df Electric

BATTERY STORAGE

CYLINDRICAL BATTERY PROTECTION FUSE LINKS

gBat

CYL 600V DC

fuse links

CYL gBat 14x51

14x51 22x58

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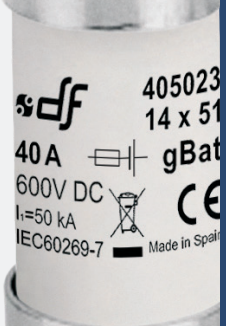
CYL 600V DC
fuse links

14x51



14x51

RATED VOLTAGE
600V DC

RATED CURRENT
2A...40A

BREAKING CAPACITY
50kA

STANDARDS
IEC/EN 60269-1
IEC 60269-7

CYL gBat 600V DC fuse links for battery storage protection

Cylindrical gBat fuse links are specially designed to protect battery systems according to the Standard IEC60269-7.

They are capable to clearing all types of overcurrents, overloads and short-circuits, thus the 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 in case of short-circuit and gives a good performance under continuous charge/ discharge cycles.

They are optimized to have reduced power dissipations that allow the utilization in a wide range of fuse bases, disconnectors and fuse-switch-disconnectors.

→ **Size 14x51 gBat 600V DC 2A to 40A**

They are available in standard version as well as striker versions to be used in fuse bases with microswitch.

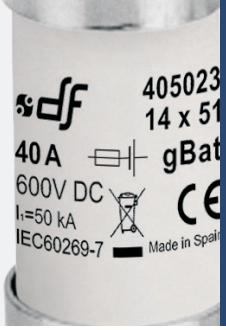
These fuse links can be used also as a protection in other DC applications, but it is very important to take into account the kind of load and the time-constant of circuit in order to have a correct application (consult us).

They are manufactured according to IEC/EN60269 Standards and comply with RoHS directive.

RoHS COMPLIANT

Range

I_n (A)	REFERENCE WITHOUT STRIKER	REFERENCE WITH STRIKER	PACKING Uni /BOX
			
2	**405015**	-	10/50
4	**405016**	-	10/50
6	**405017**	-	10/50
8	**405018**	**405118**	10/50
10	**405019**	**405119**	10/50
12	**405020**	**405120**	10/50
16	**405021**	**405121**	10/50
20	**405022**	**405122**	10/50
25	**405023**	**405123**	10/50
32	**405024**	**405124**	10/50
40	**405025**	**405125**	10/50



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Technical data

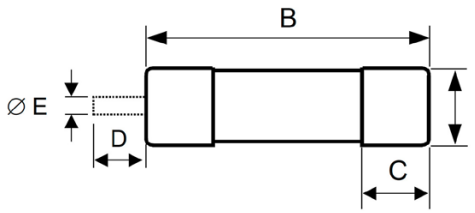
Rated voltage	600V DC L/R ≤ 3ms
Rated current	2A...40A
Rated breaking capacity	50kA
Operating class	gBat
Maximum altitude *	2.000m
Storage temperature	-40°C ... 90°C
Operating temperature **	-40°C ... 80°C

* For altitudes higher than 2.000m it is necessary to apply a derating in maximum current *(consult us)*.
** For ambient temperatures higher than 25ºC it is necessary to apply a derating in maximum current.

Standards

IEC/EN 60269-1
IEC 60269-7
RoHS Compliant

Dimensions



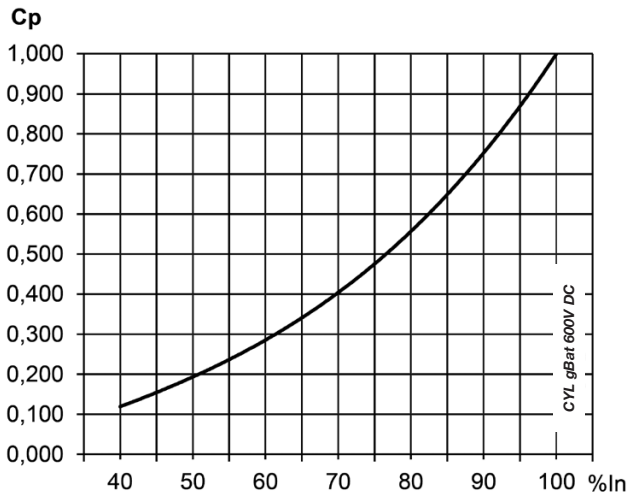
A	B	C	D	E
14,3	51	11,5	8	3,7

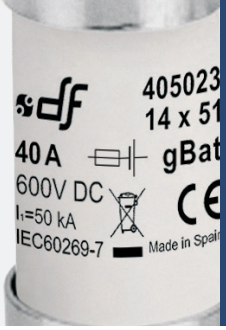
Weight 18gr

Power dissipation

I_n	POWER LOSS $0{,}8 \cdot I_n$	POWER LOSS I_n	PREARCING I^2t	PREARCING I^2t Un
(A)	(W)	(W)	(A^2S)	(A^2S)
2	0,67	1,2	0,2	1,3
4	0,73	1,3	2,4	16
6	0,85	1,5	9	57
8	0,9	1,6	5,1	48
10	1,1	2	7,3	69
12	1,2	2,2	13	112
16	1,5	2,7	19,5	122
20	1,7	3,1	38	210
25	2,1	3,8	63	345
32	2,2	4	153	835
40	3	5,3	253	1380

