



# SERIES 17

RAISING THE BAR  
MP - COUNT ON IT

High Amperage 25 to 300 AMP

Type I & III Vehicle Protection

IP67 Waterproof

SAE & ABYC Compliant

Ignition-Protected

LED TripID™ Option



## SUPERIOR CIRCUIT PROTECTION

[www.mechprod.com](http://www.mechprod.com)

## Series 17 Overview

### FEATURES:

48 VDC maximum for 25 - 150 Amp

30 VDC maximum for 175 - 200 Amp

Trip-free operation

Standard Terminations in Surface  
and Panel Mount (S0 and P0)

Easy Access Terminations for  
Surface and Panel Mount (S1, S3, P1,)

- Auto, manual, or switching option
- Visible trip indication
- Available with 1/4" and 3/8" Stainless  
- Steel Terminal Studs and Sems Nuts
- Waterproof
- Ignition-protected
- Improved Robust Design

## Series 17 Specifications

|                                        |                                                                                                                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard Amp Ratings</b>            | 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 110, 120, 135, 150, 175, 200, 225, 250, 275, and 300 Amps                                                                                                                           |
| <b>Maximum Voltage Ratings</b>         | Type III: 48 VDC (25 - 150A); 30 VDC (175 - 200A); 14VDC (225 - 250A)<br>Type I: 30 VDC auto-reset (25 - 200A); 14VDC (225 - 300A)                                                                                           |
| <b>Ultimate Trip</b>                   | Must Hold 100% at 25°C/77°F<br>Must Trip at 135% within 1 hour.                                                                                                                                                              |
| <b>Dielectric Strength</b>             | 1,500VAC Minimum                                                                                                                                                                                                             |
| <b>Interrupt Capacity (25 - 150A)</b>  | 3,000A @ 14VDC (Type III)<br>1,500A @ 48VDC (Type III)<br>3,000A @ 30VDC (Type I)                                                                                                                                            |
| <b>Interrupt Capacity (175 - 200A)</b> | 2,500A @ 14VDC (Type III)<br>1,500A @ 30VDC (Type I and Type III)                                                                                                                                                            |
| <b>Interrupt Capacity (225 - 300A)</b> | 2,500A, 14VDC per SAE J1625 (Type I) 225A, 250A, 275A, 300A<br>1,500A, 14VDC per SAE J1625 (Type III manual reset) 225A & 250A<br>1,500A, 14VDC ABYC Main Rated (Type III manual reset) 225A & 250A                          |
| <b>Endurance (25 - 150A)</b>           | 14VDC @ 100 cycles, 6X rating (Type I & Type III)<br>28VDC @ 100 cycles, 2X rating (Type III)<br>30VDC @ 100 cycles, 2X rating (Type I)<br>48VDC @ 50 cycles, 1.5X rating (Type III)                                         |
| <b>Endurance (175 - 200A)</b>          | 14VDC @ 100 cycles, 6X rating (Type I, Type III 175A)<br>14VDC @ 50 cycles, 4X rating (Type III 200A)<br>28VDC @ 50 cycles, 2X rating (Type III)<br>30VDC @ 100 cycles, 2X rating (Type I)                                   |
| <b>Endurance (225 - 300A)</b>          | 500 cycles, 200% 14VDC per SAE J1625 (Type I) 225A, 250A, 275A, 300A<br>50 cycles, 200% 14VDC per UL1077/SAE J1625 (Type III manual reset) 225A & 250A                                                                       |
| <b>Operating Temperature Range</b>     | -40°C/-40°F to 85°C/185°F                                                                                                                                                                                                    |
| <b>Weight</b>                          | Panel Mount: 3.1 oz. (88 gm.)<br>Surface Mount: 4.0 oz. (114 gm.)                                                                                                                                                            |
| <b>Ignition Protected</b>              | Compliant to SAE J1171                                                                                                                                                                                                       |
| <b>Ingress Protection</b>              | IP67 dust and waterproof rated - protection against immersion up to 1 meter of water for 30 minutes.                                                                                                                         |
| <b>Corrosion</b>                       | Conforms to Mil-STD-202, Method 101, Test Condition A, for 96 hours under a 5% salt Spray.                                                                                                                                   |
| <b>Humidity</b>                        | Conforms to Mil-STD-202, Method 106, for 240 hours at 95% RH.                                                                                                                                                                |
| <b>Shock</b>                           | Rated to withstand 100g per Mil-STD-202, Method 213, Test Condition A.                                                                                                                                                       |
| <b>Vibration</b>                       | Rated to withstand 10g per Mil-STD-204, Test Condition A.                                                                                                                                                                    |
| <b>Regulatory Compliance Summary</b>   | Interrupt Capacity: SAE J1625, ABYC-E11, UL1077*<br>Ignition Protected: SAE J1171<br>Endurance: SAE J1625<br>Dielectric Strength: UL1077*<br>Shock, Vibration, Corrosion, Humidity: Mil-STD-202<br>Dust and Waterproof: IP67 |

