Drive Fuse Class J

DFJ — 600Vac/450Vdc, 1-600A High Speed Fuse



Description: High speed, current-limiting fuse. The Bussmann Drive Fuse will provide maximum protection for AC and DC drives and controllers and meet NEC® branch circuit protection requirements. The Drive Fuse has the lowest I^2t of any branch circuit fuse to protect power semiconductor devices that utilize diodes, GTOs, SCRs and SSRs.

Construction: Melamine tube with silver fuse element.

Ratings:

Volts — 600Vac (or less), 450Vdc (or less, 30-600A)

Amps — 1-600A

IR — 200kA RMS Sym., 100kA DC

Agency Information:

CE, Std. 248-8, Class J, UL Listed, Guide JDDZ, File E4273, CSA Certified, Class 1422-02, File 53787.

Catalog Numbers (Amps)

DFJ-1	DFJ-15	DFJ-70	DFJ-225
DFJ-2	DFJ-20	DFJ-80	DFJ-250
DFJ-3	DFJ-25	DFJ-90	DFJ-300
DFJ-4	DFJ-30	DFJ-100	DFJ-350
DFJ-5	DFJ-35	DFJ-110	DFJ-400
DFJ-6	DFJ-40	DFJ-125	DFJ-450
DFJ-8	DFJ-45	DFJ-150	DFJ-500
DFJ-10	DFJ-50	DFJ-175	DFJ-600
DFJ-12	DFJ-60	DFJ-200	

Carton Quantity:

Amp Rating	Carton Qty.
1–60	10
70–200	5
225–600	1

Features and Benefits

- Easily coordinated with existing and new variable speed drives and electric controllers.
- Standard Class J dimensions allowing the use of readily available fuse blocks, holders, and switches.
- Allows the lowest let-thru energy of any branch circuit overcurrent protective device.

Typical Applications

- Protection of AC and DC drives
- Equipment using power semiconductor devices

Recommended Fuse Blocks and Holders

Fuse Amps	1-Pole	2-Pole	3-Pole
Open Blocks			
0-30	J60030-1_	J60030-2_	J60030-3_
35-60	J60060-1_	J60060-2_	J60060-3_
“Pyramid” Blocks			
0-30	—	—	JP60030-3_
CH Series Holders			
0-30	CH30J1_	CH30J2_	CH30J3_
35-60	CH60J1_	CH60J2_	CH60J3_
Safety J™ Holders			
0-30	JT60030_	—	—
35-60	JT60060_	—	—
JM Series Modular Knifeblade Fuse Blocks			
70-100	JM60100-1CR	JM60100-2CR	JM60100-3CR
110-200	JM60200-1CR	JM60200-2CR	JM60200-3CR
225-400	JM60400-1CR	JM60400-2CR	JM60400-3CR
450-600	JM60600-1CR	JM60600-2CR	JM60100-3CR

For additional information on the open Class J fuse blocks and holders, see data sheets # 1114 (open blocks), #1108 (pyramid blocks), # 2144 (CH Series) and # 1152 (Safety J).

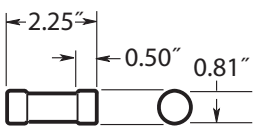
For additional information on the JM Series of modular knifeblade fuse blocks, see product brochure # 3192.

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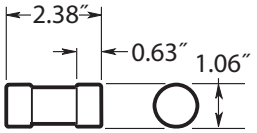
Electrical Characteristics

Catalog Number	Rated Current Amps	I²t (A² Sec) @ 600Vac/100kA Pre-arc	Clearing	Watts Loss
DFJ-15	15	4	110	4.1
DFJ-20	20	8	365	4.0
DFJ-25	25	12	610	4.9
DFJ-30	30	20	1000	5.5
DFJ-35	35	55	1100	6.8
DFJ-40	40	90	1900	8.6
DFJ-50	50	140	2800	8.7
DFJ-60	60	290	6000	8.5
DFJ-70	70	450	3100	12
DFJ-80	80	650	4600	13
DFJ-90	90	1010	7200	13
DFJ-100	100	1460	10500	13
DFJ-110	110	1710	9500	17
DFJ-125	125	3580	20000	15
DFJ-150	150	5080	28000	19
DFJ-175	175	6310	35000	23
DFJ-200	200	9850	54500	24
DFJ-225	225	11420	51000	29
DFJ-250	250	17000	74500	30
DFJ-300	300	23500	103000	36
DFJ-350	350	38800	170000	39
DFJ-400	400	62200	272000	40
DFJ-450	450	44600	270000	56
DFJ-500	500	79500	480000	52
DFJ-600	600	138000	830000	57

