



# gBat

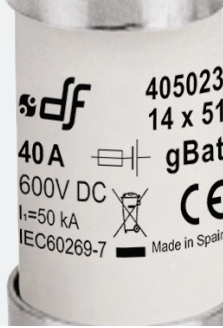
## CYL 600V DC

fuse links



**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 of 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.

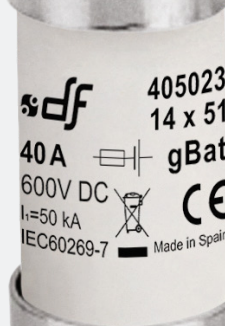
These fuse links can be used also as a protection in other DC applications, but it is very important to take into account the kind of load and the time-constant of circuit in order to have a correct application (consult us).

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



## Range

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



## Technical data

Rated voltage	600V DC L/R ≤ 3ms
Rated current	2A...40A
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

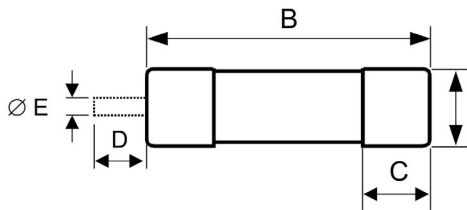
IEC/EN 60269-1  
 IEC 60269-7  
 RoHS Compliant



## Power dissipation

I <sub>n</sub>	POWER LOSS 0,8·I <sub>n</sub>	POWER LOSS I <sub>n</sub>	PREARCING I <sup>2</sup> <sub>t</sub>	PREARCING I <sup>2</sup> <sub>Un</sub>
(A)	(W)	(W)	(A <sup>2</sup> S)	(A <sup>2</sup> S)
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

