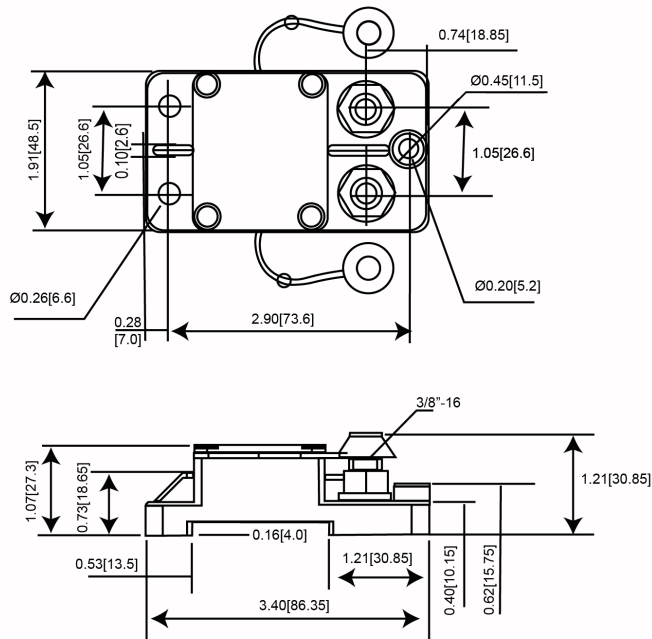


# High Amperage Heavy Duty Circuit Breaker

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## Mechanical Dimensions: Inches [mm]

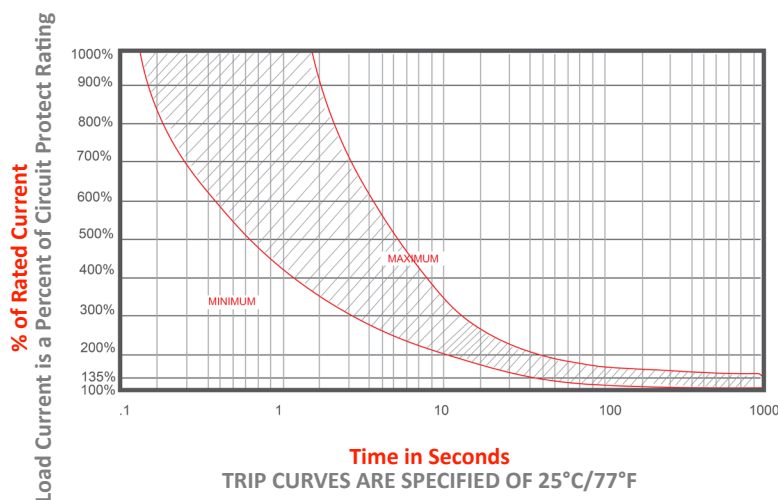


Unless Otherwise Specified All Dimensions Have a Tolerance of  $\pm 0.008$ in (0.2mm)

## Part Numbers Information

| Optifuse P/N | Current |
|--------------|---------|
| 551025       | 25A     |
| 551030       | 30A     |
| 551040       | 40A     |
| 551050       | 50A     |
| 551060       | 60A     |
| 551070       | 70A     |
| 551080       | 80A     |
| 551090       | 90A     |
| 551100       | 100A    |
| 551120       | 120A    |
| 551135       | 135A    |
| 551140       | 140A    |
| 551150       | 150A    |
| 551175       | 175A    |
| 551200       | 200A    |
| 551250       | 250A    |
| 551300       | 300A    |

## Time vs. Percent of Rated Current



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

Trip time: Ambient temperature 25°C  $\pm$  3°C

## Electrical Specifications

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Voltage Rating        | 42VDC (25A-200A),<br>14VDC (250A-300A)                             |
| Reset Type            | Type I - Auto Reset                                                |
| Interrupting Rating   | 3000A @ 30VDC (25A-150A),<br>1500A @ 30VDC (175A-300A) (ABYC E-11) |
| Operation Temperature | -25 °F ~ 180 °F   -32 °C ~ 82 °C                                   |
| Testing               | SAE J1625, ABYC-E11                                                |

## Material Specifications

|                                                          |                             |
|----------------------------------------------------------|-----------------------------|
| In-Line Heavy Duty High Amp - Waterproof Circuit Breaker |                             |
| Body Material                                            | Thermoset Plastic (UL94V-0) |
| Terminals Material                                       | Nickel Plated               |
| Terminals Configuration                                  | 3/8"-16 Stud                |
| Mounting Type                                            | Surface Mount               |
| Studs Torque                                             | 30.5 N.m max.               |
| Mounting Torque                                          | ~24 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 |
|-----|---------------|-----------------|----------|----------|
| E   | 12-04-2023    | updated testing | RC       | OF       |