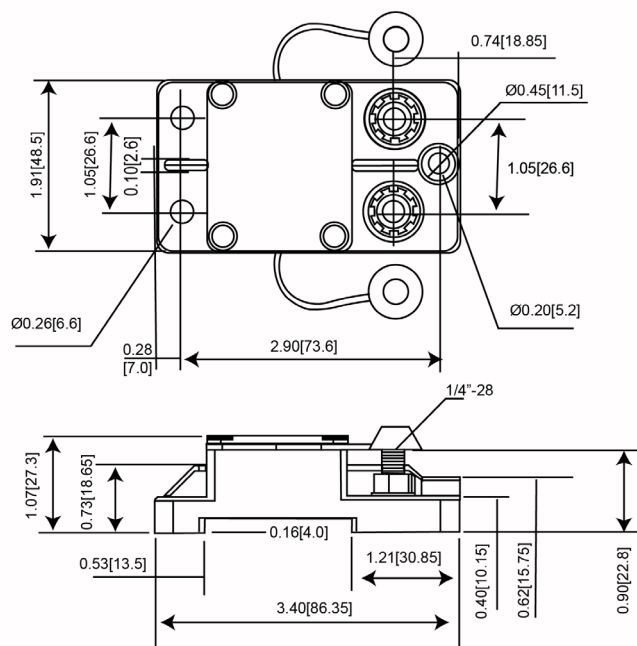


High Amperage Heavy Duty Circuit Breaker

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Mechanical Dimensions: Inches [mm]

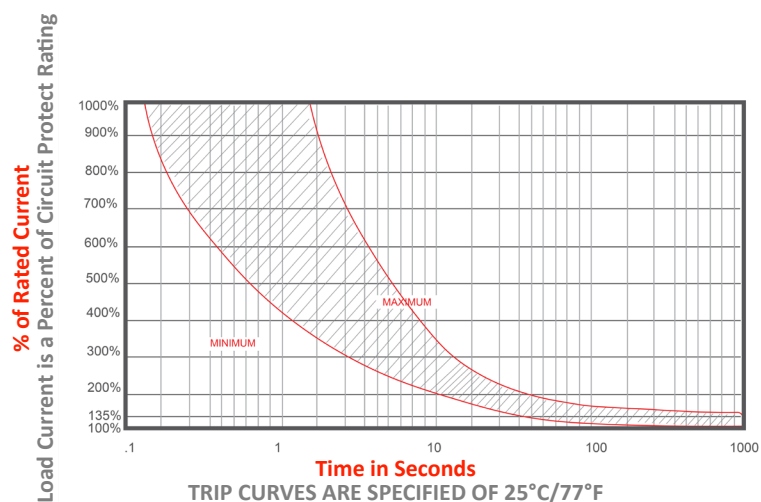


Unless Otherwise Specified All Dimensions Have a Tolerance of ± 0.008 in (0.2mm)

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 (≥ 30 Minutes)	
135%	50s	30m
200%	12s	45s
300%	3.5s	15s

Trip time: Ambient temperature $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$

Electrical Specifications

Voltage Rating	42VDC (25A-200A), 14VDC (250A)
Reset Type	Type I - Auto Reset
Interrupting Rating	3000A @ 30VDC (25A-150A), 1500A @ 30VDC (175A-250A) (ABYC E-11)
Operation Temperature	$-25^{\circ}\text{F} \sim 180^{\circ}\text{F}$ $-32^{\circ}\text{C} \sim 82^{\circ}\text{C}$
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	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

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Rev	Date of issue	Revision Notes	Designed	Approved
E	12-04-2023	updated testing	RC	OF