



SERIES 37

RAISING THE BAR
MP - COUNT ON IT

High Amperage 50 to 120 AMP

Type I Protection

Economical & Compact

Ignition-Protected

SAE J553



Designed Engineered



Assembled In the USA

SUPERIOR CIRCUIT PROTECTION

www.mechprod.com

Series 37 Overview

FEATURES:

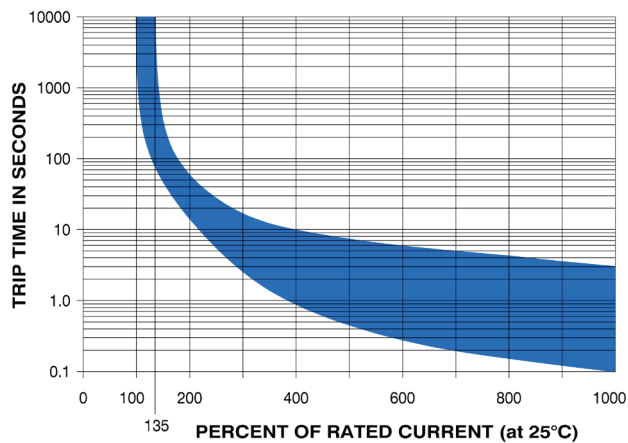
- 30 VDC maximum for 50 - 120 Amp
- Compact Type I Auto Rest High Amp circuit breaker
- Assembled in the USA
- Economical alternative to bolt down Type I auto reset fuses.



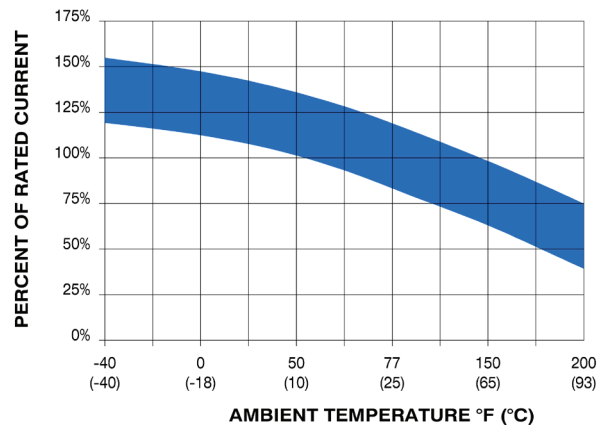
Series 37 Specifications

Standard Amp Ratings	50, 60, 70, 80, 90, 100, 110, and 120 Amps
Maximum Voltage Ratings	Type I: 30 VDC auto-reset (50 - 120A)
Ultimate Trip	Must Hold 100% at 25°C/77°F Must Trip at 135% within 1 hour.
Dielectric Strength	1,500VAC Minimum
Interrupt Capacity (50 - 120A)	2,100A @ 14VDC (Type I) 1,400A @ 30VDC (Type I)
Endurance (50 - 120A)	30VDC @ 4X rating (Type I) per SAE J553
Operating Temperature Range	-40°C/-40°F to 85°C/185°F
Weight	Surface Mount: 2.12 oz. (60 gm.)
Ignition Protected	Compliant to SAE J1171 and ISO 8846
Ingress Protection	IP44 - Meets the requirements of ISO 8846 / SAE J1171 for a sealed device (371-02 configuration ONLY)
Typical (auto) Reset Time	5-90 seconds at 25°C
Mounting Torque	36 IN-LBS [4.1 N.m] MAX
Terminal Torque	36 IN-LBS [4.1 N.m] MAX
Regulatory Compliance Summary	Interrupt & Endurance: SAE J553, SAE J1625 Environmental: SAE J553, SAE J1625 Ignition protected: Compliant to ISO 8846 and SAE J1171 Dielectric Strength: UL1077* *tested per UL1077 methods

TYPICAL TRIP CURVE



TEMPERATURE DERATING CURVE



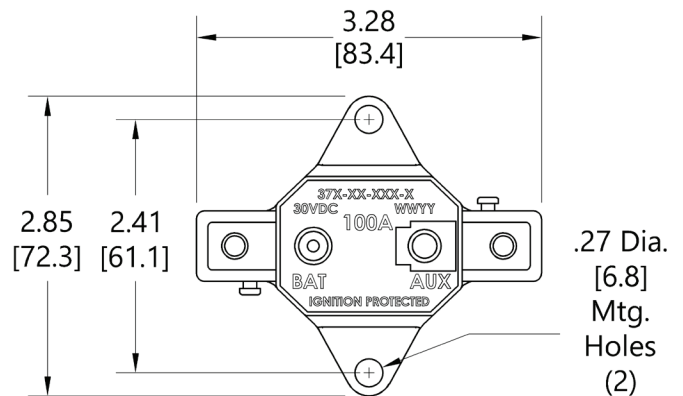
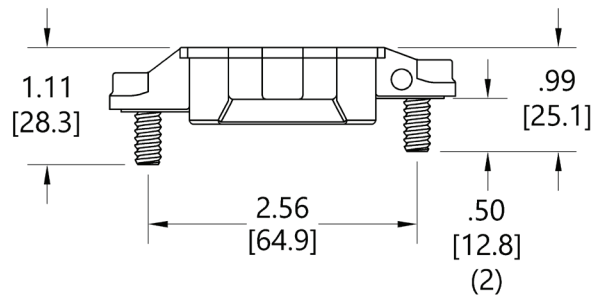
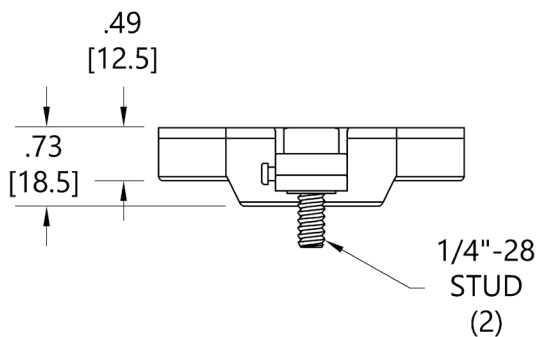
Typical Overload Trip Time Data (in seconds)

