

# CYLINDRICAL FUSES

## gG CYLINDRICAL FUSES

Cylindrical fuse links gG class for use as general protection against overloads and short circuits, intended as protection of cables, power lines and equipment. Made of ceramic tube with high withstand to internal pressure and thermal shock, that allow a high breaking capacity in a reduced physical space. The melting elements are specially designed in order to avoid aging and thus maintain unalterable the electrical characteristics. Contact caps are made of silver plated copper. Versions available with fusing indicator or with striker for use in fuse holders with microswitch.

[www.df-sa.es/cylindrical/fuses/gG/](http://www.df-sa.es/cylindrical/fuses/gG/)

### 8x32

I <sub>n</sub> (A)	REFERENCE		U (V)	BREAKING CAPACITY (kA)	REFERENCE WITH STRIKER	U (V)	BREAKING CAPACITY (kA)	PACKING Uni./BOX
	WITHOUT INDICATOR	WITH INDICATOR						
0,5	<b>420500</b>	-	400	20	-	-	-	10/100
1	<b>420501</b>	-	400	20	-	-	-	10/100
2	<b>420502</b>	<b>420602</b>	400	20	-	-	-	10/100
4	<b>420504</b>	<b>420604</b>	400	20	-	-	-	10/100
6	<b>420506</b>	<b>420606</b>	400	20	-	-	-	10/100
8	<b>420508</b>	<b>420608</b>	400	20	-	-	-	10/100
10	<b>420510</b>	<b>420610</b>	400	20	-	-	-	10/100
12	<b>420512</b>	<b>420612</b>	400	20	-	-	-	10/100
16	<b>420516</b>	<b>420616</b>	400	20	-	-	-	10/100
20	<b>420720</b>	<b>420820</b>	400	20	-	-	-	10/100



420500

### 10x38

0,5	<b>420000</b>	-	500	120	-	-	-	10/100
1	<b>420001</b>	-	500	120	-	-	-	10/100
2	<b>420002</b>	<b>420102</b>	500	120	-	-	-	10/100
4	<b>420004</b>	<b>420104</b>	500	120	-	-	-	10/100
6	<b>420006</b>	<b>420106</b>	500	120	-	-	-	10/100
8	<b>420008</b>	<b>420108</b>	500	120	-	-	-	10/100
10	<b>420010</b>	<b>420110</b>	500	120	-	-	-	10/100
12	<b>420012</b>	<b>420112</b>	500	120	-	-	-	10/100
16	<b>420016</b>	<b>420116</b>	500	120	-	-	-	10/100
20	<b>420020</b>	<b>420120</b>	500	120	-	-	-	10/100
25	<b>420025</b>	<b>420125</b>	500	120	-	-	-	10/100
32*	<b>420032</b>	<b>420132</b>	400	120	-	-	-	10/100

\* OVERRATING FUSES



420025

### 14x51

1	<b>421001</b>	-	690	80	-	-	-	10/50
2	<b>421002</b>	<b>421102</b>	690	80	<b>421202</b>	500	120	10/50
4	<b>421004</b>	<b>421104</b>	690	80	<b>421204</b>	500	120	10/50
6	<b>421006</b>	<b>421106</b>	690	80	<b>421206</b>	500	120	10/50
8	<b>421008</b>	<b>421108</b>	690	80	<b>421208</b>	500	120	10/50
10	<b>421010</b>	<b>421110</b>	690	80	<b>421210</b>	500	120	10/50
12	<b>421012</b>	<b>421112</b>	690	80	<b>421212</b>	500	120	10/50
16	<b>421016</b>	<b>421116</b>	690	80	<b>421216</b>	500	120	10/50
20	<b>421020</b>	<b>421120</b>	690	80	<b>421220</b>	500	120	10/50
25	<b>421025</b>	<b>421125</b>	690	80	<b>421225</b>	500	120	10/50
32	<b>421032</b>	<b>421132</b>	500	120	<b>421232</b>	500	120	10/50
40	<b>421040</b>	<b>421140</b>	500	120	<b>421240</b>	500	120	10/50
50	<b>421050</b>	<b>421150</b>	400	120	<b>421250</b>	400	120	10/50



