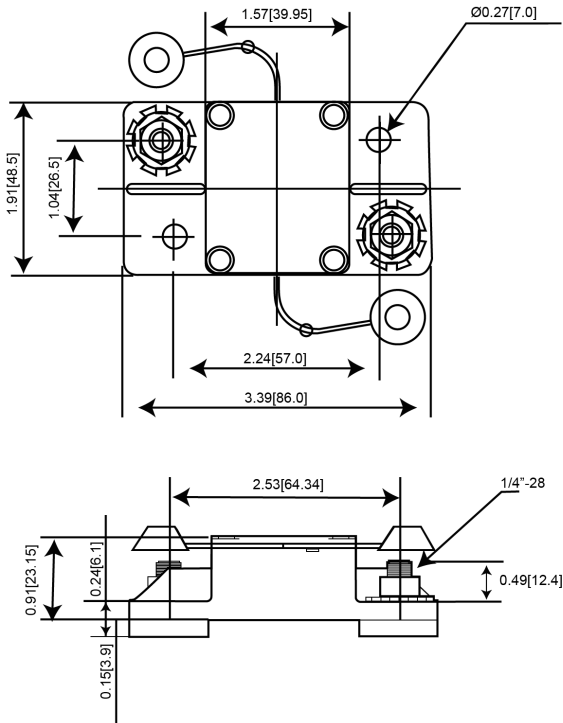


High Amperage Heavy Duty Circuit Breaker

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Mechanical Dimensions: Inches [mm]

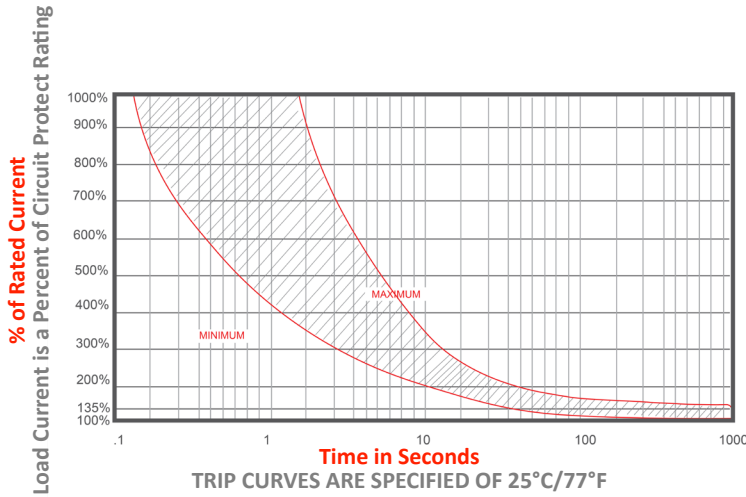


Unless Otherwise Specified All Dimensions Have a Tolerance of ±.008in (0.2mm)

Part Numbers Information

| Optifuse P/N | Current |
|--------------|---------|
| 251025 | 25A |
| 251030 | 30A |
| 251040 | 40A |
| 251050 | 50A |
| 251060 | 60A |
| 251070 | 70A |
| 251080 | 80A |
| 251090 | 90A |
| 251100 | 100A |
| 251120 | 120A |
| 251135 | 135A |
| 251140 | 140A |
| 251150 | 150A |
| 251175 | 175A |
| 251200 | 200A |

Time vs. Percent of Rated Current



| % of Rated Current | Min Hold Time | Max Hold Time |
|--------------------|-------------------------|---------------|
| 100% | No Trip (≥ 30 Minutes) | |
| 135% | 50s | 30m |
| 200% | 12s | 45s |
| 300% | 3.5s | 15s |

Trip time: Ambient temperature 25°C ± 3°C

Electrical Specifications

| | |
|------------------------------|--|
| Voltage Rating | 42VDC; 48VDC |
| Reset Type | Type I - Auto Reset |
| Interrupting Rating | 3000A @ 30VDC (ABYC E-11); 1500A @ 48VDC; 3000A @ 44VDC |
| Operation Temperature | -25 °F ~ 180 °F -32 °C ~ 82 °C |
| Testing | SAE J553, ABYC-E11 |

Material Specifications

| | |
|--|-----------------------------|
| Heavy Duty High Amp - Waterproof Circuit Breaker | |
| Body Material | Thermoset Plastic (UL94V-0) |
| Terminals Material | Nickel Plated |
| Terminals Configuration | 1/4"-28 Stud |
| Mounting Type | Surface Mount |
| Studs Torque | 10.3 N.m max. |
| Mounting Torque | ~13.6 N-m MAX |
| Ignition Protected | SAE J1171 |
| Ingress Protection | IP67 |

High Amperage Heavy Duty Circuit Breaker

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| Rev | Date of issue | Revision Notes | Designed | Approved |
|-----|---------------|---|----------|----------|
| G | 10-14-2025 | Updated Voltage Rating; Updated Interrupting Rating | RC | OF |