\*tested per UL1077 methods



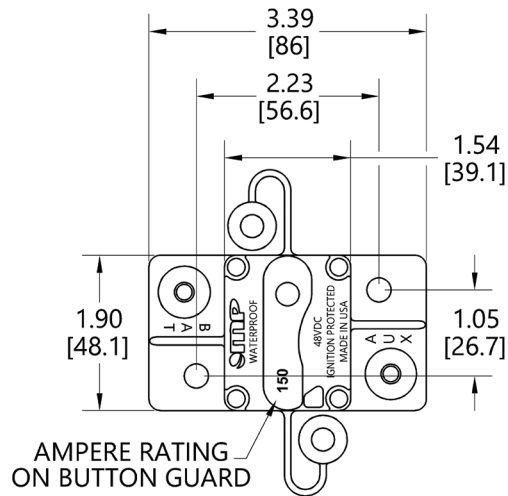
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Specifications subject to change

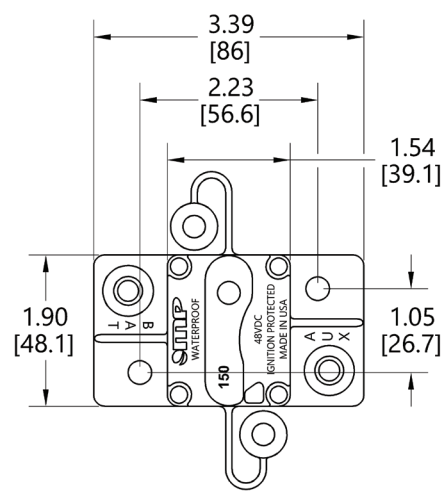
QC-4000-C

## Series 17 Physical Configuration

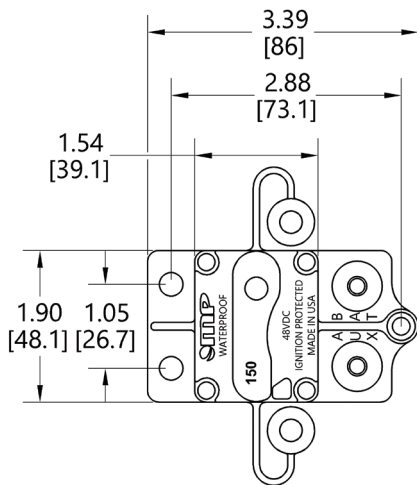
**S0 Standard Surface Mount  
1/4" -28 Stud Terminals**



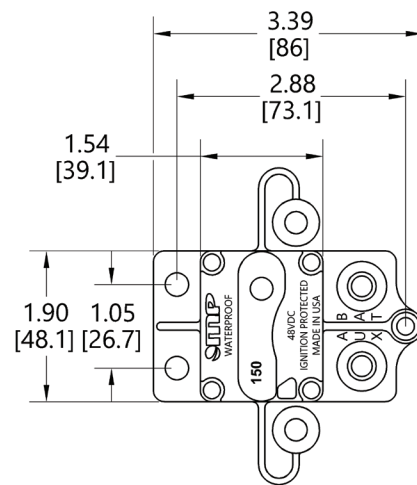
**S2 Standard Surface Mount  
3/8" -16 Stud Terminals**



