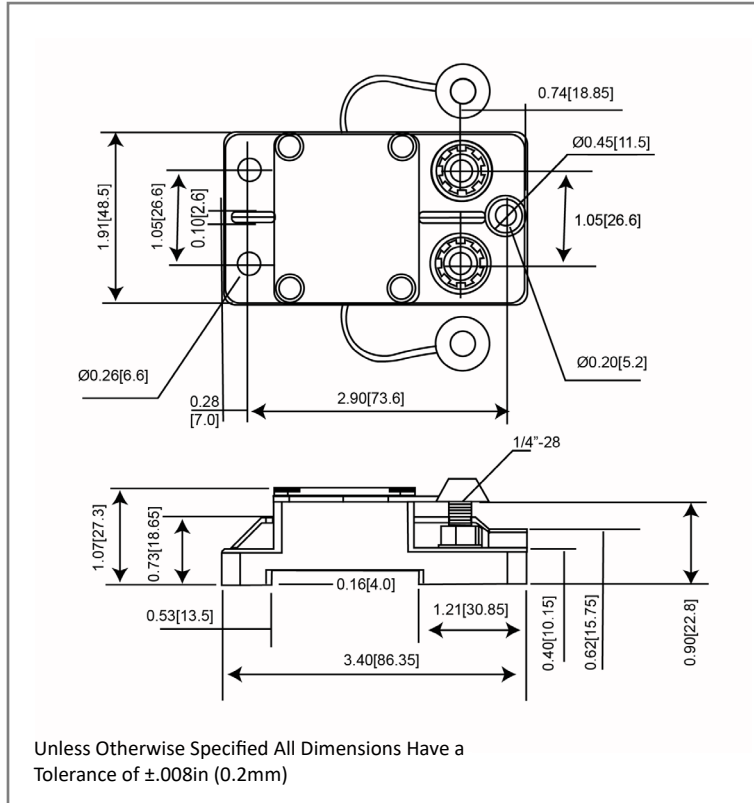


# High Amperage Heavy Duty Circuit Breaker

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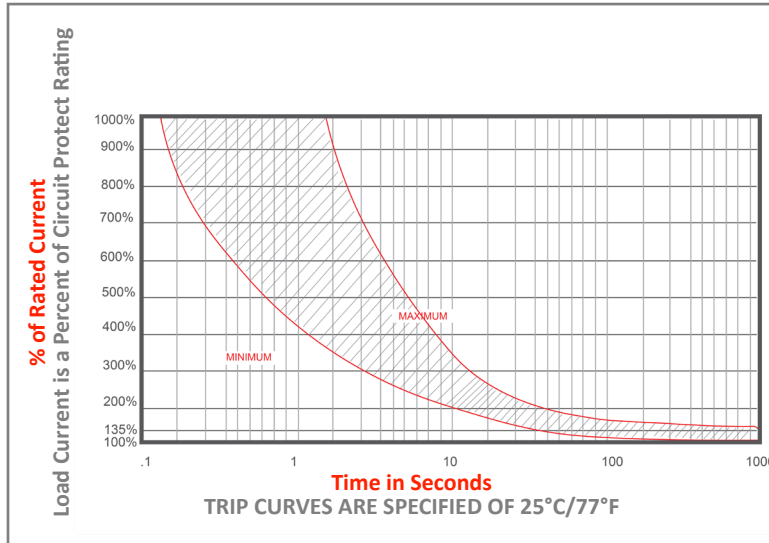
## Mechanical Dimensions: Inches [mm]



## Part Numbers Information

Optifuse P/N	Current
451025	25A
451030	30A
451040	40A
451050	50A
451060	60A
451070	70A
451080	80A
451090	90A
451100	100A
451120	120A
451135	135A
451140	140A
451150	150A
451175	175A
451200	200A
451250	250A

## 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

\*Trip time information is only for models up to 200A. For information regarding 250A model please contact the factory.

## Electrical Specifications

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

## Material Specifications

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

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**Rev**    **Date of issue**    **Revision Notes**

**Designed**    **Approved**

Rev	Date of issue	Revision Notes	Designed	Approved
H	10-14-2025	Updated Voltage Rating, Updated Interrupting Rating	RC	OF