












PHOTOVOLTAIC FUSE-LINKS



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 above 800V DC are reached. Also meet the requirements for instruments (multimeters) and traction equipment auxiliary circuits. The range comprises 10x38 & 14x51 fuse-links with rated currents between 1A and 20A. Rated voltage is 600 V DC or 1000V 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 PMX 1000V fuse holders in single pole version or two-pole version.

10x38	I_n (A)	REFERENCE	BREAKING CAPACITY (kA)	PACKING Uni./BOX
1000V DC	1	491601	30	10/100
	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
	600V DC	1	491901	30
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	
14x51	15	491647	10	10/50
	20	491648	10	10/50
1100V DC	15	491647	10	10/50
	20	491648	10	10/50
1000V DC	25	491650	30	10/50
	32	491655	30	10/50



STANDARDS
IEC 60269-1
IEC 60269-6
UL 2579

APPROVALS



TECHNICAL
t-I CHARACTERISTICS

PAGE 13

TECHNICAL
AMBIENT TEMPERATURE
DERATING FACTOR

PAGE 16

COMPATIBLE
PV FUSE HOLDERS FOR
PHOTOVOLTAIC
APPLICATIONS

PAGE 08

COMPATIBLE
CLIP CONTACT FOR ϕ 10
FUSE-LINKS

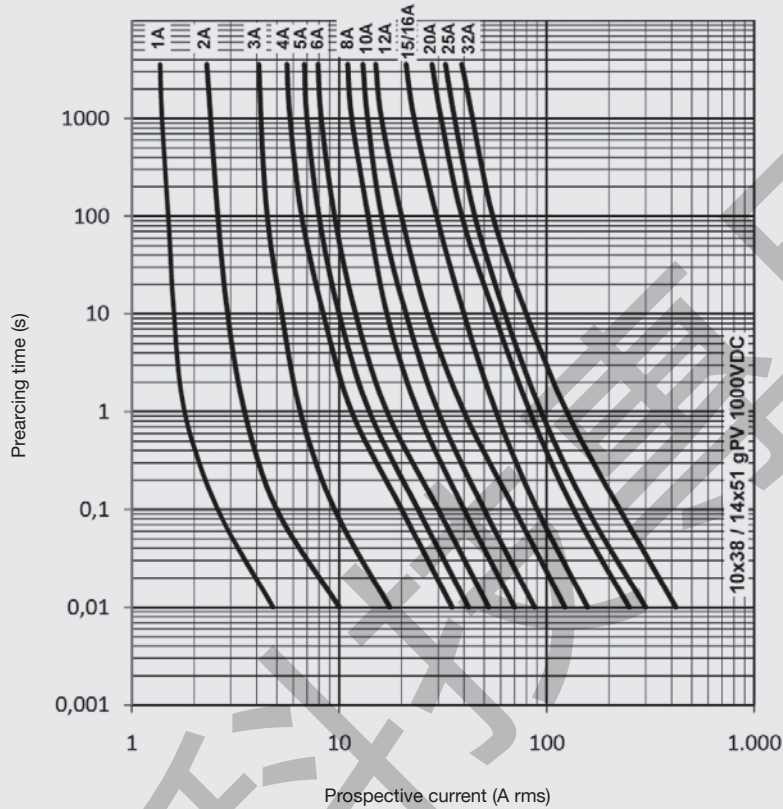
PAGE 10

PHOTOVOLTAIC FUSE-LINKS

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

10x38

14x51



RATED CURRENT (A)	REFERENCE		POWER DISSIPATION (W @ 0,7 In)		POWER DISSIPATION (W @ In)		PREARcing I ² t (A ² s)		OPERATING I ² t (A ² s)	
	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	0,78	0,62	1,45	1,54	0,62	1,78	1,0	3,9
3	491604	491904	0,66	0,54	1,66	1,35	1,9	9,0	3,1	19,6
4	491605	491905	0,64	0,73	1,57	1,84	6,9	3,0	11	6,6
5	491606	491906	0,60	0,93	1,65	2,22	14	4,4	22	9,6
6	491610	491910	0,76	0,96	1,84	2,40	24	8,5	38	18,8
8	491615	491915	0,80	1,02	1,92	2,55	62	25	99	55,0
10	491620	491920	0,94	1,03	2,2	2,58	10	11	48	27,9
12	491625	491925	0,98	1,04	2,4	2,60	18	25	94	62,8
15	491629	491929	1,0	1,07	2,6	2,44	46	25	110	82,8
16	491630	491930	1,1	1,08	2,7	2,70	46	33	110	82,8
20	491635	491935	1,2	1,16	2,9	2,90	118	85	282	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
15	491647*	-	1,34	-	3,14	-	48	-	112	-
20	491648*	-	1,55	-	3,68	-	99	-	367	-
25	491650	-	1,6	-	3,8	-	275	-	650	-
32	491655	-	2,0	-	4,7	-	550	-	1300	-

