

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:



Voltage Rating[®]

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.
[®] DC rating (Manufacturer's self certification):
 One pole 48VDC, two pole series 125VDC
 * VDE pending

ONE POLE



1D

Rated Current	Type/ Cat. No.	Approvals
0.3A	1DU03	UL SF
0.5A	1DU05	UL SF
0.75A	1DU075	UL SF
0.8A ^①	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 ^①	NA	
12.5A	NA	
13A	1DU13	UL SF
15A ^①	1DU15	UL SF
16A	1DU16	UL SF
20A	1DU20	UL SF
25A	1DU25	UL SF
30A ^①	1DU30	UL SF
32A	1DU32	UL SF *
40A	1DU40	UL SF *
50A	1DU50	UL SF *
60A ^①	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

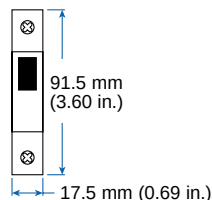
10000 ON/OFF operations^②

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/ 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

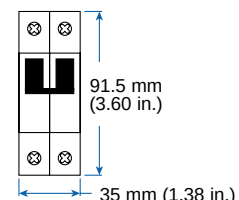
10000 ON/OFF operations^②

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



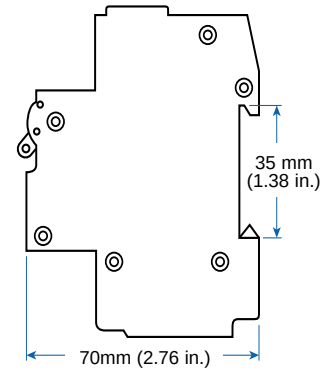
2D

THREE POLE



3D

Basic Dimensions (side view)



Rated Current	Type/ Cat. No.	Approvals
0.3A	2DU03	UL SF
0.5A	2DU05	UL SF
0.75A	2DU075	UL SF
0.8A ¹	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 ¹	NA	
12.5A	NA	
13A	2DU13	UL SF
15A ¹	2DU15	UL SF
16A	2DU16	UL SF
20A	2DU20	UL SF
25A	2DU25	UL SF
30A ¹	2DU30	UL SF
32A	2DU32	UL SF *
40A	2DU40	UL SF *
50A	2DU50	UL SF *
60A ¹	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

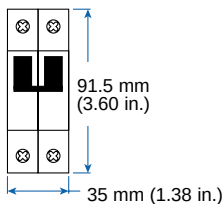
0.3-63A (RC): 10kA

10000 ON/OFF operations²

40°C (104°F)

5/1.4kg (3.1 lb.)

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



Type/ 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

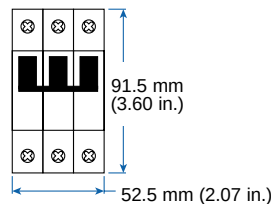
0.3-63A (RC): 10kA

10000 ON/OFF operations²

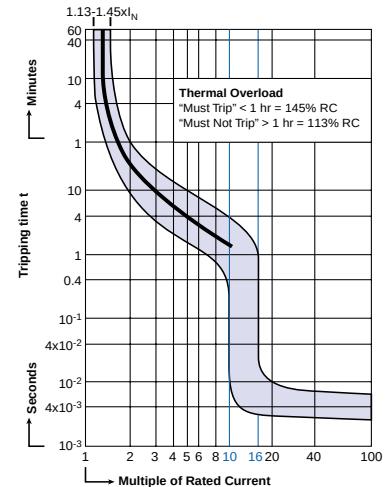
40°C (104°F)

4/1.68kg (3.7 lb.)

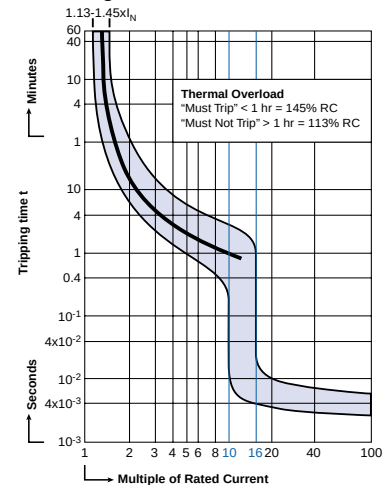
Top: 18-3 AWG; Bottom: 18-2 AWG
20 lb.in.



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](#)