

UR Series

UL1077 Recognized Supplementary Protector

- DIN Rail Mounted
- 17.5mm width per pole
- Thermal Magnetic
- 0.5-60A / 480Y/277V AC, 50/60Hz
- 10kA Short Circuit Withstand Capacity
- Applications (on the load side of Branch Circuit Protection) include: Sensitive Electronics, Power Supplies, Appliance circuits, etc.



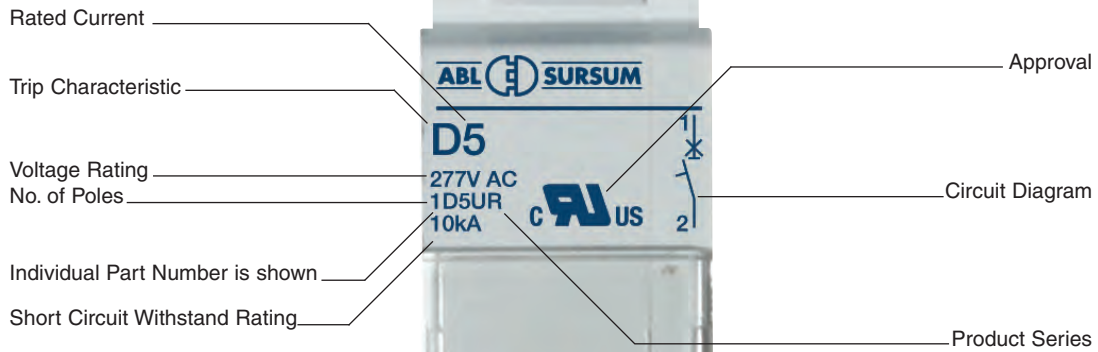
UR - Series	
Voltage Rating	0.5-60A / 480Y/277V AC
Short Circuit Withstand Rating	0.5 - 10A (RC): 10 kA with no back-up fuse 8 - 63A (RC): 10 kA with UL-listed Class J back-up fuse; 5 kA with no back-up fuse
Calibration Temperature	30°C (86°F)
Ambient Temperature	-25°C to +55°C (-13°F to 131°F)
Storage Temperature	-40°C to +70°C (-40°F to 158°F)
Terminal Torque (min/max)	2 Nm (17.7 lb.in.) / 2.5Nm (22.2 lb.in)
Electrical Life	6,000 switching cycles ON/ OFF
Mechanical Life	10,000 switching cycles ON/ OFF
Vibration Resistance	> 15g according to DIN EN 60069-2-59 during a load with 1.05 x I _N
Resistance to mechanical shocks	25g @ 11ms
Degree of protection acc. IEC/EN 60529	IP20
Mounting Orientation	In any plane

Short Circuit Withstand Ratings for R-Series Supplementary Protector

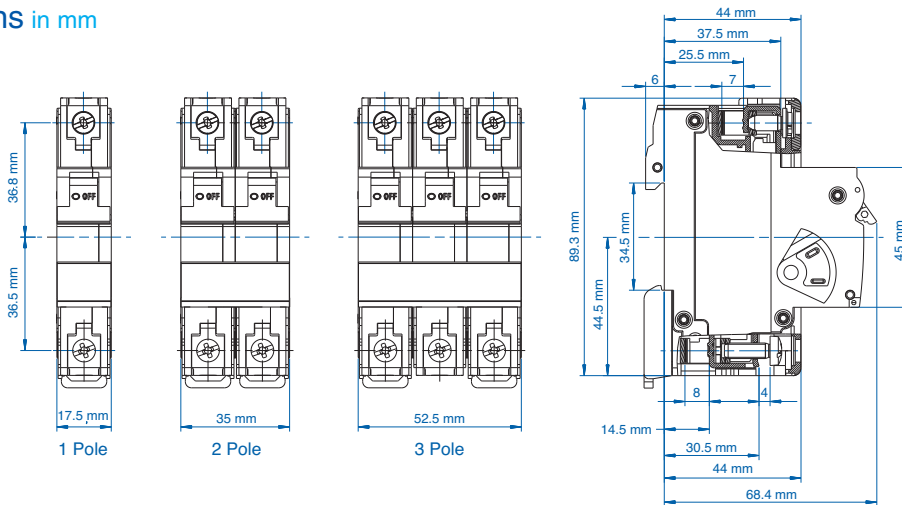
Trip Curve	Amp Range	Backup Protection	
		UL-Listed Class J Fuse up to 10kA	No Backup Fuse Required up to:
All	0.5 - 10A	70A	10kA
All	12 - 60A	4xRC*	5kA

*up to nearest rated current

Marking Details



Dimensions in mm



Application Overview

Trip-Characteristics*				Applications						
Characteristic Trip Boundaries				Lighting Wiring Protection Control Circuits	Business Equipment Appliances	Control Transformers	Power Supplies	General Electronics	Reactive Load	
Thermal Trip		Magnetic Trip								
Must not Trip > 100ms	Must Trip < 1hr	Must not Trip > 100ms	Must Trip at 100ms							
B-Characteristics										
1.13xRC	1.45xRC	3xRC	5xRC							
C-Characteristics										
1.13xRC	1.45xRC	5xRC	10xRC							
D-Characteristics										
1.13xRC	1.45xRC	10xRC	20xRC							

*The value of each characteristic is shown vertically beneath its corresponding heading.



