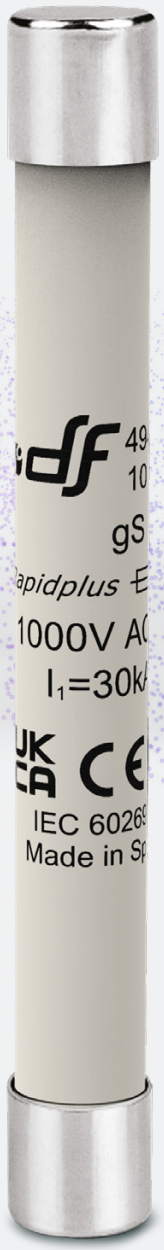
dfelectric

RAPIDPLUS

HIGH SPEED FUSE LINKS FOR SEMICONDUCTORS

Rapidplus®



gS CYLINDRICAL

semiconductor protection
fuse links

CYL 10x85

PROTECTING
THE WORLD

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gS CYLINDRICAL
semiconductor protection fuse links

RAPIDPLUS

Rapidplus®

10x85

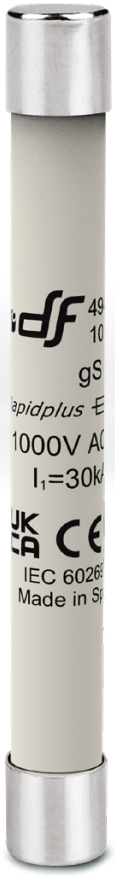
10x85

RATED VOLTAGE
1000V AC/DC

RATED CURRENT
1A...20A

BREAKING CAPACITY
30kA AC
10KA DC

STANDARDS
IEC/EN 60269-1
IEC/EN 60269-4



Rapidplus®
Cylindrical fuse links for semiconductors

RAPIDPLUS CYL 10x85 gS 1.000V fuse links are capable to clearing all types of overcurrents, overloads as well as short-circuits, thus the fuse links protect semiconductors as well as cables and all switchgear of installation.

For this reason there are high speed fuse links for this specific purpose, with very fast melting characteristics, low let-through energy values (I^2t) and adequate selective coordination with protection devices upstream.

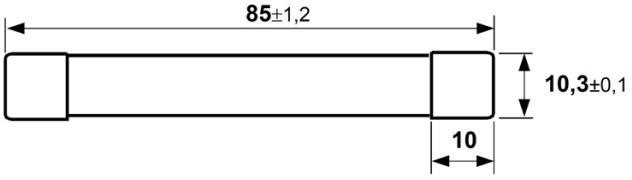
The range comprises the following fuse links:

→ **Size 10x85 1000V AC/DC 1A to 20A**

This product range is mainly intended for the protection of auxiliary circuits in photovoltaic plants with string-type inverters with voltages up to 1.000V AC/DC, although it can be used in any application such as rectifiers, UPS, converters, motor drives, soft starters, solid state relays, welding inverters, etc.

RoHS COMPLIANT

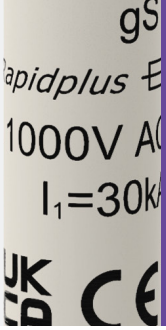
Dimensions



Weight 14gr

Range

In (A)	REFERENCE	PACKING Uni /BOX
1	**494001**	10
2	**494002**	10
3	**494003**	10
4	**494004**	10
5	**494005**	10
6	**494006**	10
8	**494008**	10
10	**494010**	10
12	**494012**	10
16	**494016**	10
20	**494020**	10



gS CYLINDRICAL

semiconductor protection fuse links

10x85

RAPIDPLUS

Rapidplus®

Technical data

Rated voltage	1000V AC/DC +10%
Rated current	1A...20A
Rated breaking capacity	30kA AC 10kA DC
Operating class	gS
Rated frequency	42...62Hz
Storage temperature	-40°C ... 90°C
Operating temperature *	-40°C ... 80°C