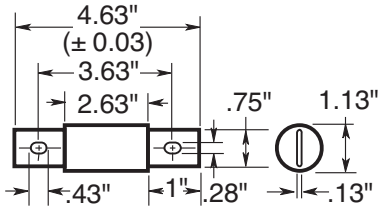
Dimensions - in



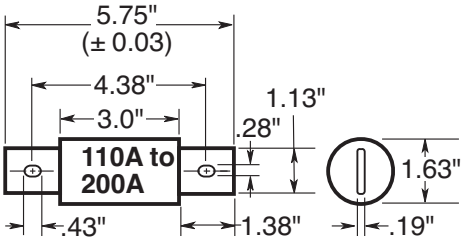
1A to 30A

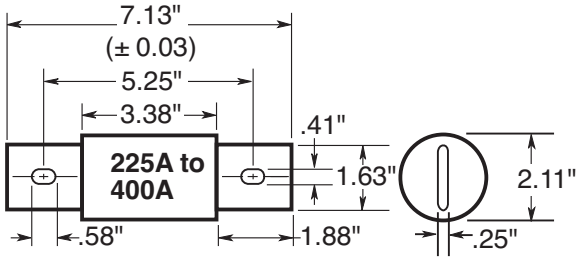


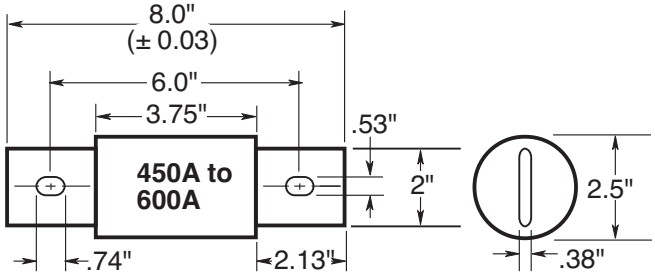
35A to 60A



70A to 100A

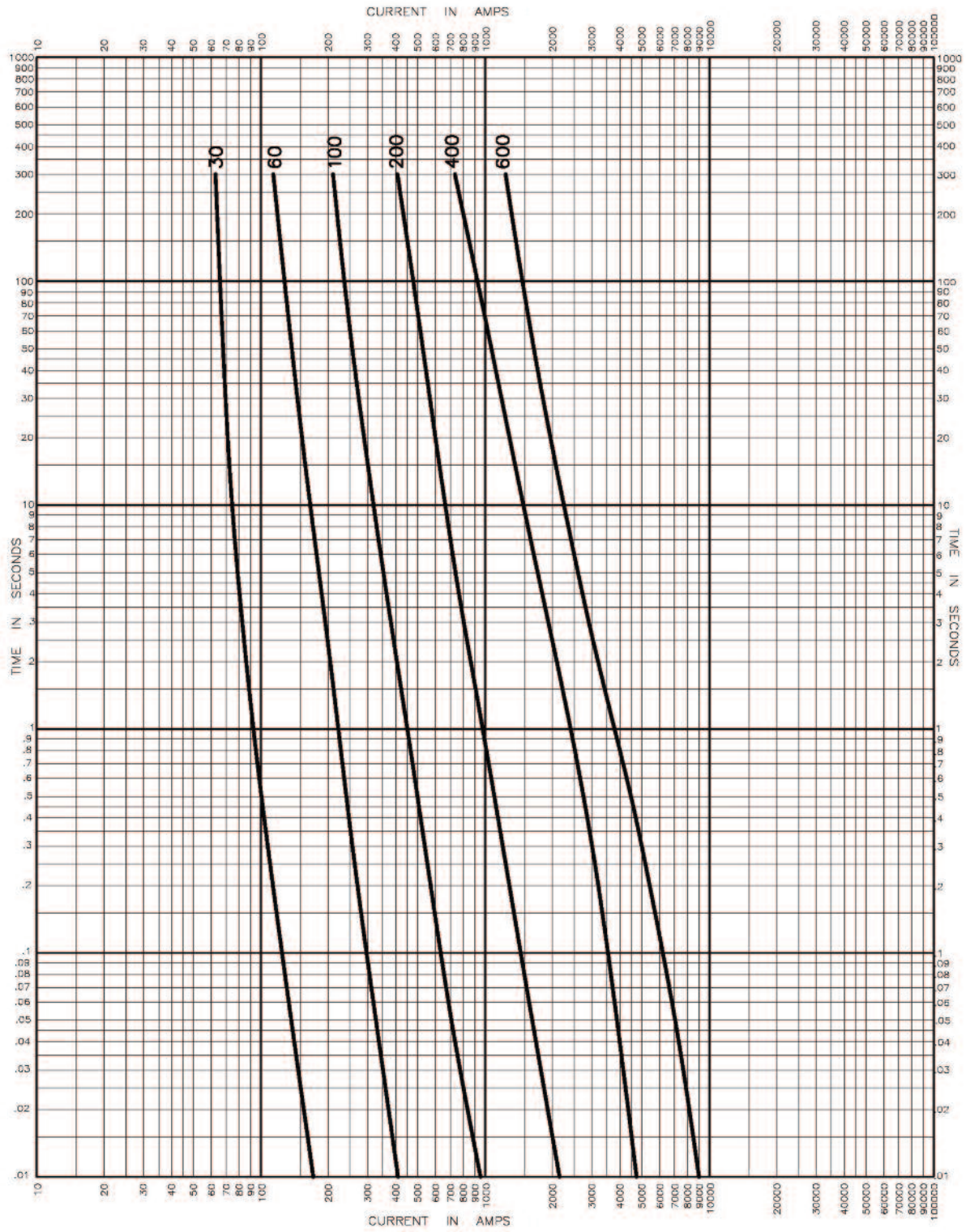






