

SPECIAL FUSES NH BATTERY PROTECTION FUSE-LINKS



NH BATTERY PROTECTION FUSE-LINKS

The use of batteries is growing due to the utilization in renewable installations. These batteries shall be appropriately protected against overcurrents that could shorten its life, specially against short-circuits, that shall be interrupted in a very short time. Against overcurrents, that could shorten its line, specially against short coreates, this could be made and short-circuits, thus the NH BATTERY fuse-links from DF Electric are capable to clearing all types of overcurrents, overloads and short-circuits, thus the 550V fuse-links protect the batteries as well as cables and all switchgear of installation.These fuse-links are designed and manufactured with the same techniques that semiconductor fuse-links, which makes them very fast of operation and gives a good performance under continuous charge / discharge cycles. They are optimized to have reduced power dissipations that allow the utilization of a wide range of fuse-bases, disconnectors and fuse-switch-disconnectors. NH BATTERY fuse-links range comprise five sizes NH000, NH00, NH1, NH2 and NH3 with rated currents between 20A and 630A, with working voltages up to 440 V DC

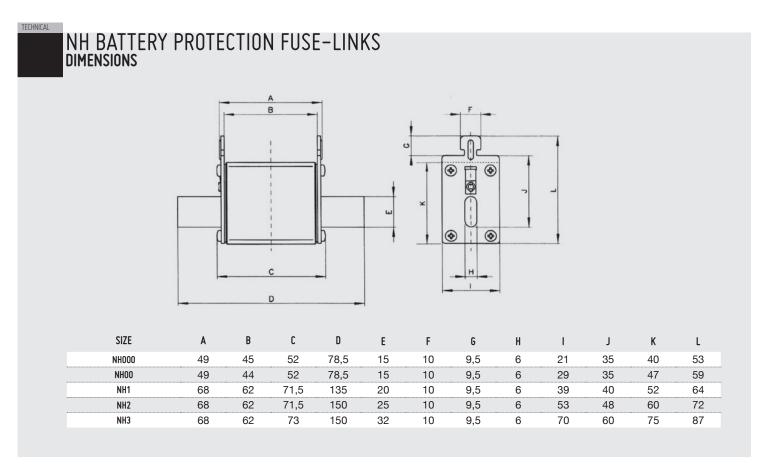
	In (A)	REFERENCE	U (V DC)	BREAKING CAPACITY (ka DC)	PACKING Uni./B0X
VH000	20	370025	440	30	3/90
	25	370030	440	30	3/90
	32	370035	440	30	3/90
	40	370045	440	30	3/90
	50	370050	440	30	3/90
	63	370055	440	30	3/90
*********	80	370060	440	30	3/90
***************************************	100	370065	440	30	3/90
IH00	125	370070	440	30	3/60
	160	370075	440	30	3/60
NH1	200	370260	550	30	1/30
	250	370270	550	30	1/30
	280	370273	550	30	1/30
H2	315	370370	550	30	1/20
	355	370375	550	30	1/20
	400	370380	550	30	1/20
	450	370387	550	30	1/20
⊔o □	500	070405	550	00	1/15
H3	500	370465	550	30	1/15



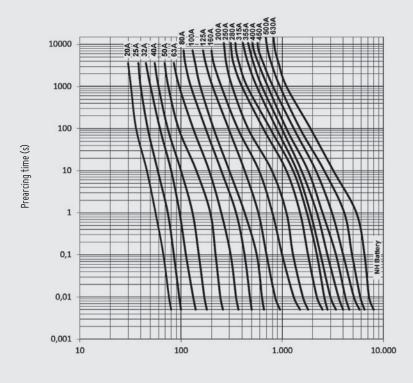
500	370465	550	30	1/15
630	370470	550	30	1/15

SPECIAL FUSES NH BATTERY PROTECTION FUSE-LINKS





NH BATTERY PROTECTION FUSE-LINKS t-I CHARACTERISTICS



Prospective current (A ef)

SPECIAL FUSES FUSE-LINKS FOR MULTIMETERS



1000V AC/DC

FUSE-LINKS FOR MULTIMETERS

DMM fuse links are specially designed for the protection of multimeters. They have fast acting characteristics and are available in two rated currents: 0,44A (440 mA) and 11A. Intended to carry 100% of rated current continuously. Maximum working voltage is 1000V AC/DC.

