

# gF, gl-gG, aM

## CYLINDRICAL FUSE-LINKS



### DOMESTIC AND INDUSTRIAL CYLINDRICAL FUSE-LINKS

Ferraz Shawmut gF, gl-gG and aM fuse-links cover a wide range of physical sizes and ampere ratings for 250, 400, 500, and 690 volts AC. gF fuse-links are for domestic use. gl-gG and aM fuse-links are for industrial applications. Most ratings are available with an optional indicator. All industrial fuse-links have the option of a built-in striker. All cylindrical fuse-links have ceramic bodies and silver-plated ferrules.

### gF

#### FULL RANGE PROTECTION

- 7 physical sizes from 6.3 x 23mm to 10.3 x 38 mm
- 250 and 400 Volt ratings - 0.5A through 32A
- Most ratings available with indicator
- Meet IEC, NFC, UNE and British standards

### gl-gG

#### FULL RANGE PROTECTION

- 4 physical sizes from 8 x 31mm to 22 x 58 mm
- 400, 500 and 690 Volt ratings - 0.5A through 125A
- Most ratings available with indicator
- Meet IEC, NFC and UNE standards
- Approved by Lloyds Register of Shipping and Bureau Veritas

### gl-gG

#### FULL RANGE PROTECTION

- Fuse-links with Striker**
- 2 sizes - 14 x 51mm and 22 x 58mm
  - 400, 500 and 690 Volt ratings - 4A through 125A
  - All ratings include striker
  - Meet IEC, NFC and UNE standards
  - Approved by Lloyds Register of Shipping and Bureau Veritas

### aM

#### SHORT CIRCUIT PROTECTION

- 4 physical sizes from 8 x 31mm to 22 x 58mm
- 400, 500 and 690 Volt ratings - 16A through 125A
- Most ratings available with indicator
- Meet IEC, NFC and UNE standards
- Approved by Lloyds Register of Shipping and Bureau Veritas

### aM

#### SHORT CIRCUIT PROTECTION

- Fuse-links with Striker**
- 2 sizes - 14 x 51mm and 22 x 58mm
  - 400, 500 and 690 Volt ratings - 2A through 125A
  - All ratings include striker
  - Meet IEC, NFC and UNE standards
  - Approved by Lloyds Register of Shipping and Bureau Veritas

# gl-gG

## CYLINDRICAL FUSE-LINKS

### Catalog Numbers, Ratings – gl-gG (Optional Blown-Fuse Indicator)



15037-G



16037-G



17039-G

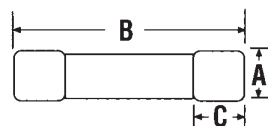
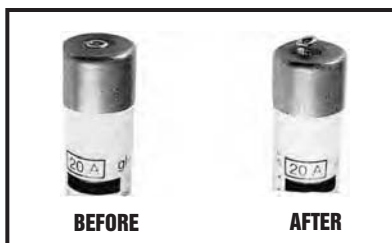


18059-G

SIZE (mm x mm)	RATED In CURRENT (A)	RATED VOLTAGE	CATALOG NUMBER		INTERRUPTING RATING (A)	STANDARD PACK/CTN.	
			w/o Indicator	w/Indicator			
8 x 31	0.5	400V	15009-G	-	20,000	10/100	
	1		15011-G	-			
	2		15013-G	15213-G			
	4		15019-G	15219-G			
	6		15023-G	15223-G			
	8		15027-G	15227-G			
	10		15031-G	15231-G			
	12		15033-G	15233-G			
	16		15035-G	15235-G			
	20		15037-G	15237-G			
	25		15039-G	15239-G			
	10 X 38		0.5	500V			16009-G
1		16011-G	-				
2		16013-G	16213-G				
4		16019-G	16219-G				
6		16023-G	16223-G				
8		16027-G	16227-G				
10		16031-G	16231-G				
12		16033-G	16233-G				
16		16035-G	16235-G				
20		16037-G	16237-G				
25		16039-G	16239-G				
14 X 51		1	690V		17011-G	-	80,000
	2	17013-G		17213-G			
	4	17019-G		17219-G			
	6	17023-G		17223-G			
	8	17027-G		17227-G			
	10	17031-G		17231-G			
	12	17033-G		17233-G			
	16	17035-G		17235-G			
	20	17037-G		17237-G			
	25	17039-G		17239-G			
	32	17043-G		17243-G			
	40	500V		17047-G	17247-G		
50			17051-G	17251-G			
400V			18013-G	-	80,000	10/50	
			4	18019-G			18219-G
			6	18023-G			18223-G
			8	18027-G			18227-G
	10	18031-G	18231-G				
	12	18033-G	18233-G				
22 x 58	16	18035-G	18235-G				
	20	18037-G	18237-G				
	25	18039-G	18239-G				
	32	18043-G	18243-G				
	40	18047-G	18247-G				
	50	18051-G	18251-G				
	63	18055-G	18255-G				
	80	18059-G	18259-G				
	100	18063-G	18263-G				
	125	18065-G	18265-G				

