

BATTERY STORAGE

CYLINDRICAL BATTERY PROTECTION FUSE LINKS



gBat

CYL 600V DC

fuse links

CYL gBat 22x58

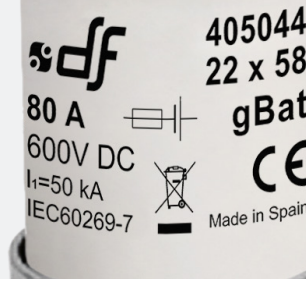


14x51

22x58

**PROTECTING
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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 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 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.

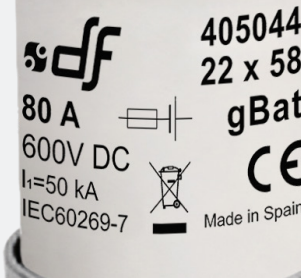
These fuse links can be used also as a protection in other DC applications, but it is very important to take into account the kind of load and the time-constant of circuit in order to have a correct application (consult us).

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



Range

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

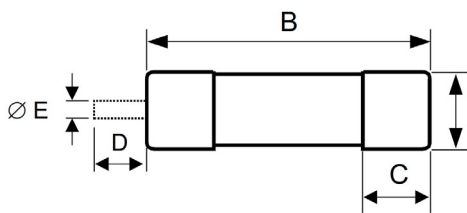
IEC/EN 60269-1
 IEC 60269-7
 RoHS Compliant



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) | (A ² S) | (A ² S) |
| 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 |

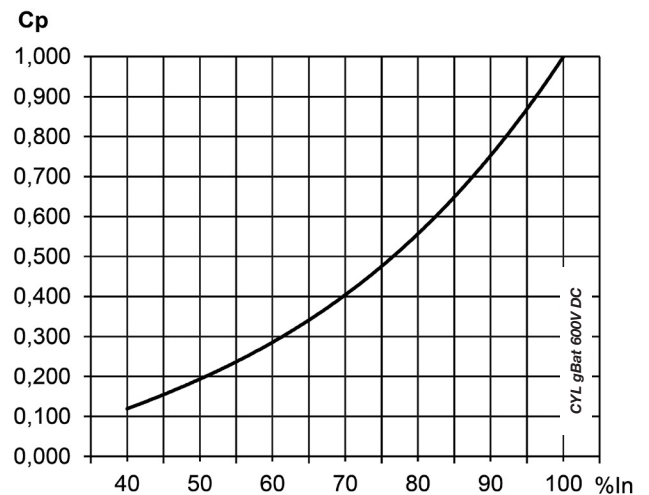
Dimensions



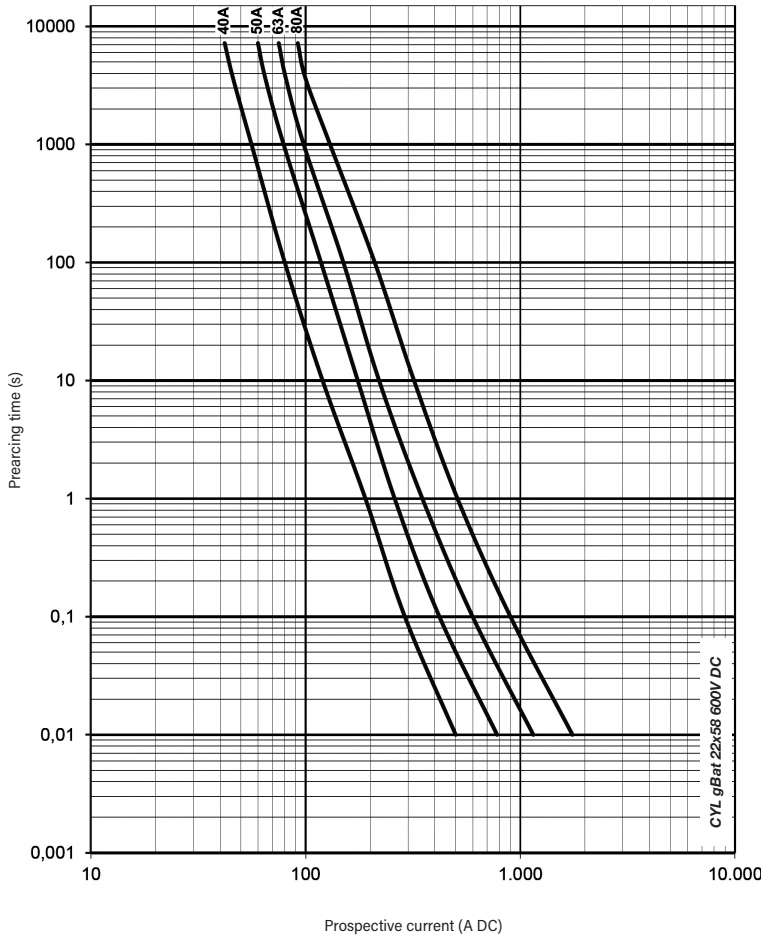
| A | B | C | D | E |
|------|----|------|---|-----|
| 22,2 | 58 | 15,5 | 8 | 3,7 |

Weight 50gr

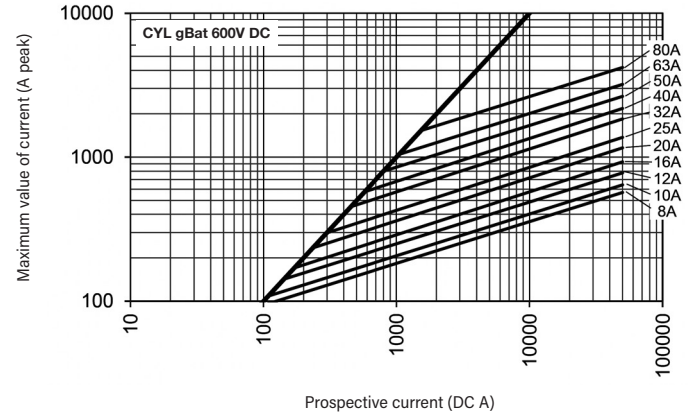
Correction factor for power loss



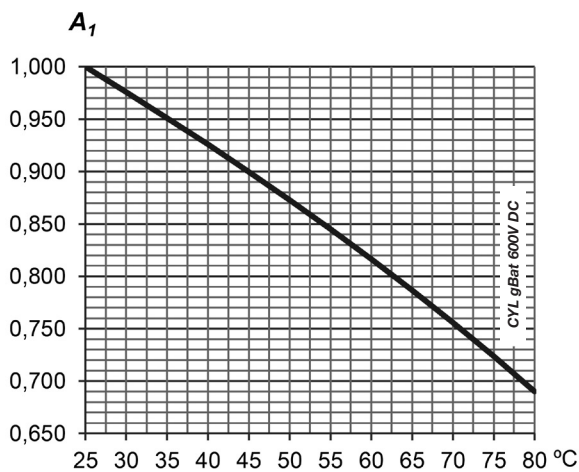
t-I characteristics



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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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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