



➡ Product Type

Hydraulic/Magnetic Circuit Breaker

Output

Description:

Description:

Hydraulic/Magnetic Circuit Breaker

Description:

Product Series B-Series

The B-Series hydraulic/magnetic circuit breakers are compact and temperature stable designed for precision operation in OEM markets requiring general purpose as well as full load amp applications. These circuit breakers are designed specifically for world market applications requiring extra

insulation and tongue and groove half-shell constructions. They are available with handle actuators for 1- 6 poles. B-Series circuit breakers are offered from in 0.02 to 50 amps, up to 277VAC or 80VDC. They are available with a choice of time delays, terminals, actuator styles, with a wide range of standard colors, & imprinting.

|                                     | I   |
|-------------------------------------|---|
| Series PDF eLibrary                 | B-Series Cir. Breaker PDF (2.8 MB) Cir. Breaker Time Delays for A,B,C,D & PD-Series PDF (2.3 MB) Cir. Breaker Accessories PDF (49.5 KB)   |
| Certifications                      | UL recognized, CSA, VDE -0642,<br>TUV, UL-1500, UL489A Listed<br>(Telecom)  |
| Number of Poles                     | 1-6 pole  |
| Available Delays                    | Instant, Ultra-Short, Short,<br>Medium, Long (motor loads),<br>AC,DC, AC/DC; High Inrush -<br>Short, Medium, Long   |
| Maximum Current and Voltage Ratings | 0.02-30A @ 277VAC, 80VDC<br>31.0-50A @ 125/250VAC<br>0.1-50A @ 80VDC (UL489A)   |
| Maximum Interrupting Capacity       | 3,000A @ 80VDC (UL only)<br>3,000A @ 125/250VAC (UL only)<br>5,000A @ 277VAC w/fuse back up<br>(UL only)<br>5000A @ 80VDC (UL489A)  |
| Auxiliary Switch Ratings            | 10.1A @ 250VAC<br>0.1A @ 125VAC (gold contacts)<br>5A @ 30VDC<br>0.5A @ 80VDC<br>1.0A @ 65VDC   |
| Available Circuits                  | Series, Shunt, Relay, Switch Only,<br>Series w/Remote Shutdown, Relay<br>and Shunt Trip Dual Coil   |
| Actuator Style                      | Handle (1 per pole or 1 per unit) Mid Trip Handle (1 per pole or 1 per unit)  |
| Terminal Options                    | .250 QC Tabs 8-32 Screw w/ Upturned Lugs 8-32 Screw (Bus Type) 10-32 Screw w/ Upturned Lugs 10-32 Screw (Bus Type) M4 & M5 Screw (Bus Type) M4 & M5 Screw w/ Upturned Lugs Push in Stud Terminals |

| Mounting Method | Front Panel<br>Snap-in Front Panel   |
|-----------------|--|
| Value Added     | Custom actuator colors<br>PC Terminals available<br>Non-standard current ratings<br>and more |



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 breakes 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

**PL** 

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

UL Standard 508

**PL** 

UL Standard 1500



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

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

UL Standard 489

**UL Listed** 



UL Standard 489A



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

Communications Equipment (Guide CCN/DITT, File E189195)

**CSA Accepted** 



**TUV Certified** 

**VDE Certified** 



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

EN60934, under License No. R72040875

EN60934, VDE 0642 under File No. 10537

## **Electrical**

Maximum Voltage

**Current Ratings** 

277VAC 50/60 Hz, 80VDC 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. DC - 6V, 12V; AC - 120V, other rat-

Standard Voltage Coils Auxiliary Switch Rating

ings available, see ordering scheme. 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.

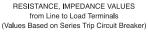
Dielectric Strength

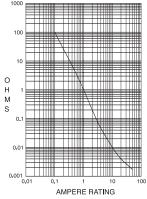
UL. CSA - 1500 V 50/60 Hz for one minute between all electrically isolated terminals. B-Series circuit breakers comply with the 8mm spacing and 3750V 50/60 Hz dielectric requirements from hazardous voltage to operator accessible surfaces, between adjacent poles and from main circuits to auxiliary circuits per Publications EN 60950 and VDE

0805.

Resistance, Impedance

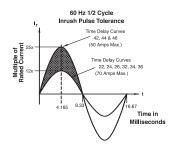
Values from Line to Load Terminal based on Series Trip Circuit Breaker.

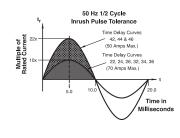




| CURRENT<br>(AMPS) | TOLERANCE<br>(%) |
|-------------------|------------------|
| 0.10 - 5.0        | 15%              |
| 5.1 - 20.0        | 25%              |
| 20.1 - 50.0       | 35%              |

# 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 posi-

tively 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.) Housing-Black; Actuator - See

Ordering Scheme.

