



Designed specifically for world market applications, the B-series utilizes the hydraulic magnetic principle which provides precise operation and performance even when exposed to extremely hot and/or cold application environments.

Typical applications include power supplies, medical equipment, office equipment, control panels and marine equipment. In addition, these breakers meet CSA Standard 22.2 No. 100 for the Generator & Welder markets.

1-6 poles, 0.02 - 50 amps, up to 277 VAC or 80 VDC, with choice of time delays, terminals and actuator colors.

Agency Certifications

UL Recognized

UL Standard 1077



Component Recognition Program as Protectors Supplementary (Guide CCN/QVNU2, File E75596)

UL Standard 508



Switches, Industrial Control (Guide CCN/NRNT2, File E148683)

UL Standard 1500



Protectors, Supplementary for Marine Electrical & Fuel Systems (Guide PEQZ2, File E75596) Ignition Protection

UL Listed

UL Standard 489



Circuit Breakers, Molded Case, (Guide DIVQ, File E189195)

UL Standard 489A



Communications Equipment (Guide CCN/DITT, File E189195)

CSA Accepted



Component Supplementary Protector under Class 3215 30, File 047848 0 000 CSA Standard C22.2 No. 235

TUV Certified



EN60934, under License No. R72040875

VDE Certified



EN60934, VDE 0642 under File No. 10537

Electrical

Table A: Lists UL Recognized & CSA Certified configurations and performance capabilities as a Component Supplementary Protector.

B -SERIES TABLE A: COMPONENT SUPPLEMENTARY PROTECTORS										
CIRCUIT CONFIGURATION	VOLTAGE			CURRENT RATING		SHORT CIRCUIT CAPACITY (AMPS)		APPLICATION CODES		CONSTRUCTION NOTES
	MAX. RATING	FREQUENCY	PHASE	FULL LOAD AMPS	GENERAL PURPOSE AMPS	UL/CSA		UL	CSA	
						WITH BACKUP FUSE	WITHOUT BACKUP FUSE			
SERIES	65	DC	---	31 - 50	---	---	7500	TC1,2, OL1,U1	TC1,2, OL1,U1	
	80	DC	---	0.02 - 30	---	---	7500	TC1,2, OL1,U1	TC1,2, OL1,U1	
				---	31 - 50	---	7500	TC1,2, OL0,U1	TC1,2, OL0,U1	
	125	50 / 60	1	1 - 50	---	---	2000	TC1, OL1,U2	TC1, OL1,U2	
	125	50 / 60	1 ⁴	1 - 50	---	---	1000	TC1, OL1,U2	TC3, OL1,U3	
	125 / 250	50 / 60	1 ³	0.02 - 30	---	---	3000	TC1,2, OL1,U1	TC1,2, OL1,U1	
	250	50 / 60	1	0.02 - 30	---	---	1500	TC1, OL0,U2	TC1, OL0,U2	Single Pole Break
				0.02 - 30	---	---	3000	TC1, OL1,U2	TC1, OL1,U2	Two Pole Break
				---	31 - 50	---	3000	TC1,2, OL0,U1	TC1,2, OL0,U1	
			1 ⁴	1 - 50	---	---	1000	TC1, OL1,U2	TC3, OL1,U3	
			3	0.02 - 30	---	5000 ²	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
				31 - 50	---	2000 ¹	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
	277	50 / 60	1	0.02 - 30	---	5000 ¹	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
DUAL COIL	65	DC	---	0.02 - 50	---	---	7500	TC1,2, OL1,U1	TC1,2, OL1,U1	
	80	DC	---	0.02 - 30	---	---	7500	TC1,2, OL1,U1	TC1,2, OL1,U1	
				---	31 - 50	---	7500	TC1,2, OL0,U1	TC1,2, OL0,U1	
	125	50 / 60	1	1 - 50	---	---	2000	TC1, OL1,U2	TC1, OL1,U2	
	125 / 250	50 / 60	1 ³	0.02 - 30	---	---	3000	TC1,2, OL1,U1	TC1,2, OL1,U1	
	250	50 / 60	1	0.02 - 30	---	---	1500	TC1, OL0,U2	TC1, OL0,U2	Single Pole Break
				0.02 - 30	---	---	3000	TC1, OL1,U2	TC1, OL1,U2	Two Pole Break
				---	31 - 50	---	3000	TC1,2, OL0,U1	TC1,2, OL0,U1	
			1 ⁴	1 - 50	---	---	1000	TC1, OL1,U2	TC3, OL1,U3	
			3	0.02 - 30	---	5000 ²	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
				31 - 50	---	2000 ¹	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
	277	50 / 60	1	0.02 - 30	---	5000 ¹	---	TC1,2, OL1,U1	TC1,2, OL1,U1	
SHUNT	80	DC	---	0.02 - 30	---	---	7500	TC1,2, OL1,U1	TC1,2, OL1,U1	
	125 / 250	50 / 60	1 ³	0.02 - 30	---	---	3000	TC1,2, OL1,U1	TC1,2, OL1,U1	
	250	50 / 60	1	0.02 - 30	---	---	3000	TC1,2, OL1,U1	TC1,2, OL1,U1	
			3	0.02 - 30	---	5000 ²	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
	277	50 / 60	1	0.02 - 30	---	5000 ¹	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
RELAY	80	DC	---	0.02 - 30	---	---	7500	TC1,2, OL1,U1	TC1,2, OL1,U1	
	125 / 250	50 / 60	1 ³	0.02 - 30	---	---	3000	TC1,2, OL1,U1	TC1,2, OL1,U1	
	250	50 / 60	1	0.02 - 30	---	---	3000	TC1,2, OL1,U1	TC1,2, OL1,U1	
			3	0.02 - 30	---	5000 ²	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
	277	50 / 60	1	0.02 - 30	---	5000 ¹	---	TC1,2, OL1,C1	TC1,2, OL1,C1	
SWITCH ONLY	65	DC	---	0.02 - 50	---	---	---	---	---	
	80	DC	---	0.02 - 30	---	---	---	---	---	
				1	---	31 - 50	---	---	---	---
	250	50 / 60	3	0.02 - 50	---	---	---	---	---	
			1	0.02 - 30	31 - 50	---	---	---	---	

Notes for Table A:

1 Requires branch circuit backup with a UL LISTED Type K5 or RK5 fuse (15A minimum) at no more than 4 times the rating of the protector.

2 Same as note 1, except that backup fuse is limited to 80A maximum.

3 2 pole protector required (with one pole per power line) for: 250/125 VAC, 125/250 VAC and 208Y/120 VAC Power Systems. 1 pole protector required for: 125 VAC, 1Ø Power System.

Electrical

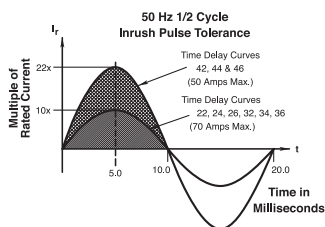
Maximum Voltage	277VAC 50/60 Hz, 80VDC
Current Ratings	Standard current coils: 0.100, 0.250, 0.500, 0.750, 1.00, 2.50, 5.00, 7.50, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0 and 50.0 amps. Other ratings available, see ordering scheme.
Standard Voltage Coils	DC - 6V, 12V; AC - 120V, other ratings available, see ordering scheme.
Auxiliary Switch Rating	SPDT; 10.1 AMPS - 250VAC, 1.0A 65 VDC or 0.5A 80 VDC, 0.1 Amps - 125VAC (with gold contacts). VDE-1.0 Amp - 125VAC.
Insulation Resistance	Minimum of 100 Megohms at 500 VDC.
Dielectric Strength	UL, CSA - 1500 V 50/60 Hz for one minute between all electrically isolated terminals. B-Series circuit breakers comply with the 8mm spacing and 3750V 50/60 Hz dielectric requirements from hazardous voltage to operator accessible surfaces, between adjacent poles and from main circuits to auxiliary circuits per Publications EN 60950 and VDE 0805.
Resistance, Impedance	Values from Line to Load Terminal - based on Series Trip Circuit Breaker.

RESISTANCE, IMPEDANCE VALUES
from Line to Load Terminals
(Values Based on Series Trip Circuit Breaker)



CURRENT (AMPS)	TOLERANCE (%)
0.10 - 5.0	15%
5.1 - 20.0	25%
20.1 - 50.0	35%

Pulse Tolerance Curves



Mechanical

Endurance	10,000 ON-OFF operations @ 6 per minute; with rated Current and Voltage.
Trip Free	All B-Series Circuit Breakers will trip on overload, even when Handle is forcibly held in the ON position.
Trip Indication	The operating Handle moves positively to the OFF position when an overload causes the breaker to trip.

