



BRITISH STANDARD
500 - 660 V AC
gRB - URB from 20 to 400 A
Size : 000

- EXTREMELY HIGH INTERRUPTING RATING FUSES:
PROTECTION OF POWER SEMI CONDUCTORS ACCORDING
TO 269.1 AND 4 IEC STANDARD AND EN 60269-1.4
- 500- 660 V VOLTAGE RATING (RATING 20 TO 400 A)
- gR CLASS (gRB RATINGS 20 TO 125 A) ACCORDING
TO VDE 636-23
 - CLEARING ALL OVERLOADS
 - IMPROVING SAFETY AND PROTECTION
 - ENABLING SELECTIVE COORDINATION WITH ALL THE FUSES
- aR CLASS (URB RATINGS 75 TO 400 A) ACCORDING TO VDE 636-23
AND IEC 269.4
- TWO MODELS ACCORDING TO BS 88-4 AND EN 60 269 .4
STANDARDS; Z3 DRAWING (74 mm BETWEEN AXES) WITHOUT
BLOWN FUSE INDICATION - WITH SEPARATED TRIP INDICATOR



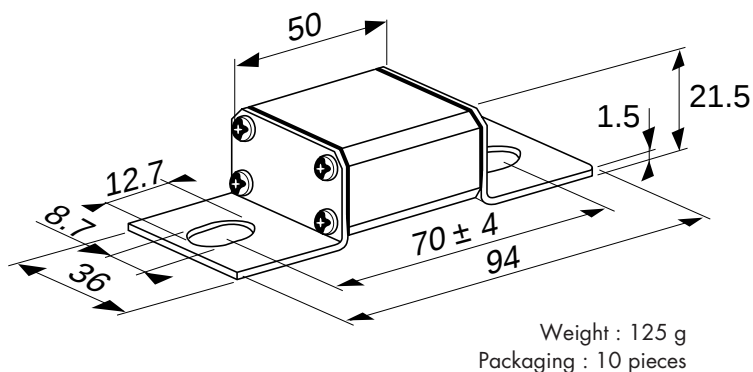
MAIN CHARACTERISTICS

Voltage rating U_N (V)	Class	Current rating I_N (A)	pre-arcing $I_{2t} @ 1 \text{ ms}$ $I_{2t_p}^2 (A^2_s)$	Total clearing $I_{2t} @ U_N$ $I_{2t_f}^2 (A^2_s)$	Watt losses		Tested interrupting rating	Estimated interrupting rating
					0.8 I_N	I_N		
660 690+6%	gRB	20	12	80	3.8	7	200 k A @ 660 V	300 k A @ 660 V
		25	20	150	5.0	9		
		32	39	270	5.5	10		
		40	70	460	6.6	12		
		50	102	730	7.7	14		
		63	210	1500	8.8	16		
		80	475	2900	9.9	18		
		100	970	6000	11	20		
		125	1900	11800	11.6	21		
660 690+6%	URB	75	350	2250	11.2	20.5	200 k A @ 660 V	300 k A @ 660 V
		80	390	2500	11.6	21		
		100	690	4200	12.7	23		
		110	950	6800	13.5	24.5		
		125	1300	8900	14.3	26		
		160	2700	16000	17.0	31		
		200	5250	31500	19.8	36		
		250	9900	52000	24.8	45		
		315	15500	82000	31.9	58		
500	URB	350	22400	110000	31.9	58	120 k A @ 500 V	
		400	33200	160000	36.3	66		

Minimum operating voltage for the separated trip-indicator: 20 V

REFERENCES

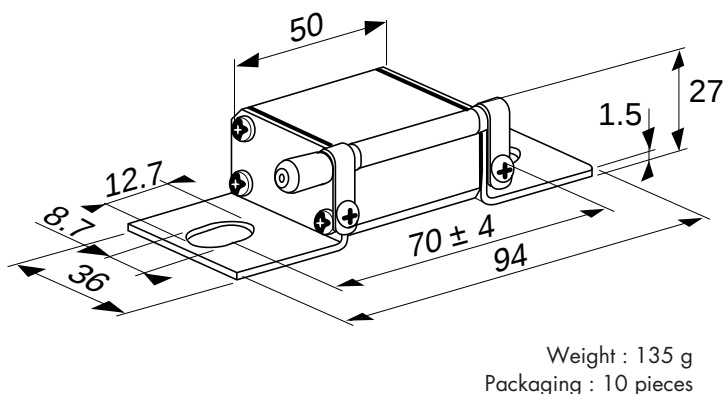
BRITISH STANDARD WITHOUT BLOWN FUSE INDICATOR



