

MADE 🖾 US



RAISING THE BAR MP - COUNT ON IT

ON

NOVATION AWARDS

BRANCH DISCONNECT CIRCUIT BREAKER

Disconnect & Protect to 32VDC

SAE & ABYC Compliant

Tested to UL1077, UL1107, UL1500

Ignition-Protected

IP67 Weatherproof

Harsh Environments

SUPERIOR CIRCUIT PROTECTION

MECHAMICAL ARODUCTS

PUSH

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The Series 53 Branch Disconnect / Circuit Breaker incorporates into a single device both traditional battery disconnect switching (non-engine) and circuit protection. This unique combination of features in a single rotary switch allows OEM cost savings by eliminating the added components, material and labor of a separate battery switch and circuit breaker/fuse. For the end user or maintenance personnel, the Series 53 provides a quick means to disconnect traditional downstream circuit(s) while preventing unintentional battery drain or allowing for disconnected battery power during storage and/or maintenance.

Series 53 Specifications

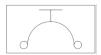
• Made in the USA

- Combined UL1107 & UL1077
- Ignition Protected
- IP66 & IP67
- CE Marked

This product is not rated for an engine starter circuit

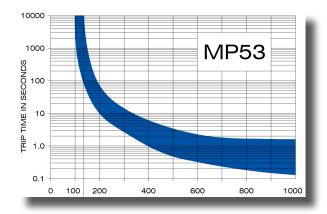
Standard Amp Ratings	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, and 70 Amp (Contact factory for additional amp ratings)					
Maximum Voltage Ratings	32VDC					
Min / Max Ultimate Trip	Must Hold 100% of rated current at 25°C/77°F Must Trip at 135% of rated current within 1 hour. Unique / specific higher ambient calibrations are available, consult factory					
Operating Temperature Range	-40°C (-40°F) to 85°C (185°F)					
Dielectric Strength	2000VAC minimum, UL1107*					
Interrupt Capacity	Per SAE J553 & UL1077* (U3) at 14 & 28VDC 1.5kA @ 14VDC per ABYC (SAE J553 & UL1077* U3) 3kA @ 14VDC					
Endurance (Overload)	Per SAE J553 [100 overload trip cycles at 400% of rated current at 28VDC]					
Endurance (Switching)	10-25A: 5000 switching cycles, 30-45A: 4000 switching cycles, 50-70A: 3000 switching cycles, at 100% of rated load, 28VDC, per requirements of UL1107					
Effective Current Limit	Per SAE J553					
Weight	90 gm					
	Environmental					
Ignition Protected	Tested to the requirements of ISO 8846, USCG, ABYC, UL1107, UL1500 and SAE J1171					
Ingress Protection	IP66 & IP67					
Corrosion	Conforms to MIL-STD-202, Method 101, Test Condition A (96 hrs)					
Humidity	Conforms to MIL-STD-202, Method 106 (240 hrs)					
Shock	Tested to the requirements of UL1107* at 100% rated current					
Vibration (sine)	Tested to the requirements of UL1107* at 100% rated current					
Vibration (Random)	MIL-STD-202, Method 214, Test Condition I, Letter D (12G), per SAE J1455 at 100%					
Regulatory Compliance Summary	Interrupt Capacity: SAE J553, ABYC E-11, UL1077* Ignition Protection: ISO 8846*, USCG, ABYC, UL1500* and SAE J1171 Endurance: SAE J553, UL1107* Dielectric Strength: UL1077*, UL1107* Shock, Vibration, Corrosion, Humidity: MIL-STD-202, UL1077*, UL1107* Ingress Protection: IEC 60529 EU Approvals: CE *tested per methods of standard					

Switch ON, Continuity- Breaker is active and circuit is active.Switch ON, NO Continuity- Breaker is tripped. Push the PUSH TO RESET button to reset breaker.Switch OFF, NO Continuity- Breaker out of circuit. Circuit is Off.





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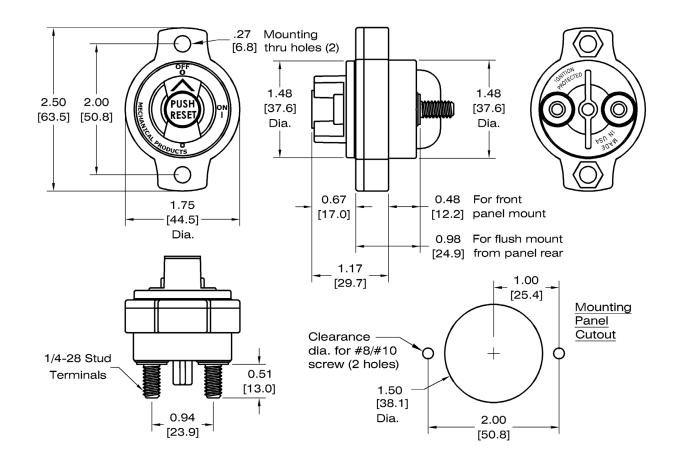
Typical Overload Trip Time Data (in seconds)

Current Rating	200%	400%	600%	800 %	1000%	
10-70 Amps	10-80	1-6	0.35-2	0.18-1.4	0.15-1.3	

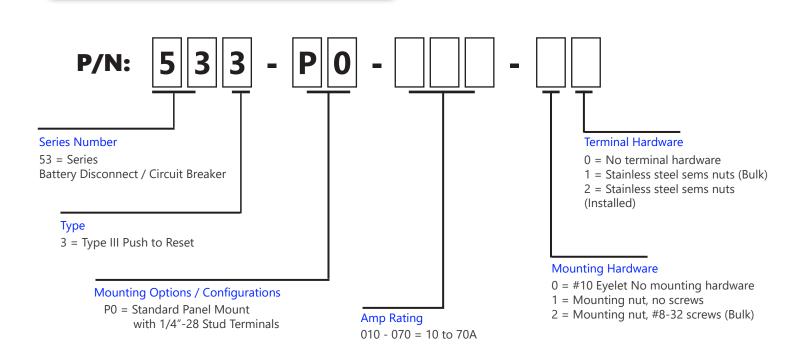
Typical Ambient Temperature Correction Factor

Current Rating	°F	-65	0	32	77	100	140
	°C	-54	-17	0	25	38	60
10-70 Amps		.83	.87	.93	1.00	1.11	1.25

Series 53 Physical Configuration







Branch circuit protection in industrial/commercial vehicles:

 Agricultural 	
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- Trucks
- Construction • Buses
- Marine
- Emergency Vehicles

Motors

• Pumps

- **Protect:**
- Wiring
- Lighting
- Components
- Batteries
- Alternators • Air Compressors

- Automotive Lifts
- Battery Chargers
- Recreational Vehicles
- Inverters
- Converters
- Generators
- and more





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WARNING: Cancer & Reproductive Harm www.p65warnings.ca.gov/