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

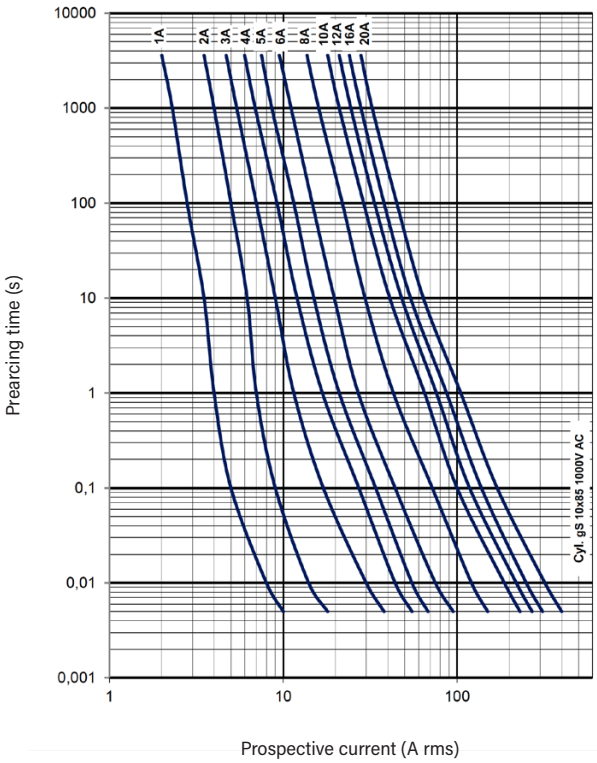
Power dissipation

I_n	POWER DISSIPATION I_n	POWER DISSIPATION $0.8 \cdot I_n$	PREARCING I^2t	I^2t 1000V
(A)	(W)	(W)	(A^2S)	(A^2S)
1	0,75	0,45	0,2	0,42
2	1	0,6	2	4,4
3	1,1	0,65	14	19
4	1,2	0,7	41	56
5	1,3	0,77	80	107
6	1,5	0,89	12	44
8	1,6	0,93	46	176
10	1,7	1	74	240
12	1,8	1,06	145	470
16	3,1	1,82	190	615
20	3,3	1,95	415	1380

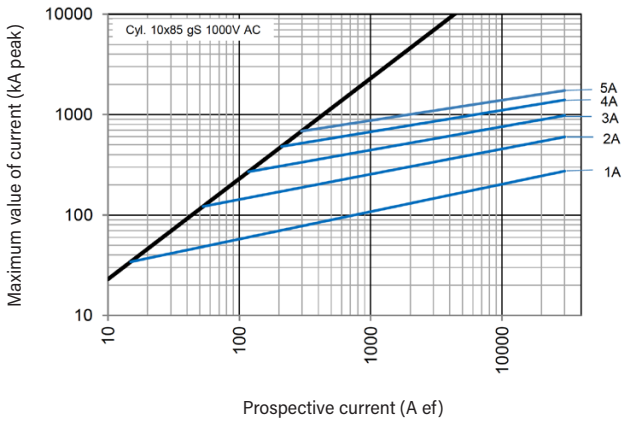
Standards

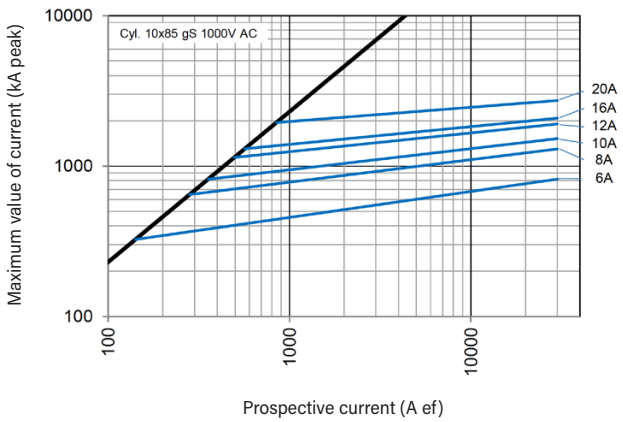
IEC/EN 60269-1
IEC/EN 60269-4
RoHS Compliant