Physical

Number of Poles	1 - 6 poles at 30 Amps or less. 1 and 2 poles at 31 Amps thru 50 Amps.
Internal Circuit Config.	Series, (with or without auxiliary switch), Shunt and Relay with current or voltage trip coils, Dual Coil, Switch Only (with or without auxiliary switch).
Weight	Approximately 65 grams/pole. (Approximately 2.32 ounces/pole.)
Standard Colors	Housing- Black; Actuator - See Ordering Scheme.

Environmental

Designed and tested in accordance with requirements of specification MIL-PRF- 55629 and MIL-STD-202 as follows:

Shock	Withstands 100 Gs, 6ms, sawtooth while carrying rated current per Method 213, Test Condition "I". Instantaneous and ultra-short curves tested @ 90% of rated current.
Vibration	Withstands 0.060" excursion from 10-55 Hz, and 10 Gs 55-500 Hz, at rated current per Method 204C, Test Condition A. Instantaneous and ultrashort curves tested at 90% of rated current.
Moisture Resistance	Method 106D, i.e., ten 24-hour cycles @ + 25°C to +65°C, 80-98% RH.
Salt Spray	Method 101, Condition A (90-95% RH @ 5% NaCl Solution, 96 hrs).
Thermal Shock	Method 107D, Condition A (Five cycles @ -55°C to +25°C to +85°C to +25°C).
Operating Temperature	-40° C to +85° C

B	A	3	-	B	0	-	10	-	450	-	1	B	1	-	C
1 Series	2 Actuator	3 Poles		4 Circuit	5 Aux/Alarm Switch		6 Frequency & Delay		7 Current Rating		8 Terminal	9 Actuator Color	10 Mounting/Barriers		11 Agency Approval

1 SERIES**B****2 ACTUATOR¹**

- A** Handle, one per pole
B Handle, one per multipole unit
S Mid-Trip Handle, one per pole
T Mid-Trip Handle, one per pole & Alarm Switch

3 POLES

1	One	3	Three	5	Five
2	Two	4	Four	6	Six

4 CIRCUIT

- | | | | |
|----------------------|-----------------------|------------------------|--|
| A² | Switch Only (No Coil) | G³ | Relay Trip (Voltage) |
| B | Series Trip (Current) | H^{3,4} | Dual Coil with Shunt Trip Voltage Coil |
| C | Series Trip (Voltage) | J^{3,4} | Dual Coil with Shunt Trip Voltage Coil (side terminal) |
| D³ | Shunt Trip (Current) | K^{3,4} | Dual Coil with Relay Trip Voltage Coil |
| E³ | Shunt Trip (Voltage) | | |
| F³ | Relay Trip (Current) | | |

5 AUXILIARY/ALARM SWITCH⁵

- | | | | |
|----------|---|----------|---|
| 0 | w/o Aux Switch | 5 | S.P.S.T., 0.093 Q.C. Term.(Gold Contacts) |
| 1 | S.P.D.T., 0.093 Q.C. Term. | 6 | S.P.S.T., 0.139 Solder Lug |
| 2 | S.P.D.T., 0.110 Q.C. Term. | 7 | S.P.S.T., 0.110 Q.C. Term.(Gold Contacts) |
| 3 | S.P.D.T., 0.139 Solder Lug | 8 | S.P.S.T., 0.187 Q.C. Term. |
| 4 | S.P.D.T., 0.110 Q.C. Term.(Gold Contacts) | 9 | S.P.D.T., 0.187 Q.C. Term. |

6 FREQUENCY & DELAY

- | | | | |
|-----------------------|-------------------------|-----------------------|---------------------------|
| 03² | DC 50/60Hz, Switch Only | 30 | DC, 50/60Hz Instantaneous |
| 10⁶ | DC Instantaneous | 31 | DC, 50/60Hz Ultra Short |
| 11 | DC Ultra Short | 32 | DC, 50/60Hz Short |
| 12 | DC Short | 34 | DC, 50/60Hz Medium |
| 14 | DC Medium | 36 | DC, 50/60Hz Long |
| 16 | DC Long | 42⁷ | 50/60Hz Short, Hi-Inrush |
| 20⁶ | 50/60Hz Instantaneous | 44⁷ | 50/60Hz Medium, Hi-Inrush |
| 21 | 50/60Hz Ultra Short | 46⁷ | 50/60Hz Long, Hi-Inrush |
| 22 | 50/60Hz Short | 52⁷ | DC, Short, Hi-Inrush |
| 24 | 50/60Hz Medium | 54⁷ | DC, Medium, Hi-Inrush |
| 26 | 50/60Hz Long | 56⁷ | DC, Long, Hi-Inrush |

Notes:

- Actuator Code:
A: Handle tie pin spacer(s) and retainers provided unassembled with multi-pole units.
B: Handle location as viewed from front of breaker:
2 pole - left pole 3 pole - center pole
4 pole - two handles at center poles 5 pole - three handles at center poles
6 pole - four handles at center poles
S: Handle moves to mid-position only upon electrical trip of the breaker. Available with circuit codes B, C, D, E, F, G, H and K.
T: Handle moves to mid-position and alarm switch activates only upon electrical trip of the breaker. Available with circuit codes B & C.
- Switch Only circuits, rated up to 50 amps and 6 poles, and only available with VDE Certification when tied to a protected pole (Circuit Code B, C, D or H.). For .02 to 30 amps, select Current Code 630. For 35 - 50 amps, select Current Code 650.
- Available with Terminal Codes 1, 2 and 3. Current Rating limited to 30 amps maximum.
- Consult factory for available Dual Coil options, as special catalog number is required. With Shunt construction, Dual Coils will trip instantaneously on line voltage. Dual coils require 30VA minimum power to trip and are rated for intermittent duty only.
- Auxiliary Switch breakers with Series Trip and Switch Only circuits. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole.
- Separate pole type voltage coils not rated for continuous duty. Available only with delay codes 10 and 20.
- Available with Circuit Codes B & D only. VDE Certified to 30 amps. UL Recognized and CSA Accepted to 50 amps.
- VDE Certification available with single pole breakers with DC Delay only. UL Recognition and CSA Accepted available in one and two pole breakers.
- Screw Terminals are recommended on ratings greater than 20 amps. Ratings over 30 amps are only available with Terminal Codes 5, 9, G, H, M and Q.
- VDE Certification up to 25 amps and UL Recognition and CSA Acceptance up to 30 amps, but not recommended over 20 amps.
- Terminal Codes 3, 5 E and H (Bus Type) with VDE, are supplied with Lock Washers, and Terminal Code M (M6 Threaded Stud) with VDE is supplied with Lock and Flat Washers. These breakers are only VDE Certified when the washers are used.
- VDE Cert. available up to 12 amps. UL Rec. & CSA Acceptance available up to 30 amps.
- Single pole breakers with Terminal Code P (Printed Circuit Board) are available up to 30 amps with VDE Certification and 50 amps with UL Recognition and CSA Acceptance, with Circuit Codes A, B and C. Two pole breakers with Terminal Code P (Printed Circuit Board) are available up to 40 amps with UL Recognition and CSA Acceptance with Circuit Codes A, B and C.
- Available with Actuator Codes A, S and T.
- Available with voltage coils only.
- Terminal Code Q not available with VDE approvals.

