



gBat

CYL 600V DC

fuse links

CYL

gBat

14x51



14x51



22x58

**PROTECTING
THE WORLD**



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.



Range

I _n (A)	REFERENCE		PACKING Uni /BOX
	WITHOUT STRIKER	WITH STRIKER	
			
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



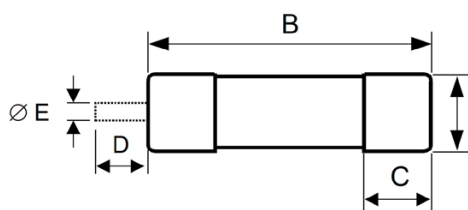
Technical data

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 25°C it is necessary to apply a derating in maximum current.

Dimensions



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

Weight 18gr

Standards

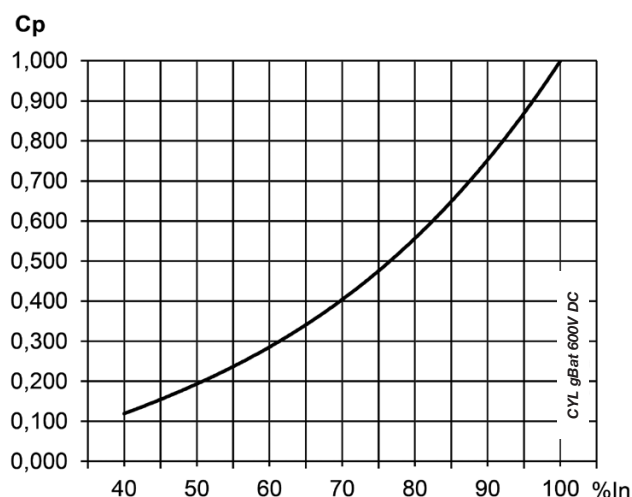
IEC/EN 60269-1
IEC 60269-7
RoHS Compliant



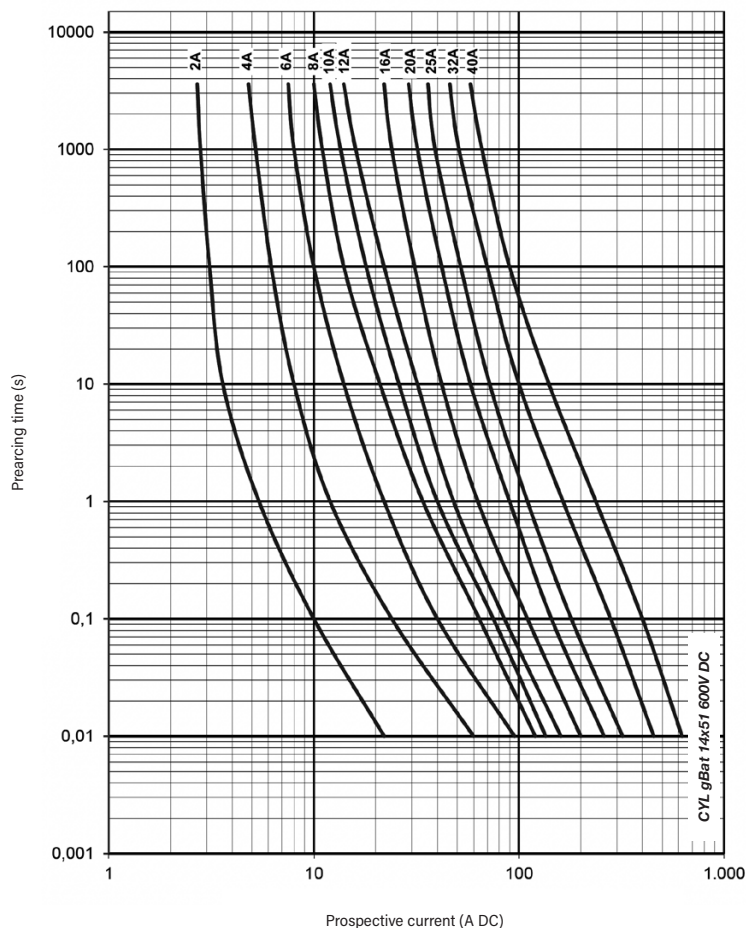
Power dissipation

I_n	POWER LOSS $0,8 \cdot I_n$	POWER LOSS I_n	PREARCING I_t^2	PREARCING I_t^2 U_n
(A)	(W)	(W)	(A²S)	(A²S)
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

