FRENCH CYLINDRICAL

821cp gRB

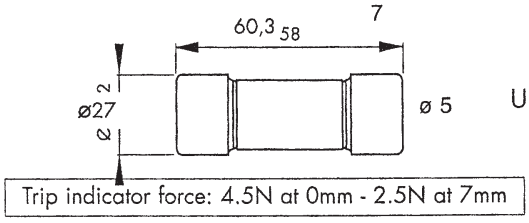
SEMICONDUCTOR PROTECTION FUSES

800V AC
gRB from 8 to 110A
SIZES: 27 X 60

Features/Benefits

- **Extremely high Interrupting rating Fuses:** Protection of power Semiconductors complying with IEC standards 269-1 and 4
- **800V Voltage Rating** according to IEC 33
- **gR Class** as per IEC 269-4
  -Full range protection
  -Improved safety and protection
  -Allows selective coordination
- With built in Trip Indicator

Dimensions



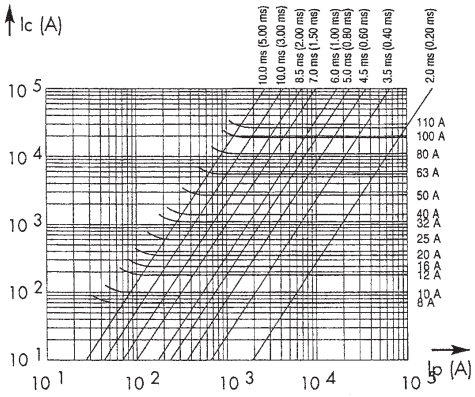
Unit weight
78 g

APPLICATIONS DATA

Voltage rating U_N(V)	Class	Current rating I_N(A)	pre-arcing I^2t @ 1 ms I^2t_p (A^2s)	Total clearing I^2t @ U_N I^2t_t (A^2s)	Watt losses 0.8 I_N	Watt losses I_N	Tested interrupting rating	CATALOG NO.	REF	PACK
800	gRB	8	4.25	70	1.2	2.0	175 kA @ 700 V	821 CP GRB27.60 8	R221436	10
		10	8.0	100	1.3	2.3		821 CP GRB27.60 10	S221437	10
		12	17.0	180	1.4	2.5		821 CP GRB27.60 12	T221438	10
		16	26.5	250	1.9	3.5		821 CP GRB27.60 16	V221439	10
		20	38.5	350	2.4	4.0		821 CP GRB27.60 20	W221440	10
		25	73.0	600	2.8	5.0		821 CP GRB27.60 25	X221441	10
		32	130	1000	3.5	6.0		821 CP GRB27.60 32	Y221442	10
		40	195	1400	4.7	8.0	90 kA @ 800 V	821 CP GRB27.60 40	Z221443	10
		50	430	2700	4.8	8.5		821 CP GRB27.60 50	A221444	10
		63	965	5500	5.6	10		821 CP GRB27.60 63	B221445	10
		80	1890	11000	6.4	11.5		821 CP GRB27.60 80	C221446	10
		100	3480	19000	7.4	13		821 CP GRB27.60 100	D221447	10
		110	4670	27000	7.7	14		821 CP GRB27.60 110	E221448	10

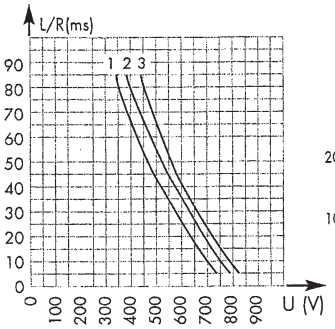
Minimum operating voltage for trip-indicator: 20 V
See Fuse Blocks and Fuse Holders section

Total clearing I²t



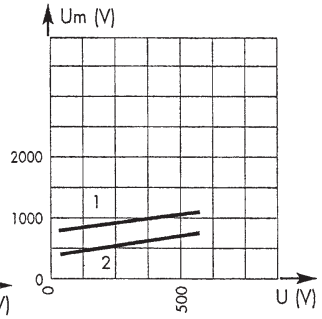
Above: Horizontal curves show maximum values of total clearing I^2t (I^2tt) as function of prospective current Ip. @ U_N with cosj = 0.15 Oblique lines indicatye total clearing duration Tt and associated pre-arching duration in brackets.