7 CURRENT RATING (AMPERES)

020	0.020	230	0.300	425	2.500	612	12.000
025	0.025	235	0.350	527	2.750	712	12.500
030	0.030	240	0.400	430	3.000	613	13.000
035	0.035	245	0.450	435	3.500	614	14.000
040	0.040	250	0.500	440	4.000	615	15.000
045	0.045	255	0.550	445	4.500	616	16.000
050	0.050	260	0.600	450	5.000	617	17.000
055	0.055	265	0.650	455	5.500	618	18.000
060	0.060	270	0.700	460	6.000	620	20.000
065	0.065	275	0.750	465	6.500	622	22.000
070	0.070	280	0.800	470	7.000	624	24.000
075	0.075	285	0.850	475	7.500	625	25.000
080	0.080	290	0.900	480	8.000	630	30.000
085	0.085	295	0.950	485	8.500	635^a	35.000
090	0.090	410	1.000	490	9.000	640^a	40.000
095	0.095	512	1.250	495	9.500	645^a	45.000
210	0.100	415	1.500	610	10.000	650^a	50.000
215	0.150	517	1.750	710	10.500		
220	0.200	420	2.000	611	11.000		
225	0.250	522	2.250	711	11.500		

OR VOLTAGE COIL (NOMINAL RATED VOLTAGE)⁸

A06	6 DC	A32	32 DC	J12	12 AC	J65	65 AC
A12	12 DC	A48	48 DC	J18	18 AC	K20	120 AC
A18	18 DC	A65	65 DC	J24	24 AC	L40	240 AC
A24	24 DC	J06	6 AC	J48	48 AC		

8 TERMINAL⁹

- | | | | |
|-----------------------|--|-----------------------|---------------------------------------|
| 1¹⁰ | Push-On 0.250 Tab (Q.C.) | E¹¹ | Screw M4 (Bus Type) |
| 2 | Screw 8-32 w/upturned lugs | F | Screw M5 w/upturned lugs and 30° bend |
| 3¹¹ | Screw 8-32 (Bus Type) | G | Screw M5 (Bus Type) and 30° bend |
| 4 | Screw 10-32 w/upturned lugs | H | Screw M5 (Bus Type) |
| 5¹¹ | Screw 10-32 (Bus Type) | L¹² | 0.250 Q.C./ Solder Lug |
| 6 | Screw 8-32 w/upturned lugs and 30° bend | M¹¹ | M6 Threaded Studs |
| 7 | Screw 8-32 (Bus Type) and 30° bend | P¹³ | Printed Circuit Board Terminals |
| 8 | Screw 10-32 w/upturned lugs and 30° bend | Q¹⁶ | Push-In Stud |
| 9 | Screw 10-32 (Bus Type) and 30° bend | R | Screw M4 w/upturned lugs and 30° bend |
| B | Screw M5 w/upturned lugs | S¹⁵ | Push-On 0.110 Tab (Q.C.) |
| C | Screw M4 w/upturned lugs | T | Screw M4 (Bus Type) and 30° bend |

9 ACTUATOR COLOR & LEGEND

	I-O	ON-OFF	Dual	Legend Color
White	A	B	1	Black
Black	C	D	2	White
Red	F	G	3	White
Green	H	J	4	White
Blue	K	L	5	White
Yellow	M	N	6	Black
Gray	P	Q	7	Black
Orange	R	S	8	Black

10 MOUNTING/BARRIERS

	MOUNTING STYLE	BARRIERS
1	Threaded Insert, 2 per pole	
	6-32 x 0.195 inches	no
A	6-32 X 0.195 inches (multi-pole units only)	yes
2	ISO M3 x 5mm	no
B	ISO M3 x 5mm	yes
	Rectangular Adapter Plate with mounting centers of 2.062" [52.37mm] and Threaded insert, 2 per pole	
3¹⁴	6-32 x 0.225 inches	no
C¹⁴	6-32 X 0.225 inches (multi-pole units only)	yes
4¹⁴	ISO M3 x 6.5mm	no
D¹⁴	ISO M3 x 6.5mm	yes
	Front panel Snap-In, 0.75" [19.05mm] wide bezel	
5	without Handleguard	no
6	without Handleguard (multi-pole units only)	yes
	Front panel Snap-In, 0.96" [24.48mm] wide bezel	
7	without Handleguard, 1-pole units 0.96" wide;	no
	multipole units have .105" bezel overhang on all sides	
8	without Handleguard, 1-pole units 0.96" wide;	yes
	(multi-pole units only) .105" bezel overhang on all sides	

11 AGENCY APPROVAL

- C** UL Recognized & CSA Accepted
D VDE Certified, UL Recognized & CSA Accepted
E TUV Certified, UL Recognized & CSA Accepted
I UL Rec. STD 1077, UL Rec. 1500 (ignition protected), & CSA Accepted

B	A	1	–	B	0	–	14	–	450	–	1	B	1	–	M	T
1 Series	2 Actuator	3 Poles		4 Circuit	5 Aux/Alarm Switch		6 Frequency & Delay		7 Current Rating		8 Terminal	9 Actuator Color	10 Mounting/ Barriers		11 Max. Appl. Rating	12 Agency Approval

1 SERIES

B

2 ACTUATOR¹

A Handle, one per pole
B Handle, one per multipole unit
S Mid-Trip Handle, one per pole
T Mid-Trip Handle, one per pole & Alarm Switch

3 POLES

1 One **2** Two **3** Three **4** Four

4 CIRCUIT

B Series Trip (Current)

5 AUXILIARY/ALARM SWITCH²

0 w/o Aux Switch	7 S.P.S.T., 0.110 Q.C.
1 S.P.D.T., 0.093 Q.C. Term.	Term.(Gold Contacts)
2 S.P.D.T., 0.110 Q.C. Term.	8 S.P.S.T., 0.187 Q.C. Term.
3 S.P.D.T., 0.139 Solder Lug	9 S.P.D.T., 0.187 Q.C. Term.

6 FREQUENCY & DELAY³

11 DC Ultra Short	52 DC, Short, Hi-Inrush
12 DC Short	54 DC, Medium, Hi-Inrush
14 DC Medium	56 DC, Long, Hi-Inrush
16 DC Long	

7 CURRENT RATING (AMPERES)

210 0.100	415 1.500	710 10.500
215 0.150	517 1.750	611 11.000
220 0.200	420 2.000	711 11.500
225 0.250	522 2.250	612 12.000
230 0.300	527 2.750	712 12.500
235 0.350	430 3.000	613 13.000
240 0.400	435 3.500	614 14.000
245 0.450	440 4.000	615 15.000
250 0.500	445 4.500	616 16.000
255 0.550	450 5.000	617 17.000
260 0.600	455 5.500	618 18.000
265 0.650	460 6.000	620 20.000
270 0.700	465 6.500	622 22.000
275 0.750	470 7.000	624 24.000
280 0.800	475 7.500	625 25.000
285 0.850	480 8.000	630 30.000
290 0.900	485 8.500	635³ 35.000
295 0.950	490 9.000	640³ 40.000
410 1.000	495 9.500	645³ 45.000
512 1.250	610 10.000	650³ 50.000

8 TERMINAL⁴

1⁵ Push-On 0.250 Tab (Q.C.)	9 Screw 10-32 (Bus Type) and 30° bend
2 Screw 8-32 w/upturned lugs	B Screw M5 w/upturned lugs
3⁶ Screw 8-32 (Bus Type)	F Screw M5 w/upturned lugs and 30° bend
4 Screw 10-32 w/upturned lugs	G Screw M5 (Bus Type) and 30° bend
5⁶ Screw 10-32 (Bus Type)	H Screw M5 (Bus Type)
6 Screw 8-32 w/upturned lugs and 30° bend	M⁶ M6 Threaded Stud
7 Screw 8-32 (Bus Type) and 30° bend	P⁷ Printed Circuit Board Terminals
8 Screw 10-32 w/upturned lugs and 30° bend	Q⁸ Push-In Stud

9 ACTUATOR COLOR

LEGEND			
	ON-OFF	Dual	Legend Color
White	B	1	Black
Black	D	2	White
Red	G	3	White
Green	J	4	White
Blue	L	5	White
Yellow	N	6	Black
Gray	Q	7	Black
Orange	S	8	Black

10 MOUNTING/BARRIERS

MOUNTING STYLE		BARRIERS
Threaded Insert, 2 per pole		
1 6-32 x 0.195 inches		no
A 6-32 X 0.195 inches (multi-pole units only)		yes
2 ISO M3 x 5mm		no
B ISO M3 x 5mm (multi-pole units only)		yes
Rectangular Adapter Plate with mounting centers of 2.062 inches and Threaded insert, 2 per pole		
3 6-32 x 0.225 inches		no
C 6-32 X 0.225 inches (multi-pole units only)		yes
4 ISO M3 x 6.5mm		no
D ISO M3 x 6.5mm (multi-pole units only)		yes
Front panel Snap-In, 0.75" wide bezel		
5 without Handleguard		no
6 without Handleguard (multi-pole units only)		yes
Front panel Snap-In, 0.96" wide bezel		
7 without Handleguard, 1-pole units 0.96" wide;		no
multipole units have .105" bezel overhang on all sides		
8 without Handleguard, 1-pole units 0.96" wide;		yes
(multi-pole units only).105" bezel overhang on all sides		

11 MAXIMUM APPLICATION RATING

M 80 DC

12 AGENCY APPROVAL

T UL489A Listed
K UL489A Listed, VDE Certified
J UL489A Listed, TUV Certified

Notes:

- Actuator Code:
A: Handle tie pin spacer(s) and retainers provided unassembled with multi-pole units.
S: Handle moves to mid-position only upon electrical trip of the breaker.
T: Handle moves to mid-position and alarm switch activates only upon electrical trip of the breaker.
- On multi-pole breakers, one auxiliary switch is supplied, mounted in the extreme right pole.
- VDE Certification available with single pole breakers only. UL489A Listing available with one and two pole breakers.
- Screw Terminals are recommended on ratings greater than 20 amps. Ratings over 30 amps are only available with Terminal Codes 5, 9, G, H, M and Q.
- Terminal Code 1 (Push-On) available up to 25 amps with TUV or VDE Certification and 30 amps with UL489A Listing, but is not recommended over 20 amps.
- Terminal Codes 3, 5 and H (Bus Type) with TUV or VDE, are supplied with Lock Washers, and Terminal Code M (M6 Threaded Stud) with TUV or VDE is supplied with Lock and Flat Washers. These breakers are only TUV or VDE Certified when the washers are used.
- Single pole breakers with Terminal Code P (Printed Circuit Board) are available up to 30 amps with VDE Certification and 50 amps with UL489A Listing.
- Terminal Code Q not available with VDE approvals.