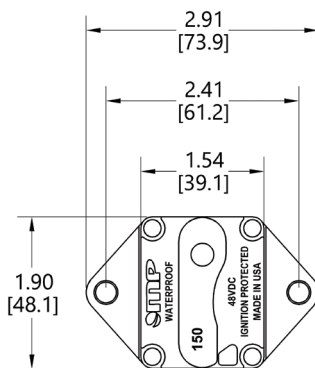
**S1 Easy Access Side by Side Surface Mount  
1/4" -28 Stud Terminals**



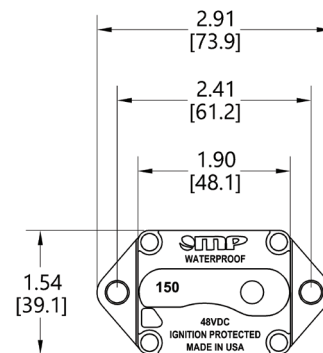
**S3 Easy Access Side by Side Surface Mount  
3/8" -16 Stud Terminals**

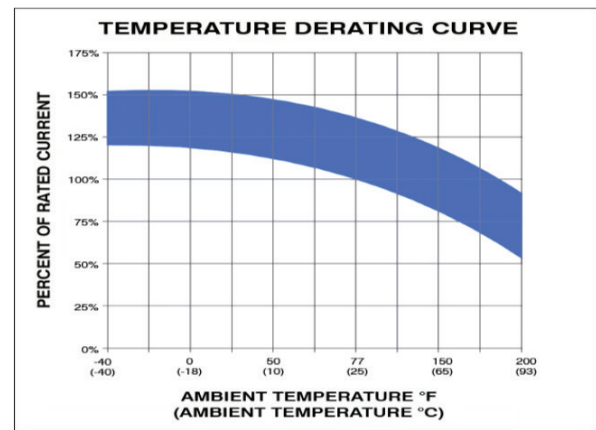
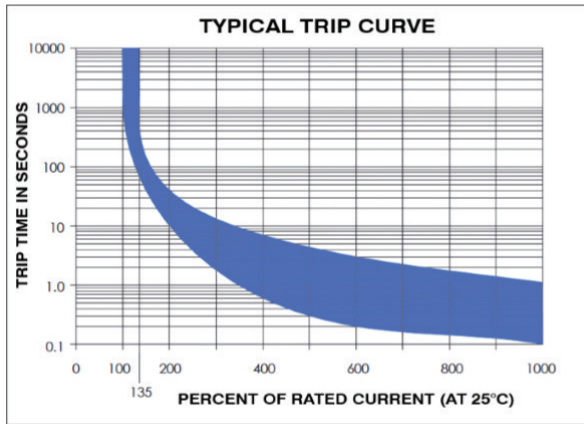


**P0 / P2 Standard Panel Mount  
1/4" -28 or 3/8" -16 Stud Terminals**



**P1 Easy Access 90° Panel Mount  
3/8" -16 Stud Terminals**





#### Typical Overload Trip Time Data (in seconds)

| Current Rating | 200%  | 400%    | 600%    | 800 %     | 1000%    |
|----------------|-------|---------|---------|-----------|----------|
| 25-300 Amps    | 10-40 | 0.6-7.0 | 0.2-3.0 | 0.15- 2.0 | 0.09-1.2 |

#### Typical Ambient Temperature Correction Factor

| Current Rating | °F | -40  | 0    | 50   | 77   | 150  | 200  |
|----------------|----|------|------|------|------|------|------|
|                | °C | -40  | -18  | 10   | 25   | 65   | 93   |
| 25-300 Amps    |    | 0.80 | 0.84 | 0.87 | 1.00 | 1.22 | 1.47 |

## Series 17 Typical High Amp Applications

Main or supplementary circuit protection in industrial/commercial vehicles:

- Agricultural
- Trucks
- Automotive Lifts
- Construction
- Buses
- Battery Chargers
- Marine
- Emergency Vehicles
- Recreational Vehicles

Protect:

- Wiring
- Motors
- Inverters
- Lighting
- Pumps
- Converters
- Components
- Alternators
- Generators
- Batteries
- Air Compressors
- and more

To visit the MP website:



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## Series 17 Part Numbering Guide up to 200A

