## High Current Fuses



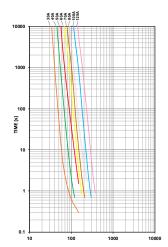


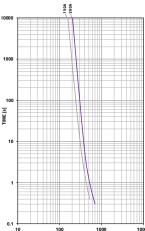
**BF1 Fuses** 



One Hole BF1 Fuses

### Time-Current Characteristic Curves





## REV07272021

## BF1 Fuse Rated 32V

This BF1 fuse is rated at 32V and offers a bolt-on fuse for high current wiring protection. Current rating 23A - 200A; with transparent housing material for easy detection of blown fuses. One-Hole BF1 fuses have a current rating 60-125A.

### **Specifications**

Voltage Rating: 32 VDC

 Interrupting Rating:
 30A:
 1000A @32 VDC

 40A - 150A:
 2000A @32 VDC

200A: 1500A @32 VDC Recommended Environmental Temperature: -40° 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 M5: 4.5 Nm + /- 1 NmMounting Torque M6: 6.0 Nm + /- 1 Nm

Refers to: ISO 8820-5:2015, UL 248 Special Purpose Fuses





## **Ordering Information**

Part Number	Ratings	Package Size	Bolt Size	Bolt Hole Oty
153.5631.xxx2	30A-200A	1000	M5	2
153.5631.xxx1	30A-200A	10	M5	2
153.7010.xxx2	30A-150A	1000	M6	2
153.7000.xxx2	150-200A	500	M6	2
153.0010.xxx2	60A-125A	1000	M6	1
153.0020.xxx2	30A-200A	500		0

### Time-Current Characteristics

% of	Opening Time Min / Max (s)				
Rating	30-125A	150-200A			
75	-/-	360,000 / ∞			
100	360,000 / ∞	-/-			
110	14,400 / ∞	-/-			
150	90 / 3,600	-/-			
200	3 / 100	1 / 15			
300	0.3 / 3	-/-			
350	-/-	0.3 / 5			
500	0.1 / 1	-/-			
600	-/-	0.1 / 1			

### Ratings

	J -						
	Part Number	Current Rating (A)	Housing Material Color	Test Cable Size (mm²)	Typ. Voltage Drop (mV)	Typ.Cold Resistance (mΩ)	Typ. I <sup>2</sup> t (A <sup>2</sup> s)
	153.xxxx.530_	30		2.5	105	2.70	5,100
	153.xxxx.540_	40		4	90	1.56	6,800
	153.xxxx.550_	50		6	80	1.03	6,900
	153.xxxx.560_	60		6	75	0.75	16,200
	153.xxxx.570_	70		10	70	0.64	22,000
	153.xxxx.580_	80		10	70	0.55	25,600
	153.xxxx.610_	100		16	70	0.44	42,500
	153.xxxx.612_	125		25	70	0.34	62,500
	153.xxxx.615_1	150		25	70	0.29	83,400
	153.xxxx.6203	200		35	70	0.24	126,000

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.

Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse held to the liable for any purpose on the expressly set forth in applicable Littelfuse for any purpose on the expressly intended by Littelfuse for any purpose on the expressly documentation. The sale and use of Littelfuse for Desired Fording for any purpose on the expressly intended by Littelfuse for the in applicable Littelfuse for the expressly intended by Littelfuse for the intended for any purpose in product and the expression of the product sused for any purpose in purpose on the expression of the product sused in application in which the failure or lack of desired operation of the product sused in application in which the failure or lack of desired operation of the product sused in application in which the failure or lack of the product sused for any purpose not expressly set for the in applicable Littelfuse for any purpose on the product sused in application in which the failure or lack of the product sused for any purpose on the product sused in application. Littelfuse for any purpose on the product sused in application in which the failure or lack of the product sused in application in which the failure or lack of the product sused in application in which the failure or lack of the product sused in application in which the failure or lack of the product sused in application in which the failure or lack of the product sused in application in which the failure or lack of the product sused

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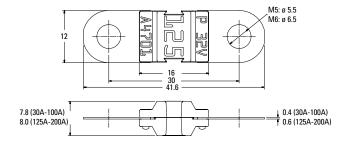


## BF1 Fuse Rated 32V

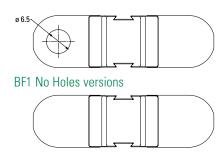
### **Dimensions**

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

### BF1 2 Holes M5/M6 versions

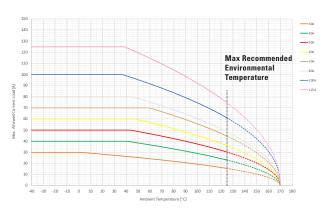


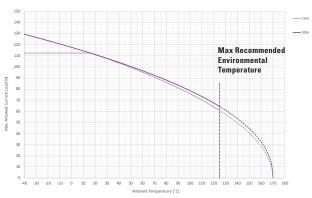
### BF1 1 Hole M6 version



## 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
30A	30	30	28	24	21	18	16
40A	40	40	40	36	32	27	23
50A	50	50	50	46	41	35	30
60A	60	60	60	55	50	42	36
70A	70	70	70	68	61	51	45
80A	80	80	80	74	66	56	49
100A	100	100	100	90	81	70	61
125A	125	125	125	112	101	86	75
150A	113	113	111	93	84	70	61
200A	129	118	111	95	86	73	64

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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