

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES



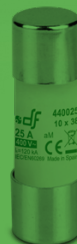
aM CYLINDRICAL fuse links

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 I^2t 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 WITH STRIKER	PACKING Uni /BOX
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
Operating class	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

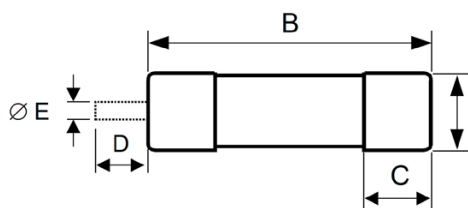
IEC/EN 60269-1
IEC/EN 60269-2
RoHS Compliant



Power dissipation I²t Values

I _n	POWER DISSIPATION	PREARcing I ² t	I ² t 690V	I ² t 500V	I ² t 400V
(A)	(W)	(A ² S)	(A ² S)	(A ² S)	(A ² S)
0,25	0,41	4,0	15	10,4	8,6
0,5	0,69	6,5	22	15,7	13,2
1	0,14	9,5	30	21,9	18,5
2	0,24	40	140	99	83
4	0,45	90	300	215	181
6	0,42	120	425	300	250
8	0,70	220	750	535	448
10	0,53	300	1400	916	733
12	0,88	380	1800	1173	936
16	1,16	550	3500	2103	1608
20	1,23	950	5000	3165	2488
25	1,46	1300	8000	4851	3728
32	2,04	2500	12000	7791	6207
40	2,60	4500	20000	13263	10685
45	2,85	8000	28000	19831	16538
50	2,90	10000	32000	23230	19626