**P/N:** 1 7   -     -       -    

### Series Number

17 = Series Circuit Protector

### Vehicle Protection

1 = Type I Auto Reset  
 4 = Type III Manual Reset  
 5 = Type III Manual Push To Trip Reset  
 6 = Type III Manual Push to Trip w/ red recessed button

### Special Options

Blank = None  
 L = 17LED-R Assembled  
 (S0, S1, S2 & S3 Models Only)

### Hardware

0 = No Hardware  
 1 = Stainless Steel Sems Nuts (Bulk)  
 2 = Stainless Steel Sems Nuts (Installed)

### Amp Rating

025 - 200 = 25 to 200A  
**\*\*225-300A see back page**

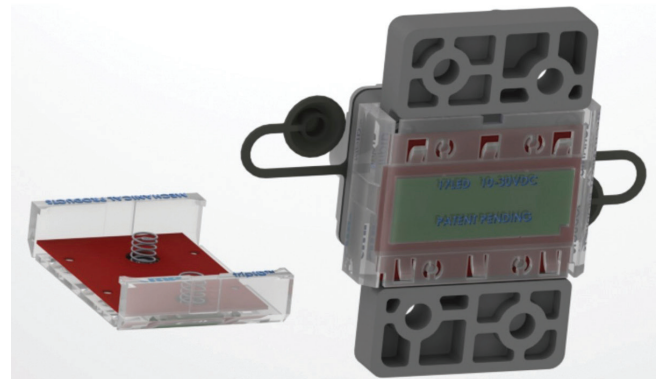
### Mounting Options / Configurations

#### Surface Mount

S0 = Standard Surface Mount with 1/4"-28 Stud Terminals  
 S1 = Side By Side Surface Mount with 1/4"-28 Stud Terminals  
 S2 = Standard Surface Mount with 3/8"-16 Stud Terminals  
 S3 = Side By Side Surface Mount with 3/8"-16 Stud Terminals

#### Panel Mount

P0 = Standard Panel Mount with 1/4"-28 Stud Terminals  
 P1 = 90° Panel Mount with 1/4"-28 Stud Terminals  
 P2 = Standard Panel Mount with 3/8"-16 Stud Terminals



MP P/N: 17LED-R

(Sold separately or assembled)

**TripID™** snaps on to rear of surface mount breaker.



WARNING: Cancer & Reproductive Harm  
[www.p65warnings.ca.gov/](http://www.p65warnings.ca.gov/)



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Specifications subject to change

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## Series 17 Part Numbering Guide 225-300A

**P/N:** 1 7   -   2 -       -    

### Series Number

17 = Series Circuit Protector

### Vehicle Protection

1 = Type I Auto Reset (225 - 300A)  
4 = Type III Manual Reset (225 - 250A)  
5 = Type III Panel Mount Manual Push To Trip Reset (225A Only)

**\*\*275A and 300A only available in Type I Auto Reset**

### Special Options

Blank = None  
L = 17LED-R Assembled  
(Surface Mount Models Only)

### Hardware

0 = No Hardware  
1 = Stainless Steel Sems Nuts (Bulk)  
2 = Stainless Steel Sems Nuts (Installed)

### Amp Rating

225, 250, 275, 300 = 225 to 300A only

### Mounting Options / Configurations

#### Surface Mount

S2 = Standard Surface Mount with 3/8"-16 Stud Terminals

#### Panel Mount

P2 = Standard Panel Mount with 3/8"-16 Stud Terminals



## Series 17 225 - 300A Features

Rated for applications using 12VDC systems (14Vdc max)

Auto Reset (Series 171-S2-xxx)

- Amperages: 225A, 250A, 275A, 300A
- Endurance: 500 cycles, 200% 14Vdc per SAE J1625
- Short Circuit: 2.5kA, 14Vdc per SAE J1625

Manual Reset (Series 174-S2-xxx)

- Amperages: 225A & 250A
- Endurance: 50 cycles, 200% 14Vdc per UL1077/SAE J1625
- Short Circuit: 1.5kA, 14Vdc per SAE J1625  
1.5kA, 14Vdc ABYC Main Rated

3/8" Stainless Steel terminal studs

3/8" Battery Lug for wire size of 4/0 minimum recommended



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