

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES



aM CYLINDRICAL fuse links

CYL 14x51



8x32



10x38



14x51



22x58

PROTECTING THE WORLD





14x51

RATED VOLTAGE
690V AC
500V AC
400V AC

RATED CURRENT
0,25A...50A

BREAKING CAPACITY
80kA @ 690V
120kA @ 500V/400V

STANDARDS
IEC/EN 60269-1
IEC/EN 60269-2



Industrial cylindrical fuse links

Cylindrical industrial aM class fuse links are intended for short-circuit protection in motors, transformers and other loads with high inrush currents. Provide excellent protection of switchgear (contactors, thermal switch, etc) due to good current limiting capability and low I²t values.

These fuse links must be associated with an overload device protection as a thermal switch or equivalent.

The range comprises the following fuse links:

→ Size 14x51 690V/500V/400V 0,25A to 50A

Available in standard version and with visual fusing indicator. Also available in striker version intended for use in fuse holders with microswitch.

Manufactured with ceramic body with high withstand to internal pressure and thermal shock, that allow a high breaking capacity. Special design in the melting elements that avoid aging and maintain the characteristics along the time. Contacts are made in silver plated copper.



Range

Un	BREAKING CAPACITY	In (A)	REFERENCE	
			WITHOUT INDICATOR	WITH INDICATOR
690V	80kA	0,25	441031	-
		0,50	441002	-
		1	441001	441101
		2	441002	441102
		4	441004	441104
		6	441006	441106
		8	441008	441108
		10	441010	441110
		12	441012	441112
		16	441016	441116
		20	441020	441120
		25	441025	441125
500V	120kA	32	441032	441132
		40	441040	441140
		45	441045	441145
400V	120kA	50	441050	441150

Un	BREAKING CAPACITY	In (A)	REFERENCE	PACKING Uni /BOX
			WITH STRIKER	
500V	120kA	0,25	-	10/50
		0,50	-	10/50
		1	441201	10/50
		2	441202	10/50
		4	441204	10/50
		6	441206	10/50
		8	441208	10/50
		10	441210	10/50
		12	441212	10/50
		16	441216	10/50
		20	441220	10/50
		25	441225	10/50
400V	120kA	32	441232	10/50
		40	441240	10/50
		45	441245	10/50
400V	120kA	50	441250	10/50



Technical data

Rated voltage	690V +5% 500V +10% 400V +10%
Rated current	0,25A...50A
Rated breaking capacity	80kA @690V 120kA @500V/400V
Utilization category	aM
Rated frequency	42...62Hz
Storage temperature	-40°C ... 90°C
Operating temperature *	-40°C ... 80°C

* For ambient temperatures higher than 25°C it is necessary to apply a derating in maximum current.

Standards

IEC/EN 60269-1
IEC/EN 60269-2
RoHS Compliant

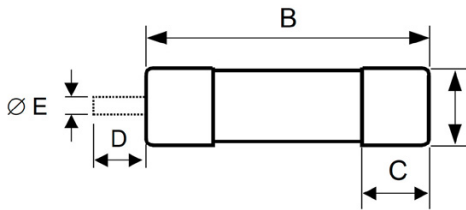


Power dissipation

I _n (A)	POWER DISSIPATION (W)	PREARcing I ² t (A ² S)	I ² t 690V (A ² S)	I ² t 500V (A ² S)	I ² t 400V (A ² S)
0,25	0,41	4,0	15,0	-	-
0,5	0,69	6,5	22,0	-	-
1	0,14	9,5	30,0	21,9	-
2	0,24	40	140	99	-
4	0,45	90	300	215	-
6	0,42	120	425	300	-
8	0,70	220	750	535	-
10	0,53	300	1400	916	-
12	0,88	380	1800	1173	-
16	1,16	550	3500	2103	-
20	1,23	950	5000	3165	-
25	1,46	1300	8000	4851	-
32	2,04	2500	-	7791	-
40	2,60	4500	-	13263	-
45	2,85	8000	-	19831	-
50	2,90	10000	-	-	19626

