

# A070gRB

## SEMICONDUCTOR PROTECTION FUSES



The A070gRB is a fast acting, full range fuse utilized in the protection of inverters, UPS and other discrete semi-conductor devices

### Features/Benefits

- **International** 10 X 38 mm (1 1/2 X 13/32) size for worldwide acceptance
- **Ferrule mount** 1 to 30A for design versatility
- **Low I<sup>2</sup>t** for improved semiconductor protection
- **gR Class** according to VDE 636-23 and IEC 269.4

### Ratings

- **AC:** 1-30A  
160kA, 700V
- **DC:** 550VDC, L/R =  
10mS

### Approvals

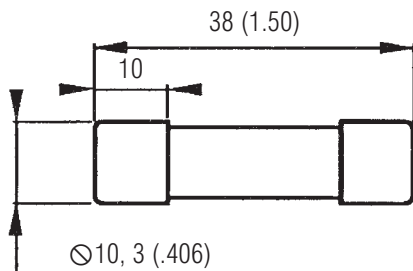
- UL Recognized Component  
UL File E76491
- IEC 269-4 Compliance
- AC: UL Guide No. JFHR2

### HIGHLIGHTS:

- Extremely Fast Acting
- Current Limiting
- Low I<sup>2</sup>t
- Excellent Cycling Capability
- gR

### APPLICATIONS:

- Protection of small inverters, UPS systems, motor drives and similar 700v or less equipment



### FUSE HOLDERS FOR A070GRB FUSES

USM Series . . . . .ULTRASAFE™ Fuse Holders  
303 Series . . . . .Midget Fuse Blocks

Note: Fuses labels have both European and American references.

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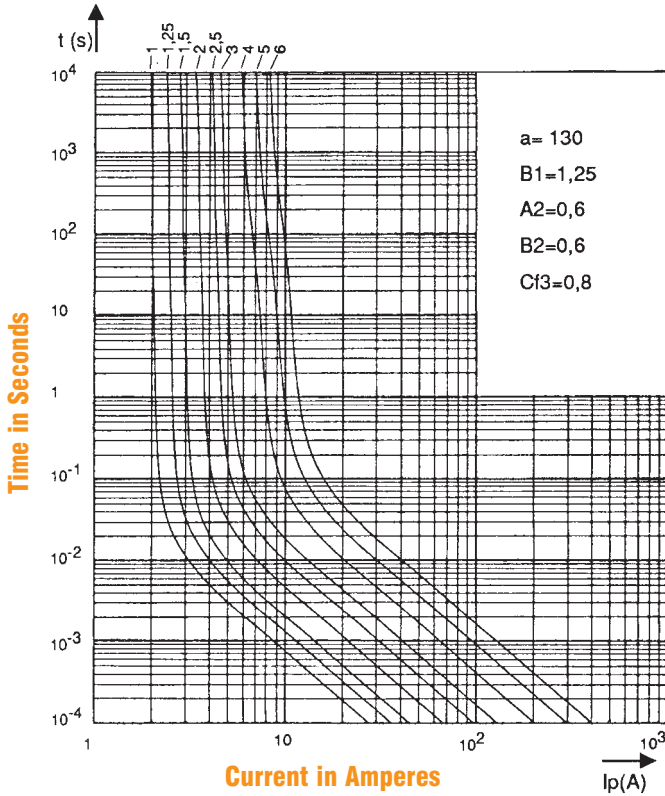
BODY SIZE (mm)	AMPERE RATING	RATED VOLTAGE (VAC)	Melting I <sup>2</sup> t (A <sup>2</sup> s)	Clearing I <sup>2</sup> t @ Rated Voltage (A <sup>2</sup> s)	WATTS LOSS		CATALOG NUMBER	REFERENCE NUMBER
					@ 80% RATED CURRENT	@ 100% RATED CURRENT		
10 X 38	1	700	0.075	0.28	0.57	0.9	A070GRC01T13	Z330279
	1.25		0.115	0.4	0.7	1.25	A070GRB1.25T13	X330001
	1.5		0.185	0.63	0.81	1.5	A070GRB1.5T13	Y330002
	2		0.42	1.43	1.1	2	A070GRB2T13	Z330003
	2.5		0.88	3	1.15	2.1	A070GRB02.5T13	A330004
	3		1.55	5.1	1.25	2.3	A070GRB03T13	B330005
	4		4	13.2	1.35	2.6	A070GRB04T13	C330006
	5		8.6	27.5	1.4	2.7	A070GRB05T13	D330007
	6		15	48.5	1.5	2.9	A070GRB06T13	E330008
	8		3.3	36.3	1.35	2.4	A070GRB08T13	F330009
	10		5.4	60.5	1.85	3.4	A070GRB10T13	G330010
	12.5		8.5	90.2	1.9	3.4	A070GRB12.5T13	H330011
	16		16	160	2.3	4.1	A070GRB16T13	J330012
	20		30	275	2.4	4.3	A070GRB20T13	K330013
	25		58	520	2.7	4.7	A070GRB25T13	L330014
30	96	815	2.9	5	A070GRB30T13	M330015		



