

50 NH1 100 A 1000V DC I1= 30 kA IEC 60269-6

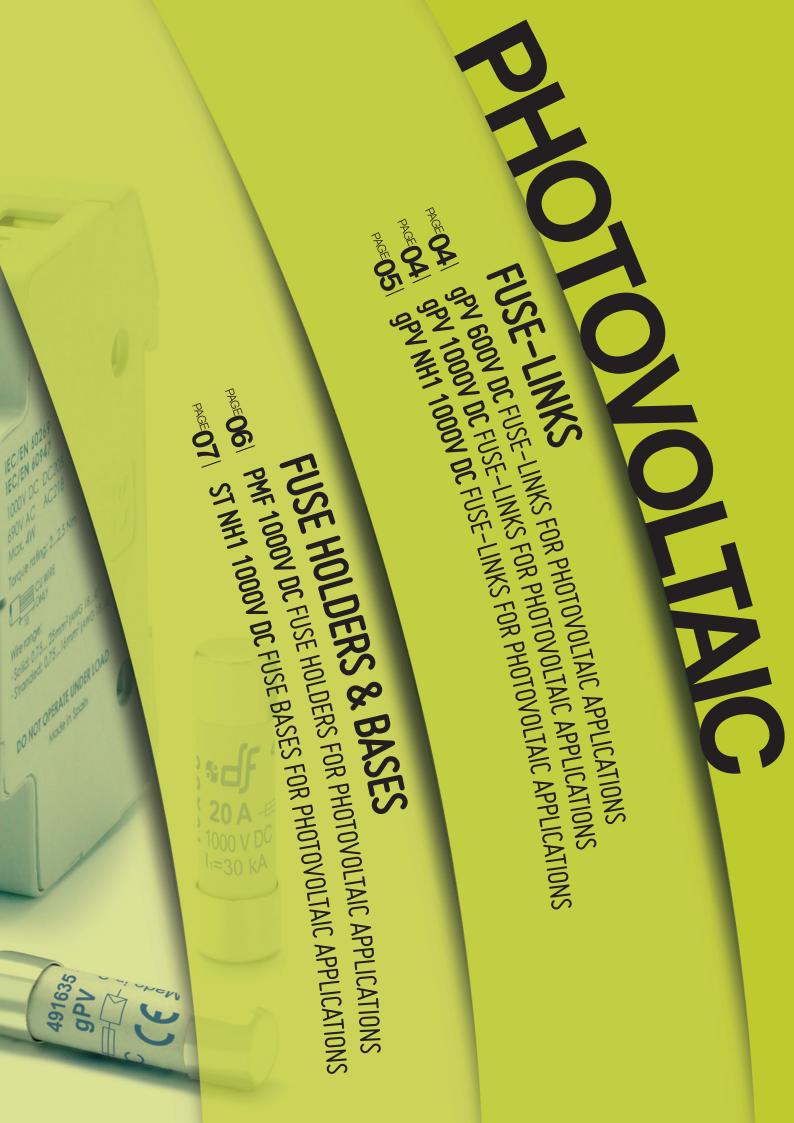
RoHS

Made in Spain



fuse-links 🚷 fuse holders







gPV FUSE-LINKS FOR PHOTOVOLTAIC APPLICATIONS

PV fuse-links for photovoltaic installations from DF Electric have been developed to offer a compact, safety and economic protection solution in photovoltaic installations where, due to the increase of the power and technologic evolution, no-load voltages up to 1000V DC are reached. Also meet the requirements for instruments (multimeters) and traction equipment auxiliary circuits. The range comprises 10x38 fuse-links with rated currents between 4A and 20A. Rated voltage is 1000 V DC (direct current). Provide protection against overloads as well as short-circuits. Made with ceramic tube with high withstand to internal pressure and thermal shock, that allows a high breaking capacity in a reduced physical space. Contacts are made of silver plated copper and melting elements are made of pure silver in order to avoid the aging and thus keep unalterable the electric characteristics. For these fuse-links we recommend the utilization of PMF 1000V fuse holders in single pole version (ref. 481033) or two-pole version (ref.481233).

