

General Purpose Fuses



French Ferrule

gG, aM



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, 380*, 400, 500, and 660* 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.

* Fuse-links marked 380V (gF) and 660V (gl-gG-aM) will be re-marked (and safely used at) 400V AC and 690V AC in compliance with changes in IEC Standard 269, but should not be used above 418V AC or 726V AC.

gF

FULL RANGE PROTECTION

- ✓ 7 physical sizes from 6.3 x 23mm to 10.3 x 38 mm
- ✓ 250 and 380 Volt ratings - 0.5A through 32A
- ✓ Most ratings available with indicator
- ✓ Meet IEC, NFC, UNE and British standards
- ✓ See residential fuse-links, Special Purpose section

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 - 0.16A 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

General Purpose Fuses

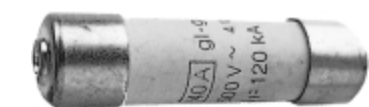


French Ferrule

gG with striker

Ratings – gl-gG with Striker

SIZE (mm x mm)	RATED CURRENT In (A)	RATED VOLTAGE	CATALOG NUMBER	REFERENCE NUMBER	INTERRUPTING RATING (A)	STANDARD PACK/CTN.
14 X 51	2		17413	J211033	120kA - 500V	10
	4		17419	H212067		
	6		17423	G214113		
	8		17427	R215134		
	10		17431	Z216153		
	12		17433	L217176		
	16		17435	Z218200		
	20		17437	B219237		
	25		17439	L222213		
	32		17443	P200757		
	40		17447	P201815		
	50		17451	D211557		
22 X 58	4		18419	R214628	80kA - 690V	10
	6		18423	A215648		
	8		18427	F216665		
	10		18431	W217691		
	12		18433	W218726		
	16		18435	L219775		
	20		18437	P222975		
	25		18439	M201307		
	32		18443	S211041		
	40		18447	R212075		
	50		18451	M213612		
	63	500V	18455	S214629		
	80		18459	F216159		
	100	18463	T217183			
	125	400V	18465	H218208		