Only for STRIKER range

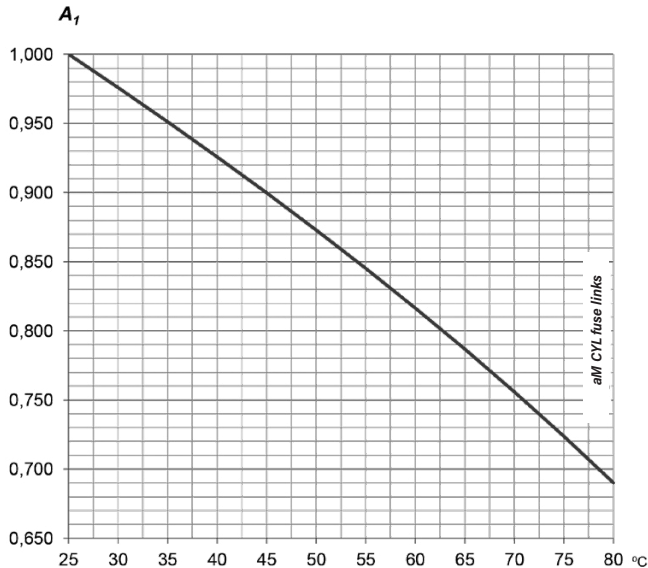
Dimensions



A	B	C	D	E
14,3	51	13	8	3,7

Weight 18gr

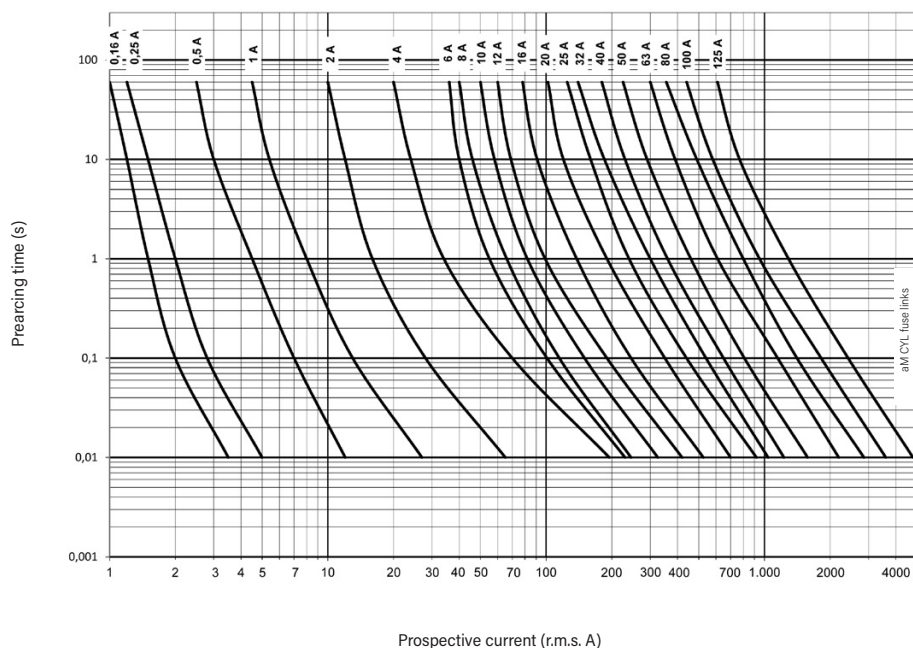
Ambient temperature derating factor



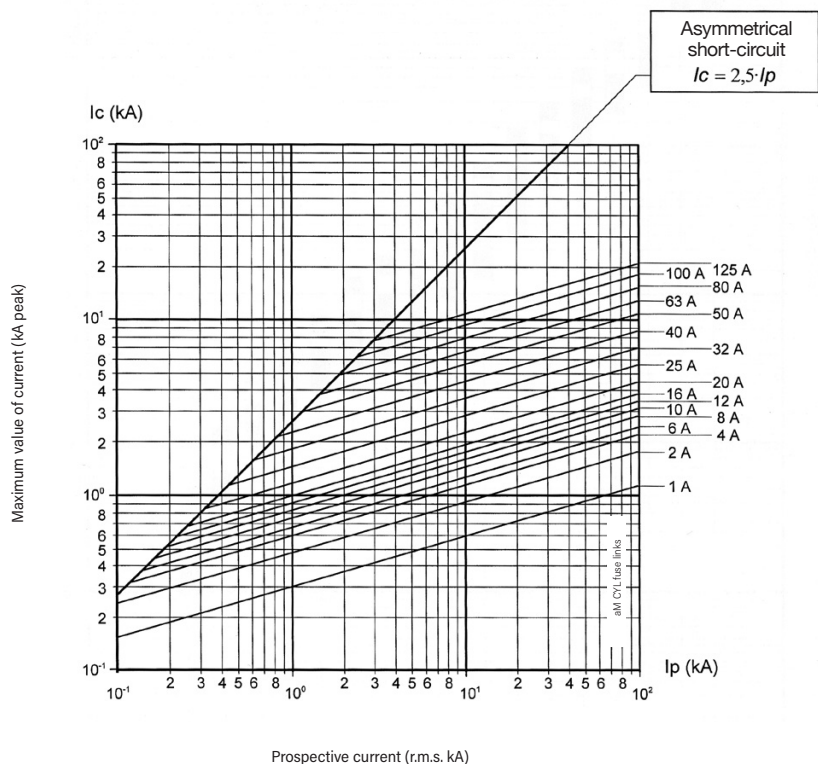
ta (°C)	A1
25	1,00
30	0,98
35	0,95
40	0,93
45	0,90
50	0,87
55	0,84
60	0,82
65	0,79
70	0,76
75	0,72
80	0,69

