

## D-TRIP CHARACTERISTICS

### Application Examples:

High inrush motors, transformers, power supplies, heaters and reactive loads. Relatively long thermal trip delay and very high magnetic trip point.

Prototype testing is recommended in motor applications where the relatively long thermal trip delay may not provide adequate motor overload protection. Motor-integral overload protectors are recommended, with the V-EA-D providing disconnect, backup thermal protection and additional short circuit and energy let-through protection.

### Type Designation

$\frac{2}{(a)} \quad \frac{D}{(b)} \quad \frac{N}{(c)} \quad \frac{U}{(d)} \quad \frac{60}{(e)}$

(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>®</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)

<sup>①</sup> Not European standard rating.

<sup>②</sup> Please refer to page 21 for specific applications.

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

\* VDE pending

## ONE POLE



### 1D

| Rated Current     | Type/<br>Cat. No. | Approvals |
|-------------------|-------------------|-----------|
| 0.3A              | 1DU03             | UL SF     |
| 0.5A              | 1DU05             | UL SF     |
| 0.75A             | 1DU075            | UL SF     |
| 0.8A <sup>①</sup> | NA                |           |
| 1.0A              | 1DU1              | UL SF     |
| 1.6A              | 1DU1.6            | UL SF     |
| 2.0A              | 1DU2              | UL SF     |
| 2.5A              | 1DU2.5            | UL SF     |
| 3.0A              | 1DU3              | UL SF     |
| 3.5A              | 1DU3.5            | UL SF     |
| 4.0A              | 1DU4              | UL SF     |
| 5.0A              | 1DU5              | UL SF     |
| 6.0A              | 1DU6              | UL SF     |
| 8.0A              | 1DU8              | UL SF     |
| 10A               | 1DU10             | UL SF     |
| 12A <sup>①</sup>  | NA                |           |
| 12.5A             | NA                |           |
| 13A               | 1DU13             | UL SF     |
| 15A <sup>①</sup>  | 1DU15             | UL SF     |
| 16A               | 1DU16             | UL SF     |
| 20A               | 1DU20             | UL SF     |
| 25A               | 1DU25             | UL SF     |
| 30A <sup>①</sup>  | 1DU30             | UL SF     |
| 32A               | 1DU32             | UL SF *   |
| 40A               | 1DU40             | UL SF *   |
| 50A               | 1DU50             | UL SF *   |
| 60A <sup>①</sup>  | 1DU60             | UL SF     |
| 63A               | 1DU63             | 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

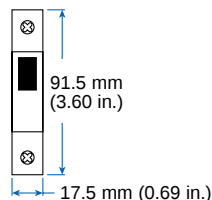
10000 ON/OFF operations<sup>②</sup>

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



### 2DN

| Type/<br>Cat. No. | Approvals |
|-------------------|-----------|
| 2DNU03            | UL SF     |
| 2DNU05            | UL SF     |
| 2DNU075           | UL SF     |
| NA                |           |
| 2DNU1             | UL SF     |
| 2DNU1.6           | UL SF     |
| 2DNU2             | UL SF     |
| 2DNU2.5           | UL SF     |
| 2DNU3             | UL SF     |
| 2DNU3.5           | UL SF     |
| 2DNU4             | UL SF     |
| 2DNU5             | UL SF     |
| 2DNU6             | UL SF     |
| 2DNU8             | UL SF     |
| 2DNU10            | UL SF     |
| NA                |           |
| NA                |           |
| 2DNU13            | UL SF     |
| 2DNU15            | UL SF     |
| 2DNU16            | UL SF     |
| 2DNU20            | UL SF     |
| 2DNU25            | UL SF     |
| 2DNU30            | UL SF     |
| 2DNU32            | UL SF *   |
| 2DNU40            | UL SF *   |
| 2DNU50            | UL SF *   |
| 2DNU60            | UL SF     |
| 2DNU63            | 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