Current rating	Code	Part #
20	6,6 gRB 000 BS88/020	T 330044
25	6,6 gRB 000 BS88/025	V 330045
32	6,6 gRB 000 BS88/032	W 330046
40	6,6 gRB 000 BS88/040	X 330047
50	6,6 gRB 000 BS88/050	Z 330049
63	6,6 gRB 000 BS88/063	A 330050
80	6,6 gRB 000 BS88/080	N 330108
100	6,6 gRB 000 BS88/100	H 330103
125	6,6 gRB 000 BS88/125	P 330109

75	6,6 URB 000 BS88/075	B 330051
80	6,6 URB 000 BS88/080	C 330052
100	6,6 URB 000 BS88/100	D 330053
110	6,6 URB 000 BS88/110	E 330100
125	6,6 URB 000 BS88/125	E 330054
150	6,6 URB 000 BS88/150	F 330101
160	6,6 URB 000 BS88/160	F 330055
200	6,6 URB 000 BS88/200	G 330056
250	6,6 URB 000 BS88/250	H 330057
315	6,6 URB 000 BS88/315	J 330058
350	5 URB 000 BS88/350	X 330116
400	5 URB 000 BS88/400	G 330194

BRITISH STANDARD WITH SEPARATED BLOWN FUSE TRIP-INDICATOR

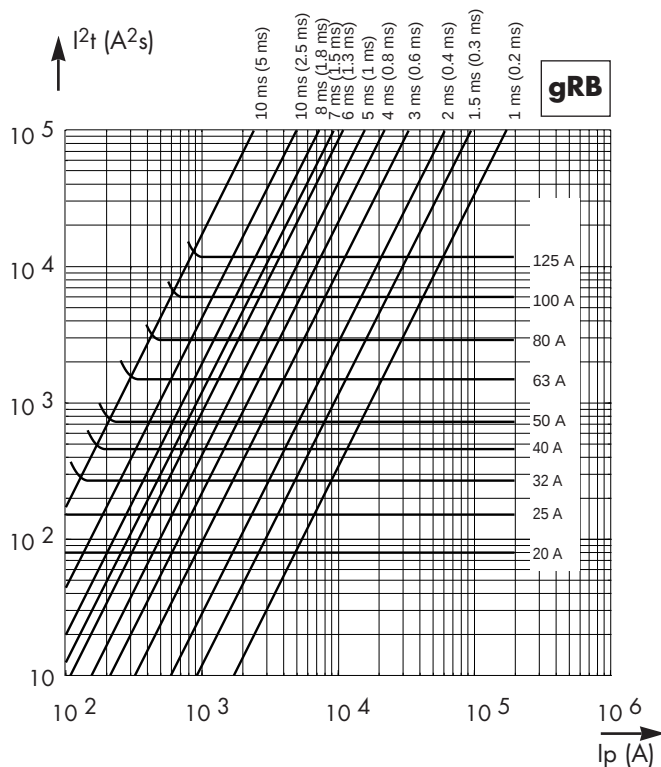


The use of a MC 6.3 GR 2-5N blown fuse remote sensing microswitch is possible.
Part # : Y 310015. mounted on the separated trip-indicator.
Consult data sheet 31xxx GB