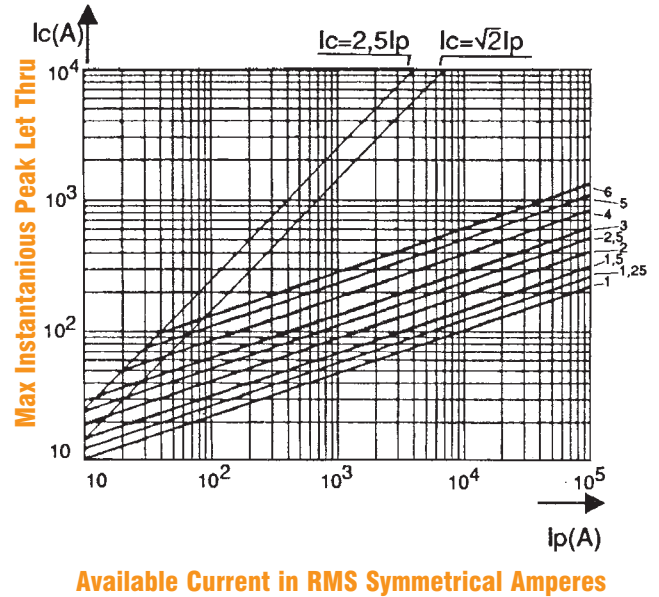
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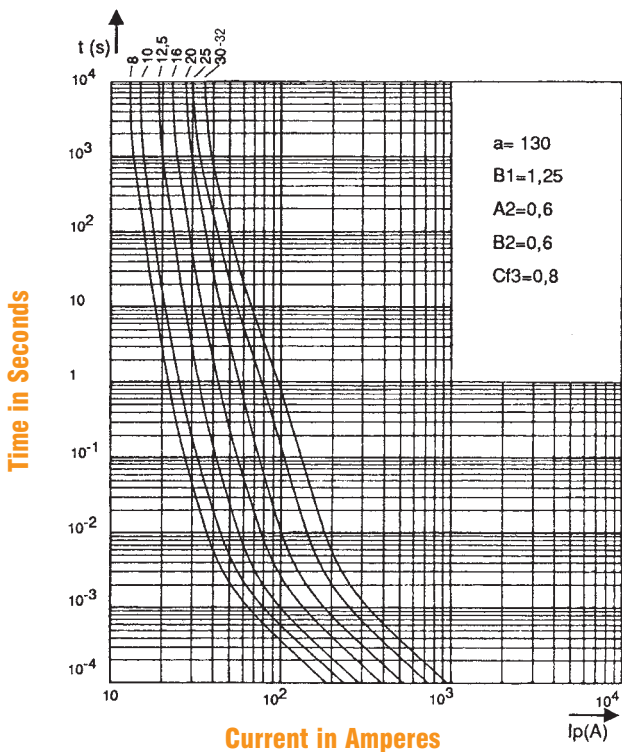
**Melting Time Current Data (1 to 6A)**



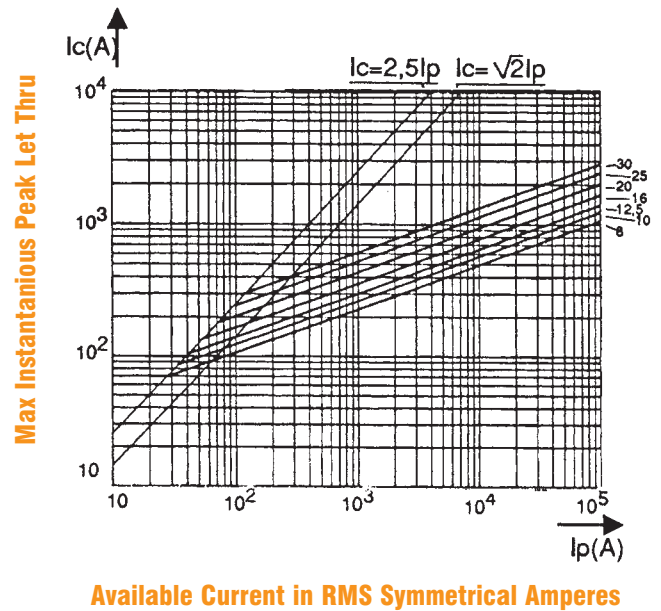
**Peak Let Thru Current Data (1 to 6A)**



