

BF1 Series

Bolt-down Fuses – Rated 58V



Description

BF1 58V 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
- Refers to 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:	58 V DC
Interrupting Rating:	30 A: 1000A @ 58VDC 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
142.5631.xxxx	30 - 200	500	M5	2
142.7010.xxxx	30 - 200		M6	2
142.0020.xxxx	30 - 200		-	0

BF1 Series

Bolt-down Fuses – Rated 58V

Ratings

Part Number M5	Part Number M6	Current Rating (A)	Housing Material Color	Test Cable Size (mm ²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I ² t (A ² s)
142.5631.5302 ¹	142.7010.5302 ¹	30		2.5	105	2.70	5100
142.5631.5402	142.7010.5402	40		4	90	1.56	6800
142.5631.5502	142.7010.5502	50		6	80	1.03	6900
142.5631.5602	142.7010.5602	60		6	75	0.75	16 200
142.5631.5702	142.7010.5702	70		10	70	0.64	22 000
142.5631.5802	142.7010.5802	80		10	70	0.55	25 600
142.5631.6102	142.7010.6102	100		16	70	0.44	42 500
142.5631.6122	142.7010.6122	125		25	70	0.34	62 500
142.5631.6152	142.7010.6152	150		25	70	0.29	83 400
142.5631.6202 ²	142.7010.6202	200		35	70	0.24	126 000

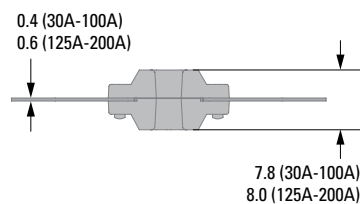
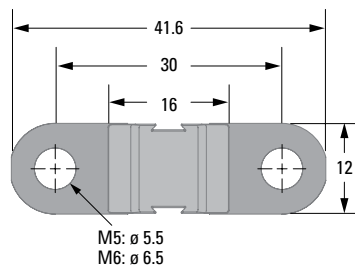
Note 1: Not UL rated

Note 2: Short Circuit Protector only

Note 3: The typical I²t 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.



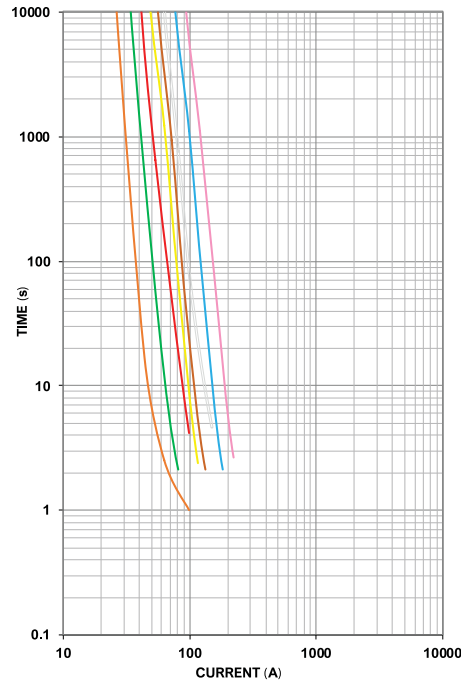
No Holes versions



BF1 Series

Bolt-down Fuses – Rated 58V

Time-Current Characteristic

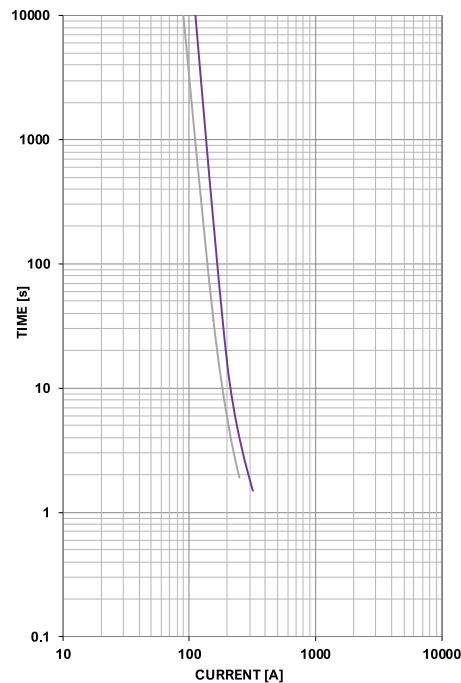


30 A - 125 A

% 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.

BF1 Series

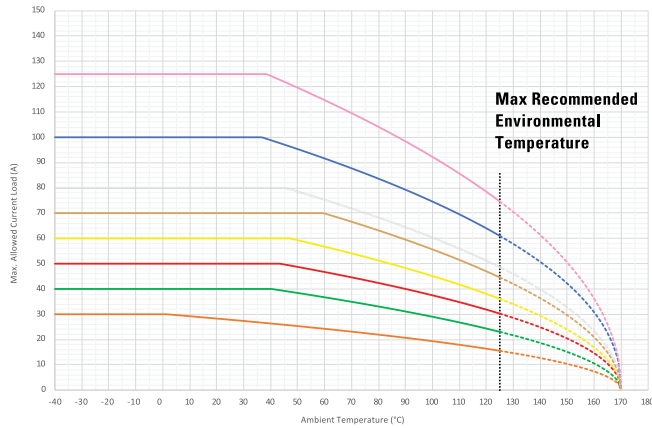
Bolt-down Fuses – Rated 58V

Typical Derating Curves

Temperature security margin is 20%

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

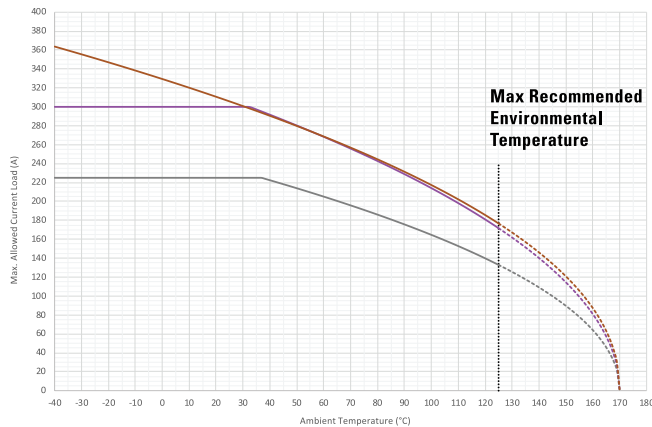
Please contact Littelfuse® for Details Regarding Derating Test Set Up.



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>