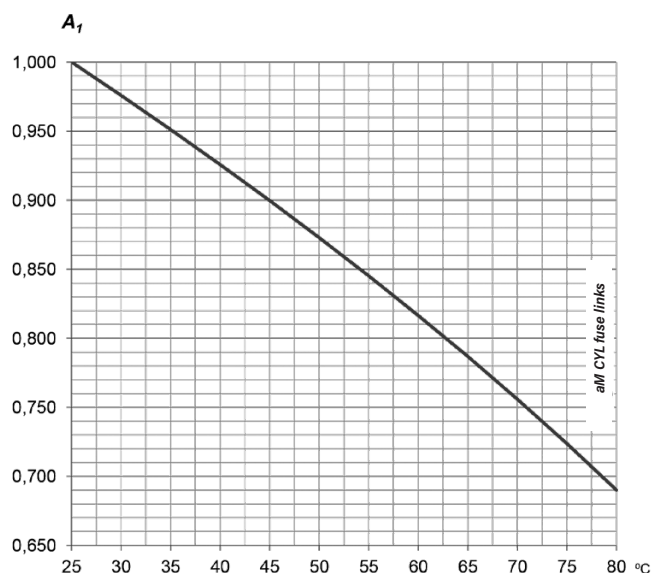
Dimensions



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

Weight 18gr

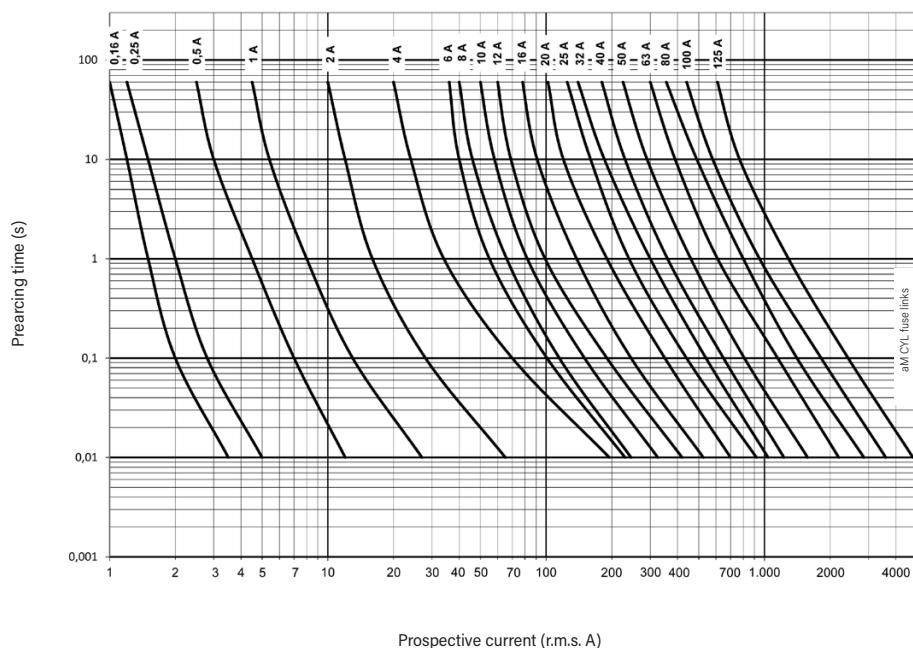
Ambient temperature derating factor



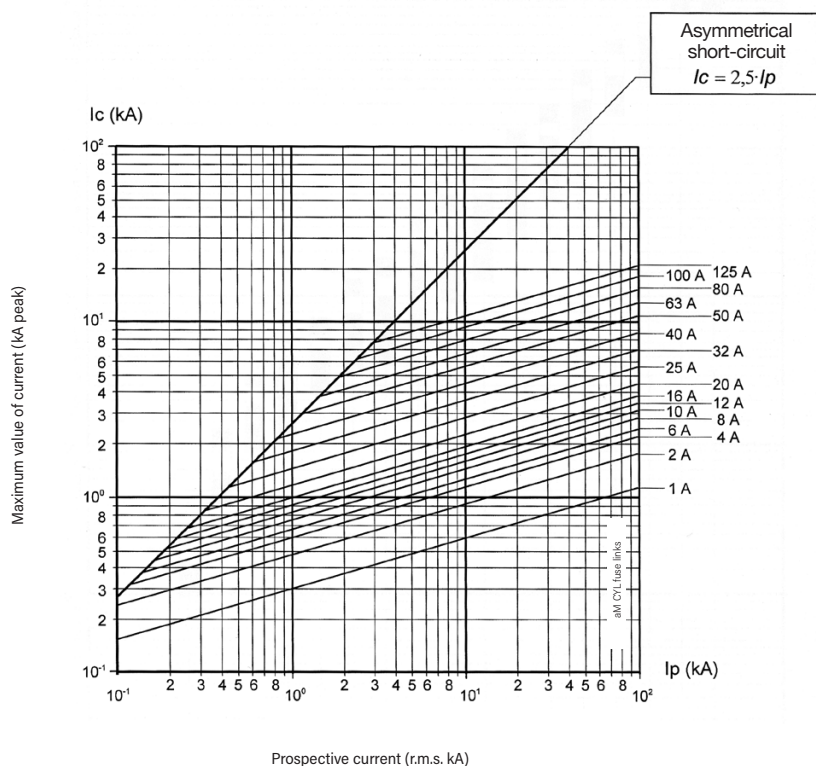
t _a (°C)	A ₁
25	1,00
30	0,98
35	0,95
40	0,93
45	0,90
50	0,87
55	0,84
60	0,82
65	0,79
70	0,76
75	0,72
80	0,69