**Melting Time Current Data (8 to 30A)**

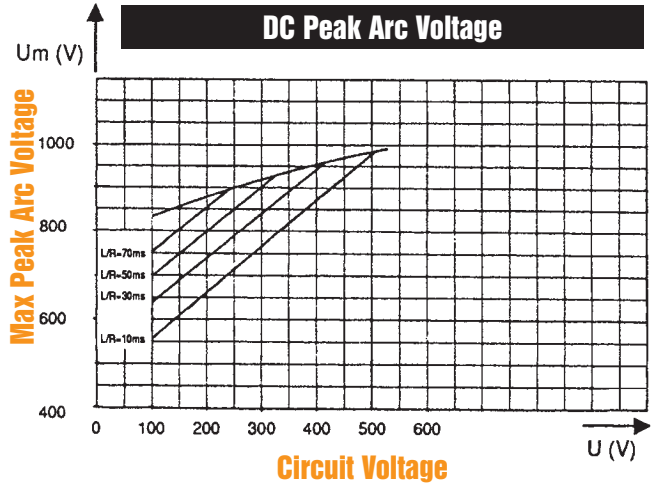
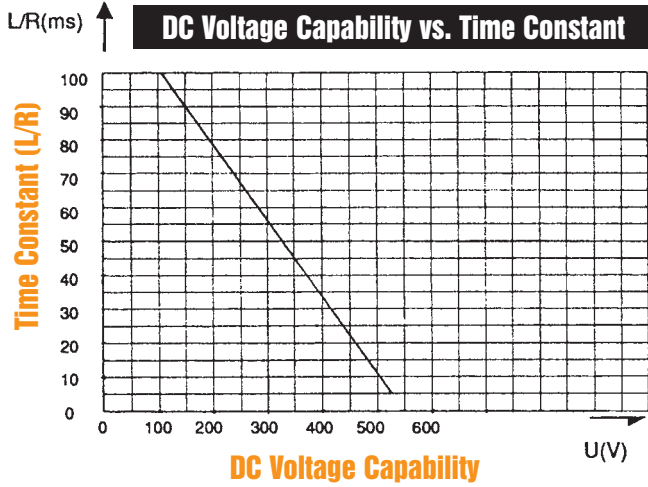


**Peak Let Thru Current Data (8 to 30A)**



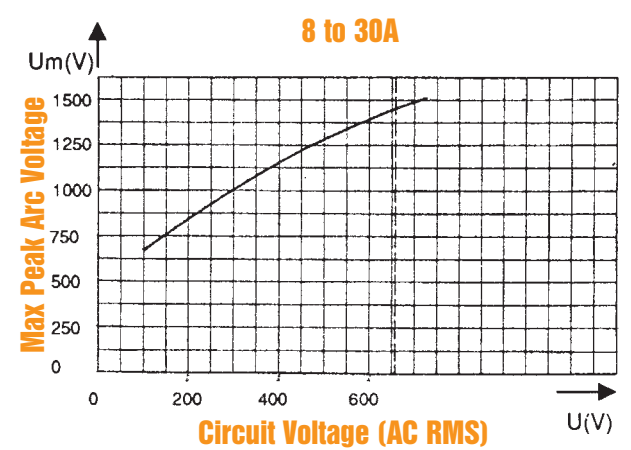
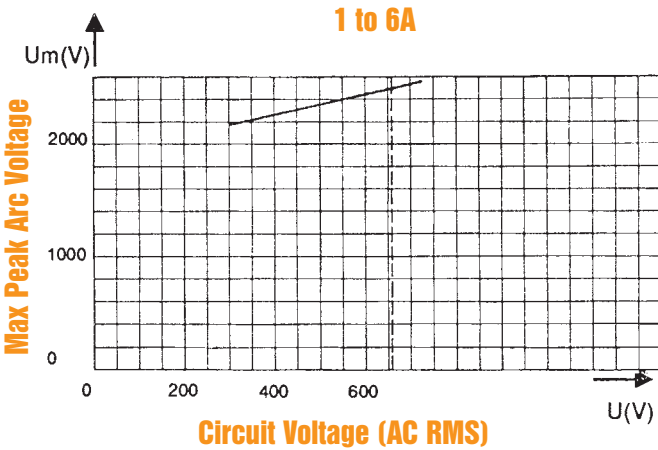
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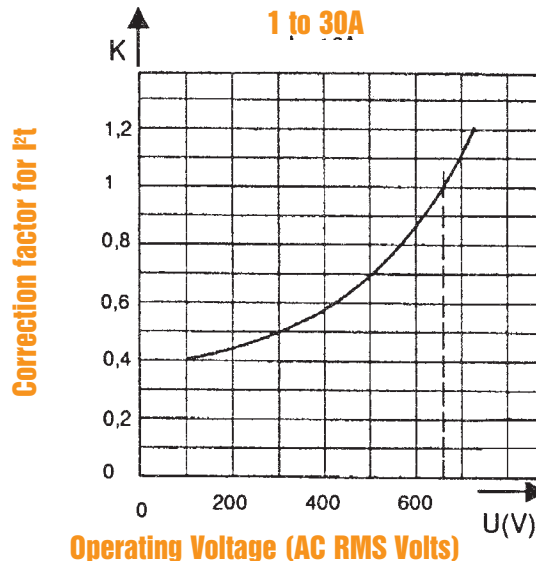
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### Maximum Arc Volts vs. System Voltage



Determines the peak arc voltage across fuse terminals as a function of applied voltage

### Clearing I²t vs. AC operating voltage



Correction factor to determine clearing I²t of a fuse below its related voltage.