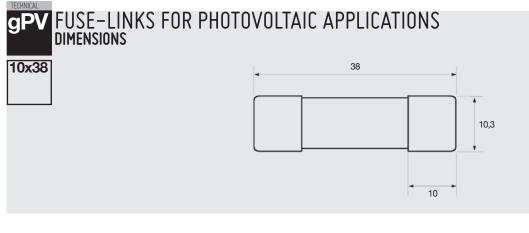
www.df-sa.es/photovoltaic/fuses/

	In	REFERENCE	BREAKING CAPACITY	PACKING
	(A)		(kA)	Uni./BOX
1000V	1	491601	30	10/100
DC	2	491602	30	10/100
	3	491604	30	10/100
	4	491605	30	10/100
	5	491606	30	10/100
	6	491610	30	10/100
	8	491615	30	10/100
	10	491620	30	10/100
	12	491625	30	10/100
	15	491629	30	10/100
	16	491630	30	10/100
	20	491635	30	10/100



1	491901	30	10/100
2	491902	30	10/100
3	491904	30	10/100
4	491905	30	10/100
5	491906	30	10/100
6	491910	30	10/100
8	491915	30	10/100
10	491920	30	10/100
12	491925	30	10/100
15	491929	30	10/100
16	491930	30	10/100
20	491935	30	10/100
25	491940	30	10/100
30	491944	30	10/100
32	491945	30	10/100
	3 4 5 6 8 10 12 15 16 20 25 30	2 491902 3 491904 4 491905 5 491906 6 491910 8 491915 10 491920 12 491925 15 491930 20 491935 25 491940 30 491944	2 491902 30 3 491904 30 4 491905 30 5 491906 30 6 491910 30 8 491920 30 10 491925 30 12 491925 30 16 491930 30 20 491935 30 25 491940 30 30 491944 30







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GPV FUSE-LINKS FOR PHOTOVOLTAIC APPLICATIONS

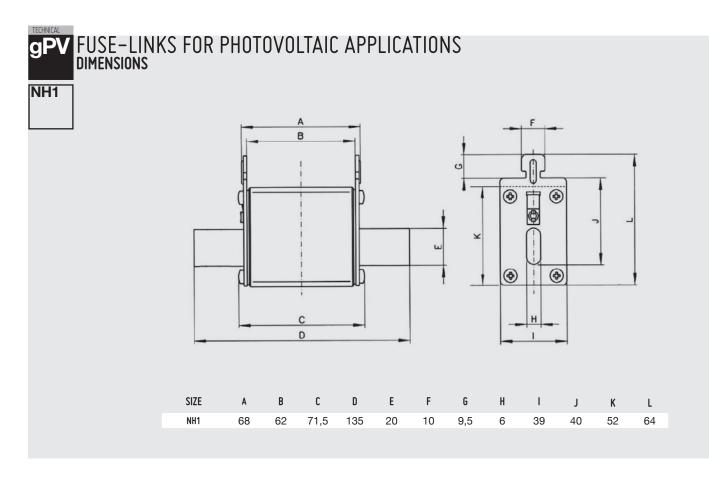
NH1 gpV 1000V DC fuse-links for photovoltaic installations have been developed to offer a compact, safety and economic protection solution in second level panels of photovoltaic installations. The range comprises NH1 fuse-links with rated currents between 25A and 100A. Rated voltage is 1000V DC (direct current). They provide protection against overloads as well as shortcircuits (gpV class according to IEC 60269 Standard, with a minimum fusing current of 1,35·In. Made with ceramic body with high withstand to internal pressure and thermal shock. Contacts are made of silver plated copper and melting elements are made of pure silver in order to avoid the aging and thus keep unalterable the electric characteristics. For these fuse-links we recommend the utilization of 1000V NH ST fuse bases.