STANDARDS  
IEC 60269-1  
IEC 60269-2  
EN 60269-1  
EN 60269-2

APPROVALS  
Cd-Pb FREE  
RoHS compliant

TECHNICAL  
I-I AND CUT-OFF CHARACTERISTICS  
PAGE 12

TECHNICAL  
I<sup>2</sup>t CHARACTERISTICS AND POWER DISSIPATION  
PAGE 13

TECHNICAL  
DC APPLICATIONS FOR CYLINDRICAL FUSES  
PAGE 24

COMPATIBLE  
PMF MODULAR FUSE HOLDERS  
PAGE 06

COMPATIBLE  
PMX MODULAR FUSE HOLDERS  
PAGE 07

COMPATIBLE  
PMC & PMCC FUSE HOLDERS  
PAGE 09

COMPATIBLE  
SC SCREW FIXING & BAC OPEN FUSE HOLDERS  
PAGE 10

# CYLINDRICAL FUSES

## gG CYLINDRICAL FUSES

22x58

I <sub>n</sub> (A)	REFERENCE		U (V)	BREAKING CAPACITY (kA)	REFERENCE WITH STRIKER	U (V)	BREAKING CAPACITY (kA)	PACKING Uni./BOX
	WITHOUT INDICATOR	WITH INDICATOR						
2	422002	422102	690	80	—	—	—	10/50
4	422004	422104	690	80	422204	690	80	10/50
6	422006	422106	690	80	422206	690	80	10/50
8	422008	422108	690	80	422208	690	80	10/50
10	422010	422110	690	80	422210	690	80	10/50
12	422012	422112	690	80	422212	690	80	10/50
16	422016	422116	690	80	422216	690	80	10/50
20	422020	422120	690	80	422220	690	80	10/50
25	422025	422125	690	80	422225	690	80	10/50
32	422032	422132	690	80	422232	690	80	10/50
40	422040	422140	690	80	422240	690	80	10/50
50	422050	422150	690	80	422250	690	80	10/50
63	422063	422163	690	80	422263	690	80	10/50
80	422080	422180	500	120	422280	500	120	10/50
100	422000	422100	500	120	422200	500	120	10/50
125*	422015	422115	400	120	422215	400	120	10/50

\* OVERRATING FUSES



## gG aM NEUTRAL LINKS

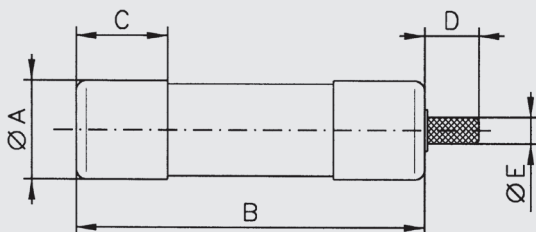
8x32  
10x38  
14x51  
22x58

SIZE	REFERENCE	PACKING Uni./BOX
8x31	430000	10/100
10x38	431000	10/100
14x51	432000	10/50
22x58	433000	10/50



