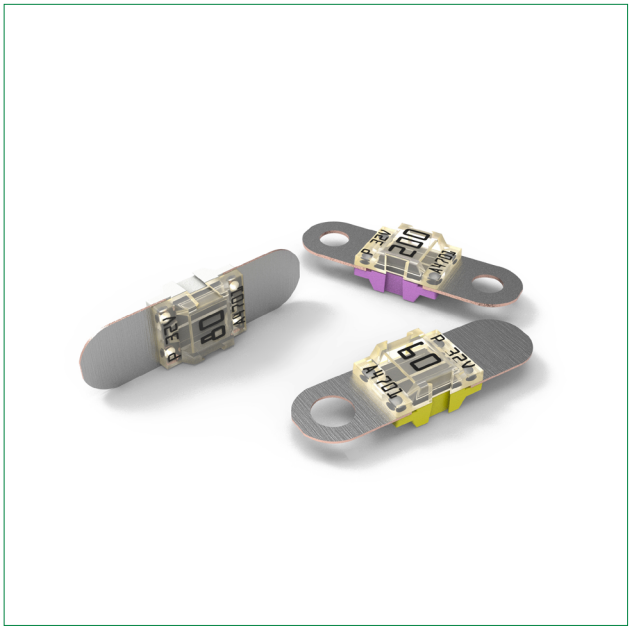
BF1 Series

Bolt-down Fuses – Rated 32 V DC



Description

BF1 32V fuses use Slo-Blo® technology to protect high-current wiring harnesses. Use the 150 A and 200 A fuses only for short circuit protection.

Features & Benefits

- Color coding indicates ampere rating
- High-contrast ampere rating stamps aid identification
- Comply with ISO 8820-5:2015
- Available with one, two or no mounting holes
- Transparent cover make it easier to see when fuse blow

Applications

- Cars / SUVs
- Trucks
- Offroad vehicles
- Buses
- Watercraft as approved by Littelfuse®

Additional Information

Resources

Samples

See Disclaimer Notice

Specifications

Voltage Rating:	32 V DC
Interrupting Rating:	30 A: 1000A @ 32 VDC 40 A - 150 A: 2000A @ 32 VDC 200 A: 1500A @ 32 VDC
Recommended Environmental Temperature:	–40 ˚C to +125 ˚C
Terminals Material:	Tin plated Copper
Opaque Housing Material:	PET-GF33 (U.L. 94 Flammability rating – V0)
Clear Housing Material:	PES (U.L. 94 Flammability rating – HB)
Mounting Torque M5:	4.5 Nm +/- 1Nm
Mounting Torque M6:	6.0 Nm +/- 1Nm
Comply With:	UL 248 Special Purpose Fuse
Refers To:	ISO 8820-5:2015

Ordering Information

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

©2023 Littelfuse, Inc.
Specifications are subject to change without notice.
Revised: 06/28/2024

BF1 Series

Bolt-down Fuses – Rated 32 V DC

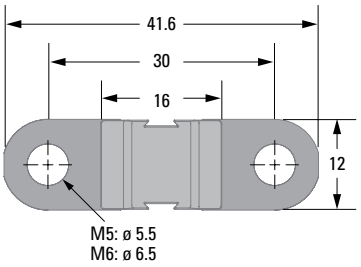
Ratings

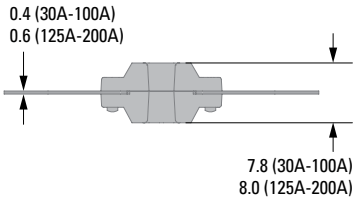
Part Number	Current Rating (A)	Housing Material Color	Test Cable Size (mm^2)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I^2t (A^2s)
153.xxxx.530_	30		2.5	105	2.70	5100
153.xxxx.540_	40		4	90	1.56	6800
153.xxxx.550_	50		6	80	1.03	6900
153.xxxx.560_	60		6	75	0.75	16 200
153.xxxx.570_	70		10	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.620_[3]	200		35	70	0.24	126 000

Note 1: Short Circuit Protector only
Note 2: The typical I^2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

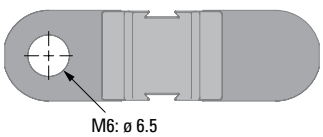
Dimensions

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

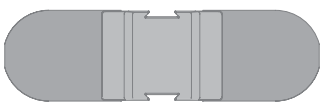




1 Hole M6 version



No Holes versions

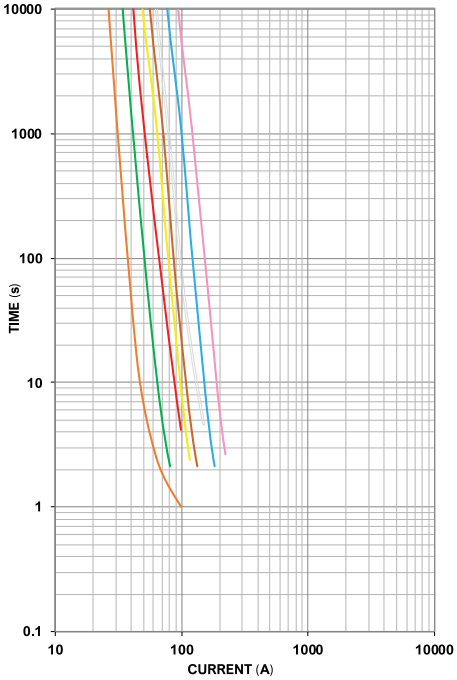


©2023 Littelfuse, Inc.
Specifications are subject to change without notice.
Revised: 06/28/2024