www.df-sa.es/photovoltaic/fuses/

NH1

	In (A)	REFERENCE	BREAKING CAPACITY (KA)	PACKING Uni./BOX
1000V DC	25	373210	30	3/30
DC	32	373215	30	3/30
	40	373225	30	3/30
	50	373230	30	3/30
	63	373235	30	3/30
	80	373240	30	3/30
	100	373245	30	3/30







PHOTOVOLTAIC FUSE HOLDERS





FUSE HOLDERS FOR PHOTOVOLTAIC APPLICATIONS

The first feature that PV Modular fuse holders offers, is the 1000V DC rated voltages. They have been developed to offer a compact, safety and economic protection solution in photovoltaic installations where due to the increase of the power and technologic evolution, no-load voltages above 800V DC can be achieved. Modular fuse holders for 10x38 gPV fuses according IEC/EN 60269 standard. Compact design, with reduced distances. Manufactured with a high quality materials: Silver plated copper contacts and plastic materials with high temperature resistance and selfextinguishable. All the materials are according to the European Directive 2002/95/EC RoHS (Restriction of the use of certain hazardous substances in electrical material).

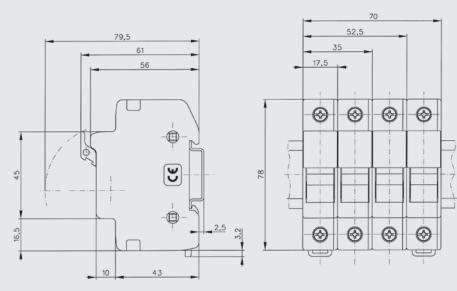
www.df-sa.es/photovoltaic/fuseholders/

	POLES	MODULES	REFERENCE	DESCRIPTION	I _N (A)	U (V DC)	PACKING Uni./BOX
WITHOUT	I	I	481033	SINGLE-POLE	32	1000	12/192
	2	2	481233	TWO-POLES	32	1000	6/96
WITH INDICATOR	I	I	481033 I	SINGLE-POLE	32	1000	12/192
	2	2	481233 I	TW0-POLES	32	1000	6/96





FUSE HOLDERS FOR PHOTOVOLTAIC APPLICATIONS





10x38

PHOTOVOLTAIC FUSE BASES





250A

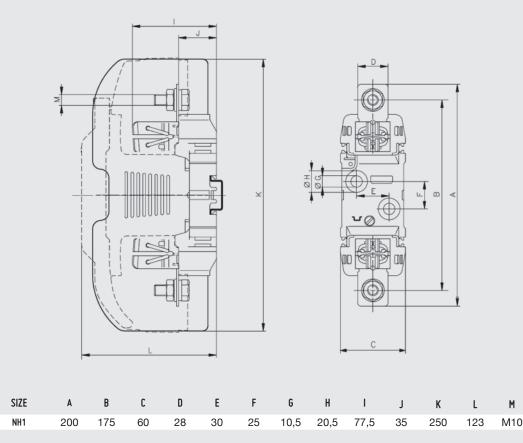
NH FUSE BASES FOR PHOTOVOLTAIC APPLICATIONS

Fuse bases for NH fuse-links. Manufactured with a high quality materials. Silver plated copper contacts. Plastic materials with high temperature resistance and self-extinguishable. All the materials are according to the European Directive 2002/95/EC RoHS. For DIN rail mounting or with screw fixing. Single-phase type. Connection by screws. Contacts with double spring in order to obtain an optimum operation. Wide range of accessories that enables IP20 protection index: contact covers, fuse link covers and partition walls. Multi-pole units can be made with connection accessories. Manufactured according IEC, VDE and DIN stan-dards.