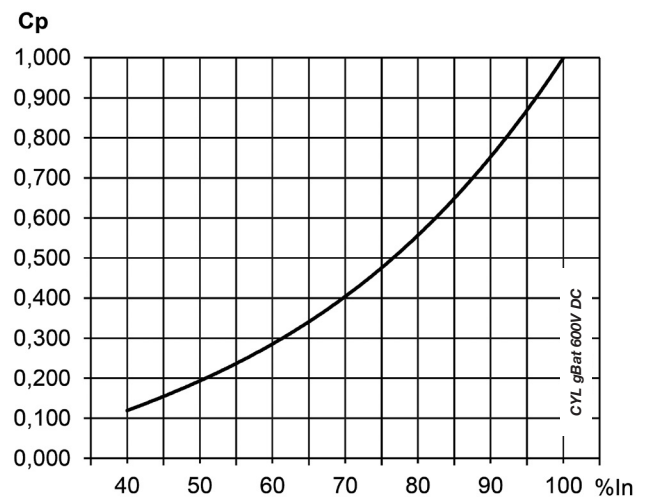
## Dimensions

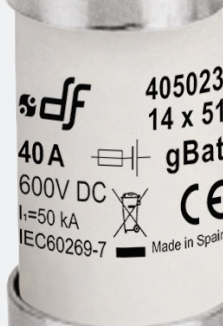


A	B	C	D	E
14,3	51	11,5	8	3,7

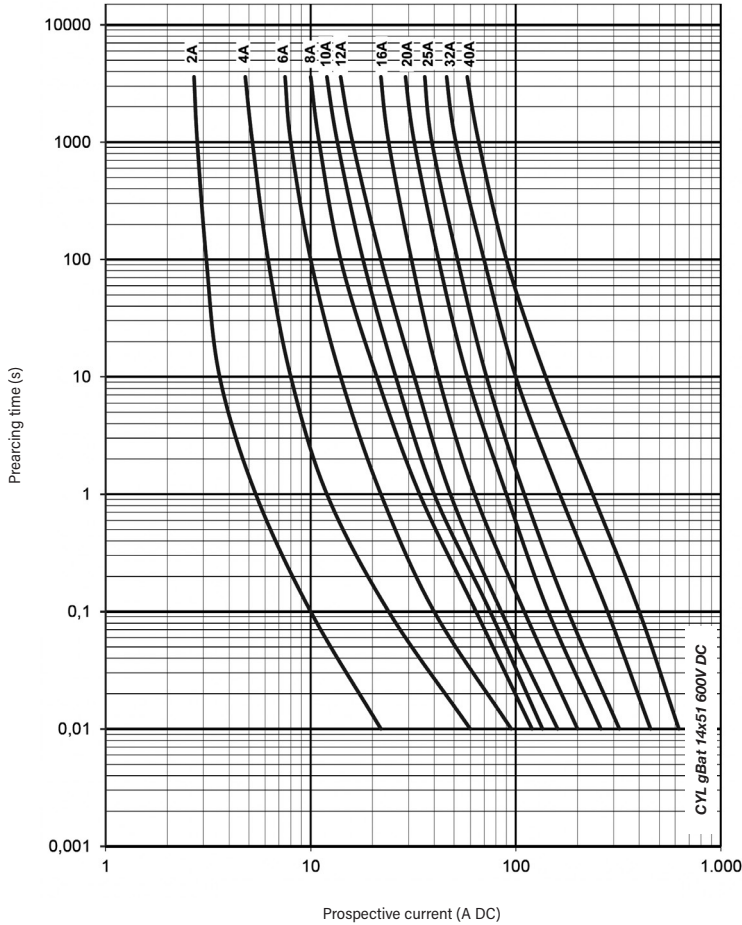
Weight 18gr

## Correction factor for power loss

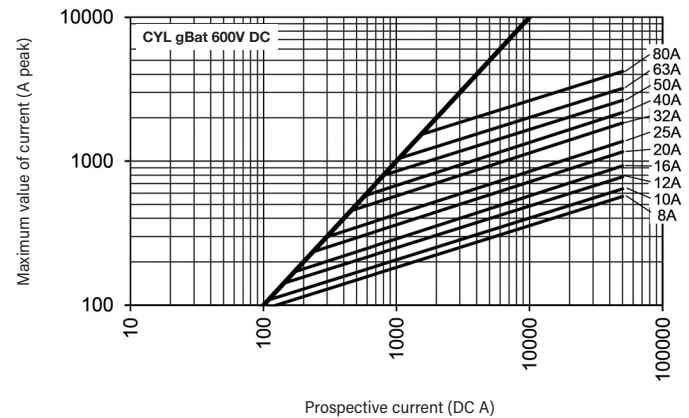
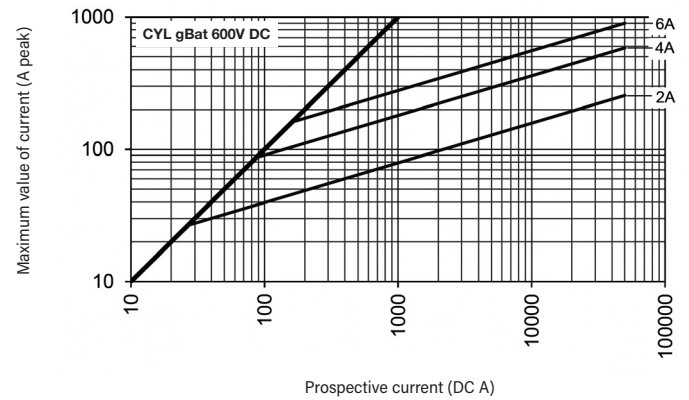




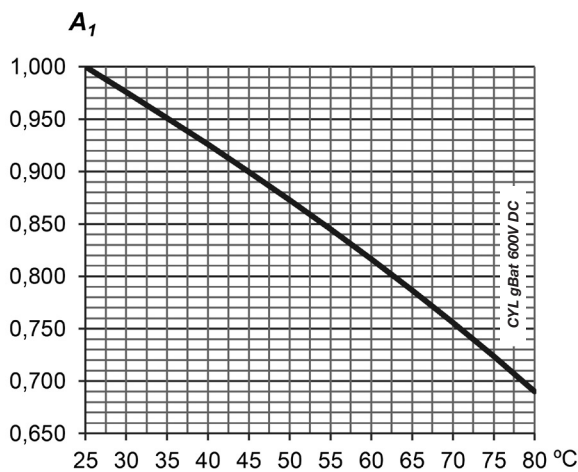
## t-I characteristics



## 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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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.

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