

BATTERY STORAGE

CYLINDRICAL BATTERY PROTECTION FUSE LINKS



gBat CYL 600V DC fuse links

CYL

gBat

22x58



14x51

22x58

PROTECTING
THE WORLD





RATED VOLTAGE
600V DC

RATED CURRENT
40A...80A

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 22x58 gBat 600V DC 40A to 80A**

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

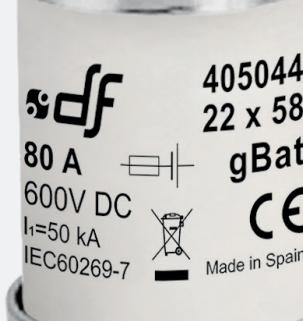
These fuse links can be used also as a protection in other DC applications, but it is very important to take into account the kind of load and the time-constant of circuit in order to have a correct application (consult us).

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	
40	405041	405141	10/50
50	405042	405142	10/50
63	405043	405143	10/50
80	405044	405144	10/50



Technical data

Rated voltage	600V DC L/R ≤ 3ms
Rated current	40A...80A
Rated breaking capacity	50kA
Utilization category	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.

Standards

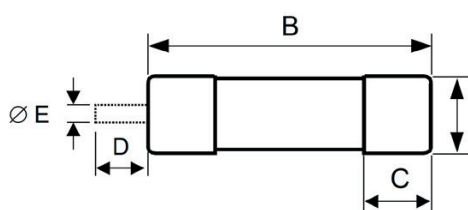
IEC/EN 60269-1
IEC 60269-7
RoHS Compliant



Power dissipation

I_n	POWER LOSS $0,8 \cdot I_n$	POWER LOSS I_n	PREARcing I_t^2	PREARcing I_t^2
(A)	(W)	(W)	(A²S)	(A²S)
40	3,1	5,4	330	1400
50	3,8	6,8	590	2500
63	4,3	7,7	1050	4440
80	4,9	8,7	2360	9990