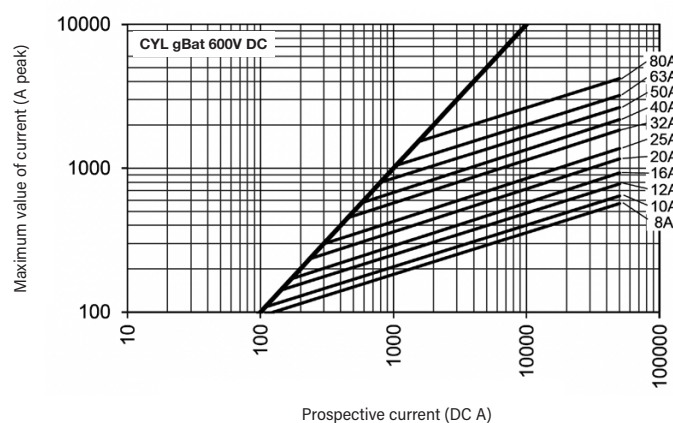
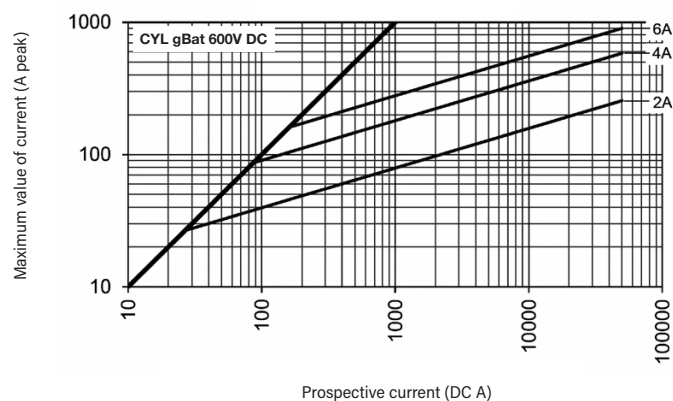
Correction factor for power loss