Correction factor for power loss





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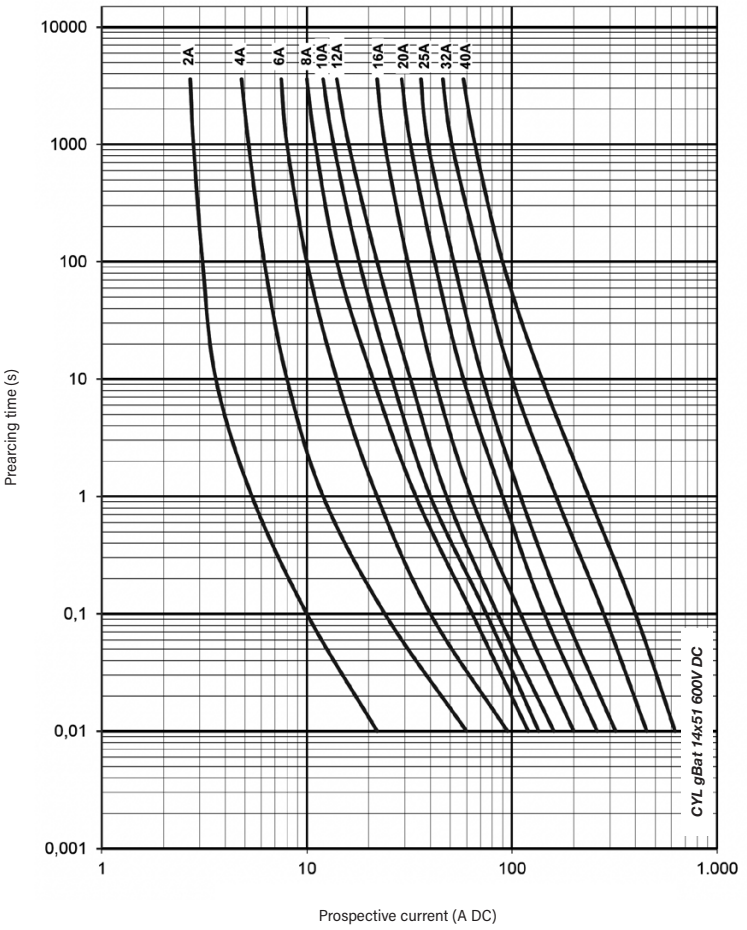
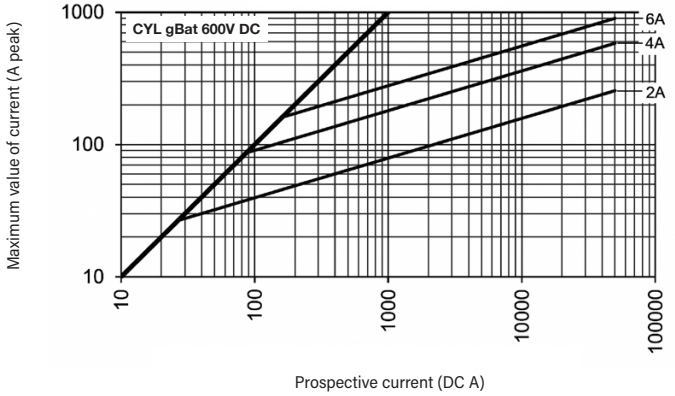
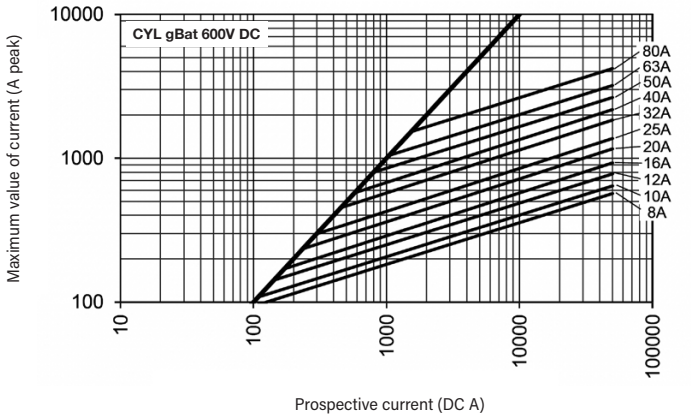
t-I characteristics