B	A	1	–	B	0	–	24	–	450	–	1	B	A	–	K	G
1 Series	2 Actuator	3 Poles		4 Circuit	5 Aux/Alarm Switch		6 Frequency & Delay		7 Current Rating		8 Terminal	9 Actuator Color	10 Mounting/Barriers		11 Max. Appl. Rating	12 Agency Approval

1 SERIES**B****2 ACTUATOR¹**

A Handle, one per pole
B Handle, one per multi-pole unit
S Mid-Trip Handle, one per pole
T Mid-Trip Handle, one per pole & Alarm Switch

3 POLES²

1 One **2** Two **3³** Three

4 CIRCUIT**B** Series Trip (Current)**5 AUXILIARY/ALARM SWITCH⁴**

0 w/o Aux Switch	3 S.P.D.T., 0.139 Solder Lug
1 S.P.D.T., 0.093 Q.C. Term.	8 S.P.S.T., 0.187 Q.C. Term.
2 S.P.D.T., 0.110 Q.C. Term.	9 S.P.D.T., 0.187 Q.C. Term.

6 FREQUENCY & DELAY

21 AC Ultra Short	42 AC, Short, Hi-Inrush
22 AC Short	44 AC, Medium, Hi-Inrush
24 AC Medium	46 AC, Long, Hi-Inrush
26 AC Long	

7 CURRENT RATING (AMPERES)

210 0.100	512 1.250	495 9.500
215 0.150	415 1.500	610 10.000
220 0.200	517 1.750	710 10.500
225 0.250	420 2.000	611 11.000
230 0.300	522 2.250	711 11.500
235 0.350	527 2.750	612 12.000
240 0.400	430 3.000	712 12.500
245 0.450	435 3.500	613 13.000
250 0.500	440 4.000	614 14.000
255 0.550	445 4.500	615 15.000
260 0.600	450 5.000	616 16.000
265 0.650	455 5.500	617 17.000
270 0.700	460 6.000	618 18.000
275 0.750	465 6.500	620 20.000
280 0.800	470 7.000	622 22.000
285 0.850	475 7.500	624 24.000
290 0.900	480 8.000	625 25.000
295 0.950	485 8.500	630 30.000
410 1.000	490 9.000	

8 TERMINAL⁵

1 Push-On 0.250 Tab (Q.C.)	9 Screw 10-32 (Bus Type) and 30° bend
2 Screw 8-32 w/upturned lugs	A Load Terminal: #8 Screw/QC Combination. (Special Cat.#)
3 Screw 8-32 (Bus Type)	B Screw M5 w/upturned lugs
4 Screw 10-32 w/upturned lugs	F Screw M5 w/upturned lugs and 30° bend
5 Screw 10-32 (Bus Type)	G Screw M5 (Bus Type) and 30° bend
6 Screw 8-32 w/upturned lugs and 30° bend	H Screw M5 (Bus Type)
7 Screw 8-32 (Bus Type) and 30° bend	M M6 Threaded Stud
8 Screw 10-32 w/upturned lugs and 30° bend	Q Push-In Stud

9 ACTUATOR COLOR⁶

	LEGEND		
	ON-OFF	Dual	Legend Color
White	B	1	Black
Black	D	2	White
Red	G	3	White
Green	J	4	White
Blue	L	5	White
Yellow	N	6	Black
Gray	Q	7	Black
Orange	S	8	Black

10 MOUNTING/BARRIERS

MOUNTING STYLE	BARRIERS ⁹
Threaded Insert, 2 per pole	
A 6-32 X 0.195 inches	yes
B ISO M3 x 5mm	yes
Rectangular Adapter Plate with mounting centers of 2.062 inches and Threaded insert, 2 per pole⁷	
C 6-32 X 0.225 inches	yes
D ISO M3 x 6.5mm	yes
Front panel Snap-In, 0.75" wide bezel	
6 without Handleguard	yes
Front panel Snap-In, 0.96" wide bezel	
8 without Handleguard, 1-pole units 0.96" wide; .105" bezel overhang on all sides	yes

11 MAXIMUM APPLICATION RATING

C⁸ 120/240VAC
K 120VAC

12 AGENCY APPROVAL

G UL489 Listed
3 UL489 Listed, TUV Certified

Notes:

- Actuator Code:
A: Handle tie pin spacer(s) and retainers provided unassembled with multi-pole units.
B: Handle location as viewed from front of breaker:
 2 pole - left pole **3 pole** - center pole
S: Handle moves to mid-position only upon electrical trip of the breaker. Available with circuit codes B, C, D, E, F, G, H and K.
T: Handle moves to mid-position and alarm switch activates only upon electrical trip of the breaker. Available with circuit codes B & C.
 All poles must be same polarity.
 3 pole units available only when 1 of 3 poles is neutral.
 Auxiliary/Alarm Switch circuit must be same polarity as the main circuit. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole.
 Screw Terminals are recommended on ratings greater than 20 amps.
 Standard actuator colors are black and white.
 Adapter plate with mounting centers of 2.082 inches. Available with Actuator Codes A, S and T.
 Voltage Rating available with 2 and 3-pole breakers only.
 Barriers supplied on multi-pole units only.

B-Series Rocker UL489 Listed – Ordering Scheme

B	F	1	–	B	0	–	24	–	630	–	2	3	A	–	K	G
1 Series	2 Actuator	3 Poles		4 Circuit	5 Aux/Alarm Switch		6 Frequency & Delay		7 Current Rating		8 Terminal	9 Actuator Color	10 Mounting/ Barriers		11 Max. Appl. Rating	12 Agency Approval

1 SERIES

B

2 ACTUATOR

Two Color Visi-Rocker

- C** Indicate ON,
vertical legend
D Indicate ON,
horizontal legend
F Indicate OFF,
vertical legend
G Indicate OFF,
horizontal legend

Single color

- J** Vertical legend
K Horizontal legend

Push-To-Reset, Visi-Rocker

- N** Indicate OFF,
vertical legend
O Indicate OFF,
horizontal legend

Push-To-Reset, Single color

- R** Vertical legend
U Horizontal legend

ROCKER STYLE DESCRIPTIONS		
	INDICATE "ON"	INDICATE "OFF"
VERTICAL STYLE	CODE "C" 	CODE "F"
	CODE "D" 	CODE "G"
HORIZONTAL STYLE	CODE "J" 	CODE "K"
	CODE "R" 	CODE "U"

3 POLES^{1,2}

- 1** One **2** Two **3**³ Three

4 CIRCUIT

- B** Series Trip (Current)

5 AUXILIARY/ALARM SWITCH⁴

- | | |
|-------------------------------------|-------------------------------------|
| 0 w/o Aux Switch | 7 S.P.S.T., 0.110 Q.C. |
| 1 S.P.D.T., 0.093 Q.C. Term. | Term.(Gold Contacts) |
| 2 S.P.D.T., 0.110 Q.C. Term. | 8 S.P.S.T., 0.187 Q.C. Term. |
| 3 S.P.D.T., 0.139 Solder Lug | 9 S.P.D.T., 0.187 Q.C. Term. |

6 FREQUENCY & DELAY

- | | |
|--------------------------|---------------------------------|
| 21 AC Ultra Short | 42 AC, Short, Hi-Inrush |
| 22 AC Short | 44 AC, Medium, Hi-Inrush |
| 24 AC Medium | 46 AC, Long, Hi-Inrush |
| 26 AC Long | |

