

High Amperage — 25 to 200 AMP  
Type I & III Vehicle Protection  
Waterproof/Ignition-Protected  
SAE & ABYC Compliant



Series 17

Raising the Bar  
MP—Count on it



## Series 17 Overview

The Series 17 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)
- **NEW** Easy Access Terminations for Surface and Panel Mount (S1, S3, P1,)

## Single Pole Thermal Circuit Breakers

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

## Series 17 Specifications

### Standard Amp Ratings

The Series 17 is available in ratings of 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 110, 120, 135, 150, **175 and 200** amps.

### Maximum Voltage Ratings

Type III: 48 VDC (25 - 150A); 30 VDC (175 - 200A)

Type I: 30 VDC (auto-reset)

### Ultimate Trip

Must Hold 100% at 25°C/77°F.

Must Trip at 135% within 1 hour.

### Dielectric Strength

1,500VAC Minimum

### Interrupt Capacity (25 - 150A), up to

2,500A @ 14VDC (Type III)

1,500A @ 48VDC (Type III)

3,000A @ 30VDC (Type I)

### Interrupt Capacity (175 - 200A)

2,500A @ 14VDC (Type III)

1,500A @ 30VDC (Type I and Type III)

### Endurance (25 - 150A)

14VDC @ 100 cycles, 6X rating (Type I & Type III)

28VDC @ 100 cycles, 2X rating (Type III)

30VDC @ 100 cycles, 2X rating (Type I)

48VDC @ 50 cycles, 1.5X rating (Type III)

### Endurance (175 - 200A)

14VDC @ 100 cycles, 6X rating (Type I, Type III 175A)

14VDC @ 50 cycles, 4X rating (Type III 200 A)

28VDC @ 50 cycles, 2X rating (Type III)

30VDC @ 100 cycles, 2X rating (Type I)

### Operating Temperature Range

-40°C/-40°F to 85°C/185°F

### Weight

Panel Mount: 3.1 oz. (88 gm.)

Surface Mount: 4.0 oz. (114 gm.)

## Environmental

### Ignition Protected

Compliant to SAE J1171

### Ingress Protection

IP67 dust and waterproof rated—protection against immersion up to 1 meter of water for 30 minutes.

### Corrosion

Conforms to Mil-STD-202, Method 101, Test Condition A, for 96 hours under a 5% salt spray.

### Humidity

Conforms to Mil-STD-202, Method 106, for 240 hours at 95% RH.

### Shock

Rated to withstand 100g per Mil-STD-202, Method 213, Test Condition A.

### Vibration

Rated to withstand 10g per Mil-STD-204, Test Condition A.

## Regulatory Compliance Summary

Interrupt Capacity: SAE J1625, ABYC-E11, UL1077\*

Ignition Protected: SAE J1171

Endurance: SAE J1625

Dielectric Strength: UL1077\*

Shock, Vibration, Corrosion, Humidity: Mil-STD-202

Dust and Waterproof: IP67

\*tested per UL1077 methods

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

Current Rating	200%	400%	600%	800 %	1000%
25-200 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
25-200 Amps		0.80	0.84	0.87	1.00	1.22	1.47

