

High Voltage 30EV1K fuse

Rated 1000 V DC

RoHS



Description

The 30EV1K fuse is designed for protection of high-voltage circuits in electric and hybrid electric vehicles.

Features & Benefits

- Interrupting Rating of 30 kA @ 1000 Vdc
- Voltage Rating of 1000 Vdc
- Operates from -40 °C to +125 °C
- Typical weight of 135 g
- Mounting Torque of 12 ±1 Nm (ISO prescription)
- Melamine body with UL 94 flammability ratings of V-0
- End caps in zinc alloy
- Terminal in copper alloy
- Refers to ISO 8820-8

Applications

Use to protect circuits in EV and Hybrid passenger vehicles.

Ratings

Part Number	Current Rating (A)	Typ. Voltage Drop at 100% I _r (mV)	Test Cable Size (mm ²)	Typical Cold Resistance (mΩ)	Typical Melting I ² t (A ² s)
30EV1K150.ZXBDM*	150	315	20	0.79	60 000
30EV1K175.ZXBDM*	175	223	20	0.62	103 000
30EV1K200.ZXBDM*	200	209	30	0.50	135 000
30EV1K225.ZXBDM*	225	204	40	0.42	164 000

The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

(*) Products in development - Final values for voltage drop, resistance, melting I²t and T/C curves will be generated from PV tests data. Please contact Littelfuse® for more details regarding availability timing.

Ordering Information

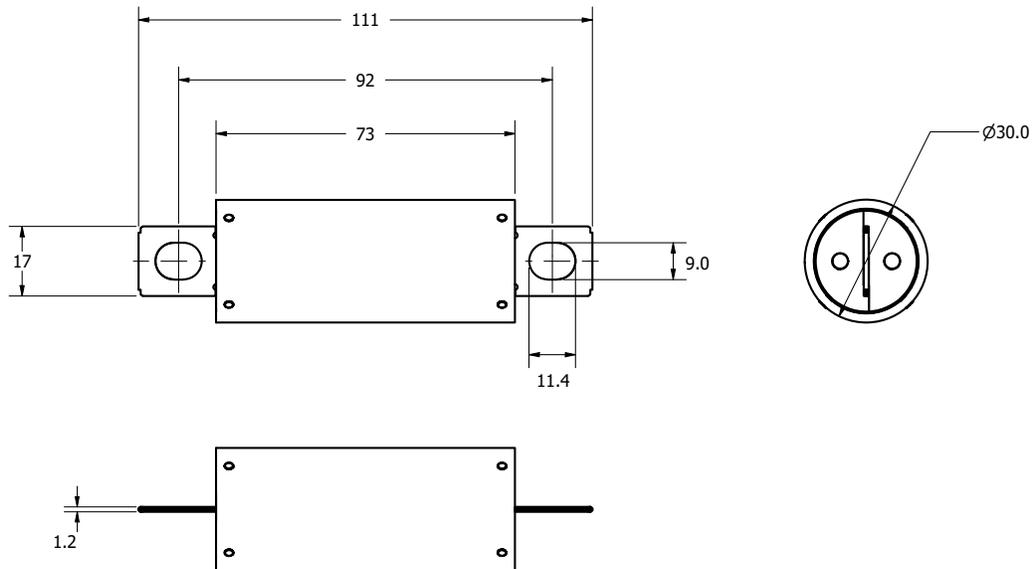
Part Number	Rating	Termination	Package Size
30EV1Kxxx.ZXBDM	150 A - 225 A	M8 Bolt Down	50

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Dimensions

Dimensions in mm. Please refer to the outline drawing for dimensions, tolerances and markings.