431000

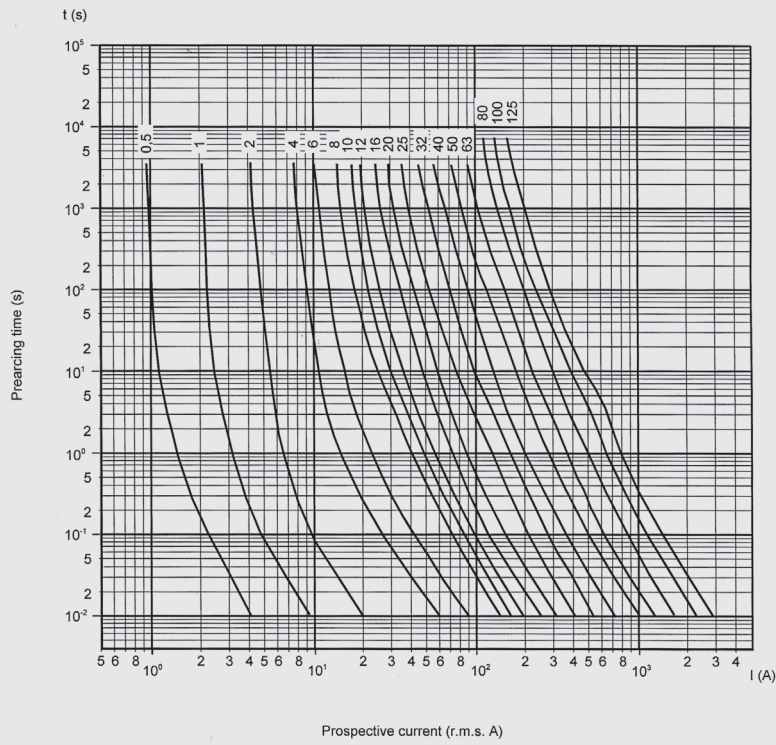
## TECHNICAL gG CYLINDRICAL FUSES DIMENSIONS



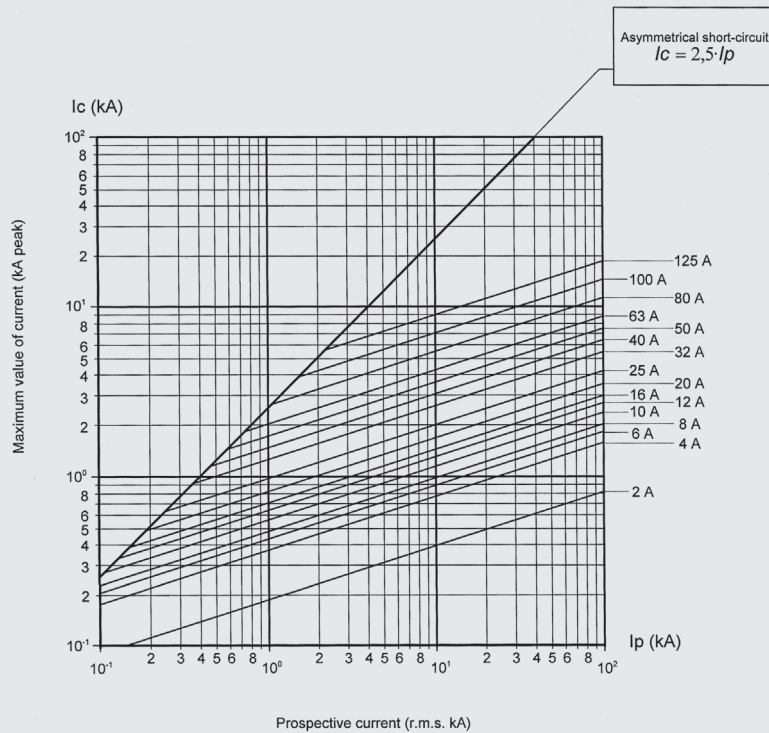
SIZE	A	B	C	D	E
8,5x31,5	8,5	31,5	6,3	—	—
10,3x38	10,3	38	8,5	—	—
14,3x51	14,3	51	11,5	8	4
22,2x58	22,2	58	15,5	8	4