F

### Blown-Fuse Indicator



### Dimensions

FUSE SIZE	A	B	C
8 x 31	8.5	31.5	6.3
10 x 38	10.3	38	10.5
14 x 51	14.3	51	13.8
22 x 58	22.2	58	16.2

# gl-gG

## CYLINDRICAL FUSE-LINKS

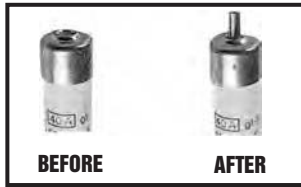


17447-G

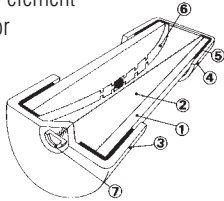


18447-G

### Striker



- 1 Ceramic body
- 2 Sand
- 3 Indicator contact
- 4 Lower contact
- 5 Contact ring
- 6 Melting element
- 7 Indicator

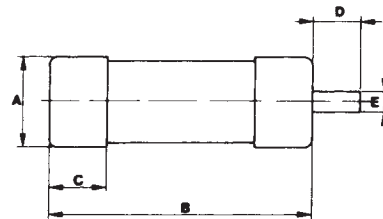


### Catalog Numbers, Ratings – gl-gG with Striker

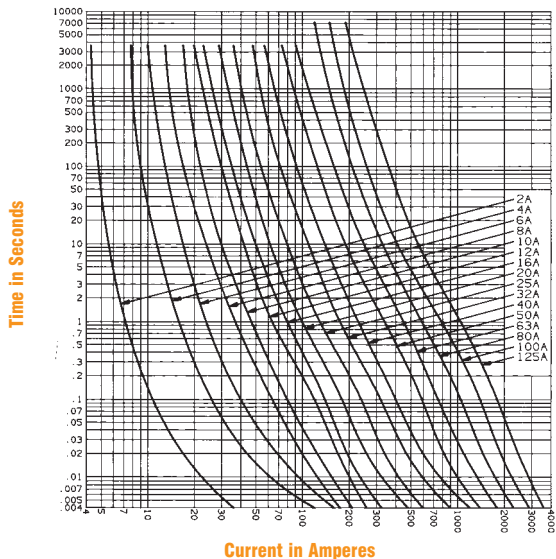
SIZE (mm x mm)	RATED CURRENT I <sub>n</sub> (A)	RATED VOLTAGE	CATALOG NUMBER	INTERRUPTING RATING (A)	STANDARD PACK/CTN.
14 X 51	2	500V	17413-G	120,000	10/50
	4		17419-G		
	6		17423-G		
	8		17427-G		
	10		17431-G		
	12		17433-G		
	16		17435-G		
	20		17437-G		
	25		17439-G		
	32		17443-G		
	40		17447-G		
	50		17451-G		
	22 X 58		4		
6		18423-G			
8		18427-G			
10		18431-G			
12		18433-G			
16		18435-G			
20		18437-G			
25		18439-G			
32		18443-G			
40		18447-G			
50		18451-G			
63		18455-G			
80		18459-G			
100		18463-G			
125		18465-G			
		500V		120,000	
		400V			