## **Environmental**

Thermal Shock

Standard Colors

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%

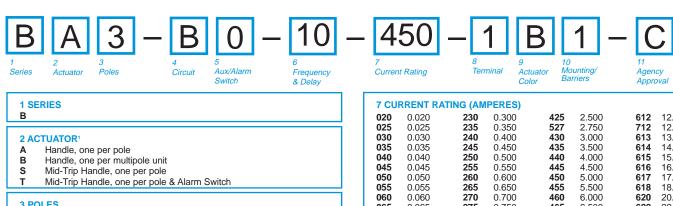
Salt Spray Method 101, Condition A (90-95%

RH @ 5% NaCl Solution, 96 hrs). Method 107D, Condition A (Five

cycles @ -55°C to +25°C to +85°C

to +25°C).

**Operating Temperature** -40° C to +85° C



8

9

В

Screw 8-32 (Bus Type) and

Screw 10-32 w/upturned lugs

Screw 10-32 (Bus Type) and

Screw M5 w/upturned lugs

and 30° bend

and 30° bend

30° bend

30° bend

Five Six

| 4 CI<br>A <sup>2</sup><br>B<br>C<br>D <sup>3</sup><br>E <sup>3</sup><br>F <sup>3</sup>  | RCUIT Switch Only (No Coil) Series Trip (Current) Series Trip (Voltage) Shunt Trip (Current) Shunt Trip (Voltage) Relay Trip (Current) | G <sup>3</sup><br>H <sup>3,4</sup><br>J <sup>3,4</sup><br>K <sup>3,4</sup> | Relay Trip (Voltage) Dual Coil with Shunt Trip Voltage Coil Dual Coil with Shunt Trip Voltage Coil (side terminal) Dual Coil with Relay Trip Voltage Coil |
|---|--|--|---|
| 5 AUXILIARY/ALARM SWITCH <sup>5</sup> 0 w/o Aux Switch 1 S.P.D.T., 0.093 Q.C. Term. 2 S.P.D.T., 0.110 Q.C. Term. 3 S.P.D.T., 0.139 Solder Luq |  | 5<br>6<br>7  | S.P.S.T., 0.093 Q.C.<br>Term.(Gold Contacts)<br>S.P.S.T., 0.139 Solder Lug<br>S.P.S.T., 0.110 Q.C.<br>Term.(Gold Contacts)                                |

Three

| 4               | S.P.D.T., 0.110 Q.C. Term. | 8               | S.P.S.T., 0.187 Q.C. Term. |
|-----------------|----------------------------|-----------------|----------------------------|
|                 | (Gold Contacts)            | 9               | S.P.D.T., 0.187 Q.C. Term. |
|                 |                            |                 |                            |
| 6 FR            | EQUENCY & DELAY            |                 |                            |
| 03 <sup>2</sup> | DC 50/60Hz, Switch Only    | 30              | DC, 50/60Hz Instantaneous  |
| 10 <sup>6</sup> | 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   |
| 20 <sup>6</sup> | 50/60Hz Instantaneous      | 447             | 50/60Hz Medium, Hi-Inrush  |
| 21              | 50/60Hz Ultra Short        | 46 <sup>7</sup> | 50/60Hz Long, Hi-Inrush    |
| 22              | 50/60Hz Short              | 52 <sup>7</sup> | DC, Short,Hi-Inrush        |
| 24              | 50/60Hz Medium             | 54 <sup>7</sup> | DC, Medium, Hi-Inrush      |
| 26              | 50/60Hz Long               | 56 <sup>7</sup> | DC, Long, Hi-Inrush        |

2

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 break-
- ers, 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 6 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. 9
- VDE Certification up to 25 amps and UL Recognition and CSA Acceptance up to 30 10 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
- Available with Actuator Codes A, S and T.
- 15

Codes A, B and C.

Available with voltage coils only.

Terminal Code Q not available with VDE approvals.

