## RAPIDPLUS HIGH SPEED FUSES FOR SEMICONDUCTORS





### SEMICONDUCTOR FUSES

Cylindrical high speed fuse–links intended for the optimum protection of semiconductor devices (thyristors, triacs, diodes, rectifiers, static relays, etc). gR class allows protection in whole range of over–currents, overloads as well as short–circuits, protecting semiconductor devices and conductors and other switchgear installations. Typical applications comprise protection in rectifiers, UPS, converters, motor drives, soft starters and inverters. Melting elements are specially designed to obtain low I<sup>2</sup>t values, reduced arc voltages and an adequate selective coordination with upstream fuse–links. Wide range of rated currents and striker versions for use in fuse bases with micro–switch. Made of ceramic tube with high withstand to internal pressure and thermal shock, that allow a high breaking capacity in a reduced physical space. Contacts caps are made of silver plated copper.

DDEAVING CADACITY

DACKING

#### www.df-sa.es/rapidplus/gR/

	ın	KEFEKENLE		U	BREAKING CAPACITT	PALKING	
	(A)	WITHOUT STRIKER	WITH STRIKER	(VAC)	(kA)		
10x38	4	492003	-	690	100	10	
	6	492004	_	690	100	10	
	8	492005	-	690	100	10	
	10	492006	-	690	100	10	
	12	492007	_	690	100	10	
	16	492008	-	690	100	10	
	20	492009	-	690	100	10	
	25	492010	-	690	100	10	
	32	492011	-	690	100	10	

DEFEDENCE



14x51

4	492014	-	690	100	10
6	492015	-	690	100	10
8	492016	492116	690	100	10
10	492017	492117	690	100	10
12	492018	492118	690	100	10
16	492019	492119	690	100	10
20	492020	492120	690	100	10
25	492021	492121	690	100	10
32	492022	492122	690	100	10
40	492023	492123	690	100	10
50	492024	492124	690	100	10



440 VDC - BREAKING CAPACITY 30 KA

440 VDC - BREAKING CAPACITY 30 KA

22×58	20	492033	492133	690	100	10
	25	492034	492134	690	100	10
	32	492035	492135	690	100	10
	40	492036	492136	690	100	10
	50	492037	492137	690	100	10
	63	492038	492138	690	100	10
	80	492039	492139	690	100	10
	100	492040	492140	690	100	10

440 VDC - BREAKING CAPACITY 30 KA









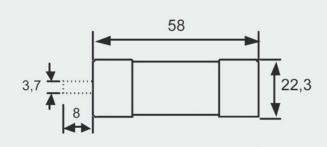


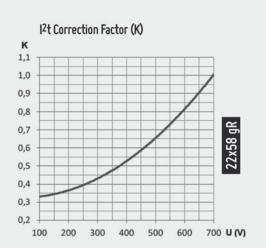
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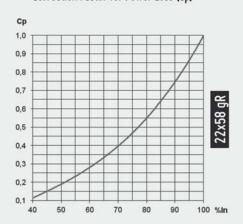




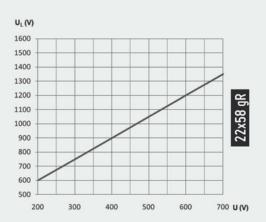




#### Correction Factor for Power Loss (Cp)



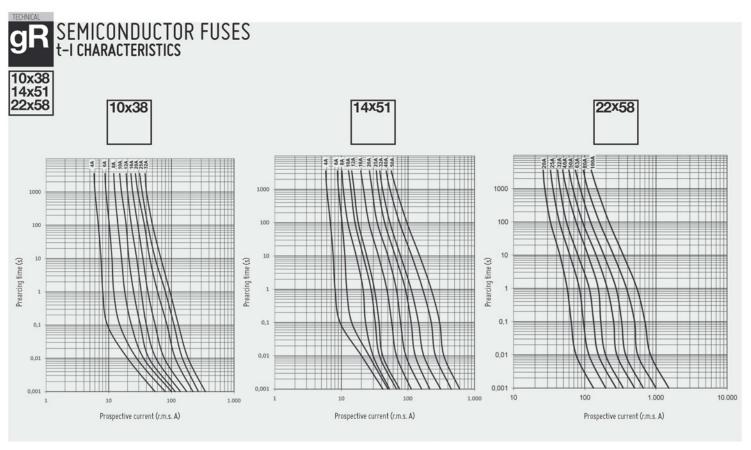
#### Peak Arc Voltage (UL)