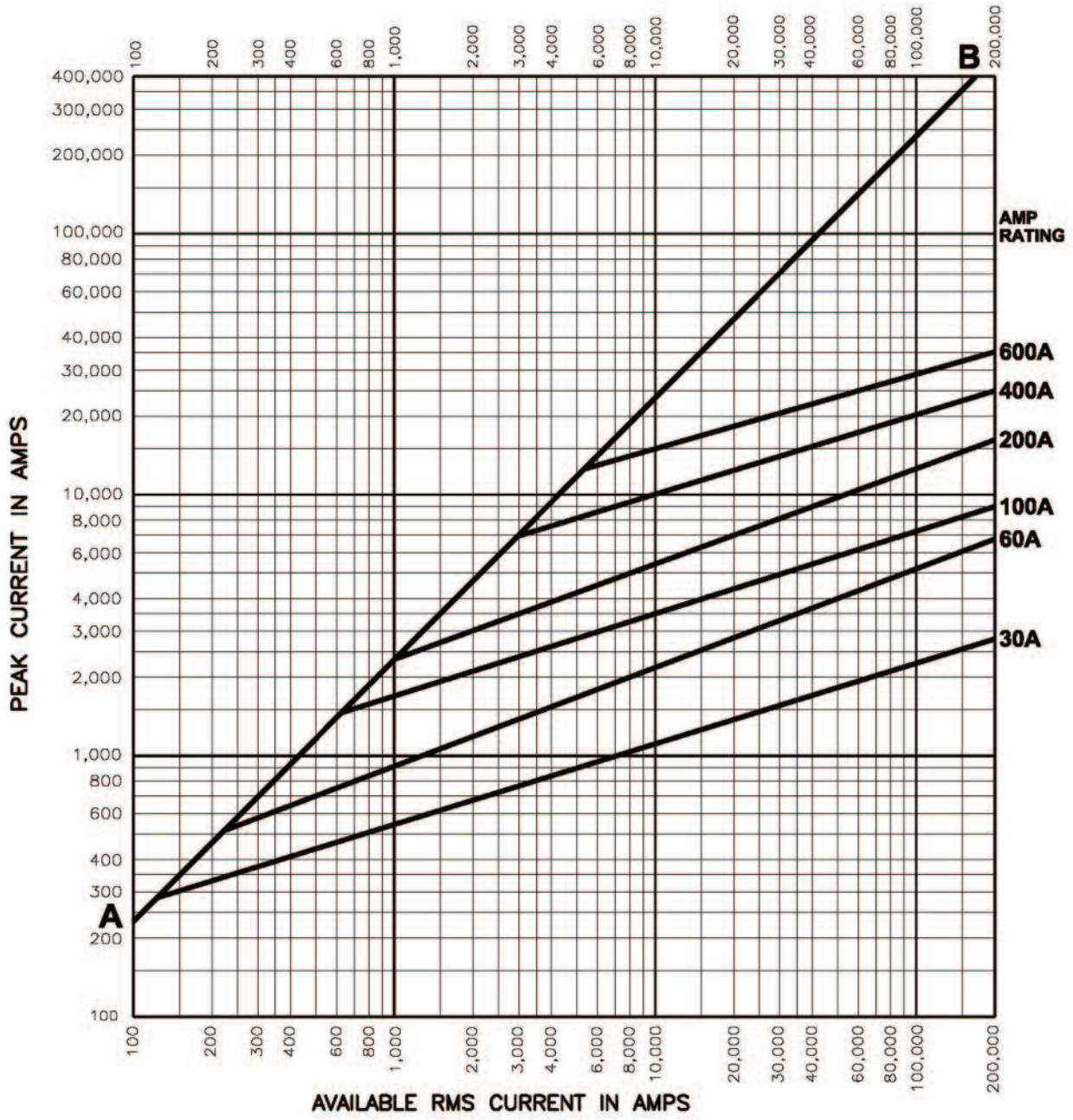
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Time-Current Curves - Average Melt



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Current-Limitation Curves



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