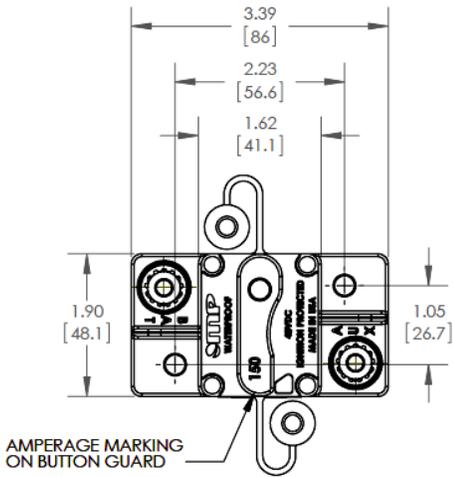
Specifications Subject To Change

**Mechanical  
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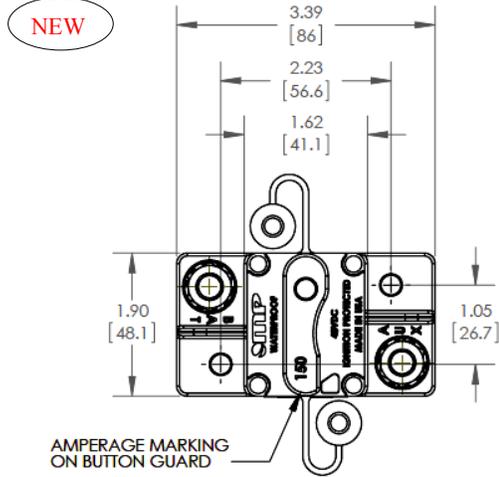
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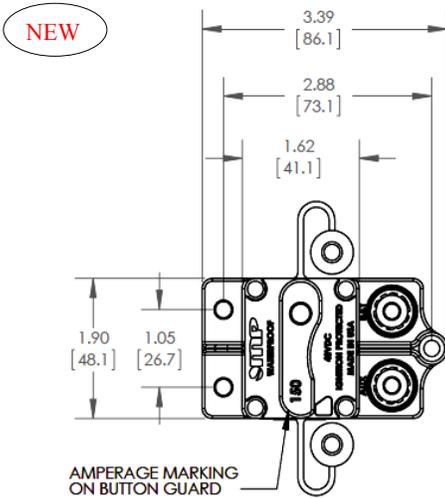
S0 Standard Surface Mount  
1/4" Diameter Stud Terminals



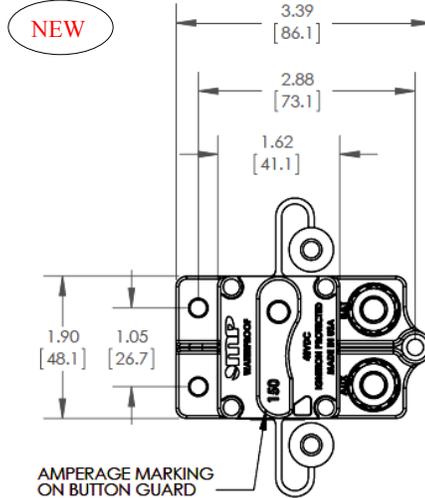
S2 NEW Surface Mount  
3/8" Diameter Stud Terminals



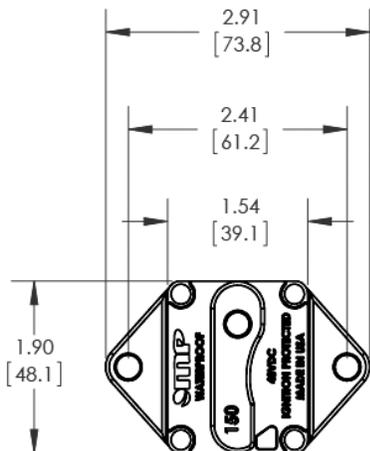
S1 Easy Access Side By Side Surface Mount  
1/4" Diameter Stud Terminals



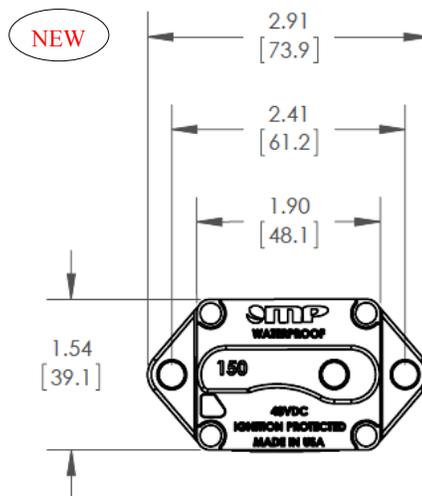
S3 Easy Access Side By Side Surface Mount  
3/8" Diameter Stud Terminals



