



CIRCUIT BREAKERS

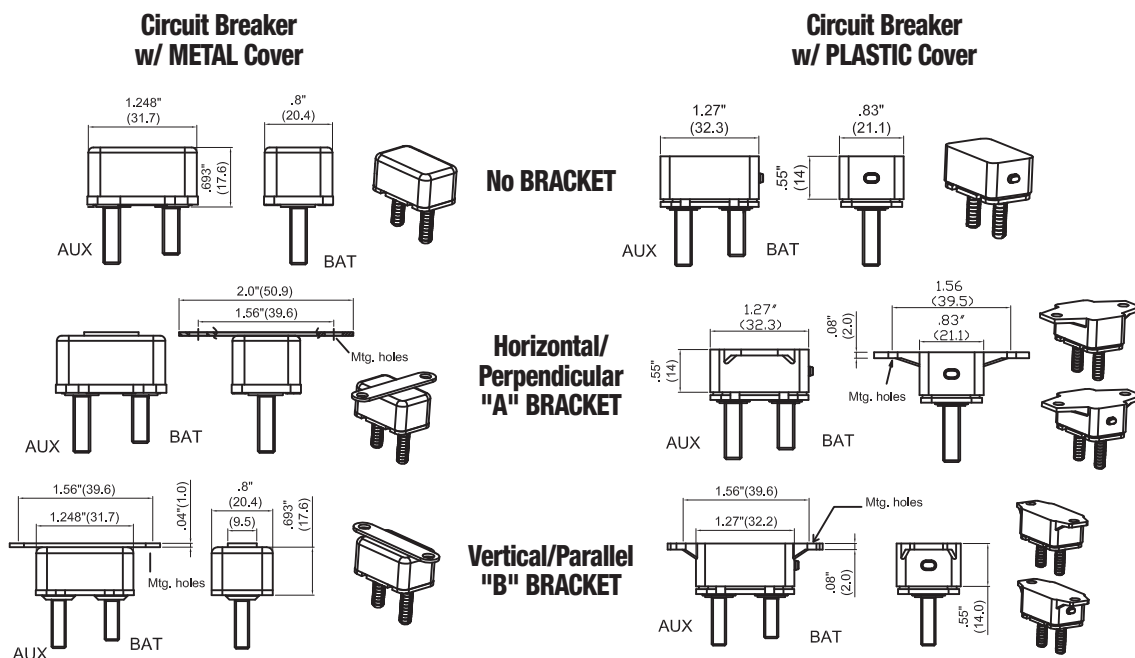
SERIES TYPE III (24VDC) - MANUAL RESET

Cambridge™ offers a wide variety of Single Pole Thermal Type Circuit Breakers in plastic or metal housings; with or without brackets; and with AMP ratings ranging from 5AMP - 50AMP. Their usage is common in automotive circuitry, power outlet strips, trolling motors, portable generators, and welding equipment

CIRCUIT BREAKER KEY

1	1	2	A	0	5	-	B	5	P
Type+Voltage	Terminal	Rating	Bracket	Mounting Holes	Cover*				
112: Type I, 12VDC 212: Type II, 12VDC 324: Type III, 24VDC 124: Type I, 24VDC 224: Type II, 24VDC	A: Two 10-32 studs; .66 (Aux), .56 (Bat) B: Two 10-32 studs; .56 (Aux & Bat) C: Two 10-32 studs; .66 (Aux & Bat) D: Two .25 QC; (Aux & Bat)*** H: One 10-32 stud; .56 (Bat), Double .25 QC (Aux)** L: Two 10-32 studs; .37 (Aux & Bat)	05 - 5 amps 08 - 8 amps 10 - 10 amps 12 - 12 amps 15 - 15 amps 20 - 20 amps 25 - 25 amps 30 - 30 amps 35 - 35 amps 40 - 40 amps 50 - 50 amps	0 - No Bracket A - Bracket B - Bracket C - Bracket E - Bracket (Plastic Only)	0 - No Bracket 1 - 0.140 ø 2 - 0.196 ø 3 - 0.237 ø (Metal only) 4 - 0.265 ø (Plastic only) 5 - 0.228 ø (Plastic only) 6 - 0.221 ø (Metal only)	M - Metal* P - Plastic*				

