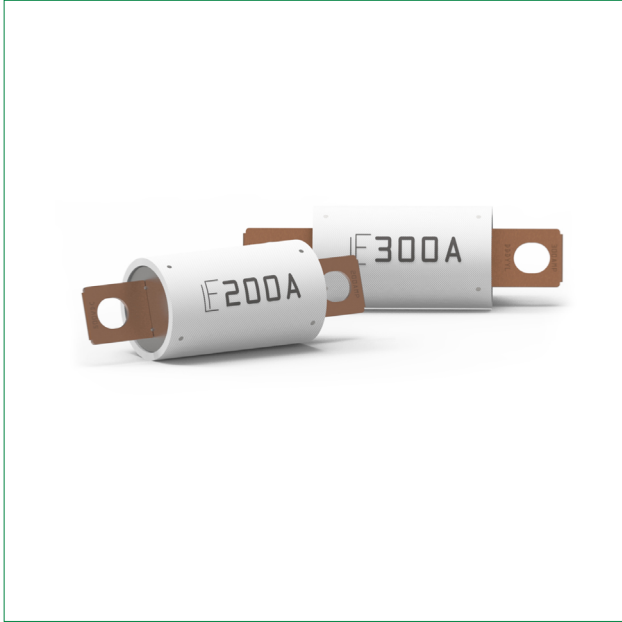


# 30EV Series

## High Voltage Fuses – Rated 500 V DC

RoHS



### Description

Bolt-down 30EV fuses designed for circuit protection in high-voltage, high-current automotive systems. These fuses make particularly good choices for ensuring overcurrent protection to branch circuits in EVs and hybrid passenger vehicles.

### Features & Benefits

- High-contrast ampere marking on bodies aid identification
- M8 and M6 versions available
- Industry-standard footprints
- Refers to ISO 8820-8

### Applications

- EVs
- Hybrid passenger vehicles

[See Disclaimer Notice](#)

### Additional Information



Resources



Samples

### Specifications

<b>Voltage Rating:</b>	500 V DC
<b>Interrupting Rating:</b>	30 kA @ 500 V DC
<b>Recommended Environmental Temperature:</b>	-40 °C to +125 °C
<b>Terminals Material:</b>	Copper / Copper Alloy
<b>Housing Material:</b>	Melamine (U.L. 94 Flammability rating – V0)
<b>End caps Material:</b>	Zinc Alloy
<b>Recommended Mounting Torque M8:</b>	12 ±1 Nm
<b>Recommended Mounting Torque M6:</b>	6 ±1 Nm (Max. allowed 10 Nm)
<b>Net Weight per Fuse:</b>	100 g ±10% g
<b>Refers To:</b>	ISO 8820-8

### Ordering Information

Part Number	Current Rating (A)	Termination	Package Size
30EVxxx.ZXBDM	150 A - 300 A	M8 Bolt Down	72
30EVxxx.ZXBDM-M6	150 A - 300 A	M6 Bolt Down	72

# 30EV Series

## High Voltage Fuses – Rated 500 V DC

### Ratings

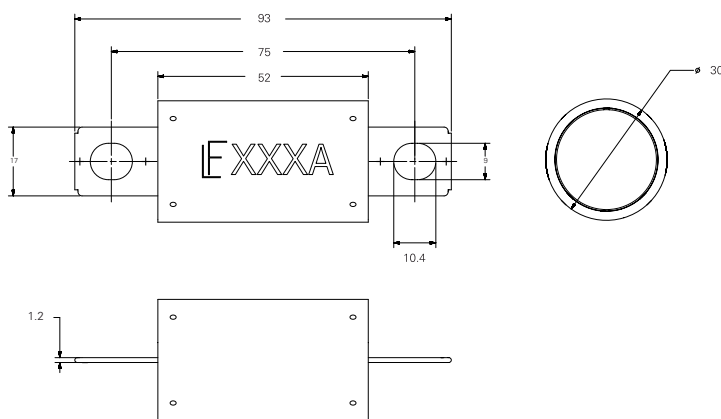
Part Number	Current Rating (A)	Test Cable Size (mm <sup>2</sup> )	Typ. Voltage Drop (mV)	Max. Voltage Drop Spec at 100% IR (mV)	Typ. Cold Resistance (mΩ)	Typical Melting I <sup>2</sup> t (A <sup>2</sup> s)
30EV150.ZXBDM	150	20	160	180	0.54	15 000
30EV175.ZXBDM	175	20	160	180	0.46	22 000
30EV200.ZXBDM	200	30	160	180	0.41	32 000
30EV225.ZXBDM	225	40	160	180	0.36	41 000
30EV250.ZXBDM	250	40	160	180	0.32	52 000
30EV300.ZXBDM	300	50	160	180	0.27	101 000

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.