| 7 CU                         | 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°   | 35.000  |
| 090                          | 0.090                      | 410         | 1.000     | 490             | 9.000     | 640°   | 40.000  |
| 095                          | 0.095                      | 512         | 1.250     | 495             | 9.500     | 645°   | 45.000  |
| 210                          | 0.100                      | 415         | 1.500     | 610             | 10.000    | 650°   | 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    |        |         |
| A06                          | OLTAGE C<br>6 DC           | A32         | 32 DC     | J12             | 12 AC     | J65    | 65 AC   |
| A12                          | 12 DC                      | A32<br>A48  | 48 DC     | J12             | 12 AC     | K20    | 120 AC  |
| A12                          | 18 DC                      | A65         | 65 DC     | J24             | 24 AC     | L40    | 240 AC  |
| A24                          | 24 DC                      | J06         | 6 AC      | J48             | 48 AC     | L+0    | 240 AC  |
| 0.75                         | DIAINIAI a                 |             |           | F#              | 0 144     | (D. T. | ,       |
|                              | RMINAL <sup>9</sup>        | 050 T L (   | 0.01      | E <sup>11</sup> | Screw M4  |        |         |
| 110                          |                            | ).250 Tab ( | ,         | F               | Screw M5  |        | ea iugs |
| 2                            |                            | 2 w/upturn  |           | _               | and 30° b |        | ,       |
| 311                          |                            | 2 (Bus Typ  |           | G               | Screw M5  |        | e)      |
| 4                            |                            | 32 w/upturi |           |                 | and 30° b |        | ,       |
| 5 <sup>11</sup>              |                            | 32 (Bus Ty  |           | Н               | Screw M5  |        |         |
| 6 Screw 8-32 w/upturned lugs |                            | L12         | 0.250 Q.C | :/ Solder I     | ₋ug       |        |         |

| C S                       | crew iv | 14 w/upturned lug | and 30° bend |              |  |  |  |  |
|---------------------------|---------|-------------------|--------------|--------------|--|--|--|--|
| 9 ACTUATOR COLOR & LEGEND |         |                   |              |              |  |  |  |  |
|                           | I-O     | ON-OFF            | Dual         | Legend Color |  |  |  |  |
| White                     | Α       | В                 | 1            | Black        |  |  |  |  |
| Black                     | С       | D                 | 2            | White        |  |  |  |  |
| Red                       | F       | G                 | 3            | White        |  |  |  |  |
| Green                     | Н       | J                 | 4            | White        |  |  |  |  |
| Blue                      | K       | L                 | 5            | White        |  |  |  |  |
| Yellow                    | M       | N                 | 6            | Black        |  |  |  |  |
| Gray                      | Р       | Q                 | 7            | Black        |  |  |  |  |
| Orange                    | R       | S                 | 8            | Black        |  |  |  |  |

M6 Threaded Studs

Printed Circuit Board

Screw M4 w/upturned lugs

Push-On 0.110 Tab (Q.C.)

Screw M4 (Bus Type)

Terminals

Push-In Stud

and 30° bend

**Q**<sup>16</sup>

R

| - |          |   |          |
|---|----------|---|----------|
|   | 10 M     | OUNTING/BARRIERS  |          |
|   |          | MOUNTING STYLE  | BARRIERS |
|   |          | Threaded Insert, 2 per pole                               |          |
|   | 1        | 6-32 x 0.195 inches                                       | no       |
|   | Α        | 6-32 X 0.195 inches (multi-pole units only)               | yes      |
|   | 2        | ISO M3 x 5mm  | no       |
|   | В        | ISO M3 x 5mm  | yes      |
|   |          | Rectangular Adapter Plate with mounting centers of        | f 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       |
|   | $D^{14}$ | 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 | ;        |

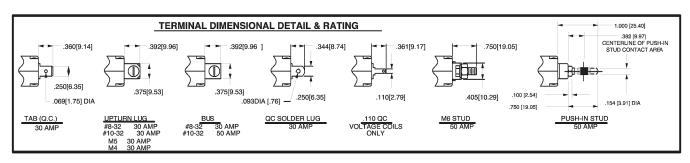
# **AGENCY APPROVAL**

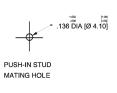
- UL Recognized & CSA Accepted VDE Certified, UL Recognized & CSA Accepted Ď Ē
- TUV Certified, UL Recognized & CSA Accepted
  UL Rec. STD 1077, UL Rec. 1500 (ignition protected), & CSA Accepted