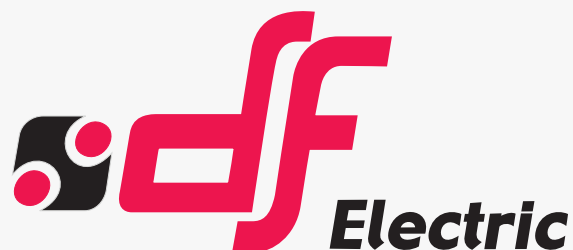


t-I characteristics



Cut-off characteristics





PROTECTING THE WORLD

HEAD OFFICE AND FACTORY

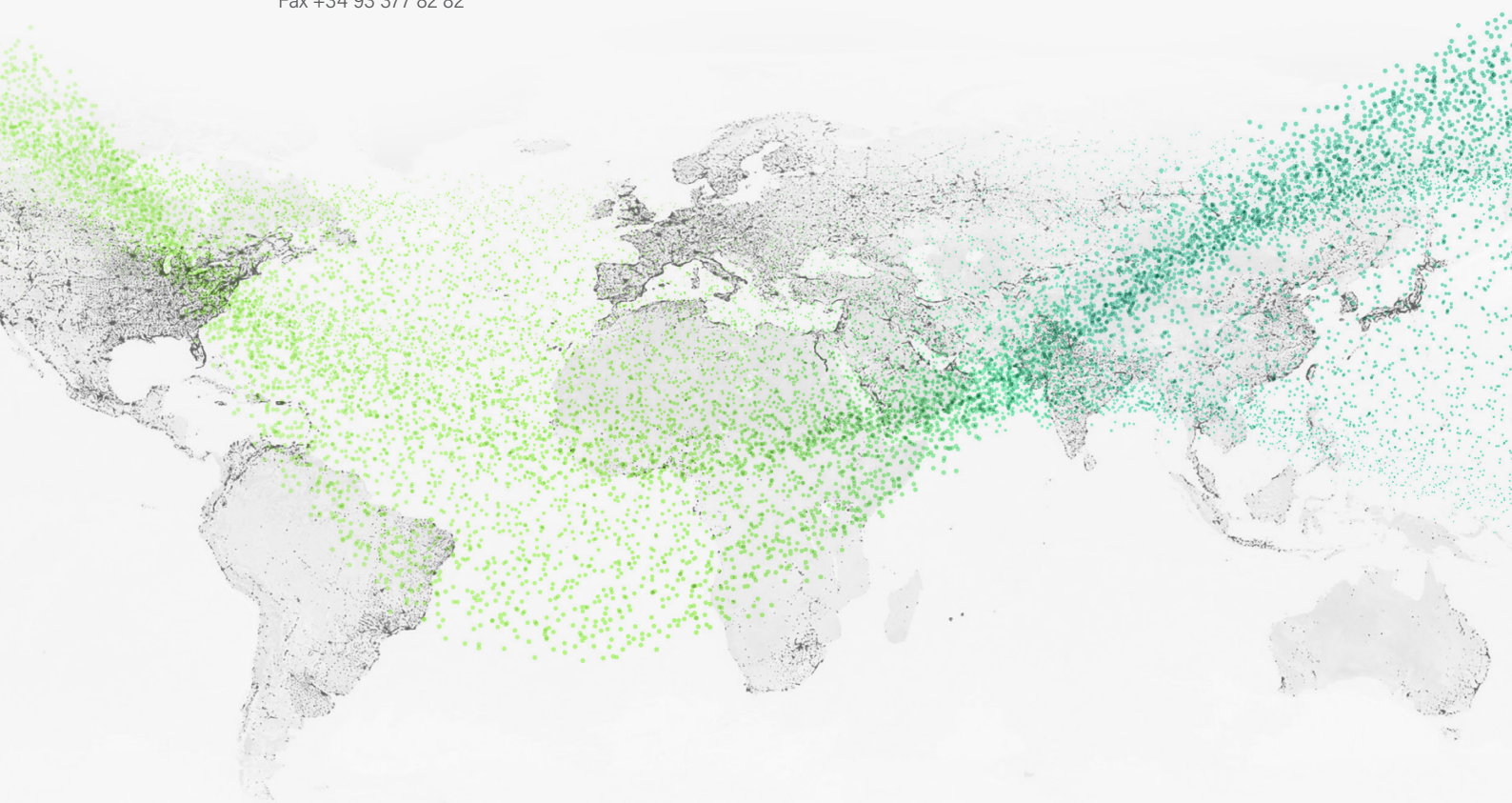
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According to the waste of electrical and electronic equipment directive, electrical material should not be part of the usual waste. This symbol alerts users that these products should be recycled according to local environmental waste disposal regulations.



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.



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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.

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