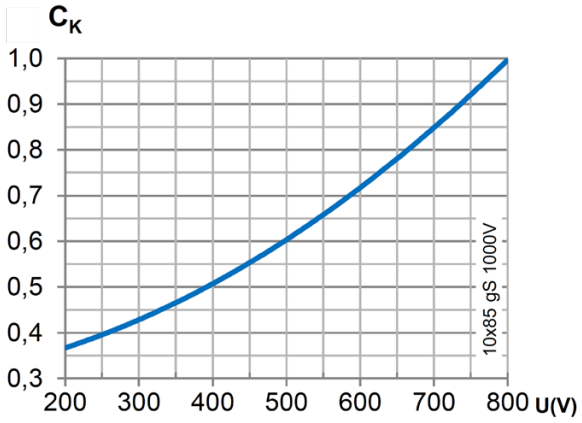
t-I characteristics



Cut-off characteristics



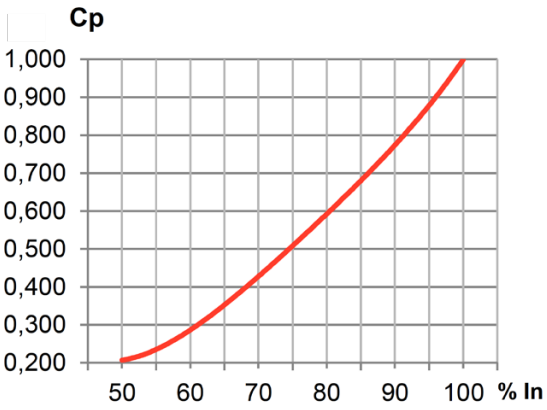




I^2t Correction factor

The total clearing I^2t at rated voltage and at power factor of 0,15 are given in the electrical characteristics.

For other voltages, the clearing I^2t is found by multipliying by correction factor, K.

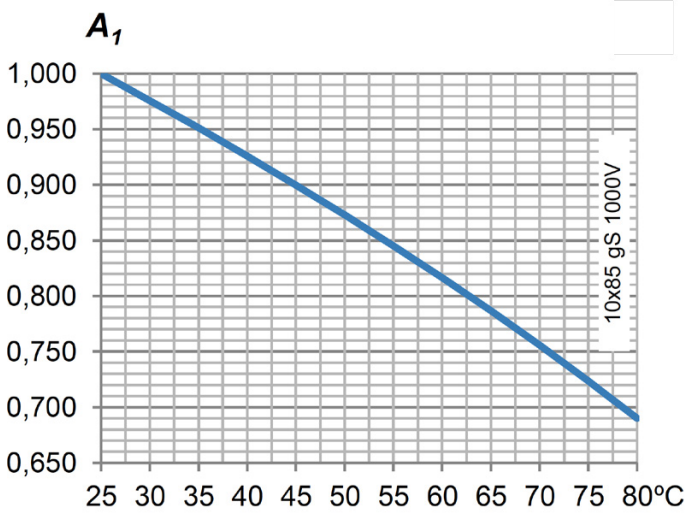


Correction factor for power loss

Watts loss at rated current are given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated value.

The correction factor Cp, is given as a function of the RMS load current Ib in % of the rated current.

Ambient temperature derating factor



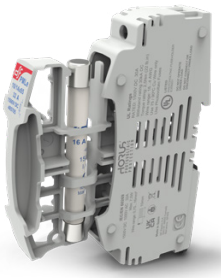
t_a (ºC)	A_1
25	1,00
30	0,98
35	0,95
40	0,93
45	0,90
50	0,87
55	0,84
60	0,82
65	0,79
70	0,76
75	0,72
80	0,69