Current Rating	200%	400%	600%	800 %	1000%
50-120 Amps	15-55	0.9-10.0	0.27-5.8	0.16- 4.3	0.1-3.0

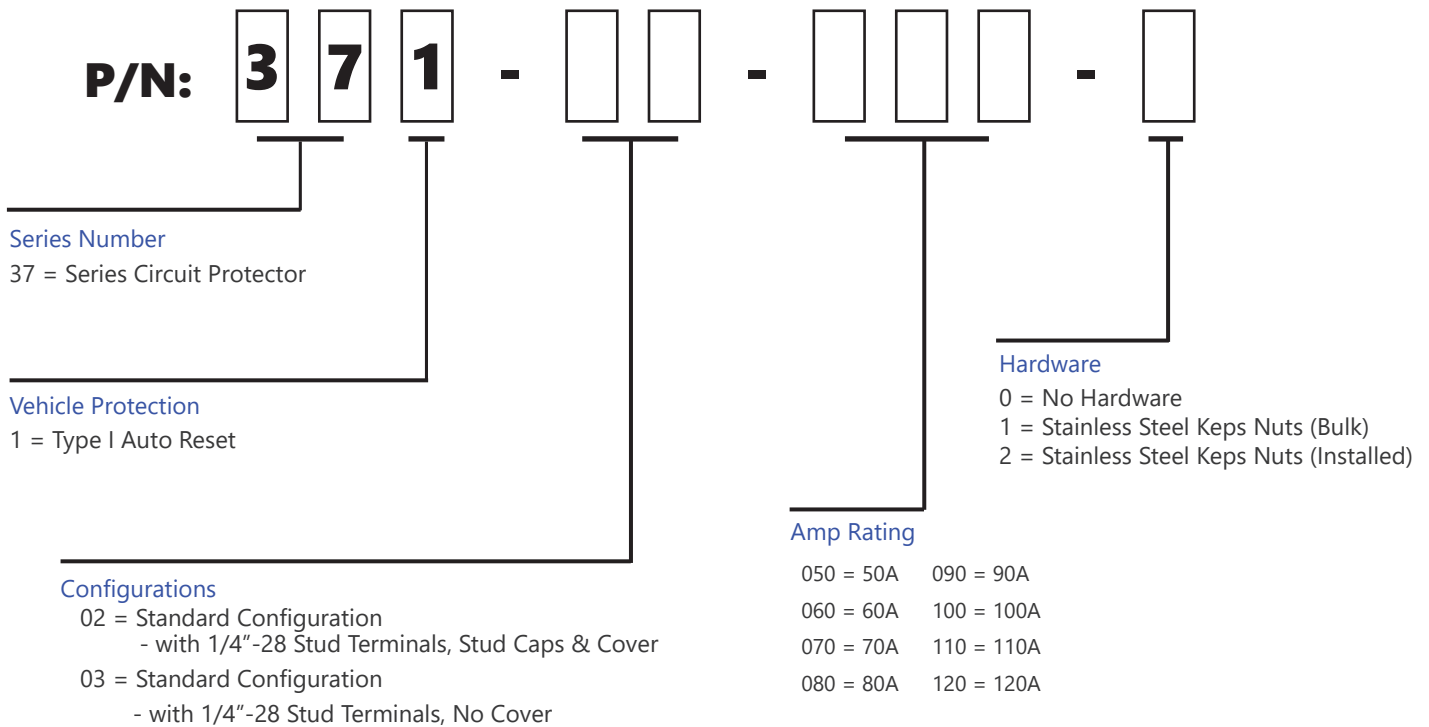
Typical Ambient Temperature Correction Factor

Current Rating	°F	-40	0	50	77	150	200
	°C	-40	-18	10	25	65	93
50-120 Amps		0.80	0.84	0.87	1.00	1.22	1.47

Series 37 Physical Configuration



Series 37 Part Numbering Guide



Series 37 Typical High Amp Applications

Economical alternative to Bolt Down Type I auto reset circuit breakers

Battery Chargers, Inverters, secondary or branch circuits in Utility trucks and Recreational vehicles.



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