BF1 Series

Bolt-down Fuses – Rated 32 V DC

Time-Current Characteristic

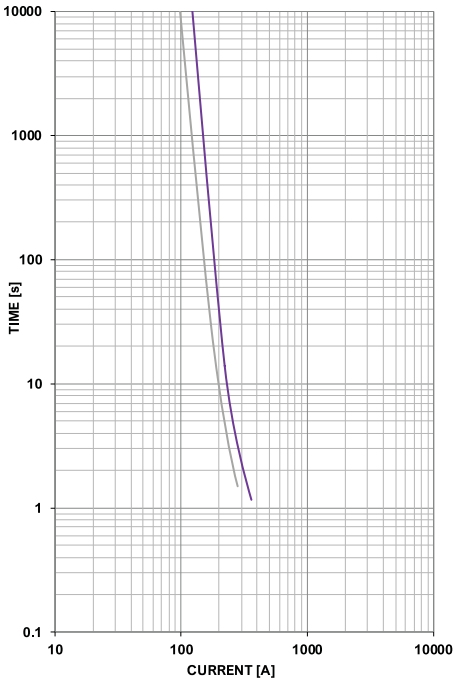


30 A - 125 A

% of Rating	Opening Time Min. / Max. (s)
75	- / -
100	360 000 / -
110	14 400 / -
150	90 / 3 600
200	3 / 100
300	0.3 / 3
350	- / -
500	0.1 / 1
600	- / -

30 A
40 A
50 A
60 A
70 A
80 A
100 A
125 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.



150 A - 200 A

% of Rating	Opening Time Min. / Max. (s)
75	360 000 / -
100	- / -
110	- / -
150	- / -
200	1 / 15
300	- / -
350	0.3 / 5
500	- / -
600	0.1 / 1

150 A
200 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.

©2023 Littelfuse, Inc.
Specifications are subject to change without notice.
Revised: 06/28/2024

BF1 Series

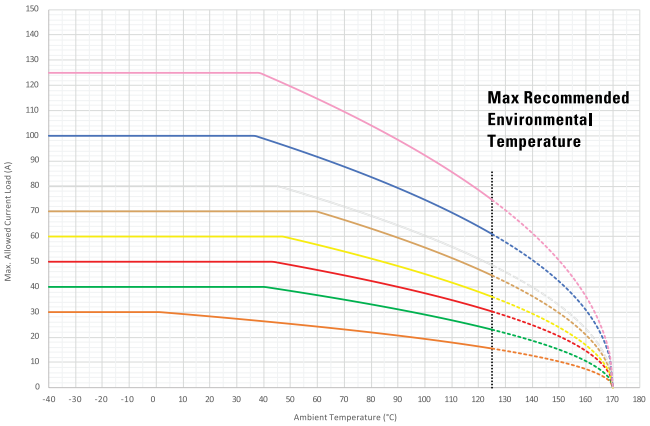
Bolt-down Fuses – Rated 32 V DC

Typical Derating Curves

Temperature security margin is 20%

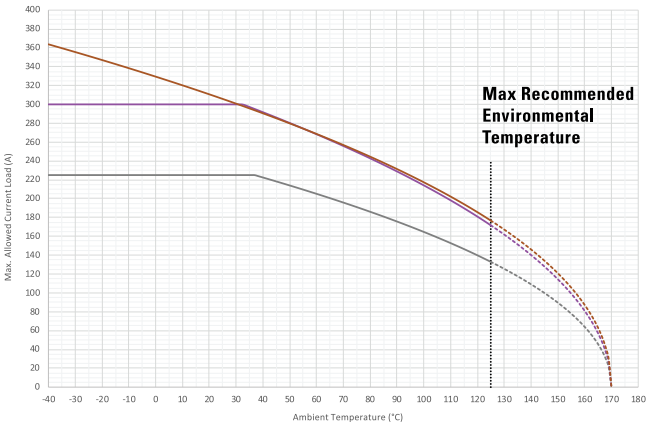
Wire Cross Section And Fixture Test Set Up Refer To ISO 8820-3

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	20 °C	65 °C	85 °C	110 °C	125 °C
30 A	30	30	28	24	21	18	16
40 A	40	40	40	36	32	27	23
50 A	50	50	50	46	41	35	30
60 A	60	60	60	55	50	42	36
70 A	70	70	70	68	61	51	45
80 A	80	80	80	74	66	56	49
100 A	100	100	100	90	81	70	61
125 A	125	125	125	112	101	86	75
150 A	113	113	113	113	111	94	81
200 A	150	150	148	126	115	98	86

30 A
40 A
50 A
60 A
70 A
80 A
100 A
125 A



150 A
200 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.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at https://www.littelfuse.com/legal/disclaimers/product-disclaimer.aspx

©2023 Littelfuse, Inc.
Specifications are subject to change without notice.
Revised: 06/28/2024