

## B-TRIP CHARACTERISTICS

### Application Examples:

Business equipment, wiring protection, lighting, appliances, control circuits, some motors and some electronic applications. Relatively long thermal trip delay but low magnetic trip point.

### Type Designation

2   B   N   U   60  
(a) (b) (c) (d) (e)

(a) = Number of Poles

(b) = Trip Characteristic

(c) = Blank: without neutral pole

= N: with neutral pole

(d) = U: UL/CSA version

= R: ring tongue terminals,

UL/CSA version

= Blank: European version

(e) = Rated Current

### Approvals:



UL508 Listed

### Voltage Rating<sup>①</sup>

### Interrupting Capacity (UL/CSA - Ratings)

### Group Short Circuit (UL/CSA - Ratings)

### Interrupting Capacity (VDE - Ratings)

### Mechanical Endurance

### Calibration Temperature

### Standard Pack and Weight

### Terminal Size Acceptability

### Terminal Torque

### Basic Dimensions (Elevation View)

① Not European standard rating.

② Please refer to page 21 for specific applications.

③ DC rating (Manufacturer's self certification):  
One pole 48VDC, two pole series 125VDC

\* VDE pending

## ONE POLE



1B



| Rated Current     | Type/<br>Cat. No. | Approvals |
|-------------------|-------------------|-----------|
| 0.3A              | NA                |           |
| 0.5A              | NA                |           |
| 0.75A             | NA                |           |
| 0.8A <sup>①</sup> | NA                |           |
| 1.0A              | 1BU1              | UL SF     |
| 1.6A              | 1BU1.6            | UL SF     |
| 2.0A              | 1BU2              | UL SF     |
| 2.5A              | 1BU2.5            | UL SF     |
| 3.0A              | 1BU3              | UL SF     |
| 3.5A              | 1BU3.5            | UL SF     |
| 4.0A              | 1BU4              | UL SF     |
| 5.0A              | 1BU5              | UL SF     |
| 6.0A              | 1BU6              | UL SF     |
| 8.0A              | NA                |           |
| 10A               | 1BU10             | UL SF     |
| 12A <sup>①</sup>  | NA                |           |
| 12.5A             | NA                |           |
| 13A               | 1BU13             | UL SF     |
| 15A <sup>①</sup>  | 1BU15             | UL SF     |
| 16A               | 1BU16             | UL SF     |
| 20A               | 1BU20             | UL SF     |
| 25A               | 1BU25             | UL SF     |
| 30A <sup>①</sup>  | 1BU30             | UL SF     |
| 32A               | 1BU32             | UL SF *   |
| 40A               | 1BU40             | UL SF *   |
| 50A               | 1BU50             | UL SF *   |
| 60A <sup>①</sup>  | 1BU60             | UL SF     |
| 63A               | 1BU63             | UL SF *   |

277VAC

0.3-60A (RC): 10kA with UL-listed  
RK5 back-up fuse or MCCB

0.3-10A (RC): 10kA; 13-60A (RC): 5kA  
no branch circuit protection required

0.3-63A (RC): 10kA

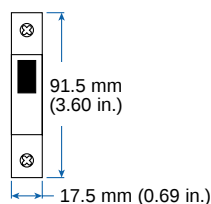
10000 ON/OFF operations<sup>②</sup>

40°C (104°F)

10/0.3A - 32A = 1.4kg (3.1 lb.)  
40A - 63A = 1.6kg (3.5 lb.)

Top: 18-3 AWG; Bottom: 18-2 AWG

20 lb.in.



## ONE POLE PLUS NEUTRAL



2BN



| Type/<br>Cat. No. | Approvals |
|-------------------|-----------|
| NA                |           |
| NA                |           |
| NA                |           |
| NA                |           |
| 2BNU1             | UL SF     |
| 2BNU1.6           | UL SF     |
| 2BNU2             | UL SF     |
| 2BNU2.5           | UL SF     |
| 2BNU3             | UL SF     |
| 2BNU3.5           | UL SF     |
| 2BNU4             | UL SF     |
| 2BNU5             | UL SF     |
| 2BNU6             | UL SF     |
| NA                |           |
| 2BNU10            | UL SF     |
| NA                |           |
| NA                |           |
| 2BNU13            | UL SF     |
| 2BNU15            | UL SF     |
| 2BNU16            | UL SF     |
| 2BNU20            | UL SF     |
| 2BNU25            | UL SF     |
| 2BNU30            | UL SF     |
| 2BNU32            | UL SF *   |
| 2BNU40            | UL SF *   |
| 2BNU50            | UL SF *   |
| 2BNU60            | UL SF     |
| 2BNU63            | UL SF *   |

277VAC

0.3-60A (RC): 10kA with UL-listed  
RK5 back-up fuse or MCCB

0.3-10A (RC): 10kA; 13-60A (RC): 5kA  
no branch circuit protection required

0.3-63A (RC): 10kA

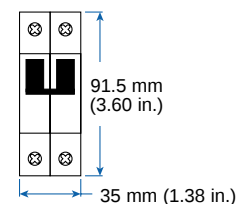
10000 ON/OFF operations<sup>②</sup>

40°C (104°F)

5/0.3A - 32A = 1.3kg (2.9 lb.)  
40A - 63A = 1.45kg (3.2 lb.)

Top: 18-3 AWG; Bottom: 18-2 AWG

20 lb.in.