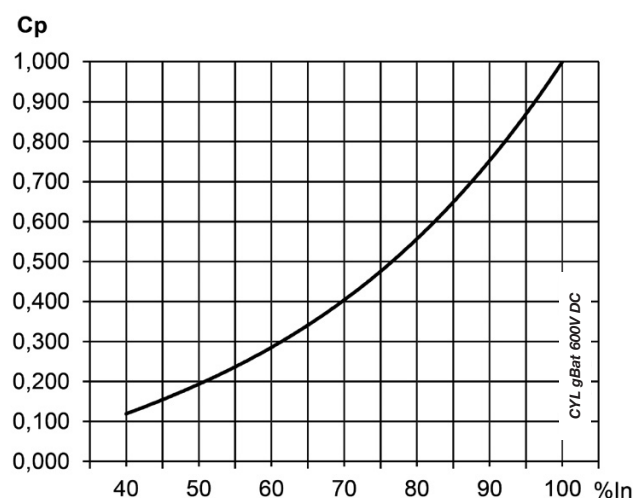
Dimensions



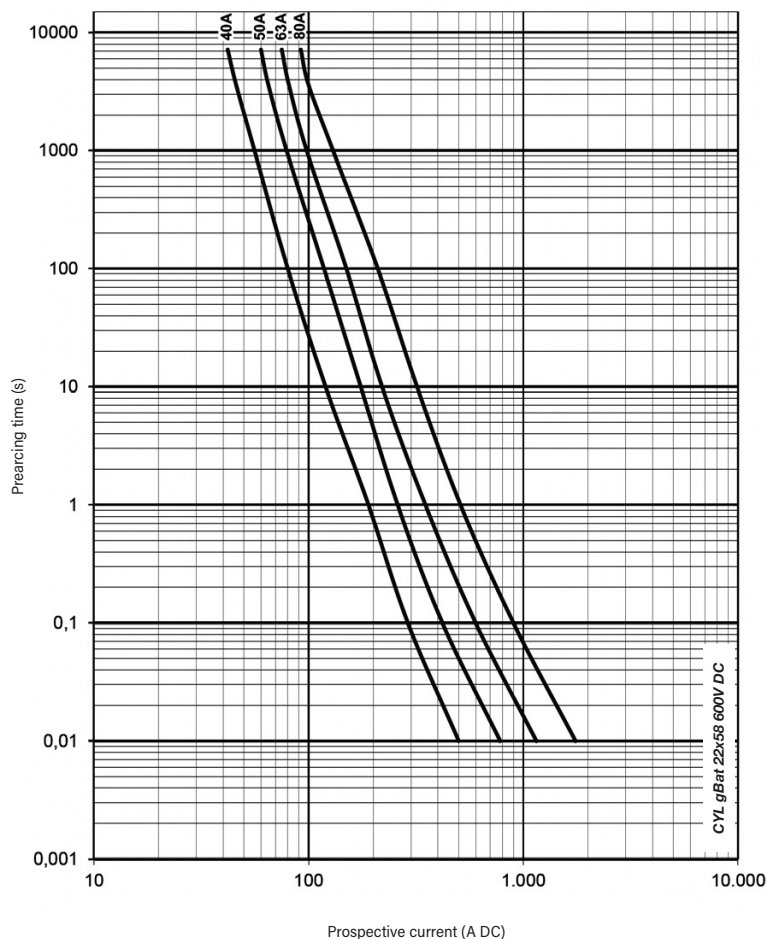
A	B	C	D	E
22,2	58	15,5	8	3,7

Weight 50gr

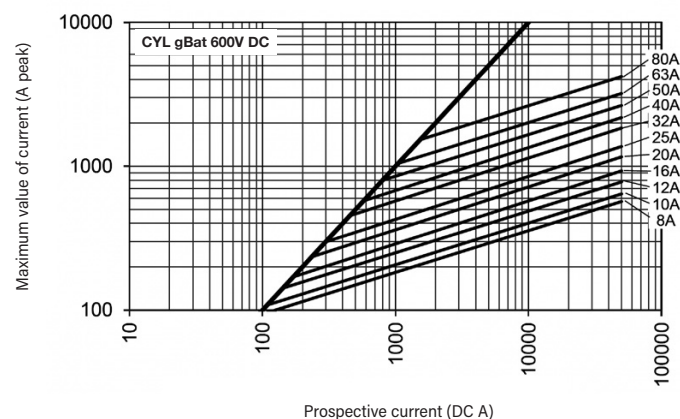
Correction factor for power loss



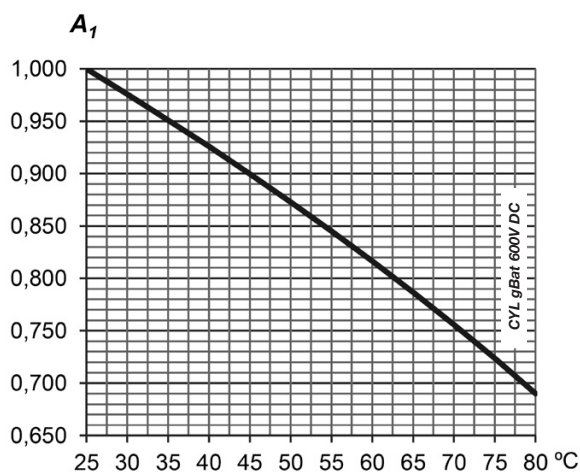
t-I characteristics



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

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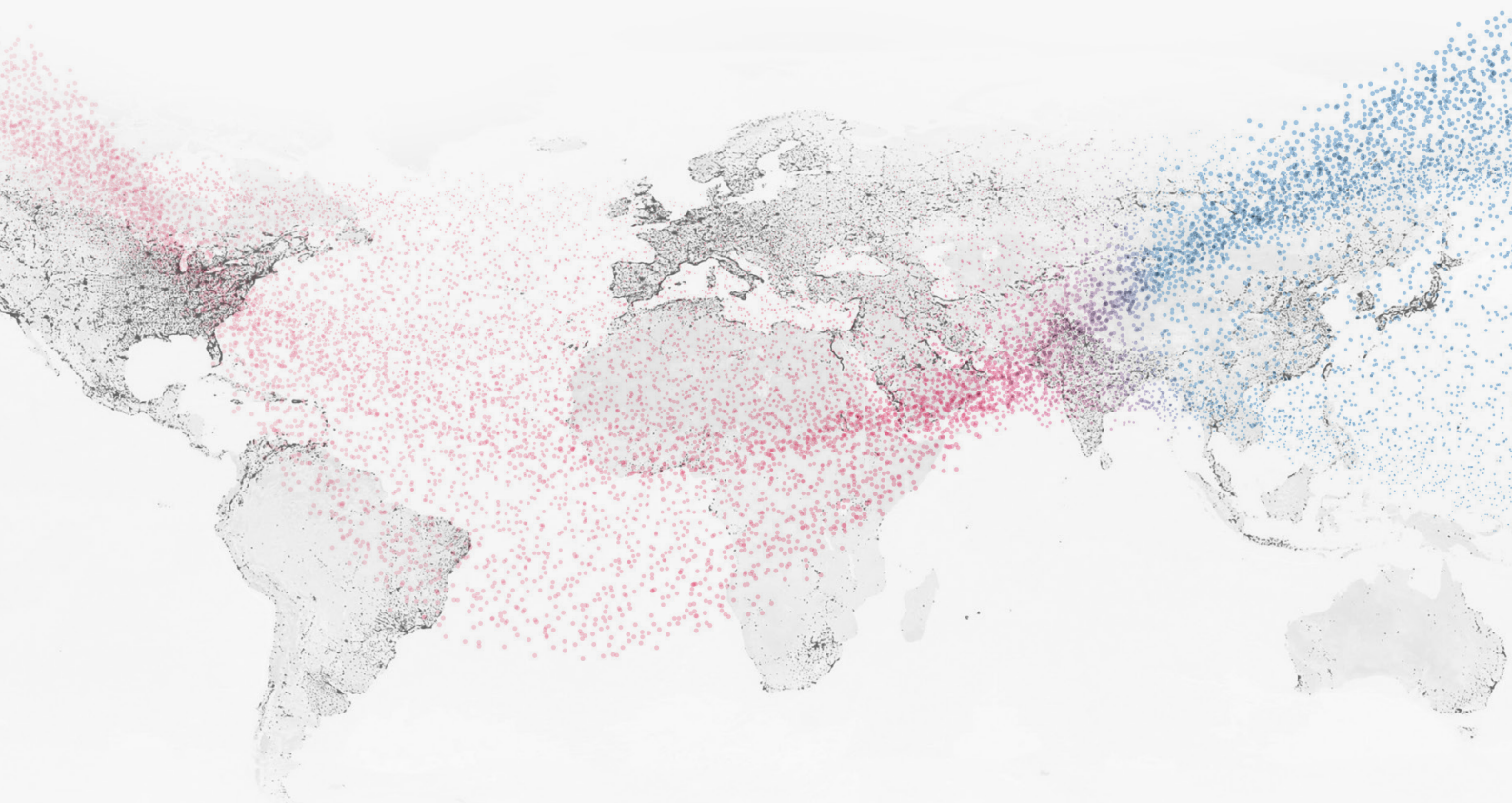
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The data reflected in this technical record are subject to the correct installation of the product in accordance with manufacturer's instructions, relevant installation standards and professional practices, maintained and used in applications for which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