7 CURRENT RATING (AMPERES)

210 0.100	280 0.800	445 4.500	711 11.500
215 0.150	285 0.850	450 5.000	612 12.000
220 0.200	290 0.900	455 5.500	712 12.500
225 0.250	295 0.950	460 6.000	613 13.000
230 0.300	410 1.000	465 6.500	614 14.000
235 0.350	512 1.250	470 7.000	615 15.000
240 0.400	415 1.500	475 7.500	616 16.000
245 0.450	517 1.750	480 8.000	617 17.000
250 0.500	420 2.000	485 8.500	618 18.000
255 0.550	522 2.250	490 9.000	620 20.000
260 0.600	527 2.750	495 9.500	622 22.000
265 0.650	430 3.000	610 10.000	624 24.000
270 0.700	435 3.500	710 10.500	625 25.000
275 0.750	440 4.000	611 11.000	630 30.000

8 TERMINAL⁵

- | | |
|---|--|
| 1 ⁶ Push-On 0.250 Tab (Q.C.) | 9 Screw 10-32 (Bus Type) and 30° bend |
| 2 Screw 8-32 w/upturned lugs | B Screw M5 w/upturned lugs |
| 3 Screw 8-32 (Bus Type) | C Screw M4 w/upturned lugs |
| 4 Screw 10-32 w/upturned lugs | F Screw M5 w/upturned lugs and 30° bend |
| 5 Screw 10-32 (Bus Type) | G Screw M5 (Bus Type) and 30° bend |
| 6 Screw 8-32 w/upturned lugs and 30° bend | H Screw M5 (Bus Type) |
| 7 Screw 8-32 (Bus Type) and 30° bend | |
| 8 Screw 10-32 w/upturned lugs and 30° bend | |

9 ACTUATOR COLOR & LEGEND

Actuator or Visi-Color⁷

	Marking		Marking Color:	
	ON-OFF	Dual ⁷	Single Color	Visi-Rocker
White	B	1	Black	White
Black	D	2	White	n/a
Red	G	3	White	Red
Green	J	4	White	Green
Blue	L	5	White	Blue
Yellow	N	6	Black	Yellow
Gray	Q	7	Black	Gray
Orange	S	8	Black	Orange

10 MOUNTING/BARRIERS

STANDARD ROCKER BEZEL		BARRIERS ⁹
Threaded Insert, 2 per pole		
A 6-32 X 0.195 inches		yes
B ISO M3 x 5mm		yes
ROCKERGARD BEZEL		
Threaded Insert, 2 per pole		
C 6-32 x 0.195 inches		yes
D ISO M3 x 5mm		yes

11 MAXIMUM APPLICATION RATING

- C**⁸ 120/240 VAC
K 120 VAC

11 AGENCY APPROVAL

- G** UL489 Listed

Notes:

- Multi-pole breakers have all breakers identical except when specifying Aux. switch and/or mixed poles, and have one rocker per breaker.
- All poles must be same polarity.
- 3 pole units available only when 1 of 3 poles is neutral.
- On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole.
- Screw Terminals are recommended on ratings greater than 20 amps.
- Terminal Code 1 (Push-On) available up to 30 amps, but are not recommended over 20 amps.
- Dual legend = ON-OFF/I-O
- Voltage Rating available with 2 and 3-pole breakers only.
- Barriers supplied on multi-pole units only.

B	1	1	-	B	0	-	24	-	630	-	2	3	A	-	K	G
1 Series	2 Actuator	3 Poles		4 Circuit	5 Aux/Alarm Switch		6 Frequency & Delay		7 Current Rating		8 Terminal	9 Actuator Color	10 Mounting/ Barriers		11 Max. Appl. Rating	12 Agency Approval

1 SERIES B

2 ACTUATOR ¹

Two Color Visi-Rocker

- 1 Indicate OFF, vertical legend
2 Indicate OFF, horizontal legend

Single color

- 3 Vertical legend
4 Horizontal legend

Push-To-Reset, Visi-Rocker

- 5 Indicate OFF, vertical legend
6 Indicate OFF, horizontal legend

Push-To-Reset, Single color

- 7 Vertical legend
8 Horizontal legend

ROCKER STYLE DESCRIPTIONS			
	INDICATE "OFF"		SINGLE COLOR
VERTICAL STYLE	CODE "1", "5"  LINE		CODE "3", "7"  LINE
	CODE "2", "6"  LINE		CODE "4", "8"  LINE
HORIZONTAL STYLE	CODE "1", "5"  LINE		CODE "3", "7"  LINE
	CODE "2", "6"  LINE		CODE "4", "8"  LINE

3 POLES ^{2,3}

- 1 One 2 Two 3⁴ Three

4 CIRCUIT

- B Series Trip (Current)

5 AUXILIARY/ALARM SWITCH⁵

- | | |
|------------------------------|------------------------------|
| 0 w/o Aux Switch | 7 S.P.S.T., 0.110 Q.C. |
| 1 S.P.D.T., 0.093 Q.C. Term. | Term.(Gold Contacts) |
| 2 S.P.D.T., 0.110 Q.C. Term. | 8 S.P.S.T., 0.187 Q.C. Term. |
| 3 S.P.D.T., 0.139 Solder Lug | 9 S.P.D.T., 0.187 Q.C. Term. |

6 FREQUENCY & DELAY

- | | |
|-------------------|--------------------------|
| 21 AC Ultra Short | 42 AC, Short, Hi-Inrush |
| 22 AC Short | 44 AC, Medium, Hi-Inrush |
| 24 AC Medium | 46 AC, Long, Hi-Inrush |
| 26 AC Long | |

7 CURRENT RATING (AMPERES)

210 0.100	280 0.800	445 4.500	711 11.500
215 0.150	285 0.850	450 5.000	612 12.000
220 0.200	290 0.900	455 5.500	712 12.500
225 0.250	295 0.950	460 6.000	613 13.000
230 0.300	410 1.000	465 6.500	614 14.000
235 0.350	512 1.250	470 7.000	615 15.000
240 0.400	415 1.500	475 7.500	616 16.000
245 0.450	517 1.750	480 8.000	617 17.000
250 0.500	420 2.000	485 8.500	618 18.000
255 0.550	522 2.250	490 9.000	620 20.000
260 0.600	527 2.750	495 9.500	622 22.000
265 0.650	430 3.000	610 10.000	624 24.000
270 0.700	435 3.500	710 10.500	625 25.000
275 0.750	440 4.000	611 11.000	630 30.000

8 TERMINAL ⁶

- | | |
|--|---|
| 1 ⁷ Push-On 0.250 Tab (Q.C.) | 9 Screw 10-32 (Bus Type) and 30° bend |
| 2 Screw 8-32 w/upturned lugs | B Screw M5 w/upturned lugs |
| 3 Screw 8-32 (Bus Type) | C Screw M4 w/upturned lugs |
| 4 Screw 10-32 w/upturned lugs | F Screw M5 w/upturned lugs and 30° bend |
| 5 Screw 10-32 (Bus Type) | G Screw M5 (Bus Type) and 30° bend |
| 6 Screw 8-32 w/upturned lugs and 30° bend | H Screw M5 (Bus Type) |
| 7 Screw 8-32 (Bus Type) and 30° bend | |
| 8 Screw 10-32 w/upturned lugs and 30° bend | |

9 ACTUATOR COLOR & LEGEND

Actuator or Visi-Color⁸

	Marking		Marking Color:	
	ON-OFF	Dual ⁹	Single Color	Visi-Rocker
White	B	1	Black	White
Black	D	2	White	n/a
Red	G	3	White	Red
Green	J	4	White	Green
Blue	L	5	White	Blue
Yellow	N	6	Black	Yellow
Gray	Q	7	Black	Gray
Orange	S	8	Black	Orange

10 MOUNTING/BARRIERS⁹

BARRIERS¹²

STANDARD ROCKER BEZEL, Threaded Insert, 2 per pole FLAT ROCKER ACTUATOR

- | | |
|-----------------------|-----|
| A 6-32 X 0.195 inches | yes |
| B ISO M3 x 5mm | yes |

RECESSED OFF SIDE ROCKER ACTUATOR ¹⁰

- | | |
|-----------------------|-----|
| E 6-32 x 0.195 inches | yes |
| F ISO M3 x 5mm | yes |

PUSH-TO-RESET BEZEL, Threaded Insert, 2 per pole

- | | |
|-----------------------|-----|
| C 6-32 x 0.195 inches | yes |
| D ISO M3 x 5mm | yes |