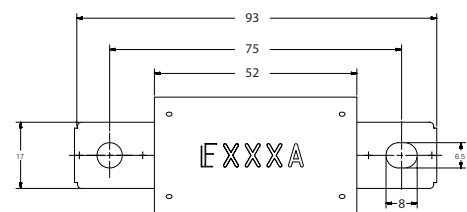
### Dimensions

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

#### M8 Version



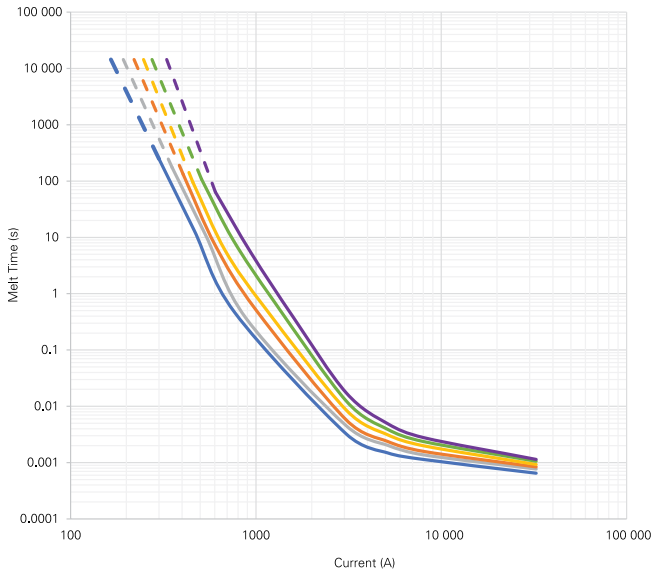
#### M6 Version



# 30EV Series

## High Voltage Fuses – Rated 500 V DC

### Time-Current Characteristic



% of Rating	Opening Time Min. / Max. (s)
110	14 400 / -
200	1 / 300
300	0.2 / 30
500	0.05 / 1

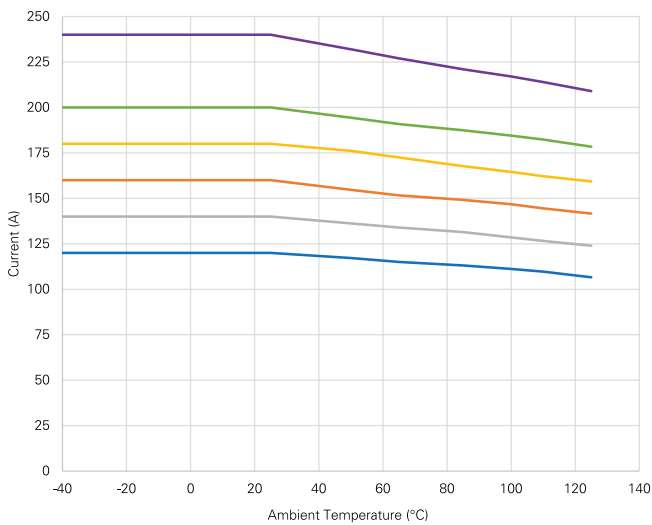
- 150 A
- 175 A
- 200 A
- 225 A
- 250 A
- 300 A

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

### Typical Derating Curves

Temperature security margin is 20%.

Please contact Littelfuse® for Details Regarding Derating Test Set Up.



	Max. allowed current load (A) at ambient temperature based on typical derating						
	-40 °C	0 °C	25 °C	65 °C	85 °C	110 °C	125 °C
<b>150 A</b>	120	120	120	115	113	110	107
<b>175 A</b>	140	140	140	134	132	127	124
<b>200 A</b>	160	160	160	152	149	145	142
<b>225 A</b>	180	180	180	173	168	162	159
<b>250 A</b>	200	200	200	191	188	182	178
<b>300 A</b>	240	240	240	227	221	214	209

- 150 A
- 175 A
- 200 A
- 225 A
- 250 A
- 300 A

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

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