P0 Standard Panel Mount  
1/4" Diameter Stud Terminals



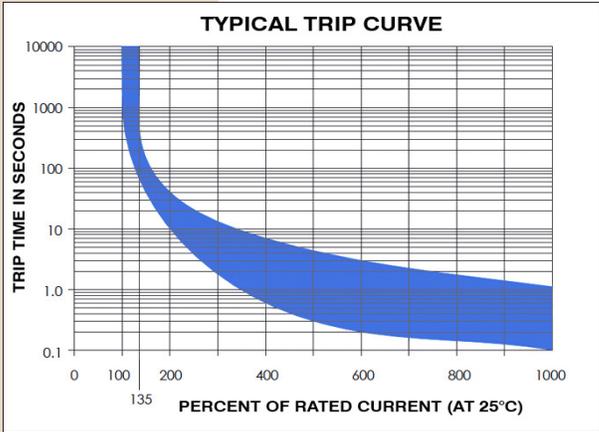
P1 Easy Access 90° Panel Mount  
1/4" Diameter Stud Terminals



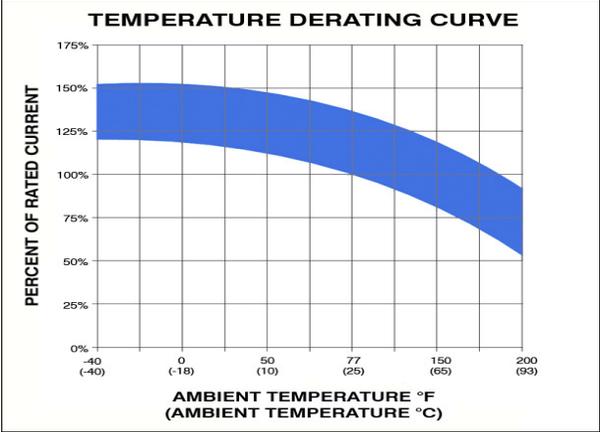
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## Series 17 Typical Trip Curve



## Series 17 Derating Curve

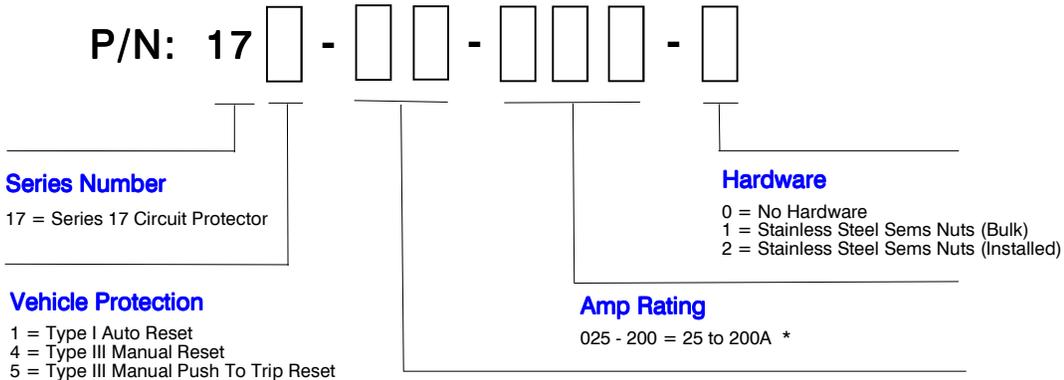


## Series 17 Typical High Amp Applications

- Heavy Trucks
- Motorhomes
- Marine
- Battery Chargers
- Wheelchair Lifts
- Buses
- Earth-moving Equipment
- Harsh Environments
- Engine Compartments
- Mining Equipment



## Series 17 Part Numbering Guide



### Mounting Options / Configurations

#### Surface Mount

- S0 = Standard Surface Mount with 1/4" Dia. Stud Terminals
- \* S1 = Side By Side Surface Mount with 1/4" Dia. Stud Terminals
- \* S2 = Standard Surface Mount with 3/8" Dia. Stud Terminals
- \* S3 = Side By Side Surface Mount with 3/8" Dia. Stud Terminals

#### Panel Mount

- P0 = Standard Panel Mount with 1/4" Dia. Stud Terminals
- \* P1 = 90° Panel Mount with 1/4" Dia. Stud Terminals

\*Consult Factory for authorized distributors for S1, S2, S3, P1 and 175 & 200 Amp Units.

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