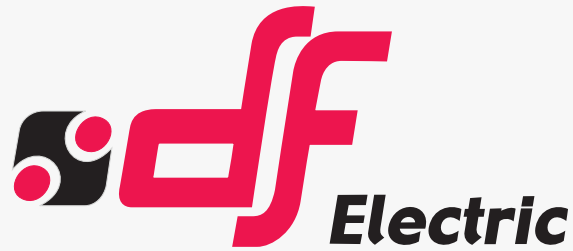


t-I characteristics



Cut-off characteristics





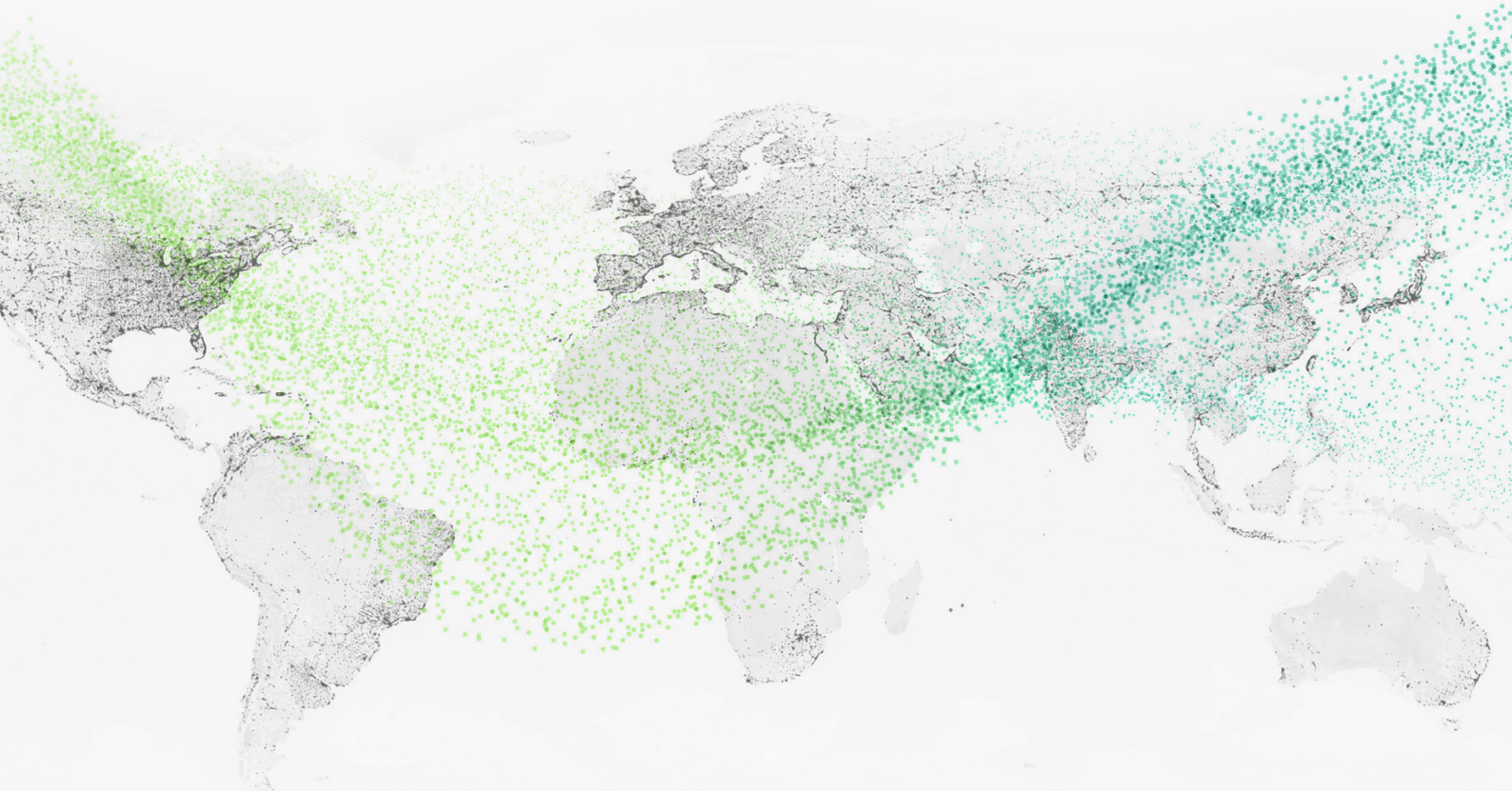
PROTECTING THE WORLD



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According to the waste of electrical and electronic equipment directive, electrical material should not be part of the usual waste. This symbol alerts users that these products should be recycled according to local environmental waste disposal regulations.



The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.



To prevent electrical hazards, carry out the installation without voltage.



Safety notice
 Please capture the following QR code and read our safety notice carefully before installing our products.



The data reflected in this technical record are subject to the correct installation of the product in accordance with manufacturer's instructions, relevant installation standards and professional practices, maintained and used in applications for which they were made.

The products described in this document have been designed, developed and tested in accordance with specific standard. They are considered components that are integrated as part of installation, machine or equipment. The correct general operation of the referred product is responsibility of the manufacturer of the installation, machine or equipment.

DF ELECTRIC cannot guarantee the characteristics of an installation, machine or equipment that has been designed by a third party. Once a product has been selected, the user must verify that it is appropriate for its application, through the verifications and/or tests that it deems appropriate.

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