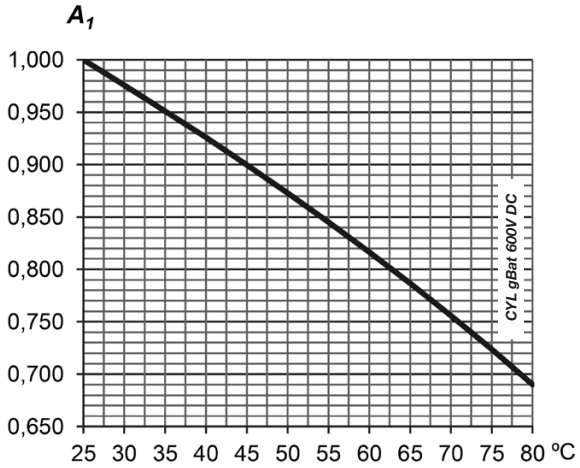


Cut-off characteristics





Ambient temperature derating factor



t_a (°C)	A_1
25	1
30	0,98
35	0,95
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

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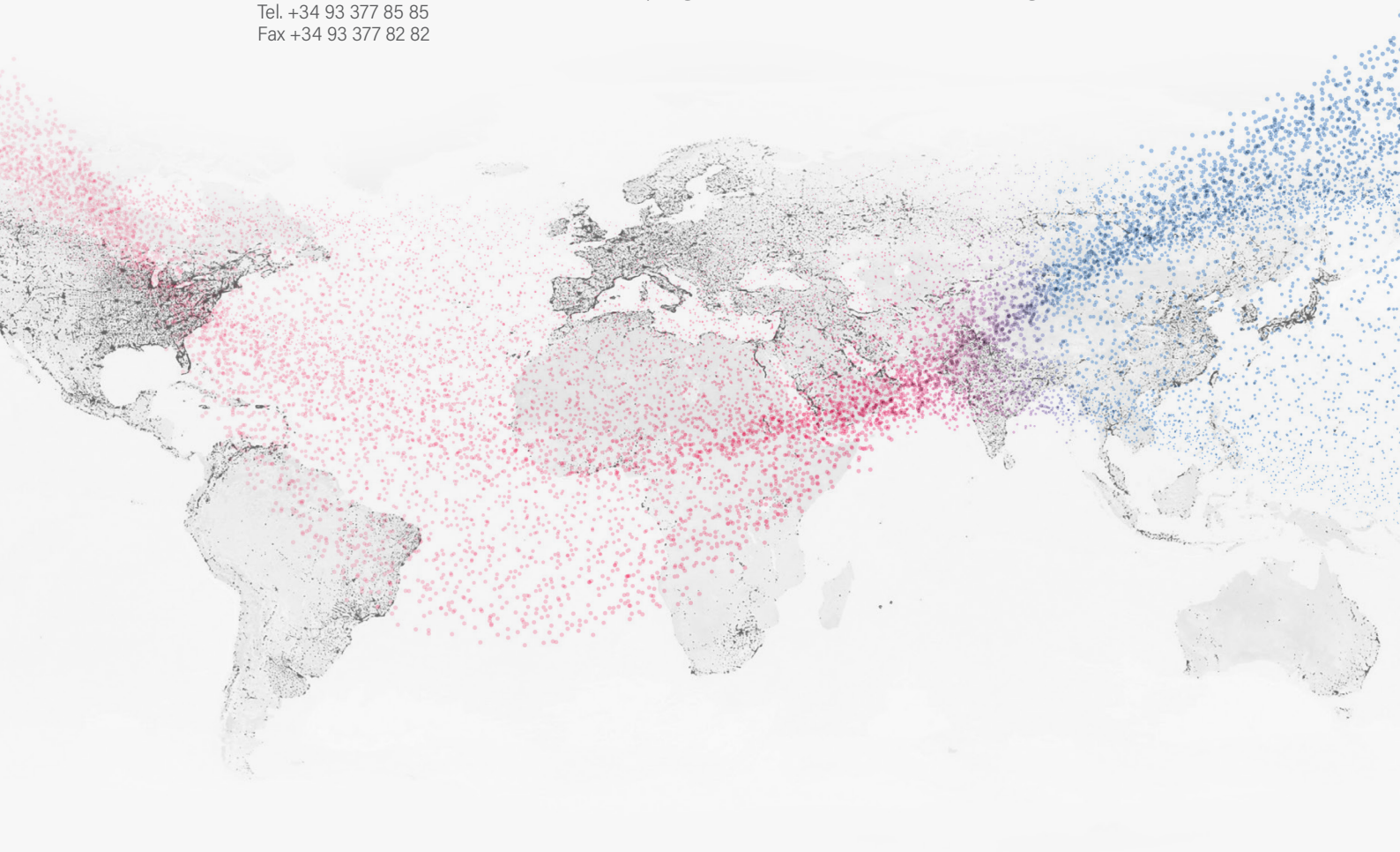

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FABRICADO EN ESPAÑA
MADE IN SPAIN

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.