COMPATIBLE  
PMP PANEL MOUNTING  
& PMB SOCKET FUSE  
HOLDERS

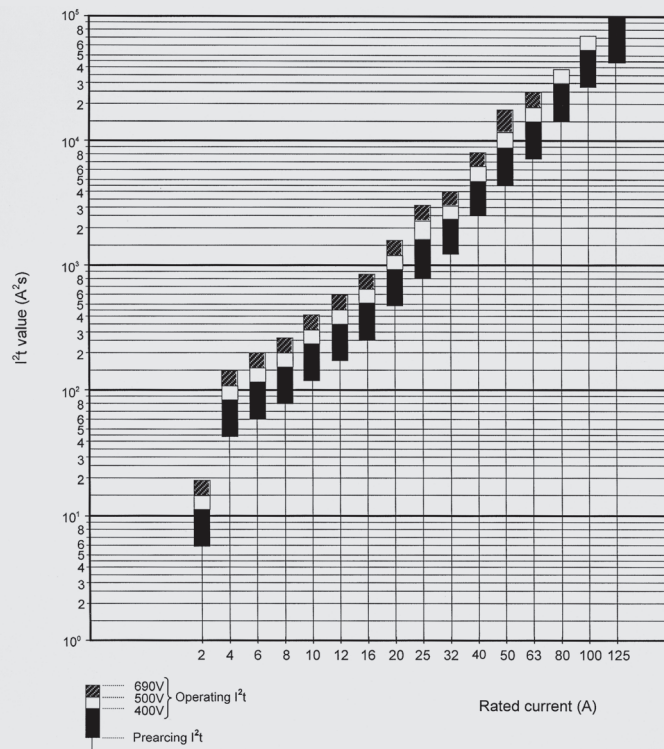
TECHNICAL  
**gG** CYLINDRICAL FUSES  
t-I CHARACTERISTICS



TECHNICAL  
**gG** CYLINDRICAL FUSES  
CUT-OFF CHARACTERISTICS



TECHNICAL **gG** CYLINDRICAL FUSES  
I<sup>2</sup>t CHARACTERISTICS



TECHNICAL **gG** CYLINDRICAL FUSES  
POWER DISSIPATION

I <sub>n</sub> (A)	SIZE			
	8,5x32 (W)	10x38 (W)	14x51 (W)	22x58 (W)
0,5	1,2	1,43	–	–
1	2,0	2,77	3,90	–
2	0,5	0,60	0,90	1,00
4	0,8	0,70	1,00	1,10
6	1,1	0,85	1,15	1,30
8	1,3	0,75	1,00	1,10
10	1,0	1,00	1,30	1,50
12	1,2	1,30	1,70	1,80
16	1,5	1,60	2,00	2,10
20	2,0	2,00	2,50	2,70
25	–	2,60	3,30	3,30
32	–	2,90	3,50	3,50
40	–	–	4,75	4,00
50	–	–	4,80	5,50
63	–	–	–	6,90
80	–	–	–	7,80
100	–	–	–	9,00
125	–	–	–	11,4

TECHNICAL

## gG CYLINDRICAL FUSES DC APPLICATIONS

Fuses are generally suitable for both AC and DC applications. The DC performance of fuse-links is different and AC ratings cannot be used for DC applications. There is no simple rule that safely converts an AC voltage rating of a fuse-link to DC voltage rating. For this reason it is necessary to take into account a lot of aspects in order to determine the DC applications.

In the **DF ELECTRIC gG cylindrical fuses** it is necessary to take into account the following considerations:

- The power dissipations are the same in AC (RMS value) and the DC values.
- The time current characteristics are the same for DC applications under steady-state conditions.
- The DC rated voltage and maximum breaking capacity are lower than the AC values (see the table).

SIZE	RATED CURRENT	MAX. DC VOLTAGE	DC BREAKING CAPACITY
<b>8,5x31,5</b>	0,5A...10A 12A...20A	150V DC 60V DC	5 kA
<b>10x38</b>	0,5A...16A 20A...32A	250V DC 80V DC	15 kA
<b>14x51</b>	1A...25A 32A & 40A 50A	440V DC 80V DC 48V DC	15 kA
<b>22x58</b>	2A...63A 80A & 100A 125A	440V DC 80V DC 48V DC	15 kA

### NOTES

These values are referred to a time constant  $L/R = 15$  ms.

For higher values of time constant, the maximum utilization voltage must be reduced.

For circuits with very inductive behaviour, we recommend to connect two fuses in series.

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[20C8X32GI](#) [GMC-50-R](#) [361.250](#) [MBO-8](#) [TDC121-30](#)