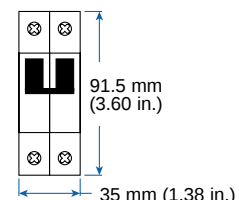
10000 ON/OFF operations<sup>②</sup>

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



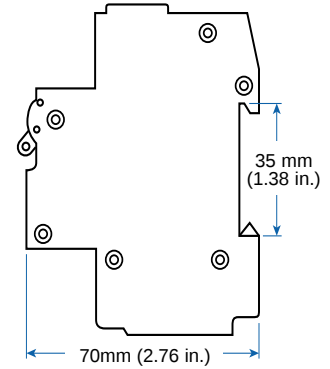
2D

## THREE POLE



3D

### Basic Dimensions (side view)



| Rated Current | Type/<br>Cat. No. | Approvals |
|---------------|-------------------|-----------|
| 0.3A          | 2DU03             | UL SF     |
| 0.5A          | 2DU05             | UL SF     |
| 0.75A         | 2DU075            | UL SF     |
| 0.8A          | NA                |           |
| 1.0A          | 2DU1              | UL SF     |
| 1.6A          | 2DU1.6            | UL SF     |
| 2.0A          | 2DU2              | UL SF     |
| 2.5A          | 2DU2.5            | UL SF     |
| 3.0A          | 2DU3              | UL SF     |
| 3.5A          | 2DU3.5            | UL SF     |
| 4.0A          | 2DU4              | UL SF     |
| 5.0A          | 2DU5              | UL SF     |
| 6.0A          | 2DU6              | UL SF     |
| 8.0A          | 2DU8              | UL SF     |
| 10A           | 2DU10             | UL SF     |
| 12A           | NA                |           |
| 12.5A         | NA                |           |
| 13A           | 2DU13             | UL SF     |
| 15A           | 2DU15             | UL SF     |
| 16A           | 2DU16             | UL SF     |
| 20A           | 2DU20             | UL SF     |
| 25A           | 2DU25             | UL SF     |
| 30A           | 2DU30             | UL SF     |
| 32A           | 2DU32             | UL SF *   |
| 40A           | 2DU40             | UL SF *   |
| 50A           | 2DU50             | UL SF *   |
| 60A           | 2DU60             | UL SF *   |
| 63A           | 2DU63             | UL SF *   |

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

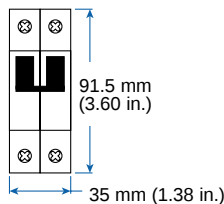
0.3-63A (RC): 10kA

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 |
|-------------------|-----------|
| 3DU03             | UL SF     |
| 3DU05             | UL SF     |
| 3DU075            | UL SF     |
| NA                |           |
| 3DU1              | UL SF     |
| 3DU1.6            | UL SF     |
| 3DU2              | UL SF     |
| 3DU2.5            | UL SF     |
| 3DU3              | UL SF     |
| 3DU3.5            | UL SF     |
| 3DU4              | UL SF     |
| 3DU5              | UL SF     |
| 3DU6              | UL SF     |
| 3DU8              | UL SF     |
| 3DU10             | UL SF     |
| NA                |           |
| NA                |           |
| 3DU13             | UL SF     |
| 3DU15             | UL SF     |
| 3DU16             | UL SF     |
| 3DU20             | UL SF     |
| 3DU25             | UL SF     |
| 3DU30             | UL SF     |
| 3DU32             | UL SF *   |
| 3DU40             | UL SF *   |
| 3DU50             | UL SF *   |
| 3DU60             | UL SF *   |
| 3DU63             | UL SF *   |

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

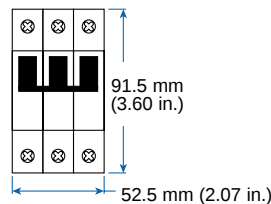
0.3-63A (RC): 10kA

10000 ON/OFF operations<sup>2</sup>

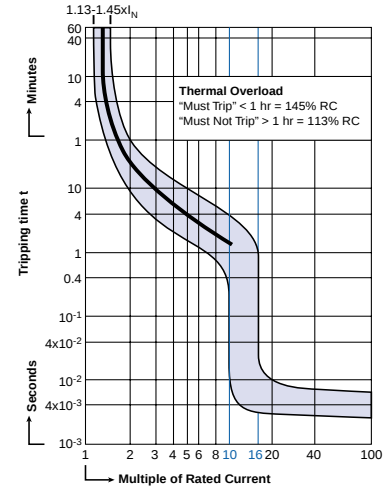
40°C (104°F)

4/1.68kg (3.7 lb.)

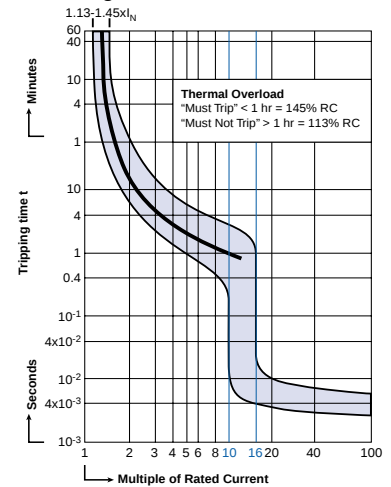
Top: 18-3 AWG; Bottom: 18-2 AWG  
20 lb.in.



### V-EA-D Trip 0.3A Through 10A Rated Current



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



### "D" Magnetic Trip Parameters

Rated current 0.3A to 63A.

1. Hold for a minimum of 100ms at surge of 10 times rated current.
2. Trip in under 100ms at 16 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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[2DNU03](#)