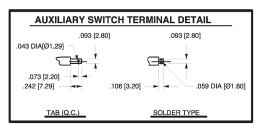
|   | CIRCUIT   | SCHEMATIC   | Ī  | _                     | CIRCUIT SC   | CHEMATIC  | Ι.   | _                     |
|---|---|---|----|-----------------------|--|---|------|-----------------------|
|   | ANSI  | IEC   | 등등 | AUX<br>SWITCH<br>CODE | ANSI   | IEC   | 158  | AUX<br>SWITCH<br>CODE |
|   |   | NLY (NO COIL)   | 88 | SWA                   | SERIES   | TRIP  | 15°S | × % ⊃                 |
| SERIES TRIP (2 TERM'S.)  MAIN TERM'S. (SEE TABLE A)       | LINE  | LOAD (LAST)   | А  | 0                     | LOAD   | LINE (3) (NETZ)  LOAD (LAST)  | ВС   | 0                     |
| .520 [13.21]  | SWITCH O  | NLY (NO COIL)   |    |                       | SERIES TRIP<br>AUXILIARY / ALARI                                 | WITH  |      |                       |
| SERIES TRIP W AUX SWITCH (5 TERM'S.)  AUX. SWITCH TERM'S. | LINE C C NO NC LOAD                               | LINE (NETZ)  C  NO  LOAD (LAST)                         | А  | 2<br>3<br>4           | LINE STD, AUX, SWITCH C C C NO NC ALARM SWITCH LOAD              | LINE (NETZ) (3)  STD. AUX, SWITCH  C  NO  NO  ALARM SWITCH  LOAD (LAST)                 | ВС   | 2<br>3<br>4           |
| SHUNT TRIP<br>(3 TERM'S.)                                 | SHUNT LINE SHUNT                                  | LINE (NETZ) (3)  SHUNT (NEBENSCHLUSS)  LOAD (LAST)      | DE | 0                     | DUAL COIL; SERIES TRIF SHUNT TRIP VO  LINE  VOLTAGE COIL  LOAD   | P CURRENT COIL, LTAGE COIL  LINE (NETZ)  LOAD VOLTAGE (LAST)  COIL                      | н    | 0                     |
| RELAY TRIP (4 TERM'S.) .780 [19.81]                       | RELA  LINE  C  C  C  C  C  C  C  C  C  C  C  C  C | RELAY (NETZ)  RELAY (NETZ)  RELAY (LOAD (RELAIS) (LAST) | FG | 0                     | DUAL COIL; SERIES TRIP RELAY TRIP VOL'  LINE  VOLTAGE COIL  LOAD | CURRENT COIL. TAGE COIL  LINE VOLTAGE (NETZ)  OUT  LOAD LOAD (LAST)  COIL  VOLTAGE COIL | к    | 0                     |

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

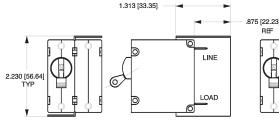
| HANDLE                     | HANDLE POSITION VS. AUX/ALARM SWITCH MODE |         |                 |                   |                 |  |  |  |  |
|----------------------------|---|---------|-----------------|-------------------|-----------------|--|--|--|--|
|                            | STANDARD C/B                              |         | MID TI          | RIP C/B           | MID T           | RIP C/B                                |  |  |  |
| CIRCUIT<br>BREAKER<br>MODE | BREAKER HANDLE POSITION ALLY SWITCH MODE  |         | HANDLE POSITION | ALARM SWITCH MODE | HANDLE POSITION | AUX. SWITCH MODE<br>(w/o ALARM SWITCH) |  |  |  |
| OFF                        | 30°                                       | NC NO C | 30°             | NC NO C           | 300             | NC NO C                                |  |  |  |
| ON                         | 30°                                       | NC NO C | 30°             | NC NO C           | 30°             | NC NO C                                |  |  |  |
| ELECTRICAL<br>TRIP         | 30°                                       | NC NO C | MID 90°         | NC NO C           | MID 90°         | NC NO C                                |  |  |  |

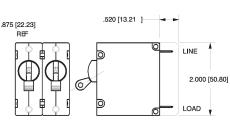






| TABLE A<br>TIGHTENING TORQUE<br>SPECIFICATIONS |              |  |  |  |  |
|--|--------------|--|--|--|--|
| THREAD SIZE                                    | TORQUE       |  |  |  |  |
| #6-32 & M3 MOUNTING                            | 7-9 IN-LBS   |  |  |  |  |
| HARDWARE                        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





**BARRIER FOR** 

**UL-RECOGNIZED MULTI-POLE** 

**BREAKERS** 

| TABLE B                        |  |                                |  |  |  |  |
|--------------------------------|--|--------------------------------|--|--|--|--|
| TERMINA                        | TERMINAL DESCRIPTION                         |                                |  |  |  |  |
| MAIN                           | TAB (Q.C.)<br>SCREW TYPE                     | 2.090 [53.09]<br>2.122 [53.90] |  |  |  |  |
| SHUNT, RELAY<br>&<br>DUAL COIL | TAB (Q.C.)<br>SCREW #8-32<br>W/UPTURNED LUGS | 2.612 [66.35]<br>2.644 [67.16] |  |  |  |  |
| AUX. SWITCH*                   | TAB (Q.C.) .110 x .020<br>SOLDER TYPE        | 2.537 [64.44]<br>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

### BARRIER FOR UL-489 MULTI-POLE BREAKERS

# ON OF LINE (NETZ) 1 560 [39.62] TYP 1 32 [.81] TYP

.220 [5.59] TYP

All dimensions are in inches [millimeters].

Tolerance ±.020 [.51] unless otherwise specified.

