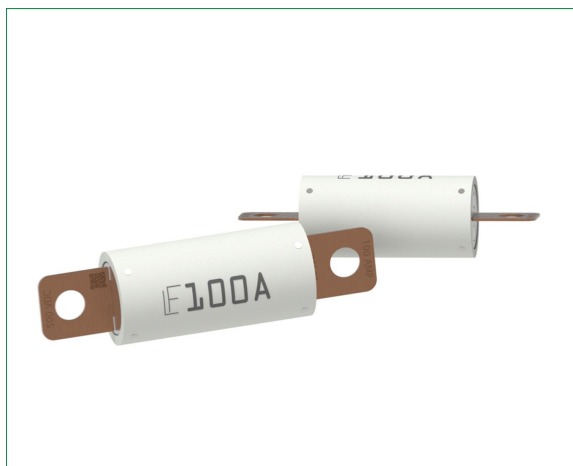


# High Voltage 20EV fuse

## Rated 500 V DC

RoHS



### Description

Bolt down 20EV automotive fuses can be installed in most EVs and hybrid passenger vehicles for circuit protection.

### Features & Benefits

- Interrupting Rating of 20 kA @ 500 Vdc
- Voltage Rating of 500 Vdc
- Operates from -40 °C to +125 °C
- Typical weight of 35 g
- Mounting Torque M6 of 6 ±1 Nm (ISO prescription) 10 Nm (Max. allowed)
- 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 the 20EV high voltage fuses to protect circuits in EV and Hybrid passenger vehicles.

### Ratings

Part Number	Current Rating (A)	Typ. Voltage Drop (mV)	Max. Voltage Drop Spec at 100% IR (mV)	Test Cable Size (mm <sup>2</sup> )	Typical Cold Resistance (mΩ)	Typical Melting I <sup>2</sup> t (A <sup>2</sup> s)
20EV060.ZXBDMC*	60	137	250	5	1.78	7600
20EV070.ZXBDMC*	70	142	250	10	1.5	11 100
20EV080.ZXBDMC*	80	145	250	10	1.35	23 150
20EV100.ZXBDMC*	100	132	250	20	0.90	24 400
20EV125.ZXBDMC*	125	160	200	20	0.73	34 000

The typical I<sup>2</sup>t 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 I<sup>2</sup>t and T/C curves will be generated from PV tests data. Please contact Littelfuse® for more details regarding availability timing.

### Ordering Information

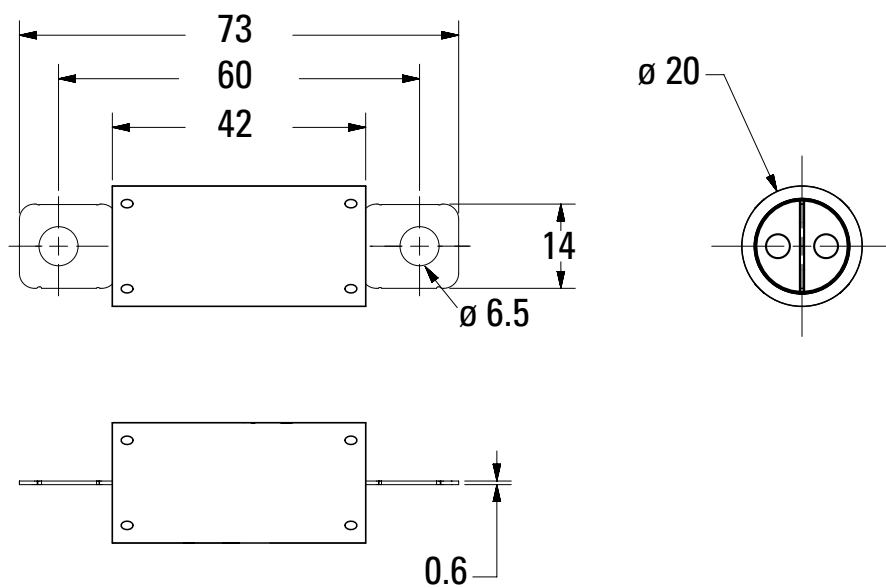
Part Number	Termination	Package Size
20EVxxx.ZXBDMC	M6 Bolt Down	320