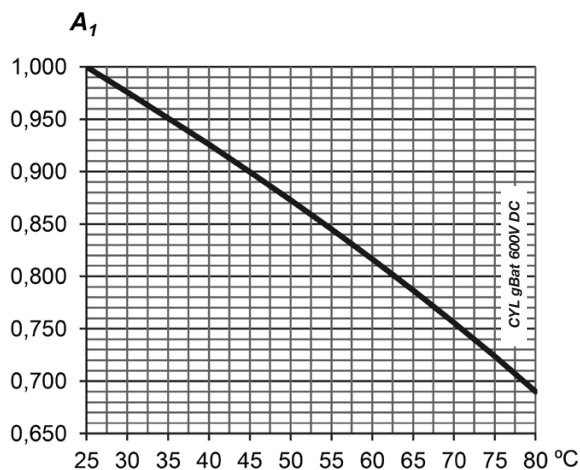
t-I characteristics



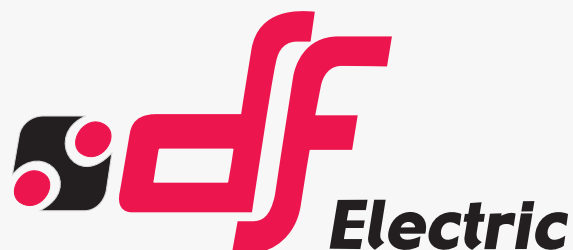
Cut-off characteristics



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



PROTECTING THE WORLD

HEAD OFFICE AND FACTORY

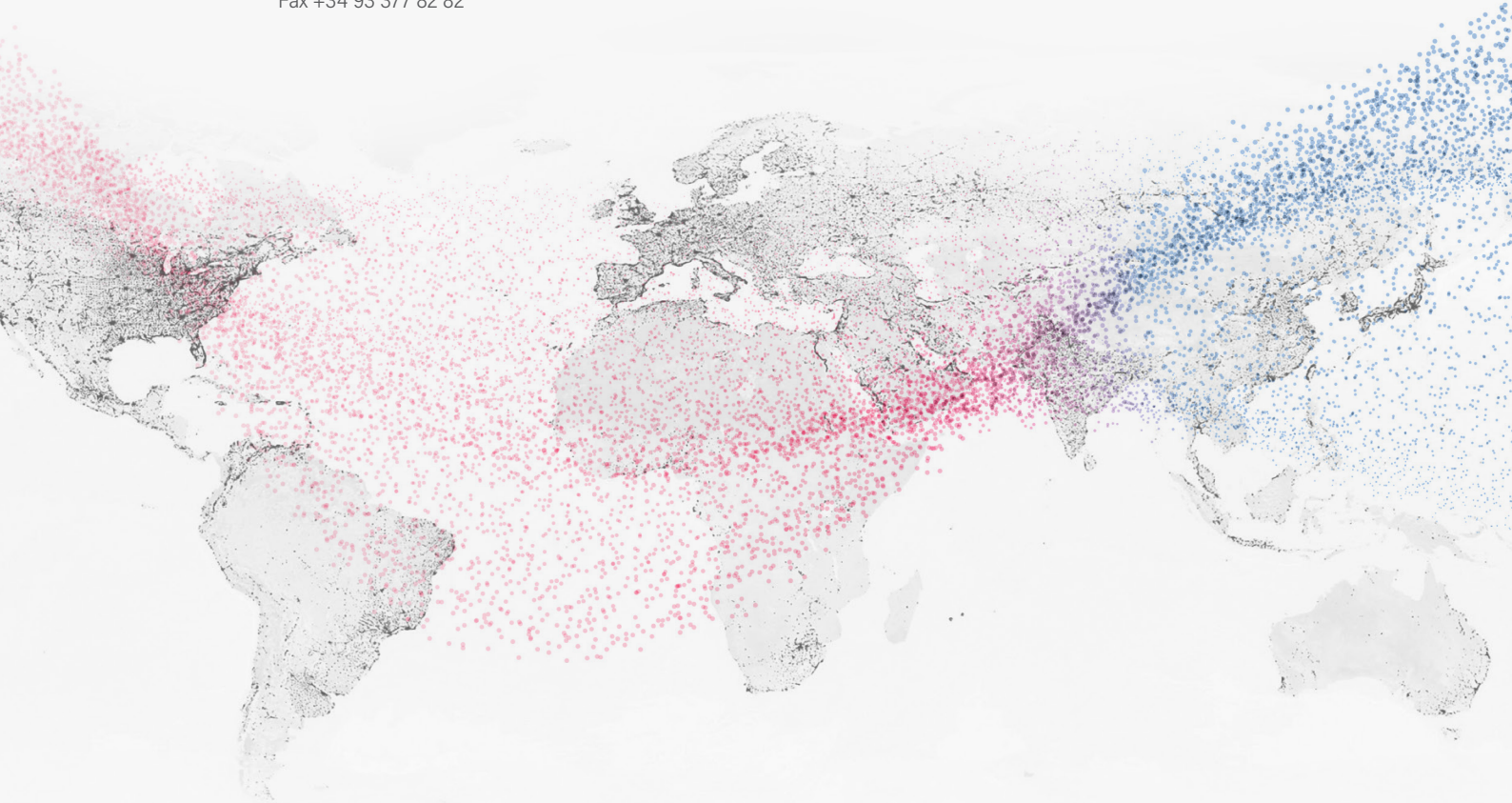
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According to the waste of electrical and electronic equipment directive, electrical material should not be part of the usual waste. This symbol alerts users that these products should be recycled according to local environmental waste disposal regulations.



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.



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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