	In (A)	REFERENCE	BREAKING CAPACITY (ka)	PACKING Uni./B0X
10x35	0,44	416005	30	10

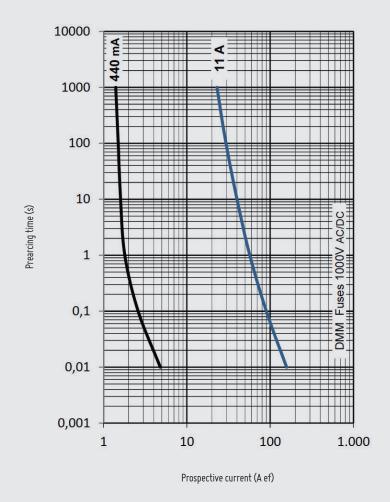


1	0x38
ı	

11 **416010** 30 10



FUSE-LINKS FOR MULTIMETERS t-I CHARACTERISTICS



SPECIAL FUSES MV FUSE-LINKS FOR PUBLIC LIGHTING



MV FUSE-LINKS FOR PUBLIC LIGHTING

Supply of public lighting systems in urban streets, roads, tunnels and motorways in low voltage cause some problems with voltage drop and high energy losses that lead to the utilization of high cross section of conductors when lines are very long. To avoid these invonveniences, supply networks at higher voltages are usually used (between 900V and 5500V AC) by means of special transformers designed for this purpose that increase the voltage for transportation and reduce it in the destination at adequate levels. These distribution networks allow energy transportation at very high distances with installations more economic and efficient.

For protection of these networks in the **medium voltage(MV)** side it is necessary to use fuse links with adequate rated voltages. MV cylindrical fuse links range lighting applications from DF ELECTRIC comprise three sizes with dimensions 10x85, 10x150 and 10x180 mm, with rated currents between 2A and 12A, and rated voltages of 1500V AC, 2500v AC, 3200V AC and 5500V AC. They have a **g breaking range** (protection against overload and short-circuits) and are made with ceramic tubes having high breaking capacity and good withstand against thermal chock. Contacts are made in silver plated copper.

	In (A)	REFERENCE	BREAKING CAPACITY (kA)	PACKING Uni./BOX	
10x85	2	415005	20	4/24	
-	3,15	415010	20	4/24	
	4	415015	20	4/24	ech was
1500V	5	415020	20	4/24	off was
1500V AC	6,3	415025	20	4/24	The state of the s
	8	415030	20	4/24	9
	10	415035	20	4/24	वर्ष करण
	12	415040	20	4/24	307
					fr
10x150	2	415105	15	4/24	
	3,15	415110	15	4/24	
	4	415115	15	4/24	
2500V	5	415120	15	4/24	of 18x 193
2500V AC	6,3	415125	15	4/24	190 at 150 at 15
	8	415130	15	4/24	
	10	415135	15	4/24	
	12	415140	15	4/24	
					active in
10x180	2	415205	15	4/24	
	2,5	415210	15	4/24	1 Sa
	3,15	415215	15	4/24	
3200V	4	415220	15	4/24	
3200V AC	5	415225	15	4/24	
	6,3	415230	15	4/24	
	8	415235	15	4/24	£ 19
	10	415240	15	4/24	edf: 10 x 100 j
***************************************	12	415245	15	4/24	N N

10

10

10

10

4/24

4/24

4/24

4/24



2

2,5

3,15

4

10x180

5500V AC



415305

415310

415315

415320

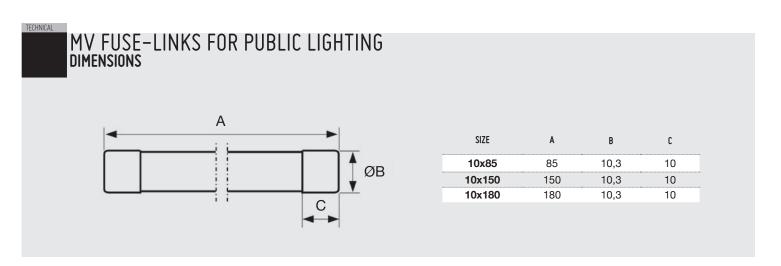
SPECIAL FUSES MV FUSE-LINKS FOR PUBLIC LIGHTING