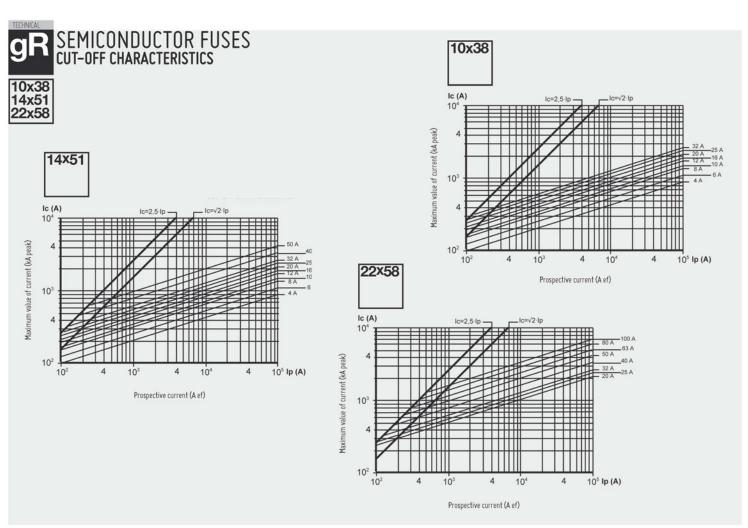


In	I <sup>2</sup> t Prearcing	Operating I <sup>2</sup> t @ 690 V	Power loss 0.8 · In	Power loss In
(A)	(A <sup>2</sup> S)	(A <sup>2</sup> S)	(W)	(W)
20	24	154	3,23	6,00
25	43	274	3,66	6,65
32	97	616	4,86	9,21
40	120	760	6,05	11,32
50	273	1362	6,26	11,85
63	516	2575	7,35	13,80
80	1092	5448	8,40	14,00
100	2065	10300	9,40	17,70

# RAPIDPLUS HIGH SPEED FUSES FOR SEMICONDUCTORS













### SEMICONDUCTOR FUSES USE OF SEMICONDUCTOR FUSE LINKS (RAPIDPLUS) IN PMC, PMF & PMX MODULAR FUSE HOLDERS AND BAC FUSE BASES

The modular fuse holders for cylindrical fuses have a rated power acceptance according to the maximum power dissipations allowed for the general use fuse links (gG) and back up fuse links.

These maximum values allowed for the fuse links (gG/aM) are regulated by standards (IEC/EN60269-2). In the same way, this standards specify the minimum power acceptance for the fuse holders. This power acceptance is the power dissipated by the fuse links (converted in heat) that he fuse holder can accept with an acceptable increase of the temperature (values also regulated by standards).

The fuse links for protection of semiconductors **RAPIDPLUS** have a rated power dissipation (or power loss) higher than the gG or aM types, and for this reason there are some limitations for the application of these fuses in closed modular fuse holders.

It is necessary to check that the fuse links have a power diissipation not higher than the maximum value admissible of the fuse holder indicated by the manufacturer.

When it is no possible to use modular fuse holders the solution is the use of an open fuse base where the heat can be appropriately dissipated.

In the following table are indicated the maximum values of power acceptance for **DF ELECTRIC** fuse holders. These limits should never be exceeded:

FUSE HOLDER TYPE	RATED POWER ACCEPTANCE IEC/EN60269-2-1	MAX. POWER ACCEPATNCE DF ELECTRIC FUSE HOLDERS
PMC 10x38	3 W	4 W
PMF 10x38	3 W	4 W
PMX 14x51	5 W	6 W
PMX 22x58	9,5 W	12 W
BAC 10x38	<b>-</b> 9	8 W
BAC 14x51	_2	12 W
BAC 22x58	=	20 W

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