Compatible

PATENTED DESIGN

PMLe fuse holder

REFERENCE	POLES	MODULE (mm)	PACKING Uni /BOX
485705	1P	22,5	10/100



PROTECTING THE WORLD

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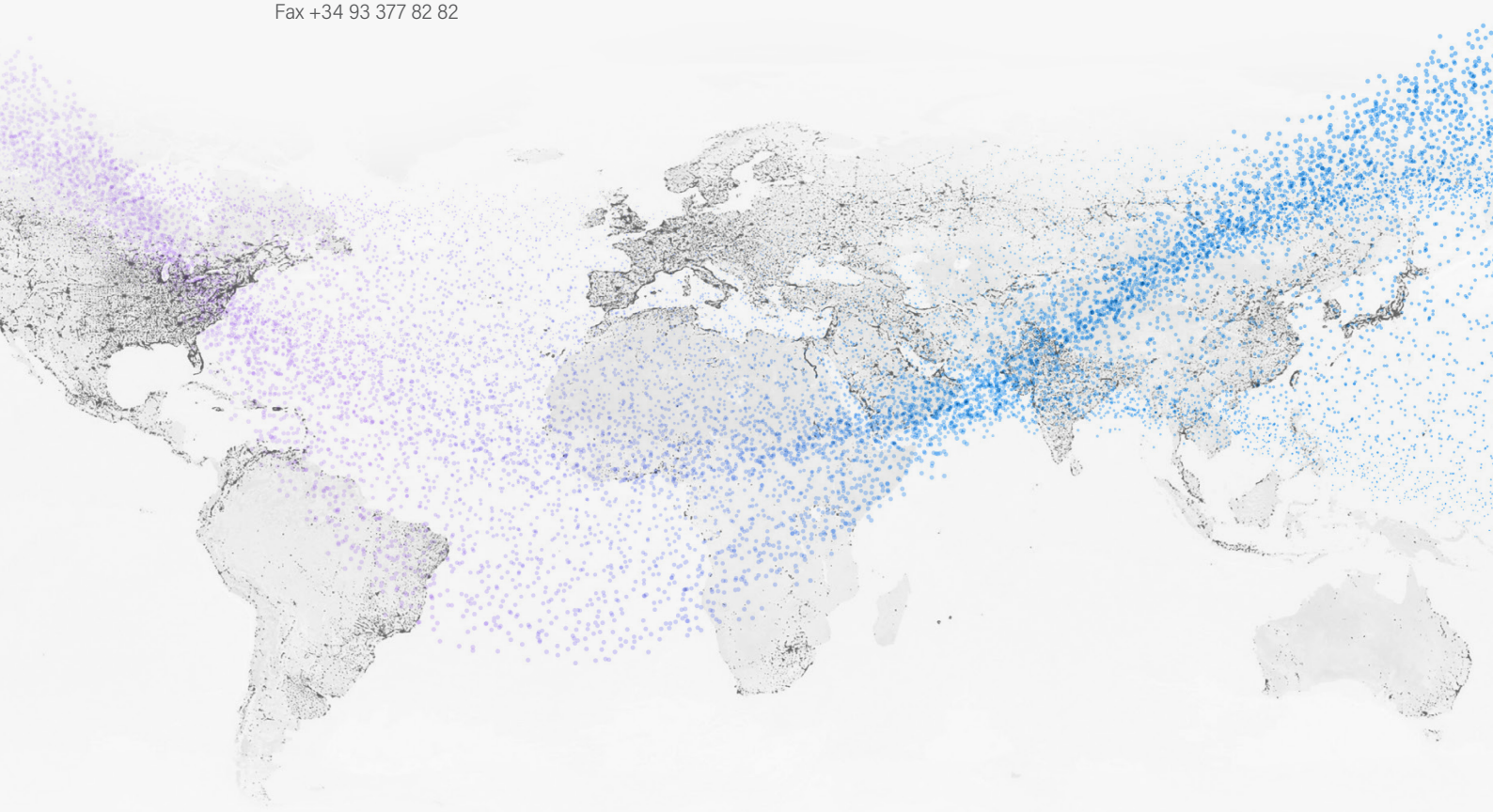

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FABRICADO EN ESPAÑA
MADE IN SPAIN

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.

DF ELECTRIC retains the right to change the dimensions, specifications, materials or design of its products at any time with or without notice.