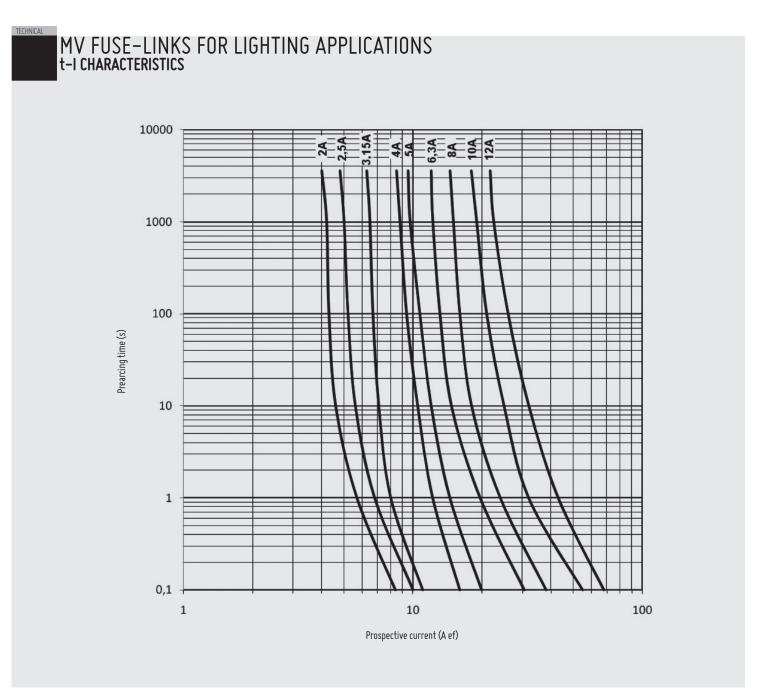


MV FU TECHNIC	USE-LINKS FO Cal data	OR PUBLIC LIGHT	ING		
	In	I ² t Prearcing	Operating I ² t	Power loss 0.8 · In	Power loss In
		(A ² S)	(A ² S)	(W)	(W)
	(A)	(A 3)	(A 3)	(₩)	(**)
10x85	2	2,5	3,3	0,9	1,6
	3,15	8,8	12	1,1	2,1
	4	23	31	1,2	2,2
1500V AC	5	31	41	1,7	3,0
AC	6,3	63	85	2,2	3,3
	8	141	190	2,1	3,8
	10	235	316	2,5	4,6
	12	253	340	3,5	6,4
10x150	2	2,5	3,9	1,6	2,7
	3,15	8,8	14	2,1	3,6
_	4	23	36	2,1	4,0
2500V	5	31	48	2,9	5,3
2500V AC	6,3	63	100	4,0	6,0
<u></u>	8	141	222	3,6	6,5
	10	275	433	4,2	7,8
********	12	314	494	5,9	11,1
10x180	0	0.5	4.4	1.7	2.0
	2	2,5	7.1	1,7	3,0
	2,5	4,0	7,1	2,3	4,0
3200V	3,15 4	8,8 23	16 42	2,5 2,6	4,3 4,6
AC	5	31	55	3,6	6,6
	6,3	63	114	4,8	7,2
	8	141	254	5,8	8,2
	10	275	495	5,0	9,1
	12	314	565	7,1	13
10x180	2	2,5	7	1,7	3,0
	2,5	4,0	11	2,3	4,0
	3,15	8,8	25	2,5	4,3
5500V AC	4	23	65	2,6	4,6

SPECIAL FUSES MV FUSE-LINKS FOR PUBLIC LIGHTING









www.df-sa.es/special-fuses