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 I²t 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.

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

	In	REFERENCE		U	BREAKING CAPACITY	PACKING
	(A)	WITHOUT STRIKER	WITH STRIKER	(V AC)	(kA)	
			Ċ			
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



440 VDC - BREAKING CAPACITY 30 KA

14×51	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



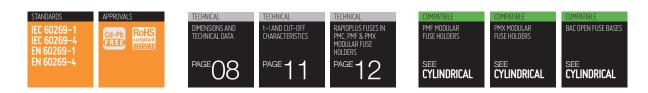
440 VDC - BREAKING CAPACITY 30 KA

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



492014





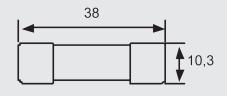
RAPIDPLUS HIGH SPEED FUSES FOR SEMICONDUCTORS



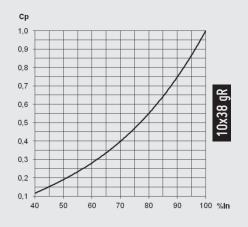


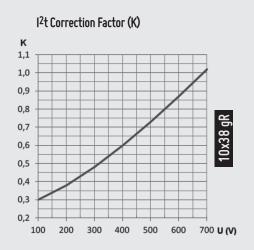
SEMICONDUCTOR FUSES DIMENSIONS & TECHNICAL DATA



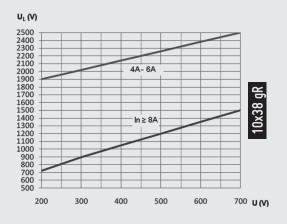


Correction Factor for Power Loss (Cp)





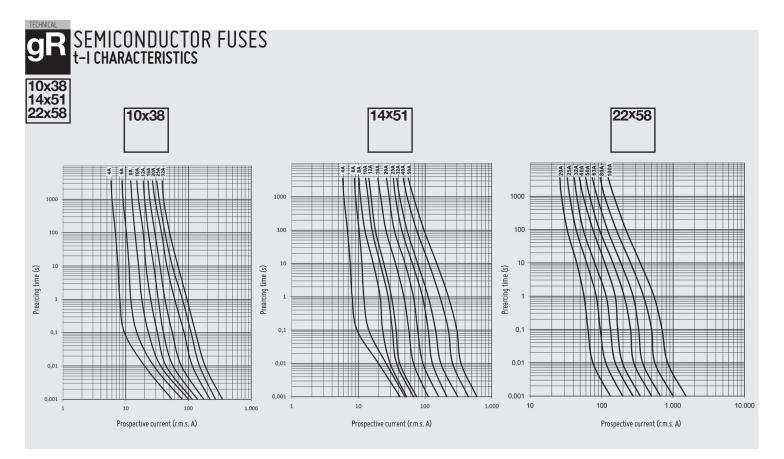
Peak Arc Voltage (UL)

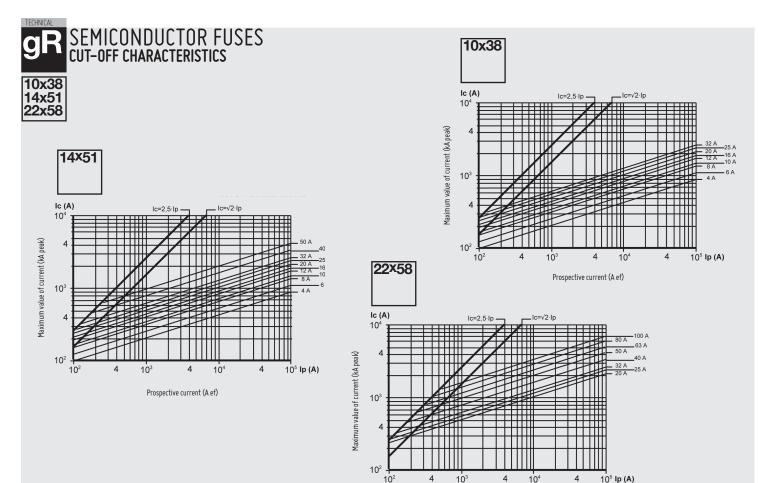


In	I ² t Prearcing	Operating I ² t @ 690 V	Power loss 0.8 · In	Power loss I _N
(A)	(A ² S)	(A ² S)	(W)	(W)
4	5,6	17	1,13	2,05
6	16,0	48	1,56	3,00
8	4,3	38	0,97	1,68
10	6,6	59	1,20	2,09
12	9,6	84	1,69	2,99
16	17,0	150	2,31	4,27
20	23,5	200	2,86	5,35
25	60,2	512	2,94	5,52
32	94,0	800	3,82	7,43

RAPIDPLUS HIGH SPEED FUSES FOR SEMICONDUCTORS







Prospective current (A ef)

13

RAPIDPLUS FUSE HOLDERS





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	_	8 W
BAC 14x51	-	12 W
BAC 22x58	_	20 W

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MBO-20 MDA-V-1/100 12C10X38GI AGA-V-2-1/2 AGC-V-3-12-R AGY-50 MSL-3 MSL-4 MSL-5 BK1/C436-2A BK1-GMA-1-6-R BK1-GMA-200-R BK1GMA-6-R BK1/GMC-100-R BK1/GMC-1.5-R BK1-GMC-2-5-R BK1GMD-4-R BK1S500-250-R BK1S500-32-R BK1-S500-4-R BK1S500-5-R BK1-S505-1-R BK1-S506-2-R BK1-S506-3-15-R BK1/S506-63-R BK/ABC-5RX BK/AGW-B-4 BK/AVX-1/4 BK/C515S-250-R BK/MBO-20 BK/MBO-8 BK/MDM-3/4 BK-MDQ-4 BK/S505-V-2.5A BK/TDC120-15 BK/TDC120-20 BK/TDC122-45 BP/MDL-7 1C10X38AM S505-V-500MA SEF-1697-1-002 AGA-V-7-1/2 AGC-15WX AGC-2-1-2-R 20.0M6.3X32F 20C8X32GI GMC-50-R 361.250 MBO-8 TDC121-30