

BF1 Series

Bolt-down Fuses – Rated 58 V



Description

BF1 58 V 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 @ 58 V dc 40 A - 150 A: 2000A @ 58 V dc 200 A: 1500A @ 58 V dc
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 N · m +/- 1 N · m
Mounting Torque M6:	6.0 N · m +/- 1 N · m
Comply With:	UL 248 Special Purpose Fuse (Except 30 A)
Refers To:	ISO 8820-5:2015

Ordering Information

Part Number	Current Rating (A)	Package Size	Bolt Size	Bolt Hole Qty
142.5631.xxx2	30 - 200	500	M5	2
142.7010.xxx2	30 - 200	500	M6	2
142.0020.xxx2	30 - 200	500	-	0

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Ratings

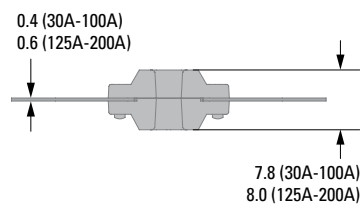
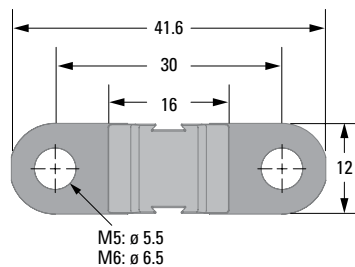
Part Number	Current Rating (A)	Housing Material Color	Test Cable Size (mm ²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I ² t (A ² s)
142.xxxx.5302 ¹	30		2.5	105	2.70	5100
142.xxxx.5402	40		4	90	1.56	6800
142.xxxx.5502	50		6	80	1.03	6900
142.xxxx.5602	60		6	75	0.75	16 200
142.xxxx.5702	70		10	70	0.64	22 000
142.xxxx.5802	80		10	70	0.55	25 600
142.xxxx.6102	100		16	70	0.44	42 500
142.xxxx.6122	125		25	70	0.34	62 500
142.xxxx.6152 ²	150		25	70	0.29	83 400
142.xxxx.6202 ²	200		35	70	0.24	126 000

Note 1: Not UL rated

Note 2: Short Circuit Protector only

Dimensions

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



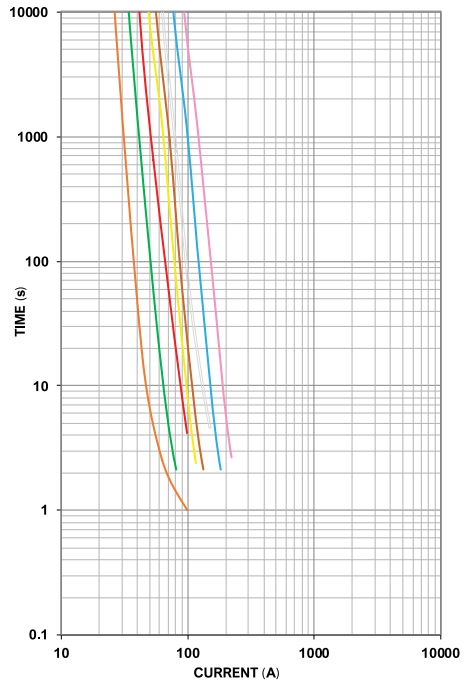
No Holes versions



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Time-Current Characteristic

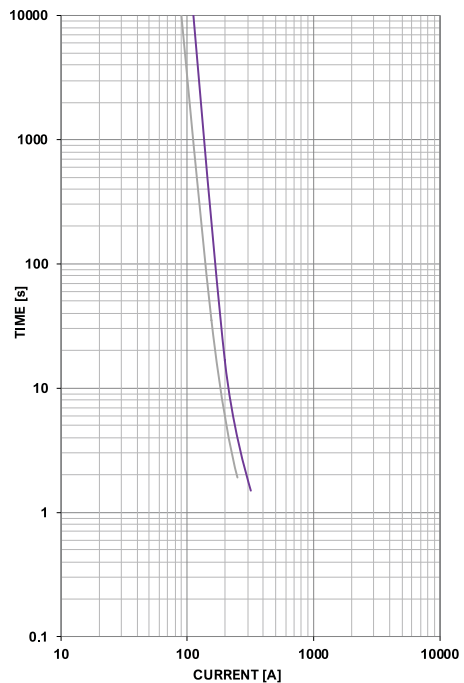


30 A - 125 A

% 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

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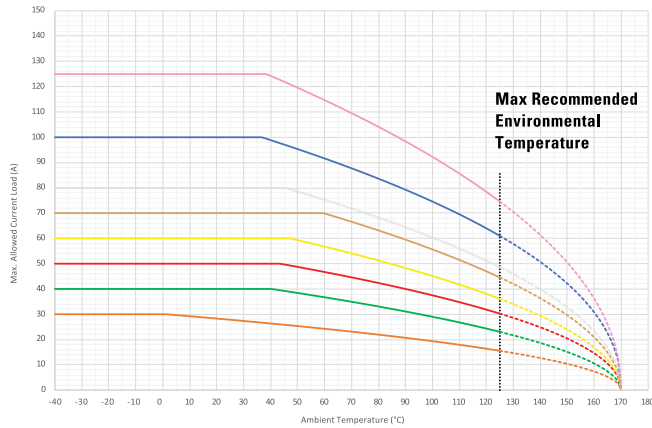
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Typical Derating Curves

Temperature security margin is 20%

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

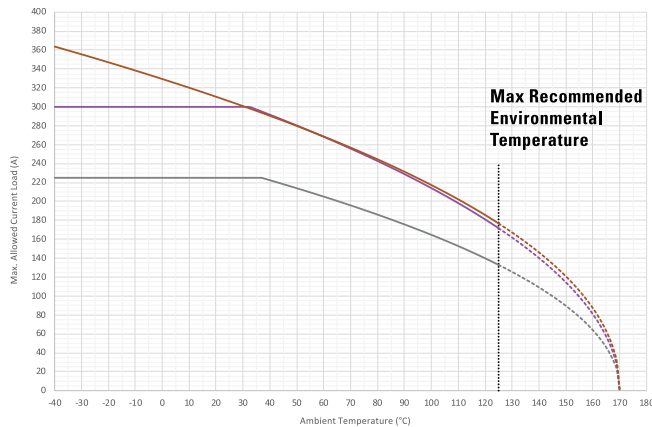
Please contact Littelfuse® for Details Regarding Derating Test Set Up.



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.

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