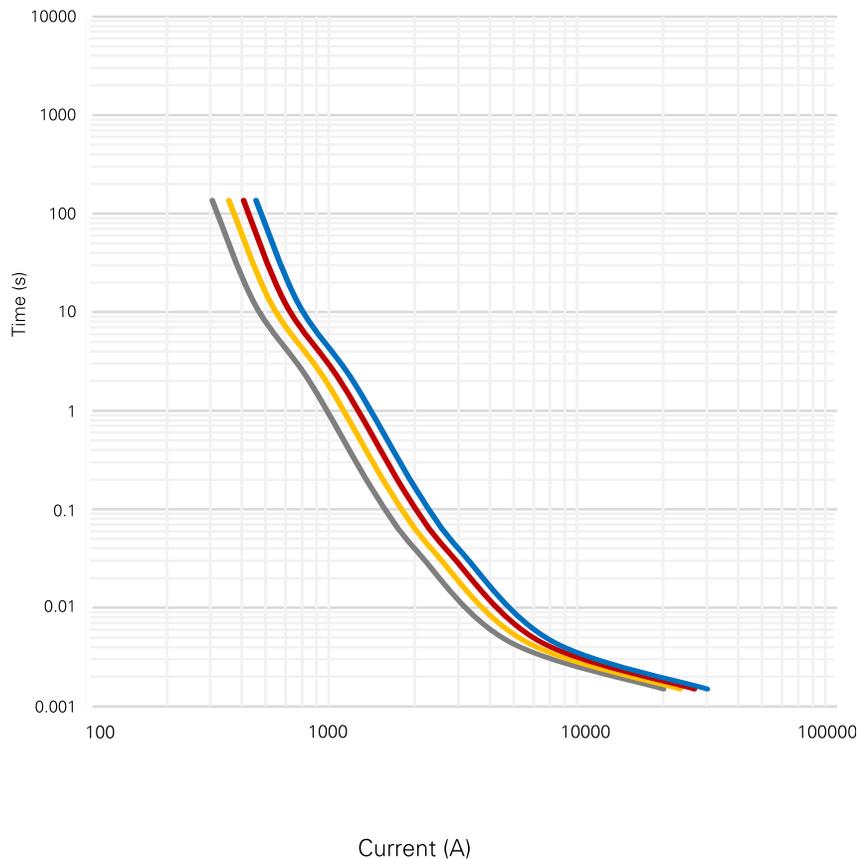


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Time-Current Characteristic

Please contact Littelfuse® for Details Regarding Test Set Up

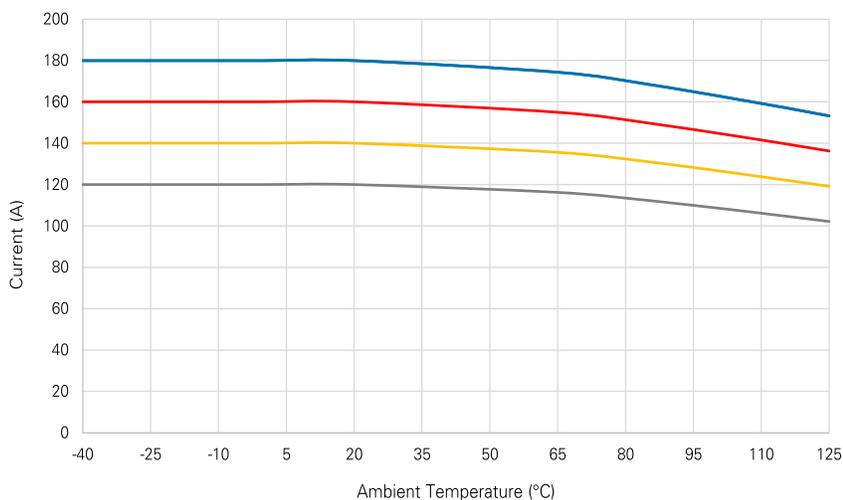


% of Rating	Opening Time Min. / Max. (s)
200	1 / 300
300	0.2 / 30
500	0.05 / 1

- 150 A
- 175 A
- 200 A
- 225 A

Typical Rerating Curves

Please contact Littelfuse® for Details Regarding Rerating Test Set Up



	Max. Allowed Current Load (A) at Ambient Temperature based on Typical Rerating						
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C
150 A	120	120	120	116	112	105	102
175 A	140	140	140	136	131	122	119
200 A	160	160	160	155	150	141	136
225 A	180	180	180	174	168	160	153

Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc...). Please contact Littelfuse® for more information.

- 150 A
- 175 A
- 200 A
- 225 A