# High Voltage 20EV fuse

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## Dimensions

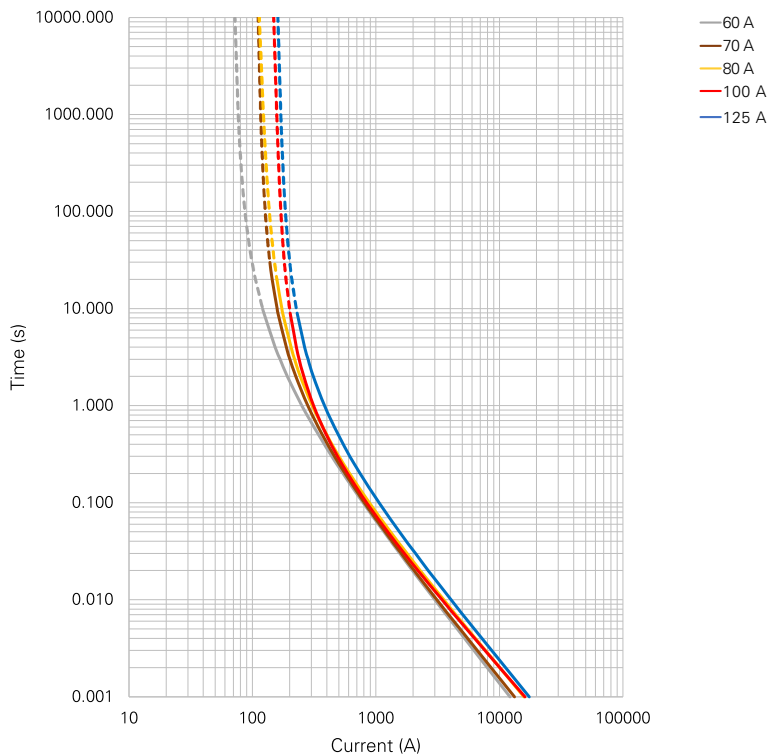
Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.



# High Voltage 20EV fuse

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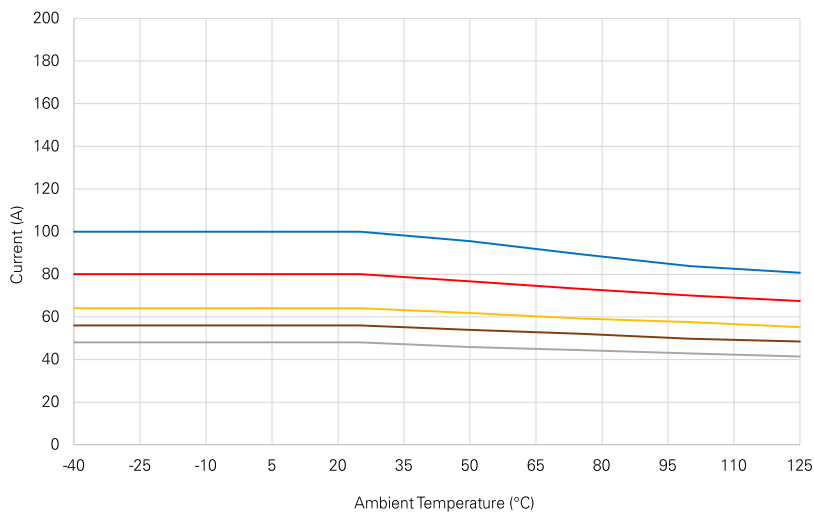
### Time-Current Characteristic



% of Rating	Opening Time Min. / Max. (s)
110	14 400 / -
200	1.0 / 300
300	0.2 / 30
500	0.05 / 1.0

### Typical Derating Curves

Please contact Littelfuse® for Details Regarding Derating Test Set Up



	Max. Allowed Current Load (A) at Ambient Temperature (Typical Derating)						
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C
<b>60A</b>	48	48	48	45	44	42	41
<b>70A</b>	56	56	56	53	51	49	48
<b>80A</b>	64	64	64	61	58	57	56
<b>100A</b>	80	80	80	75	72	69	67
<b>125A</b>	100	100	100	94	90	86	84

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

- 60 A
- 70 A
- 80 A
- 100 A
- 125 A