

High Current 20EV Fuse

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



High Current 20EV Fuses

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

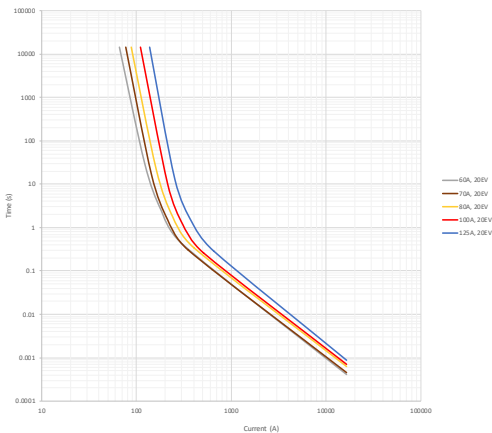
Ordering Information

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)	Test Cable Size (mm ²)	Typical Cold Resistance (mΩ)	Typical Melting I ² t (A ² s)
20EV060.ZXBDM	60	137	200	5	1.70	6539
20EV070.ZXBDM	70	142	200	10	1.43	8459
20EV080.ZXBDM	80	145	200	10	1.25	17836
20EV100.ZXBDM	100	132	200	20	0.83	22215
20EV125.ZXBDM	125	160	200	20	0.69	33856

(Average Initial Measurements)

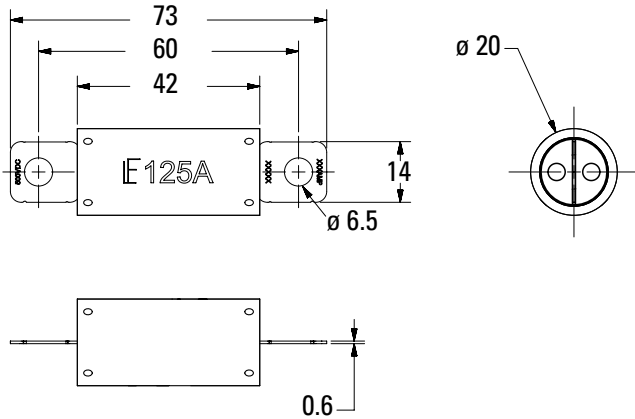
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Dimensions

Dimensions in mm



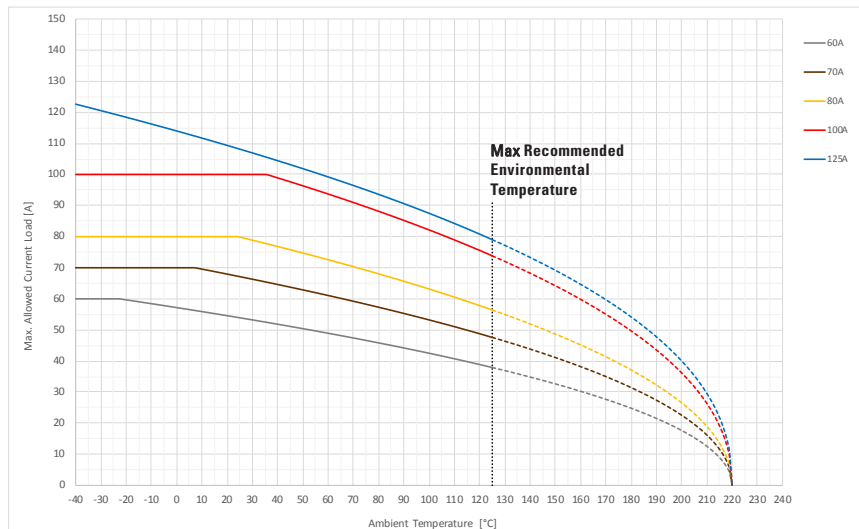
Temperature Table

	max. allowed current load [A] at ambient temperature (typical derating)						
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C
60A	60	57	55	48	45	41	38
70A	70	70	68	60	56	51	48
80A	80	80	80	72	67	61	56
100A	100	100	100	92	87	79	74
125A	123	114	109	98	92	84	79

Typical Derating Of Fuse Melting Element

Temperature Security Margin is 20%

Please Contact Littelfuse® For Details Regarding Derating Test Set Up



Derating curves may change depending on the final condition of the application (terminals characteristics, wire size exc...). Please ask Littelfuse for more information.

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