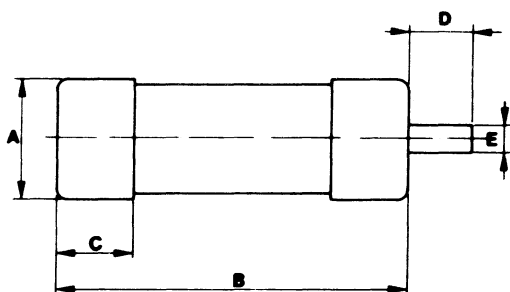
P201815



R212075

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



Striker

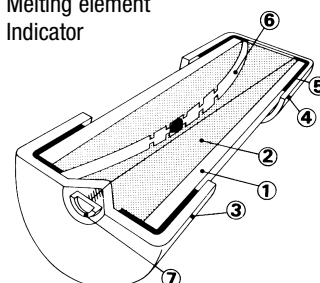


BEFORE



AFTER

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



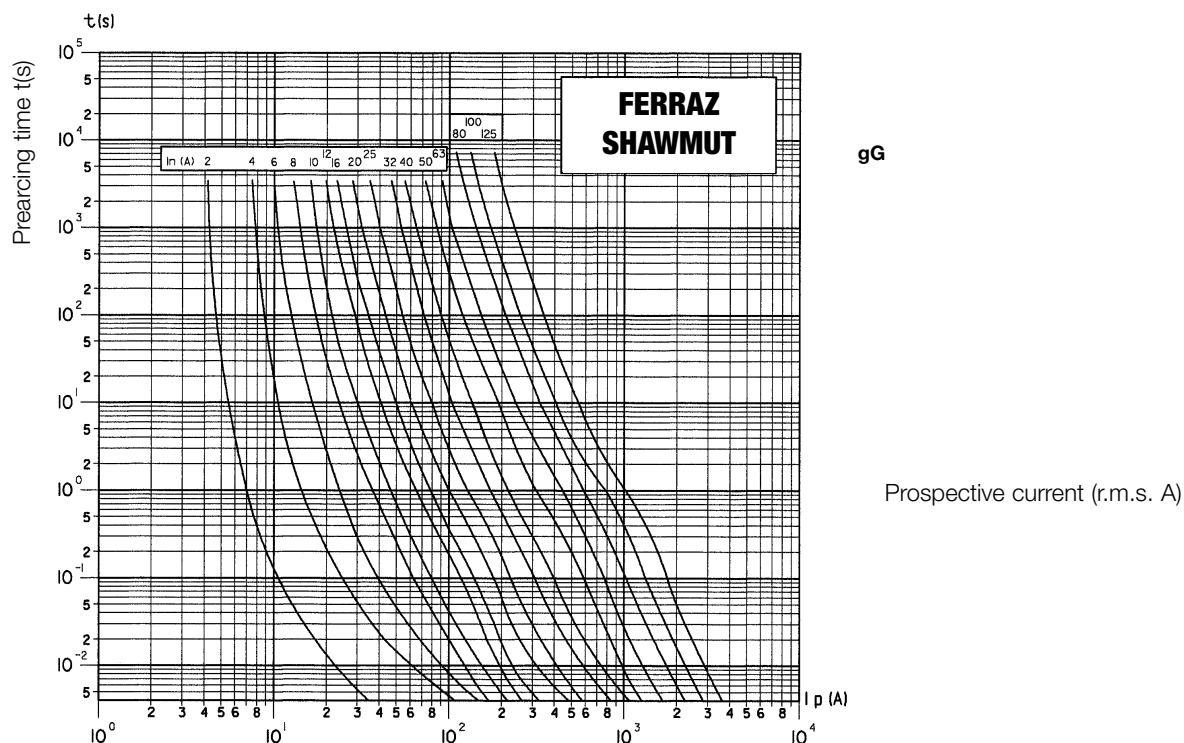
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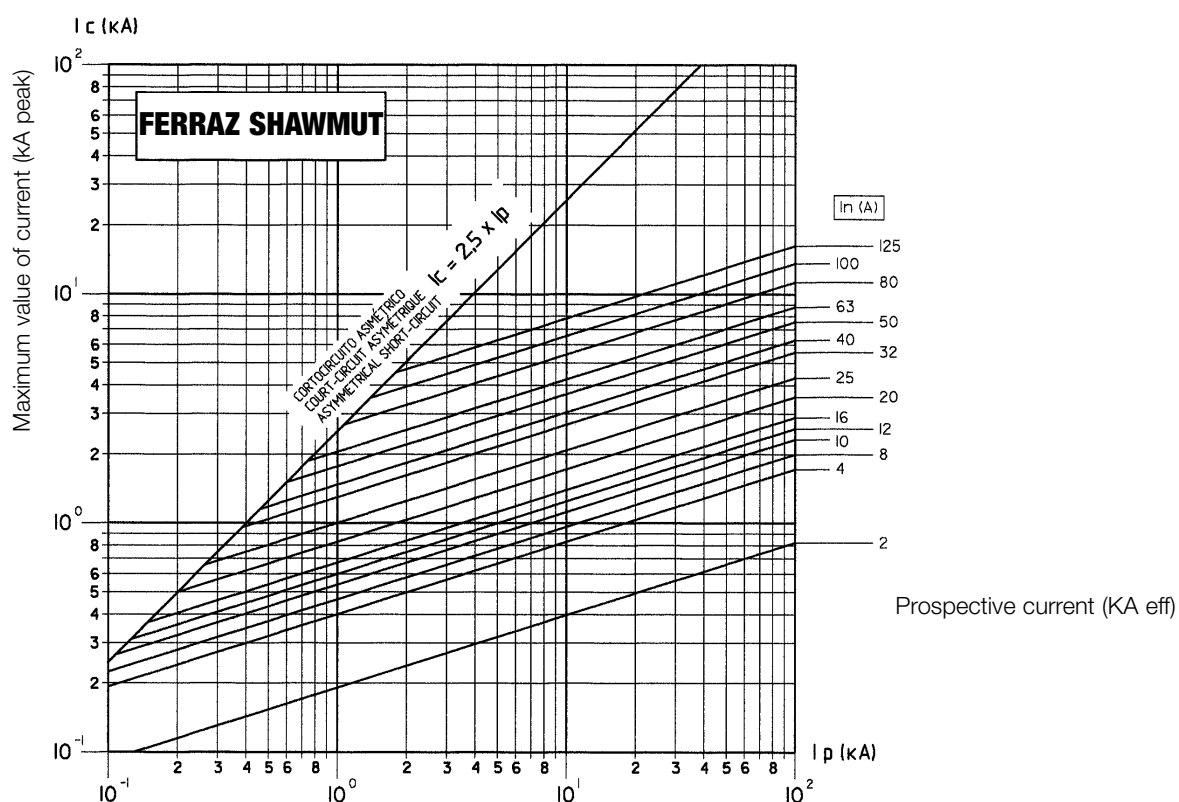
French Ferrule

