8
100	10
130	13
150	15
160	16
200	20
250	25
300	30
320	32
350	35
400	40
500	50
600	60
630	63

# **Product Selection**

### 1-Pole Circuit Breakers

				Trip Curve C Inductive	Trip Curve D Highly Inductive
Photo/Wiring Diagram	UL/CSA Max. Voltage	IEC/EN Max. Voltage	Continuous Current Rating $(I_n)$ [A]	510 <i>I</i> <sub>n</sub> Cat. No.	1020 <i>I</i> <sub>n</sub> Cat. No.
Thoto, Willing Diagram	oz, con max. voitage	ize, ziv max. voitage	0.5	1489-M1C005	1489-M1D005
			1	1489-M1C010	1489-M1D010
			1.6	1489-M1C016	1489-M1D016
			2	1489-M1C020	1489-M1D020
W			3	1489-M1C030	1489-M1D030
			4	1489-M1C040	1489-M1D040
			5	1489-M1C050	1489-M1D050
Manual Ma			6	1489-M1C060	1489-M1D060
			7	1489-M1C070	1489-M1D070
1 Amile	277V AC,		8	1489-M1C080	1489-M1D080
1	48V DC		10	1489-M1C100	1489-M1D100
		230V AC	13	1489-M1C130	1489-M1D130
			15	1489-M1C150	1489-M1D150
				16	1489-M1C160
			20	1489-M1C200	1489-M1D200
			25	1489-M1C250	1489-M1D250
			30	1489-M1C300	1489-M1D300
			32	1489-M1C320	1489-M1D320
11			35	1489-M1C350	1489-M1D350
73/2	C Curve: 277V AC, 48V DC D Curve: 240V AC, 48V DC		40	1489-M1C400	1489-M1D400
1-pole			50	1489-M1C500	1489-M1D500
	240V AC, 48V DC		60	1489-M1C600	1489-M1D600
			63	1489-M1C630	1489-M1D630