11 MAXIMUM APPLICATION RATING

- C¹¹ 120/240 VAC
K 120 VAC

12 AGENCY APPROVAL

- G UL489 Listed

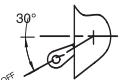
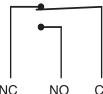
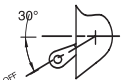
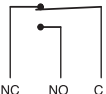
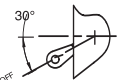
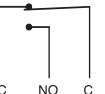
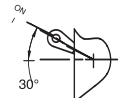
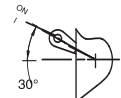
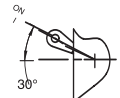
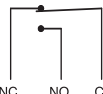
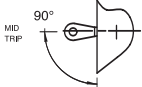
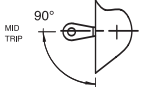
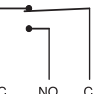
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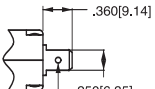
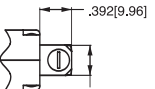
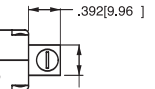
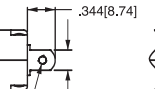
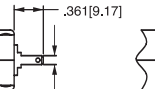
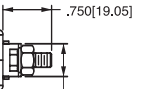
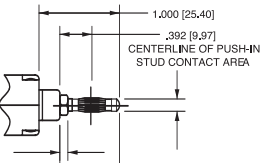
- Push-To-Reset actuators have OFF portion of rocker shrouded.
- Multi-pole breakers have all breakers identical except when specifying Aux. switch and/or mixed poles, and have one rocker per breaker.
- All poles must be same polarity.
- 3 pole units available only when 1 of 3 poles is neutral.
- On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole.
- Screw Terminals are recommended on ratings greater than 20 amps.
- Terminal Code 1 (Push-On) available up to 30 amps, but are not recommended over 20 amps.
- Color shown is visi and legend with remainder of rocker black, Dual = ON-OFF/I-O legend.
- Legend on Push-to-reset bezel/shroud is white with single color actuator codes 7 & 8. Legend on Push-To-Reset bezel/shroud matches Visi-Color of rocker with actuator codes 5 & 6.
- Recessed "off-side" available with actuator codes 1, 2, 3 & 4. Legends on rocker are available in ink stamping only.
- Voltage rating available with 2 & 3-pole breakers only.
- Barriers supplied on multi-pole units only.

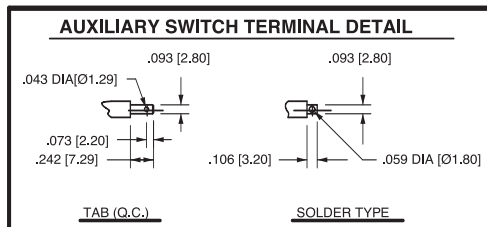
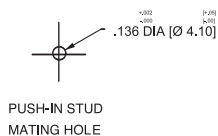
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	ANSI		IEC				ANSI		IEC			
	SWITCH ONLY (NO COIL)						SERIES TRIP					
SERIES TRIP (2 TERM'S.) MAIN TERM'S. (SEE TABLE A) 1.730 [43.94]			A	O			B C	O				
SERIES TRIP W AUX SWITCH (5 TERM'S.) .520 [13.21] AUX. SWITCH TERM'S.			A	2 3 4			B C	2 3 4				
SHUNT TRIP (3 TERM'S.) .390 [9.91]			D E	0			H	0				
RELAY TRIP (4 TERM'S.) .780 [19.81] .390 [9.91]			F G	0			K	0				

Notes:

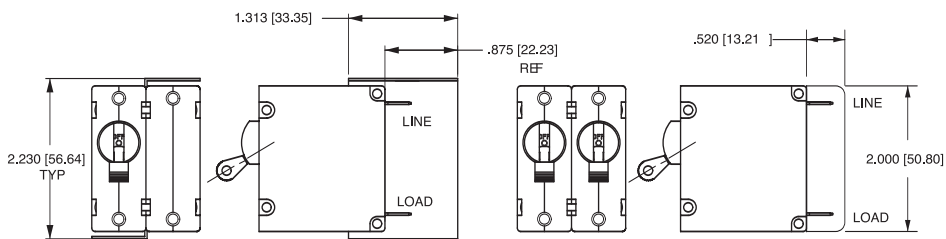
- All dimensions are in inches [millimeters].
- Tolerance $\pm .020$ [.51] unless otherwise specified.
- Alarm Switch available with .110 x .020 Q.C. & Solder Lug Terminals Only.

HANDLE POSITION VS. AUX/ALARM SWITCH MODE						
STANDARD C/B			MID TRIP C/B		MID TRIP C/B	
CIRCUIT BREAKER MODE	HANDLE POSITION	AUX. SWITCH MODE	HANDLE POSITION	ALARM SWITCH MODE	HANDLE POSITION	AUX. SWITCH MODE (w/o ALARM SWITCH)
OFF						
ON						
ELECTRICAL TRIP						

TERMINAL DIMENSIONAL DETAIL & RATING						
 TAB (Q.C.) 30 AMP	 UPTURN LUG #8-32 30 AMP #10-32 30 AMP M5 30 AMP M4 30 AMP	 BUS #8-32 30 AMP #10-32 50 AMP	 QC SOLDER LUG 30 AMP	 .110 QC VOLTAGE COILS ONLY	 M6 STUD 50 AMP	 PUSH-IN STUD 50 AMP



THREAD SIZE	TORQUE
#6-32 & M3 MOUNTING HARDWARE	7-9 IN-LBS [0.8-1.0 NM]
#8-32 & M4 THREAD TERMINAL SCREW	12-15 IN-LBS [1.4-1.7 NM]
#10-32 & M5 THREAD TERMINAL SCREW	15-20 IN-LBS [1.7-2.3 NM]

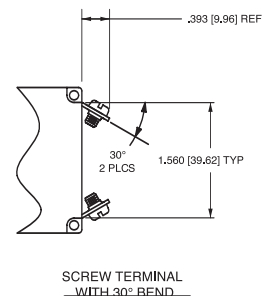
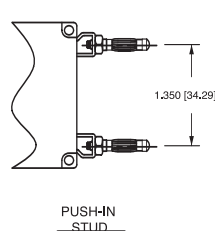
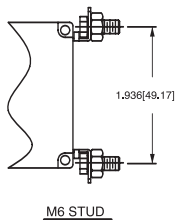
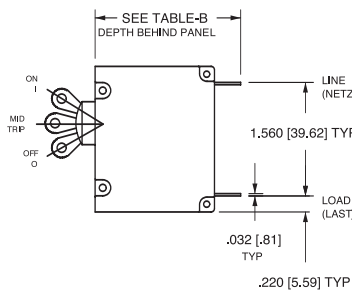


BARRIER FOR UL-489 MULTI-POLE BREAKERS

BARRIER FOR UL-RECOGNIZED MULTI-POLE BREAKERS

TERMINAL DESCRIPTION		DEPTH BEHIND PANEL
MAIN	TAB (Q.C.)	2.090 [53.09]
	SCREW TYPE	2.122 [53.90]
SHUNT, RELAY & DUAL COIL	TAB (Q.C.)	2.612 [66.35]
	SCREW #8-32 W/UPTURNED LUGS	2.644 [67.16]
AUX. SWITCH*	TAB (Q.C.) .110 x .020	2.537 [64.44]
	SOLDER TYPE	2.348 [59.64]

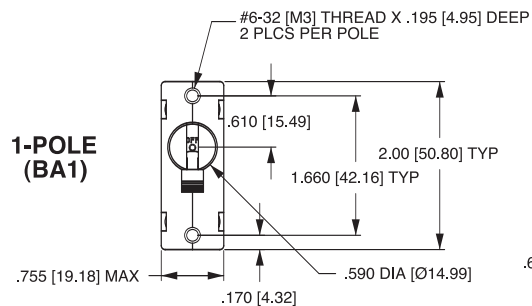
* AVAILABLE ON SERIES TRIP AND SWITCH ONLY CIRCUITS
WHEN CALLED FOR ON MULTI-POLE UNITS, ONLY ONE AUX.
SWITCH IS NORMALLY SUPPLIED, AS SHOWN IN MULTI-POLE
IDENTIFICATION SCHEME