gG

Characteristics t-I



Cut-off characteristics



General Purpose Fuses



French Ferrule

gG

Characteristics I^2t

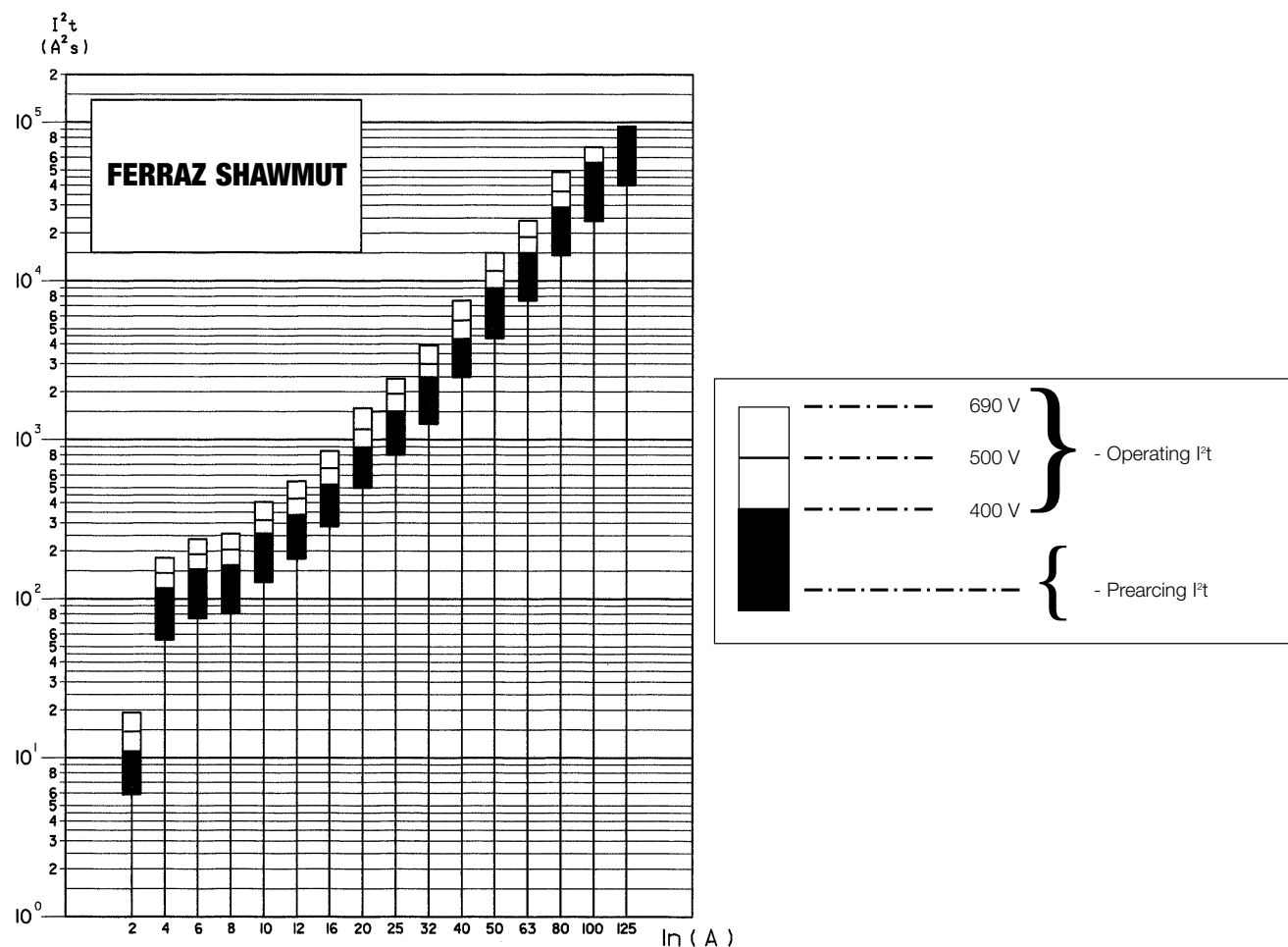
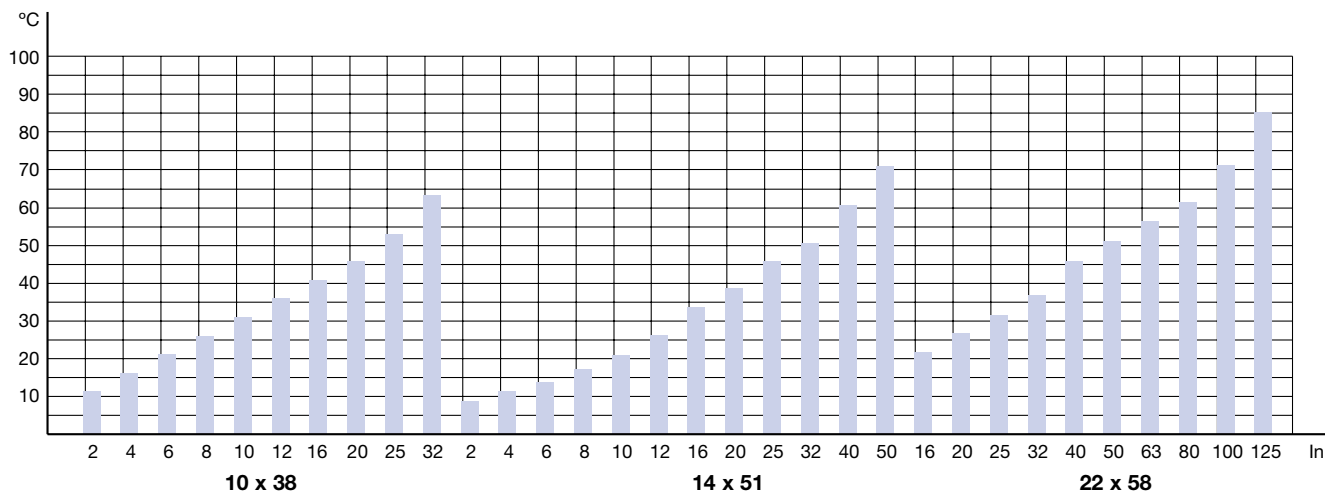