## TWO POLE



2B



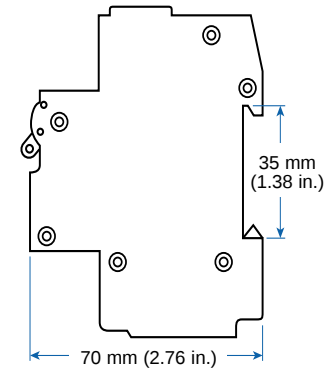
## THREE POLE



3B



### Basic Dimensions (side view)



| Rated Current | Type/<br>Cat. No. | Approvals |
|---------------|-------------------|-----------|
|---------------|-------------------|-----------|

|                   |        |    |
|-------------------|--------|----|
| 0.3A              | NA     |    |
| 0.5A              | NA     |    |
| 0.75A             | NA     |    |
| 0.8A <sup>①</sup> | NA     |    |
| 1.0A              | 2BU1   | UL |
| 1.6A              | 2BU1.6 | UL |
| 2.0A              | 2BU2   | UL |
| 2.5A              | 2BU2.5 | UL |
| 3.0A              | 2BU3   | UL |
| 3.5A              | 2BU3.5 | UL |
| 4.0A              | 2BU4   | UL |
| 5.0A              | 2BU5   | UL |
| 6.0A              | 2BU6   | UL |
| 8.0A              | NA     |    |
| 10A               | 2BU10  | UL |
| 12A <sup>①</sup>  | NA     |    |
| 12.5A             | NA     |    |
| 13A               | 2BU13  | UL |
| 15A <sup>①</sup>  | 2BU15  | UL |
| 16A               | 2BU16  | UL |
| 20A               | 2BU20  | UL |
| 25A               | 2BU25  | UL |
| 30A <sup>①</sup>  | 2BU30  | UL |
| 32A               | 2BU32  | UL |
| 40A               | 2BU40  | UL |
| 50A               | 2BU50  | UL |
| 60A <sup>①</sup>  | 2BU60  | UL |
| 63A               | 2BU63  | UL |

480Y/277VAC

0.3-60A (RC): 10kA with UL-listed RK5 back-up fuse or MCCB

0.3-10A (RC): 10kA; 13-60A (RC): 5kA no branch circuit protection required

0.3-63A (RC): 10kA

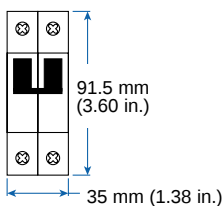
10000 ON/OFF operations<sup>②</sup>

40°C (104°F)

5/1.4kg (3.1 lb.)

Top: 18-3 AWG; Bottom: 18-2 AWG

20 lb.in.



| Type/<br>Cat. No. | Approvals |
|-------------------|-----------|
|-------------------|-----------|

|        |    |
|--------|----|
| NA     |    |
| NA     |    |
| NA     |    |
| NA     |    |
| 3BU1   | UL |
| 3BU1.6 | UL |
| 3BU2   | UL |
| 3BU2.5 | UL |
| 3BU3   | UL |
| 3BU3.5 | UL |
| 3BU4   | UL |
| 3BU5   | UL |
| 3BU6   | UL |
| NA     |    |
| 3BU10  | UL |
| NA     |    |
| NA     |    |
| 3BU13  | UL |
| 3BU15  | UL |
| 3BU16  | UL |
| 3BU20  | UL |
| 3BU25  | UL |
| 3BU30  | UL |
| 3BU32  | UL |
| 3BU40  | UL |
| 3BU50  | UL |
| 3BU60  | UL |
| 3BU63  | UL |

480Y/277VAC

0.3-60A (RC): 10kA with UL-listed RK5 back-up fuse or MCCB

0.3-10A (RC): 10kA; 13-60A (RC): 5kA no branch circuit protection required

0.3-63A (RC): 10kA

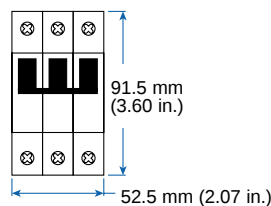
10000 ON/OFF operations<sup>②</sup>

40°C (104°F)

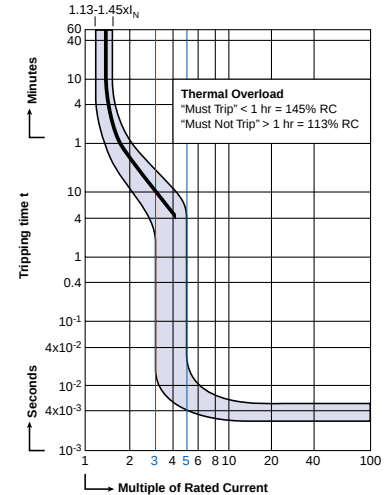
4/1.68kg (3.7 lb.)

Top: 18-3 AWG; Bottom: 18-2 AWG

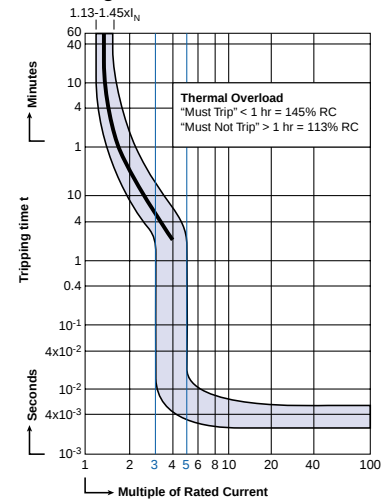
20 lb.in.



### V-EA-B Trip 6.0A Through 10A Rated Current



### V-EA-B Trip 13A Through 63A Rated Current



### "B" Magnetic Trip Parameters

Rated current 0.3A to 63A.

1. Hold for a minimum of 100ms at surge of 3 times rated current.
2. Trip in under 100ms at 5 times rated current.

**NB:** Trip curves shown comply with North American standards. For trip curves according to European standards please consult Altech.

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