

High Amperage 25 to 300 AMP

Type I & III Vehicle Protection

IP67 Waterproof

Ignition-Protected

SAE & ABYC Compliant

LED TripID™ Option



Series 17

Raising the Bar

MP—Count on it



Mechanical Products Company

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)
- 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 3/8" Stainless Steel Terminal Studs and Sems Nuts
- Waterproof
- Ignition-protected
- Improved Robust Design
- **225 - 300 Amp see last page**

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.

**225, 250, and 300 amps - See last page

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)

Interrupt Capacity (225 - 300A)

See last page

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)

Endurance (225 - 300A)

See last page

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

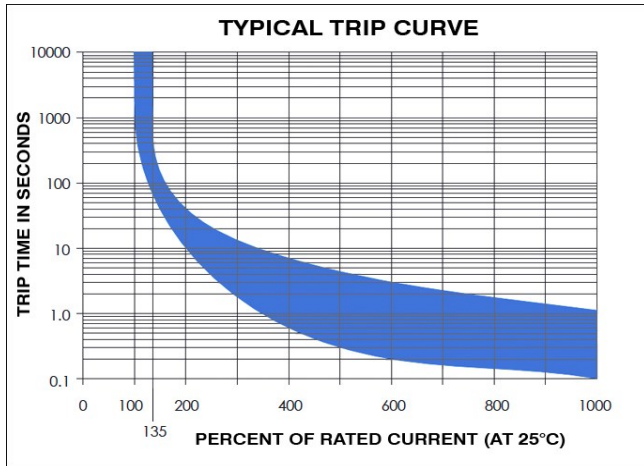
Endurance: SAE J1625

Dielectric Strength: UL1077*

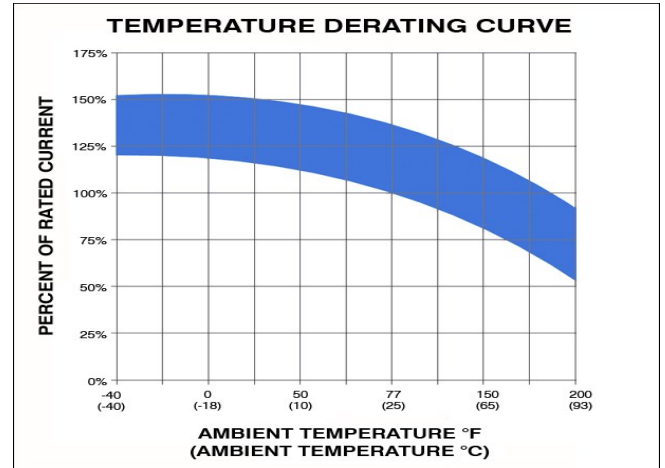
Shock, Vibration, Corrosion, Humidity: Mil-STD-202

Dust and Waterproof: IP67

Series 17 Typical Trip Curve



Series 17 Derating Curve



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

tested per UL1077 methods

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

Series 17 Typical High Amp Applications

Main or supplementary circuit protection in industrial/commercial vehicles:

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

Protect:

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

Specifications Subject To Change



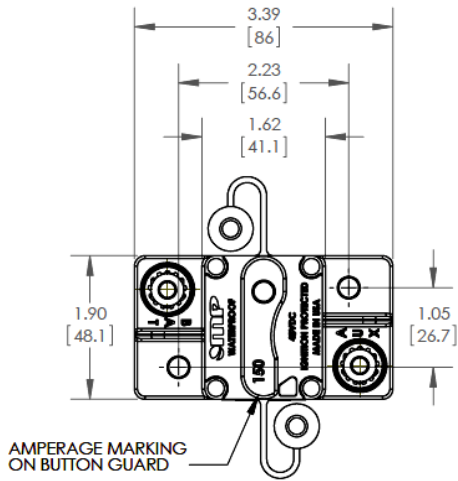
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Series 17 Physical Configuration