* 1100V DC

PHOTOVOLTAIC FUSE-LINKS

TECHNICAL
gPV

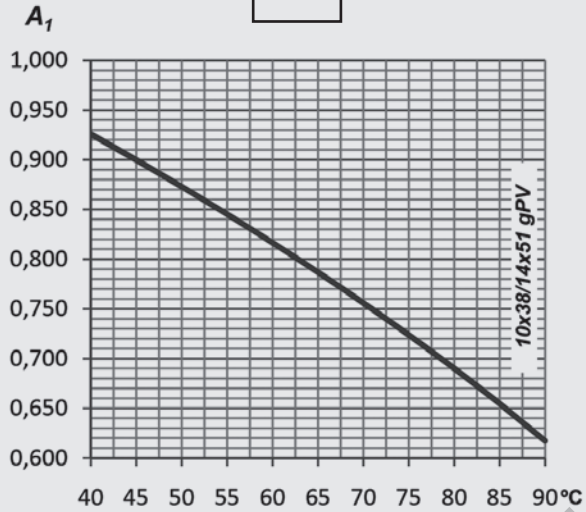
FUSE-LINKS FOR PHOTOVOLTAIC APPLICATIONS AMBIENT TEMPERATURE DERATING FACTOR

10x38
14x51

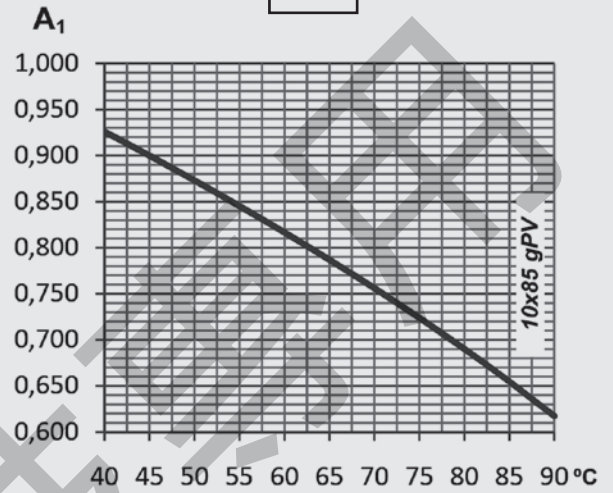
10x85

NH1
NH2
NH3

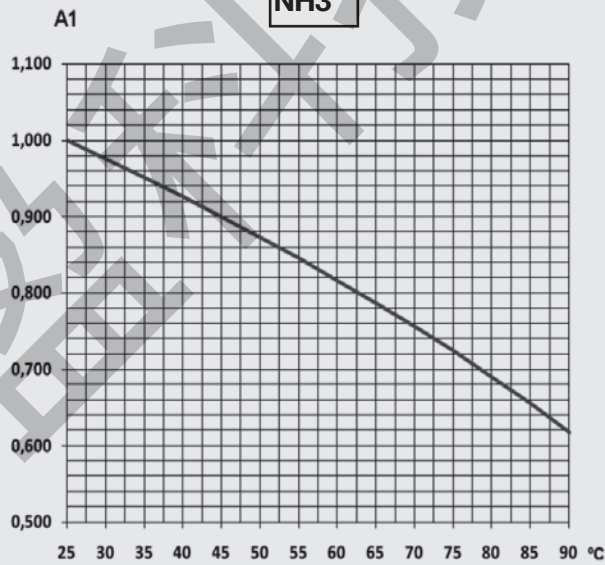
10x38
14x51



10x85



NH1
NH2
NH3



ta A1
(°C)

40	0,92
45	0,90
50	0,87
55	0,85
60	0,82
65	0,79
70	0,76
75	0,72
80	0,69