### Dimensions

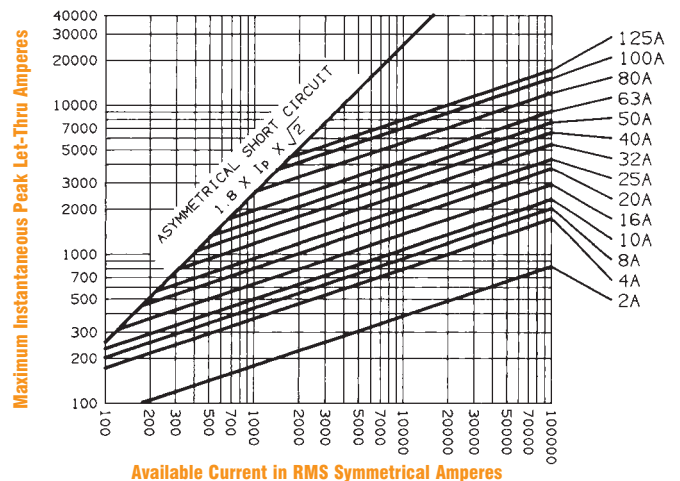
FUSE SIZE	A	B	C	D	E
14 x 51	14.3	51	13.8	7.5	3.8
22 x 58	22.2	58	16.2	7.5	3.8



### Melting Time - Current Data – 2-125 Amperes



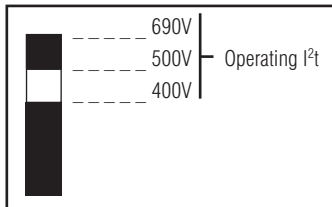
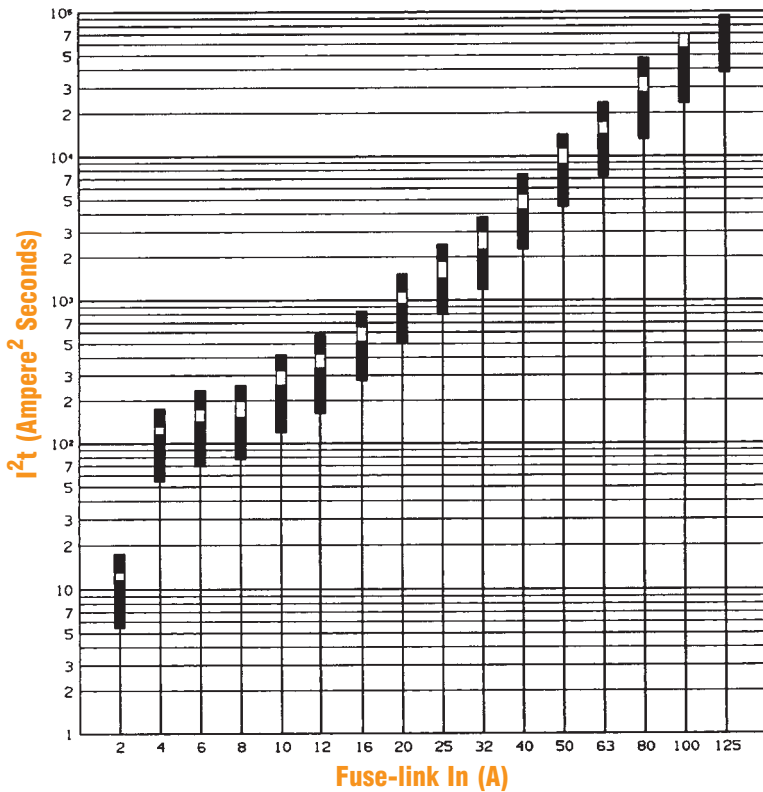
### Peak Let-Thru Current Data – 2-125 Amperes



# gI-gG

## CYLINDRICAL FUSE-LINKS

### $I^2t$ Characteristics – Discrimination



### Power Loss (Watts) at Rated Current $I_n$

RATED CURRENT (A)	SIZE		
	10 x 38	14 x 51	22 x 58
1	0.27 W		
2	0.4 W	0.5 W	
4	0.60 W	0.7 W	0.9 W
6	0.85 W	1.0 W	1.3 W
8	1.0 W	1.3 W	1.45 W
10	1.2 W	1.5 W	1.85 W
12	1.4 W	1.7 W	2.2 W
16	1.6 W	2.0 W	2.3 W
20	1.9 W	2.3 W	2.65 W
25	2.3 W	2.7 W	3.1 W
32	2.9 W	3.3 W	3.85 W
40		4 W	4.8 W
50		4.5 W	5.3 W
63			6.5 W
80			8 W
100			9 W
125			12.5 W

IEC 269-2	10 x 38	14 x 51	22 x 58
NFC 63210	25A	40A	100A
UBE 21103	3 W	5W	9.5 W

These values are much lower than those allowed by the standards.



### Temperature

Temperature rise reached by gI-gG fuse-links at  $I_n$ , measured on their upper contact.

