

# 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



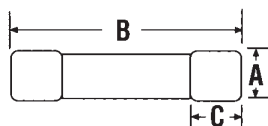
17039-G



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	-	120,000	10/100
	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		
32	16043-G	16243-G				
14 X 51	1	690V	17011-G	-	80,000	10/50
	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	17047-G	17247-G				
50	17051-G	17251-G				
22 x 58	2	690V	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		
	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				
		500V			120,000	
		400V				

### 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

# gI-gG

## CYLINDRICAL FUSE-LINKS

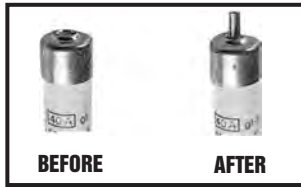


17447-G

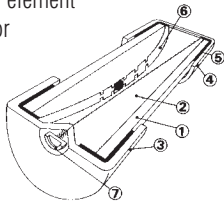


18447-G

### Striker



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

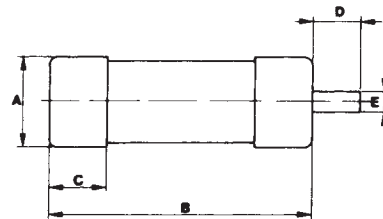


### Catalog Numbers, Ratings – gI-gG with Striker

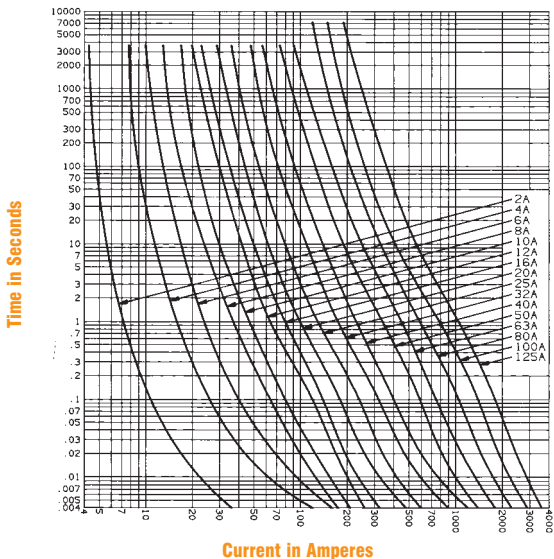
SIZE (mm x mm)	RATED CURRENT I <sub>n</sub> (A)	RATED VOLTAGE	CATALOG NUMBER	INTERRUPTING RATING (A)	STANDARD PACK/CTN.
14 X 51	2	500V	17413-G	120,000	10/50
	4		17419-G		
	6		17423-G		
	8		17427-G		
	10		17431-G		
	12		17433-G		
	16		17435-G		
	20		17437-G		
	25		17439-G		
	32		17443-G		
	40		17447-G		
	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

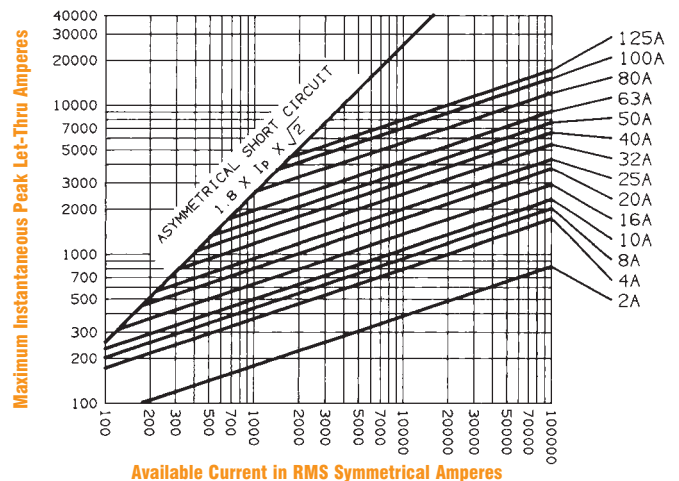
FUSE SIZE	A	B	C	D	E
14 x 51	14.3	51	13.8	7.5	3.8
22 x 58	22.2	58	16.2	7.5	3.8



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



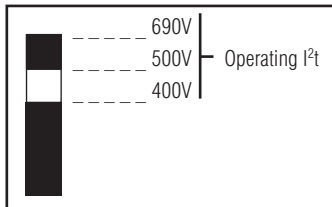
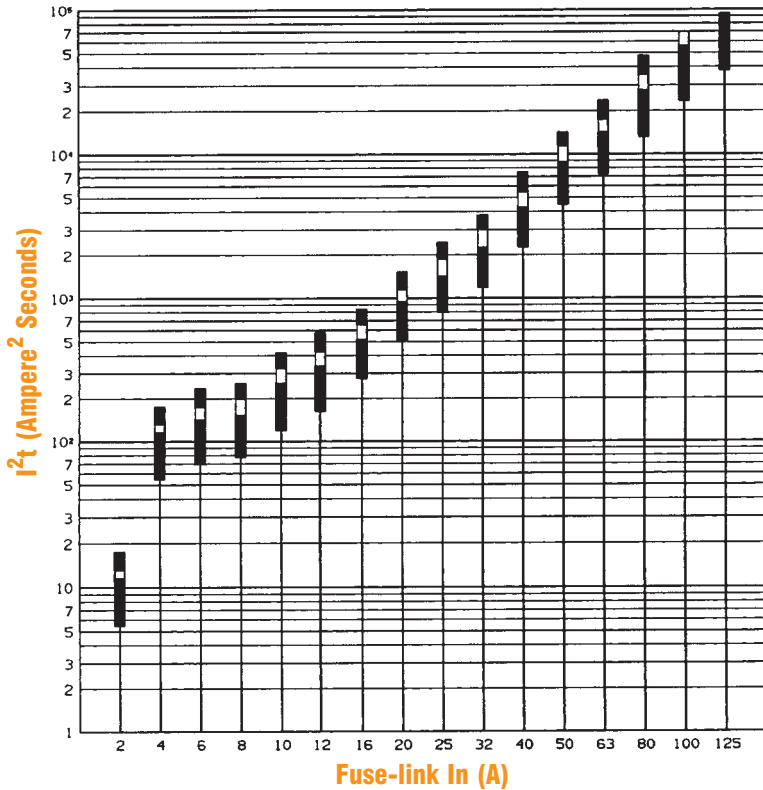
### Peak Let-Thru Current Data – 2-125 Amperes



# 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.