DC Voltage Capabilities vs. Time Constant



Provides the DC voltage capability of a fuse as a function of the circuit time constant.

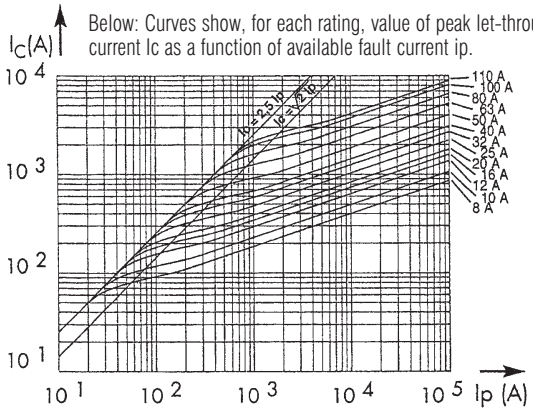
DC Peak Arc Voltage



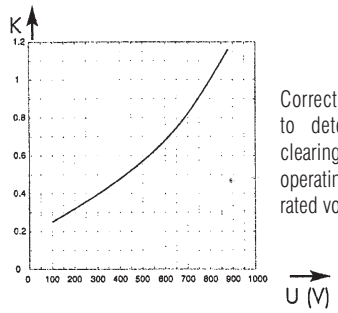
1 - L/R = 60 ms / 2 - L/R = 30 ms
Above: Curves indicate peak arc voltage Um which may appear across fuse terminals of working voltage U, for different values of time constant L/R of the fault circuit.

D

Peak let-thru Data

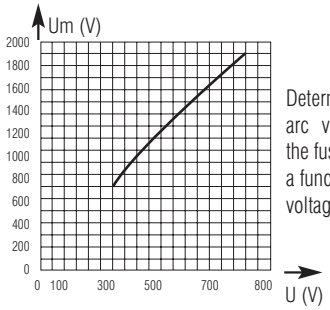


Clearing i2t vs. Operating Voltage



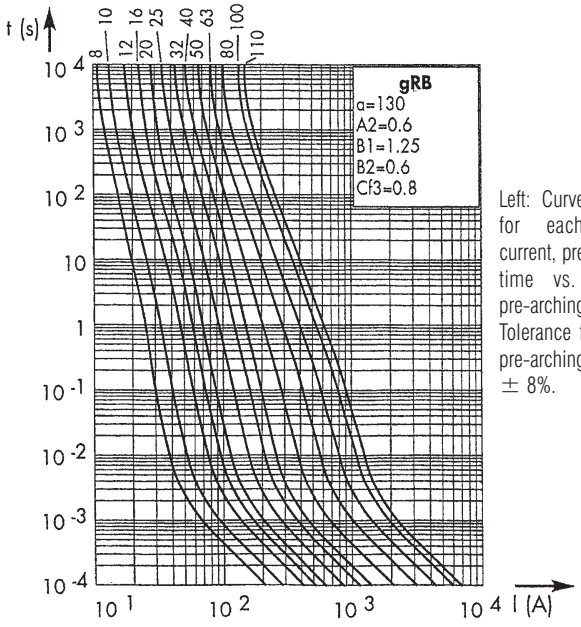
Correction Factor to determine the clearing I^2t of a fuse operating below its rated voltage

Peak arc voltage



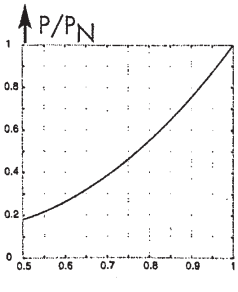
Determines the peak arc voltage across the fuse terminals as a function of applied voltage.

Melting Time Current Data



Left: Curves show, for each rated current, pre-arching time vs. R.M.S. pre-arching current. Tolerance for mean pre-arching current ± 8%.

Watts loss Correction



Correction factor to determine watts loss value of a fuse operating below its rated current.