Warning!

This information should only be used as a selection guide. The use of a Miniature Circuit Breaker/Supplementary Protector in an application with a certain Trip-Characteristic always requires prototype testing! It is the responsibility of the circuit design engineer to select the appropriate Miniature Circuit Breaker/Supplementary Protector for his specific application.

UL 489

UL 508

UL 1077

UL 1077
Equipment Breakers

Earth Leakage
Circuit Breakers

ANNEX



UL 489

UL 508

UL 1077

UL 1077
Equipment Breakers

Earth Leakage
Circuit Breakers

ANNEX

UR - Series D-Trip Characteristic

Application Examples:

Control transformers, power supplies, reactive loads. Relatively long thermal trip delay and very high magnetic trip point.



Standard Pack: 12
Weight:
0.3A - 32A
1.75kg (3.86 lb.)
40A - 63A
2.07kg (4.56 lb.)

One Pole

Rated Current	Type/ Cat. No.	Rated Voltage
0.5A	1D05UR	277V AC
1.0A	1D1UR	277V AC
2.0A	1D2UR	277V AC
3.0A	1D3UR	277V AC
4.0A	1D4UR	277V AC
5.0A	1D5UR	277V AC
6.0A	1D6UR	277V AC
8.0A	1D8UR	277V AC
10A	1D10UR	277V AC
12A	1D12UR	277V AC
13A	1D13UR	277V AC
15A	1D15UR	277V AC
16A	1D16UR	277V AC
20A	1D20UR	277V AC
25A	1D25UR	277V AC
30A	1D30UR	277V AC
32A	1D32UR	277V AC
40A	1D40UR	277V AC
50A	1D50UR	277V AC
60A	1D60UR	277V AC
63A*	1D63UR	277V AC



Standard Pack: 4
Weight:
0.3A - 32A
1.75kg (3.86 lb.)
40A - 63A
2.07kg (4.56 lb.)

Three Pole

Rated Current	Type/ Cat. No.	Rated Voltage
0.5A	3D05UR	480Y/277V AC
1.0A	3D1UR	480Y/277V AC
2.0A	3D2UR	480Y/277V AC
3.0A	3D3UR	480Y/277V AC
4.0A	3D4UR	480Y/277V AC
5.0A	3D5UR	480Y/277V AC
6.0A	3D6UR	480Y/277V AC
8.0A	3D8UR	480Y/277V AC
10A	3D10UR	480Y/277V AC
12A	3D12UR	480Y/277V AC
13A	3D13UR	480Y/277V AC
15A	3D15UR	480Y/277V AC
16A	3D16UR	480Y/277V AC
20A	3D20UR	480Y/277V AC
25A	3D25UR	480Y/277V AC
30A	3D30UR	480Y/277V AC
32A	3D32UR	480Y/277V AC
40A	3D40UR	480Y/277V AC
50A	3D50UR	480Y/277V AC
60A	3D60UR	480Y/277V AC
63A*	3D63UR	480Y/277V AC



Standard Pack: 6
Weight:
0.3A - 32A
1.75kg (3.86 lb.)
40A - 63A
2.07kg (4.56 lb.)

Two Pole

Rated Current	Type/ Cat. No.	Rated Voltage
0.5A	2D05UR	480Y/277V AC
1.0A	2D1UR	480Y/277V AC
2.0A	2D2UR	480Y/277V AC
3.0A	2D3UR	480Y/277V AC
4.0A	2D4UR	480Y/277V AC
5.0A	2D5UR	480Y/277V AC
6.0A	2D6UR	480Y/277V AC
8.0A	2D8UR	480Y/277V AC
10A	2D10UR	480Y/277V AC
12A	2D12UR	480Y/277V AC
13A	2D13UR	480Y/277V AC
15A	2D15UR	480Y/277V AC
16A	2D16UR	480Y/277V AC
20A	2D20UR	480Y/277V AC
25A	2D25UR	480Y/277V AC
30A	2D30UR	480Y/277V AC
32A	2D32UR	480Y/277V AC
40A	2D40UR	480Y/277V AC
50A	2D50UR	480Y/277V AC
60A	2D60UR	480Y/277V AC
63A*	2D63UR	480Y/277V AC



Add-on Neutral Pole

Rated Current	Type/ Cat. No.	Rated Voltage
0.3-63A	N63UM	480/277V AC

Standard Pack: 6
Weight:
0.775kg (1.71)

*63A is not UL Recognized.