Two nuts included with each circuit breaker
 *Series 312 available in plastic cover only. Series 212 & 224 available in metal cover only.
 **40A maximum
 ***30A maximum





SPECIFICATIONS: Single-Pole Thermal Type Breakers

Rating: 5-50A, 14VDC, 28VDC (for Type II & Type III)

Interrupt Rating (Branch Circuit Protection): 2.5KA @ 12 VDC (Type I & Type I-28VDC, Sealed & Type III)

Operating Temperature: -40°F (-40°C) to 185°F (85°C)

Storage Temperature: -40°F (-40°C) to 260°F (125°C)

Materials: Black UL Rated Thermoplastic Body (Thermo set for Type II Body & Button); Cover is Gray Thermoplastic or Steel, Type I-Gold, Type II-Silver

Terminal: #10-32 Thread and Quick-Connector Available

Torque: 24 in-lbs (2.7 Nm) max

Mounting Torque: Plastic cover: 15 in-lbs (1.7 Nm); Metal cover: 30 in-lbs (3.4 Nm)

Ingress Protection: IP66 On plastic cover version only (except for terminals)

Compliances: SAE J553; SAE J1171 (Consult factory for Ignition Protection Rating)

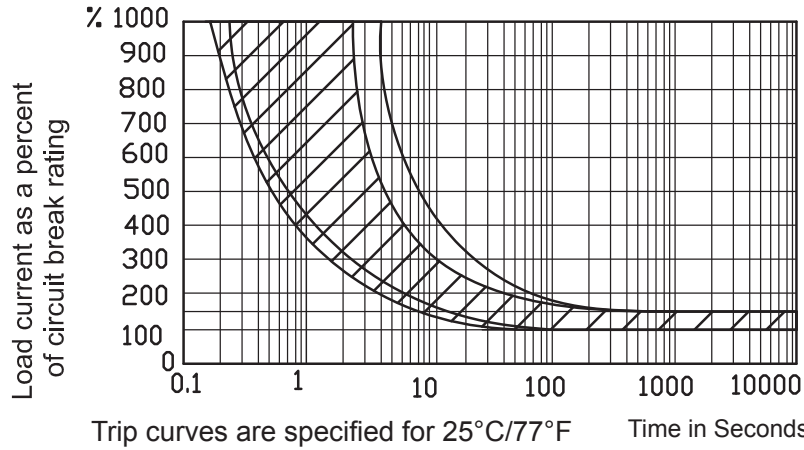
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ITEM #	TERMINAL	RATING	BRACKET	MOUNTING HOLE DIA. Inches	CASE QTY
324A50-A2P	Two 10-32 studs; 0.66" (AUX); 0.56" (Bat)	50 AMP	A	0.196	300
324A50-B5P	Two 10-32 studs; 0.66" (AUX); 0.56" (Bat)	50 AMP	B	0.228	300
324A40-A4P	Two 10-32 studs; 0.66" (AUX); 0.56" (Bat)	40 AMP	A	0.265	300
324A40-B5P	Two 10-32 studs; 0.66" (AUX); 0.56" (Bat)	40 AMP	B	0.228	300
324A30-A4P	Two 10-32 studs; 0.66" (AUX); 0.56" (Bat)	30 AMP	A	0.265	300
324A30-B5P	Two 10-32 studs; 0.66" (AUX); 0.56" (Bat)	30 AMP	B	0.228	300
324A30-00P	Two 10-32 studs; 0.66" (AUX); 0.56" (Bat)	30 AMP	N/A	N/A	300
324A10-B5P	Two 10-32 studs; 0.66" (AUX); 0.56" (Bat)	10 AMP	B	0.228	300

*Manual Reset

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	100%	150%	200%	300%
Less than 25A	> 1,800 sec	< 600 sec.	5 ~ 40 sec.	2 ~ 8 sec.
Over 30A	> 1,800 sec	< 600 sec.	15 ~ 70 sec.	4 ~ 12 sec.



Derating Factor	
0°C	x 1.46
10°C	x 1.35
15°C	x 1.14
18°C	x 1.11
25°C	x 1.00
32°C	x 0.92
40°C	x 0.82
50°C	x 0.70
60°C	x 0.57