www.df-sa.es/photovoltaic/fusebases/

	DESCRIPTION	REFERENCE	U (V DC)	PACKING	1 Des
	SINGLE POLE				
NH1	DIN RAIL-SCREW FIXING / SCREW CONNECTION	354170	1000	3	. .
250A					1.
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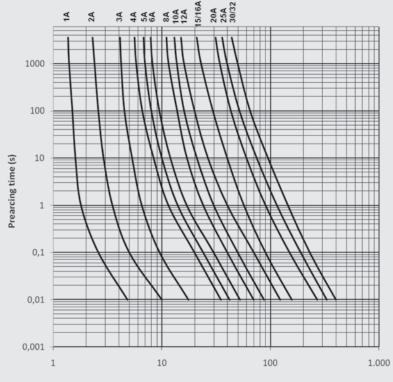






gPV





Prospective current (A rms)

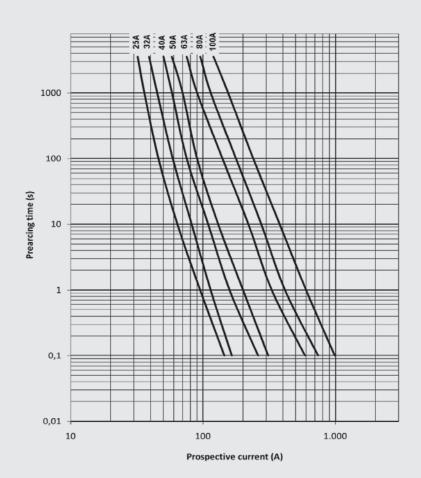
RATED CURRENT	REFER	RENCE		I SSIPATION 10,7 ln)	Power di (W (a		PREARC		OPERAT (A ⁱ	ring I²t
	1000V DC	600V DC	1000V DC	600V DC	1000V DC	600V DC	1000V DC	600V DC	1000V DC	600V DC
1	491601	491901	0,31	0,31	0,76	0,76	0,35	0,35	1,3	0,8
2	491602	491902	0,62	0,62	1,54	1,54	1,78	1,78	6,5	3,9
3	491604	491904	0,54	0,54	1,35	1,35	9,0	9,0	33	19,6
4	491605	491905	0,73	0,73	1,84	1,84	3,0	3,0	11	6,6
5	491606	491906	0,93	0,93	2,22	2,22	4,4	4,4	13	9,6
6	491610	491910	0,96	0,96	2,40	2,40	8,5	8,5	32	18,8
8	491615	491915	1,02	1,02	2,55	2,55	25	25	93	55,0
10	491620	491920	1,03	1,03	2,58	2,58	11	11	52	27,9
12	491625	491925	1,04	1,04	2,60	2,60	25	25	116	62,8
15	491629	491929	1,07	1,07	2,44	2,44	25	25	116	82,8
16	491630	491930	1,08	1,08	2,70	2,70	33	33	152	82,8
20	491635	491935	1,16	1,16	2,90	2,90	85	85	390	212
25	-	491940	_	1,10	_	2,74	_	280	_	460
30	-	491944	-	1,70	-	4,00	-	400	-	650
32	-	491945	-	1,76	_	4,40	-	400	-	650





GPV FUSE-LINKS FOR PHOTOVOLTAIC APPLICATIONS t-I CHARACTERISTICS & POWER DISSIPATION





RATED CURRENT	REFERENCE	POWER DISSIPATION	POWER DISSIPATION	PREARCING I ² t	OPERATING I ² t
(A)		(W @ 0,7 In)	(W (a) In)	(A ² s)	(A ² s)
	1000V DC	1000V DC	1000V DC	1000V DC	1000V DC
25	373210	5,2	12,5	62	94
32	373215	6,3	15,5	122	184
40	373225	6,7	16,6	302	454
50	373230	7,5	18	562	844
63	373235	8,2	20	1210	1815
80	373240	10	27	2250	3375
100	373245	11	28	4000	6000



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