



High Current 20EV Fuses

## High Current 20EV Fuse

The HC EV fuse is designed for protection of high-current / high-voltage circuits in electric and hybrid electric vehicles.

### Specifications

Interrupting Rating:	16kA @ 500VDC
Voltage Rating:	500VDC
Operating Temperature Range:	-40°C to +125°C
Net Weight Per Fuse:	35±5 gr
Material:	Body: Melamine (U.L. 94 Flammability rating – V0) Retaining Pins: Stainless Steel Endbells: Zinc Alloy Terminals: Copper Alloy
Mounting Torque:	5-7 Nm M6 (ISO prescription) 10 Nm M6 (Max allowed)
Refers To:	ISO 8820-8 JASO D622

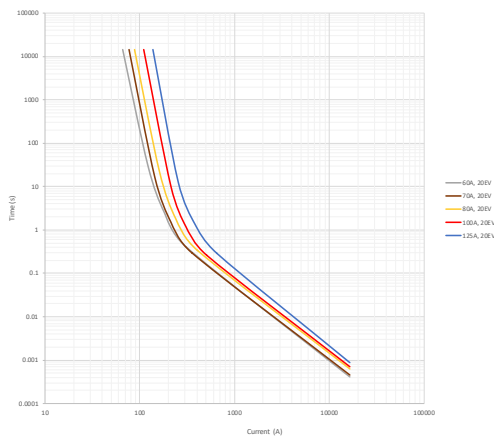
### Ordering Information

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

### Time-Current Characteristics

% of Rating	Opening Time Min / Max (s)
110	4 hrs / ∞
200	1.0 / 300
300	0.2 / 30
500	0.05 / 1.0

### Time-Current Characteristic Curves



### Ratings

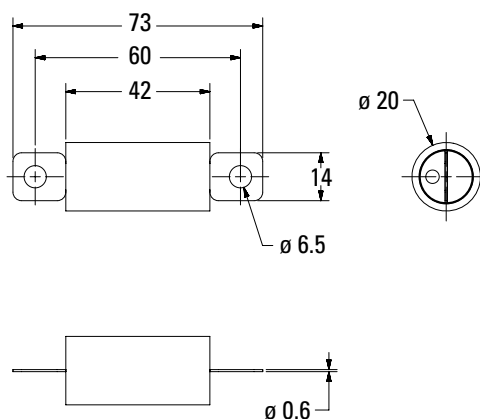
Part Number	Current Rating (A)	Typ. Voltage Drop (mV)	Max. Voltage Drop Spec at 100% IR (mV)	Cold Resistance (mΩ)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> s)
20EV060.ZXBDM	60 (*)	137	200	1.70	6539
20EV070.ZXBDM	70 (*)	142	200	1.43	8459
20EV080.ZXBDM	80 (*)	145	200	1.25	17836
20EV100.ZXBDM	100 (*)	132	200	0.83	22215
20EV125.ZXBDM	125 (*)	160	200	0.69	33856

(Average Initial Measurements)

(\*) Products in development - please contact Littelfuse® for more details regarding availability timing. Final values for voltage drop, resistance, melting I<sup>2</sup>t and T/C curves will be generated from PV tests data.

### Dimensions

Dimensions in mm



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