High Current Fuses

Littelfuse
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BF2 Fuses

BF2 Fuses Rated 32V

This BF2 fuse is rated at 32V and offers a bolt-on fuse for high current wiring protection. Current rating 100A - 500A; with transparent housing material for easy detection of blown fuses.

Specifications

Voltage Rating:	32 VDC
Interrupting Ratings:	100A - 300A: 2000A @ 32 VDC 400A - 500A: 1500A @ 32 VDC
Recommended Environmental Temperature:	-40˚C to + 125˚C
Terminals Material:	Tin plated copper alloy
Housing Material:	PET-GF33 (U.L. 94 Flammability rating – V0)
Clear Housing Material:	PES (U.L. 94 Flammability rating – V0)
Mounting Torque M8:	12.0 Nm +/- 1Nm
Mounting Torque M6:	6.0 Nm +/- 1Nm
Refers to:	ISO 8820-5:2015, UL 248 Special Purpose

c US RoHS

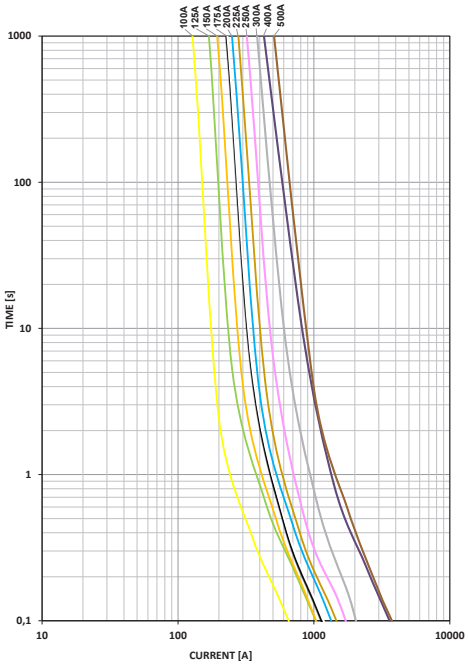
Ordering Information

Part Number	Rating	Package Size
Standard M8 Holes		
153.5395.xxxx	100 - 500	200
M6 Holes		
153.7011.xxxx	100 - 500	200

Time Current Characteristics

% of Rating	Opening Time Min / Max (s)	
	100A - 250A	300A - 500A
75	– / –	14,400 / ∞
100	14,400 / ∞	– / –
135	120 / 1,800	– / –
200	1 / 15	1 / 15
350	0.3 / 5	0.5 / 5
600	0.1 / 1	0.1 / 1

Time-Current Characteristic Curves



Ratings

Part Number	Current Rating (A)	Housing Color	Test Cable Size (mm²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I²t (A²s)
153.xxxx.6102	100		16	102	0.70	46,800
153.xxxx.6122	125		25	81	0.52	118,100
153.xxxx.6152	150		25	77	0.42	113,400
153.xxxx.6172	175		25	104	0.36	154,400
153.xxxx.6202	200		35	102	0.34	288,000
153.xxxx.6222	225		35	107	0.29	236,000
153.xxxx.6252	250		50	86	0.25	292,500
153.xxxx.6302[1]	300		70	68	0.21	486,000
153.xxxx.6402[1]	400		70	70	0.13	964,000
153.xxxx.6502[1]	500		70	60	0.12	1,449,000

Note 1: Short Circuit Protector only

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

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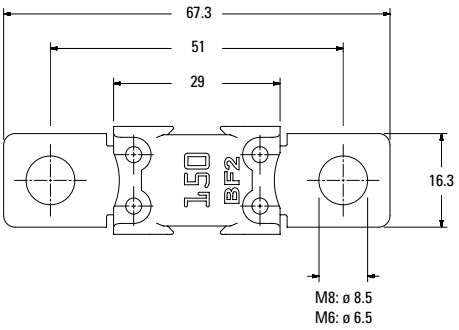
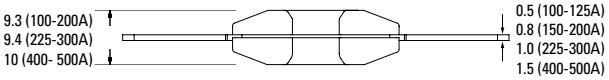
Dimensions

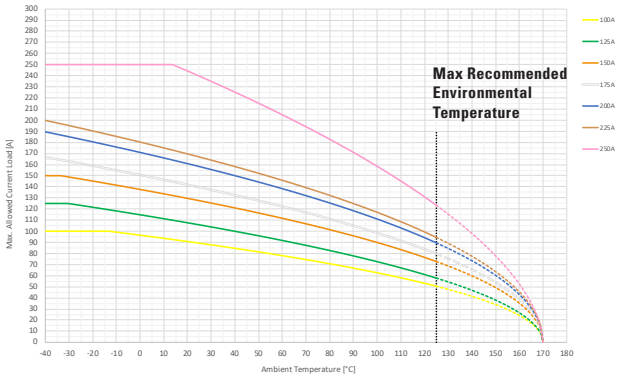
Dimensions in mm for reference only. See outline drawing for dimensions and tolerances

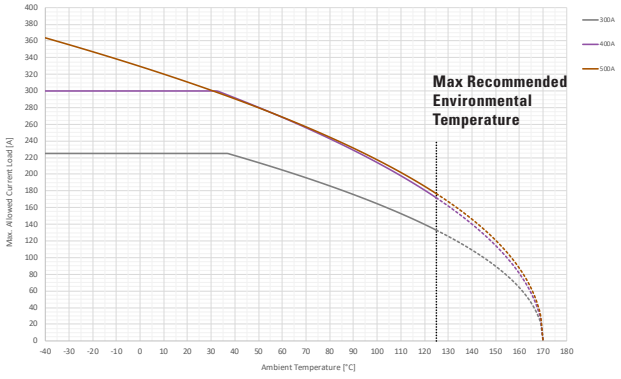




Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%
Please contact Littelfuse® for Details Regarding Derating Test Set-Up.





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
100A	100	96	91	76	69	58	50
125A	125	115	108	90	80	67	58
150A	150	138	130	109	99	83	73
175A	167	151	142	120	108	92	80
200A	189	171	161	135	122	103	90
225A	200	180	170	143	129	109	94
250A	250	250	244	200	177	145	123
300A	225	225	225	201	181	153	133
400A	300	300	300	262	236	198	172
500A	364	329	311	263	238	202	177

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

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