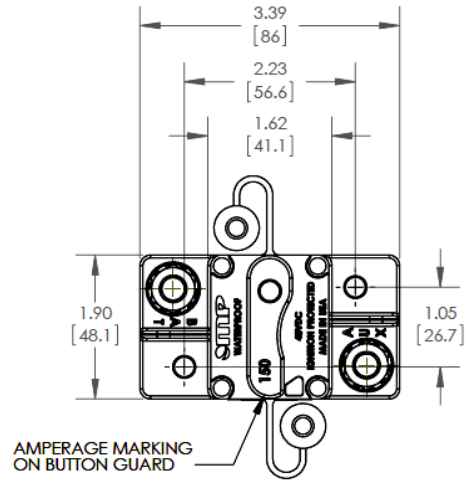
S0

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

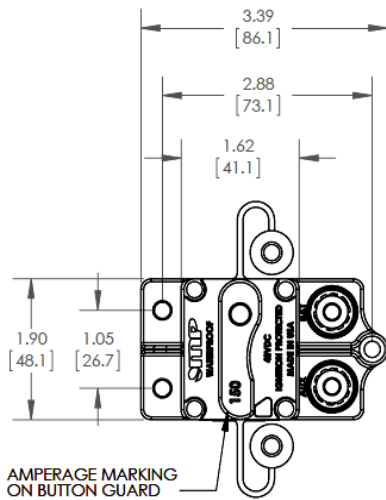


S2

**NEW Surface Mount
3/8"-16 Stud Terminals**

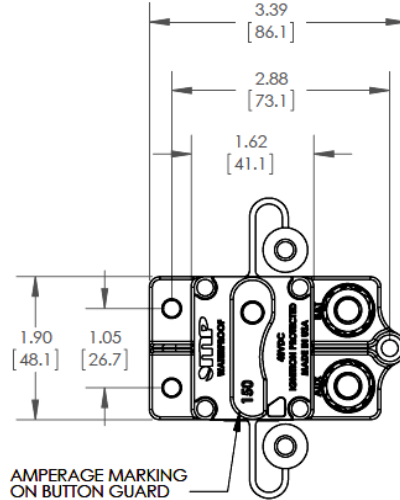


**S1 Easy Access Side By Side Surface Mount
1/4"-28 Stud Terminals**



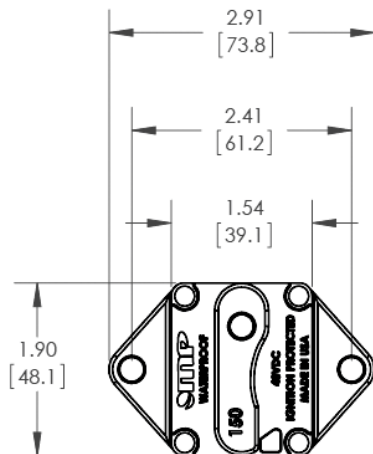
S3

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



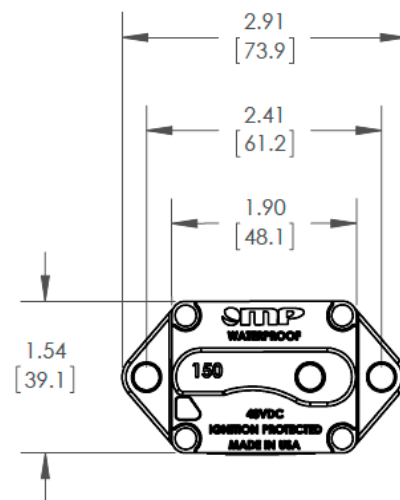
P0

**Standard Panel Mount
1/4"-28 Stud Terminals**



P1

**Easy Access 90° Panel Mount
1/4"-28 Stud Terminals**



All Dimensions: "in. [mm]"

Specifications Subject To Change



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Series 17 Part Numbering Guide

P/N: 17 [] - [] [] - [] [] [] - [] []

Series Number

17 = Series 17 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 last page**



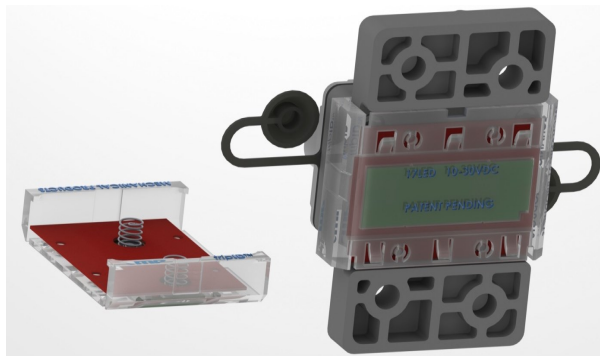
Mounting Options / Configurations

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



MP P/N: 17LED-R*
(Sold Separately or Assembled)

Rear Surface Mount Breaker
w/17LED-R Snap-On *tripID*™

⚠ WARNING: Cancer & Reproductive Harm – www.P65Warnings.Ca.Gov/

• For More Information visit www.mechprod.com/MP_Prop_65



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Specifications Subject To Change

Series 17 225 to 300 Amp ratings

- ◆ Higher amperage ratings NOT previously available in Hi Amp CB's
- ◆ For use in critical vehicle applications; up to 300A / 14VDC (max)
- ◆ Alternative replacement for high amp fuses - no more replacing fuses
- ◆ Alternative for circuit breakers used in parallel
 - Reduce footprint size and cost
 - Reduce nuisance trips and potential unbalanced loads
- ◆ Improved wire termination via 3/8" Stainless Steel Studs
- ◆ Shorter lead times and manufactured in the USA



Product 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



P/N: 17 - S - -

Series Number

17 = Series 17 Circuit Protector

Vehicle Protection

1 = Type I Auto Reset (225 - 300A)*
4 = Type III Manual Reset (225 - 250A)

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

Special Options

Blank = None
L = 17LED-R Assembled

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 Option / Configuration

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

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Specifications Subject To Change

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QC-4000-B