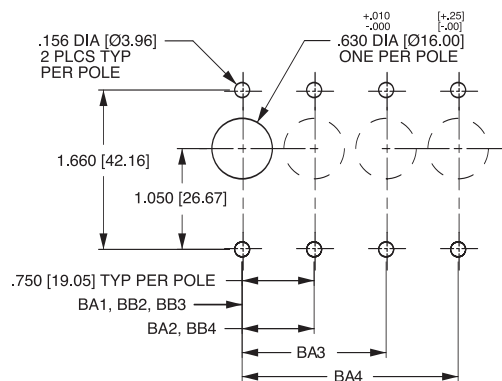
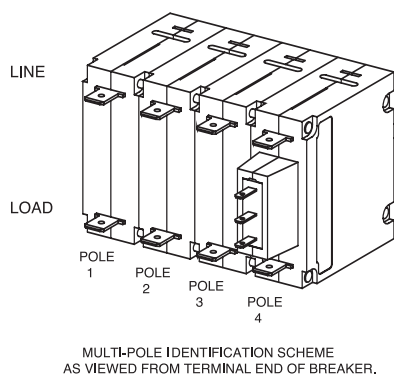
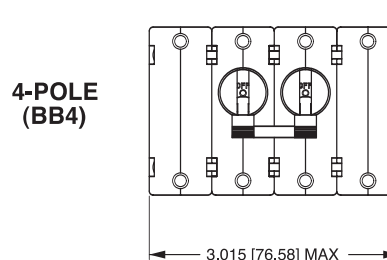
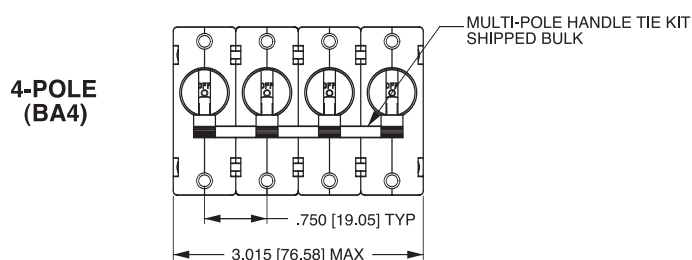
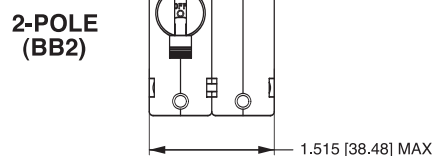
Notes:

- 1 All dimensions are in inches [millimeters].
2 Tolerance $\pm .020$ [.51] unless otherwise specified.

B-Series Handle – Front Panel Snap-In Mounting Style 5

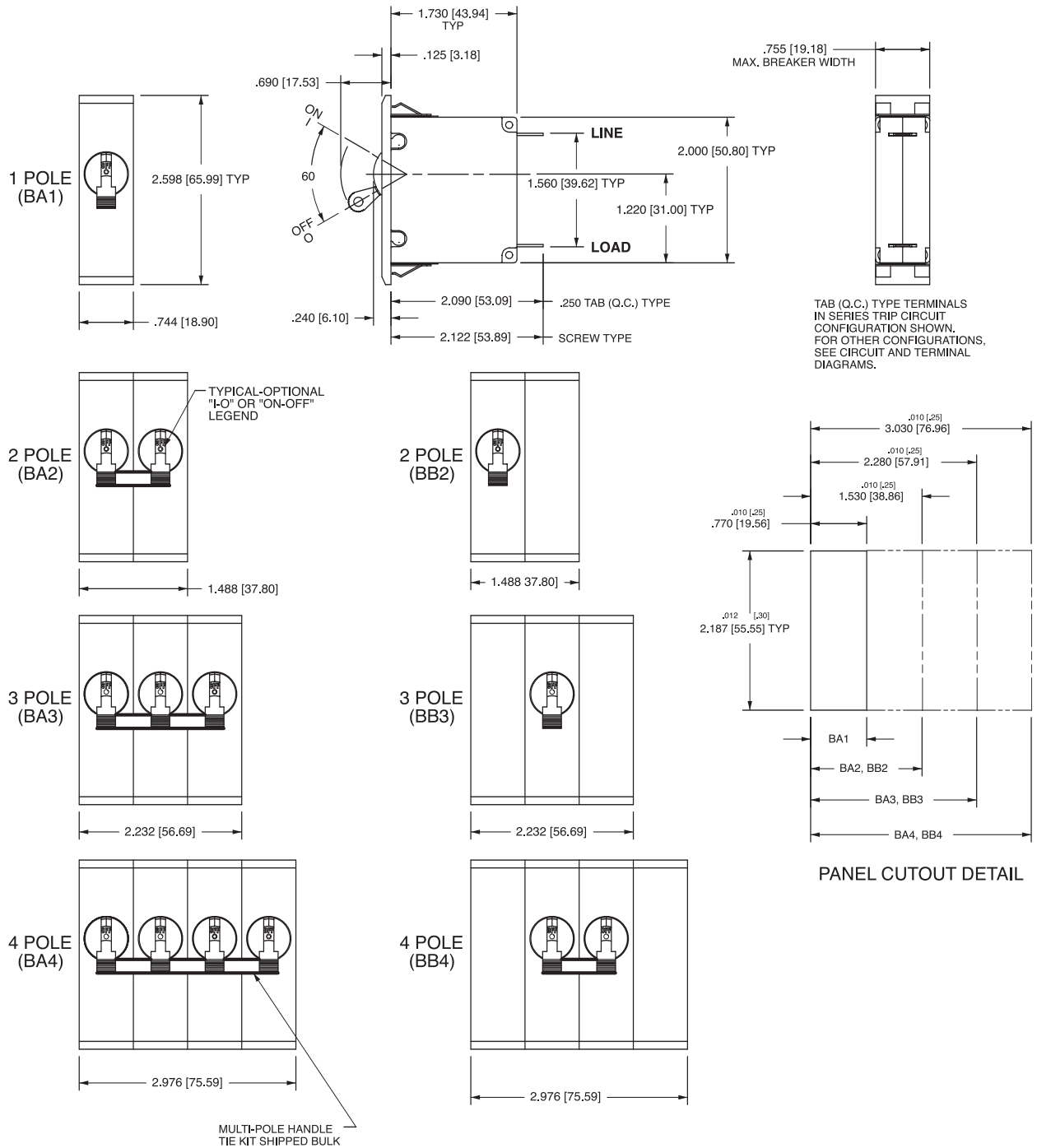


TAB (Q.C.) TYPE TERMINALS
IN SERIES TRIP CIRCUIT
CONFIGURATION SHOWN.
FOR OTHER CONFIGURATIONS,
SEE CIRCUIT AND TERMINAL
DRAWINGS.



PANEL CUTOUT DETAIL
TOLERANCES $\pm .005$ [$\pm .12$]

- Notes:
1 All dimensions are in inches [millimeters].
2 Tolerance $\pm .020$ [$\pm .51$] unless otherwise specified.



Notes:

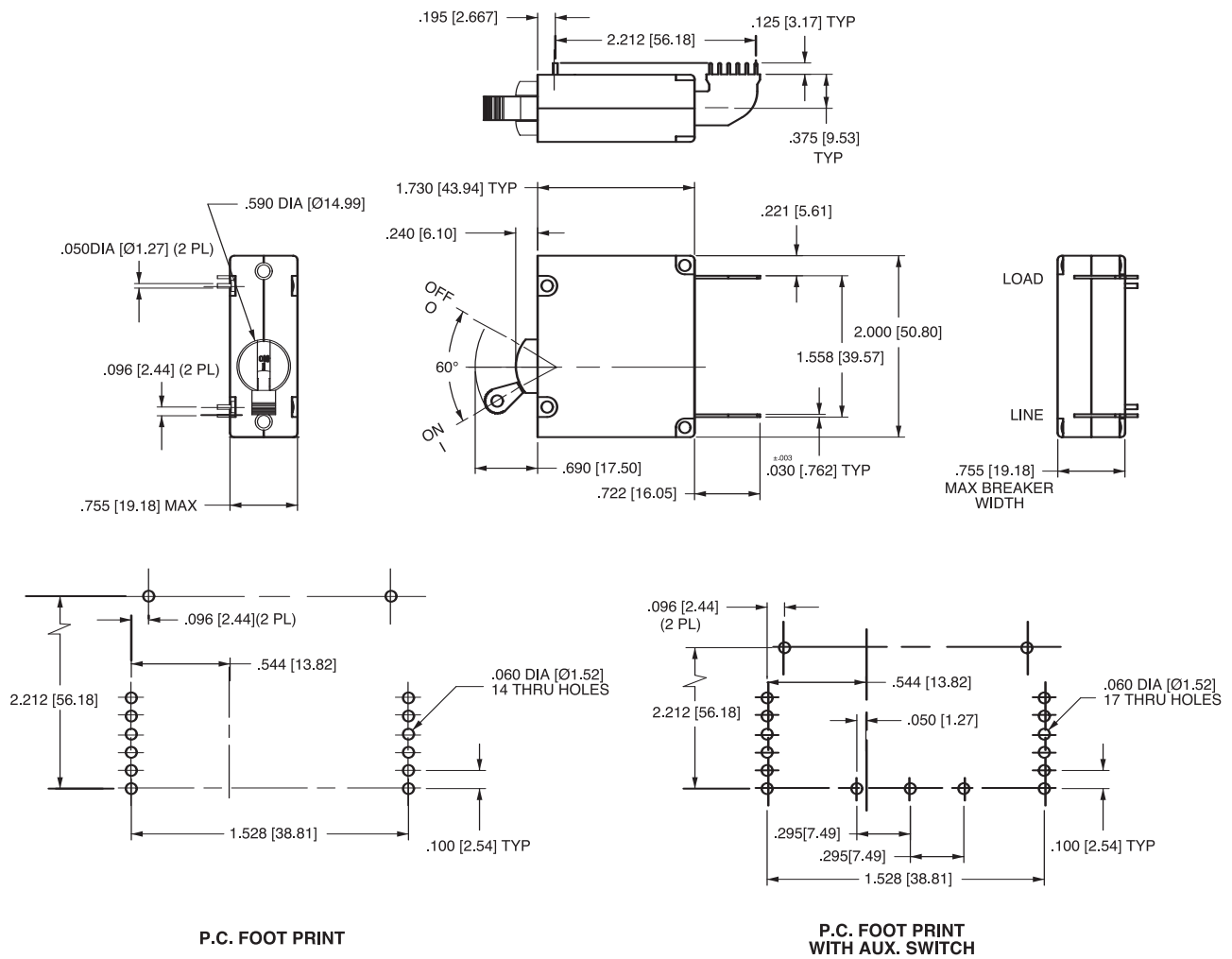
- 1 All dimensions are in inches [millimeters].
- 2 Recommended panel thickness: .040 [1.02] to .100 [2.54].
- 3 Tolerance $\pm .020$ [.51] unless otherwise specified.

B-Series Handle – Front Panel Snap-In Mounting Style 7



Notes:

- 1 All dimensions are in inches [millimeters].
- 2 Recommended panel thickness .040 [1.02] to .100 [2.54].
- 3 Tolerance $\pm .020$ [.51] unless otherwise specified.



Notes:

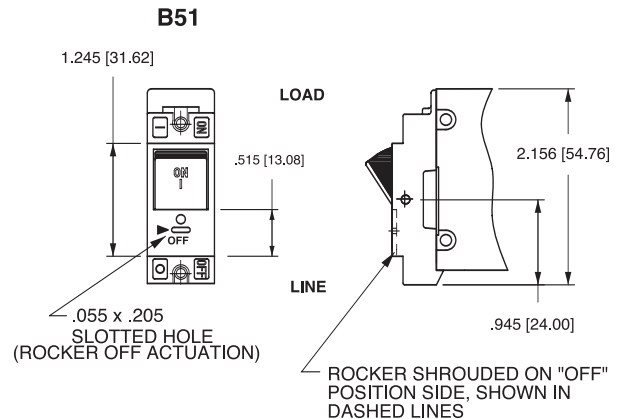
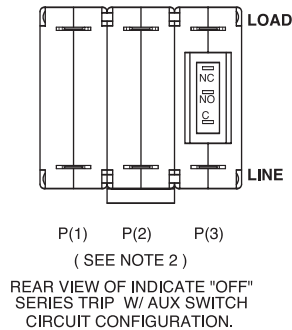
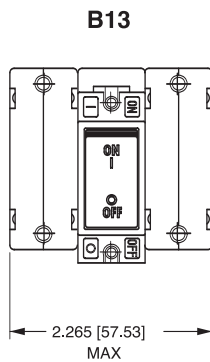
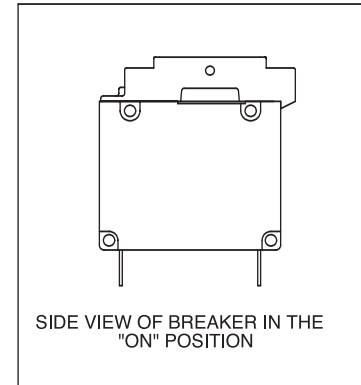
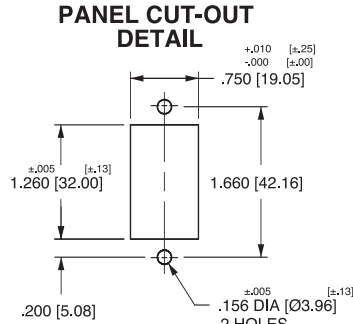
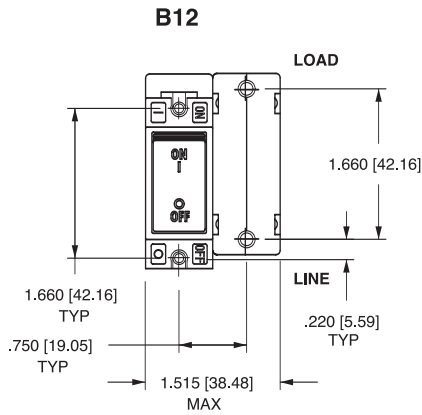
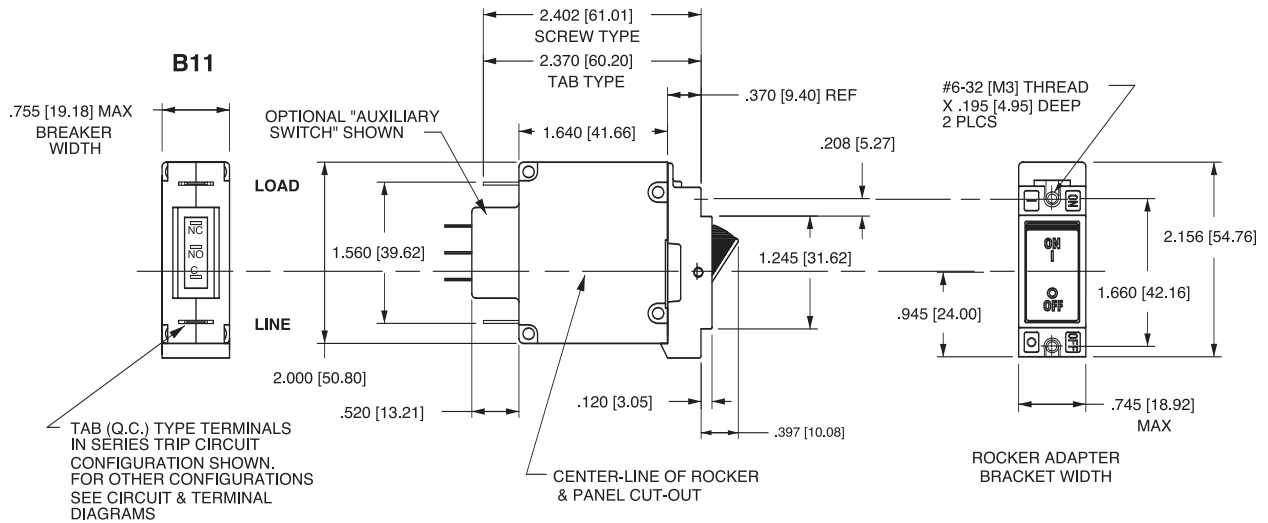
- 1 All dimensions are in inches [millimeters].
- 2 For pole orientation with horizontal legend, rotate front view clockwise 90°.
- 3 Tolerance $\pm .010$ [.25] unless otherwise specified.



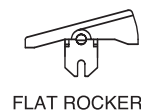
Notes:

- 1 Dimensions apply to all variations shown. Notice that circuit breaker line & load terminal orientation on indicate "OFF" is opposite of indicate "ON".
- 2 For pole orientation with horizontal legend, rotate front view clockwise 90°.
- 3 All dimensions are in inches [millimeters].
- 4 Tolerance $\pm .020$ [.51] unless otherwise specified.

INDICATE "OFF" & SINGLE COLOR
(INDICATE "OFF" SHOWN)



ACTUATOR SIDE VIEW
(SURFACE CONTOURS)



Notes:

- 1 All dimensions are in inches [millimeters].
- 2 For pole orientation with horizontal legend, rotate front view clockwise 90°.
- 3 Tolerance ±.020 [±.51] unless otherwise specified.