Table temperature increase (testing in superior contact)



General Purpose Fuses



French Ferrule

gG

Power loss table

In	Size		
	10 x 38	14 x 51	22 x 58
0,5 A	0,20 W		
1 A	0,60 W	0,80 W	
2 A	0,70 W	1 W	1,20 W
4 A	0,80 W	1,10 W	1,30 W
6 A	0,90 W	1,20 W	1,40 W
8 A	1,10 W	1,50 W	1,65 W
10 A	1,35 W	1,80 W	2 W
12 A	1,55 W	2,10 W	2,40 W
16 A	1,90 W	2,55 W	3 W
20 A	2,30 W	3 W	3,40 W
25 A	2,80 W	3,50 W	3,80 W
32 A	3 W	3,80 W	4,30 W
40 A		4,40 W	5,10 W
50 A		4,7 W	5,50 W
63 A			6,70 W
80 A			8 W
100 A			9 W
125 A			12,5 W

IEC 269-2-1 NFC 63.213 UNE 21.103-2-1	10 x 38	14 x 51	22 x 58
	25 A	40 A	100 A
	3 W	5 W	9,5 W

Table of maximum longitudes of network in function of In and conductor section

gG CLASS FUSES

Copper conductor section (mm²)	RATED CURRENT (In) OF gG FUSES (in A)									
	16	20	25	32	40	50	63	80	100	125
1,5	99/113	86/87	40/59	21/29	13/16	7/9				
2,5		134	110/122	67/84	41/51	25/33	13/20	8/11		
4			183	139	108/119	67/84	46/58	24/32	14/17	7,3/10
6				214	165	139	94/113	55/70	33/41	20/27
10					275	226	172	130	90/108	57/70
16							283	217	168	128
25								336	257	197
35									367	283
50										379

* 99/118:

- 99; Cond. PVC / 118; Cond. PRC