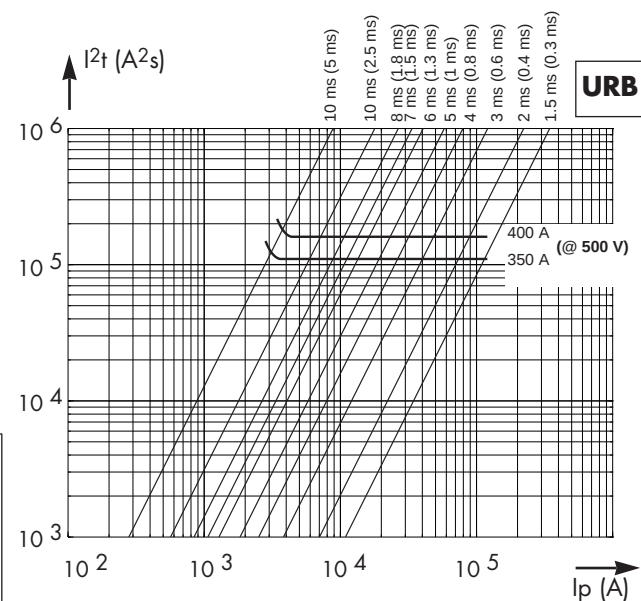
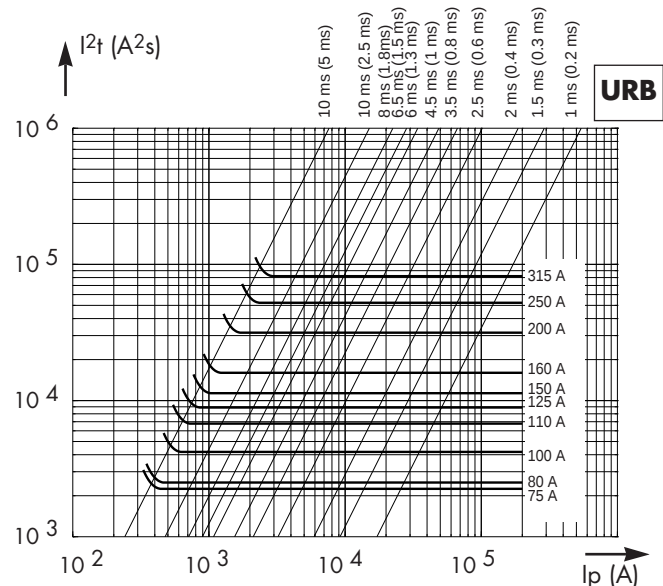
Current rating	Code	Part #
20	6,6 gRB 000 BS88P/020	Y 330117
25	6,6 gRB 000 BS88P/025	Z 330118
32	6,6 gRB 000 BS88P/032	A 330119
40	6,6 gRB 000 BS88P/040	B 330120
50	6,6 gRB 000 BS88P/050	C 330121
63	6,6 gRB 000 BS88P/063	D 330122
80	6,6 gRB 000 BS88P/080	E 330123
100	6,6 gRB 000 BS88P/100	F 330124
125	6,6 gRB 000 BS88P/125	G 330125

75	6,6 URB 000 BS88P/075	H 330126
80	6,6 URB 000 BS88P/080	J 330127
100	6,6 URB 000 BS88P/100	K 330128
110	6,6 URB 000 BS88P/110	L 330129
125	6,6 URB 000 BS88P/125	M 330130
150	6,6 URB 000 BS88P/150	N 330131
160	6,6 URB 000 BS88P/160	P 330132
200	6,6 URB 000 BS88P/200	Q 330133
250	6,6 URB 000 BS88P/250	R 330134
315	6,6 URB 000 BS88P/315	S 330135
350	5 URB 000 BS88P/350	T 330136
400	5 URB 000 BS88P/400	H 330195

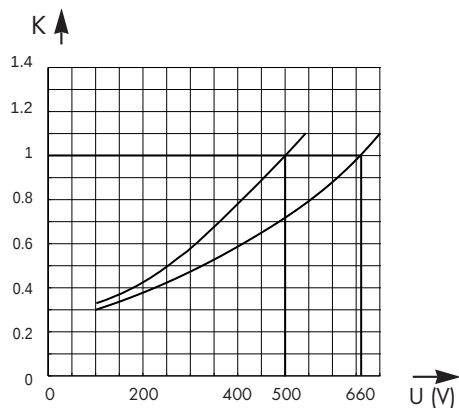
Total clearing I^2t



The flat curves show for each rated current the maximum values of total clearing I^2t (I^2t_t) as a function of a prospective current I_p . @ U_{N_L} with $\cos\phi = 0.15$. The crosswise lines indicate the total clearing duration T_t and the associated pre-arcing duration in brackets.

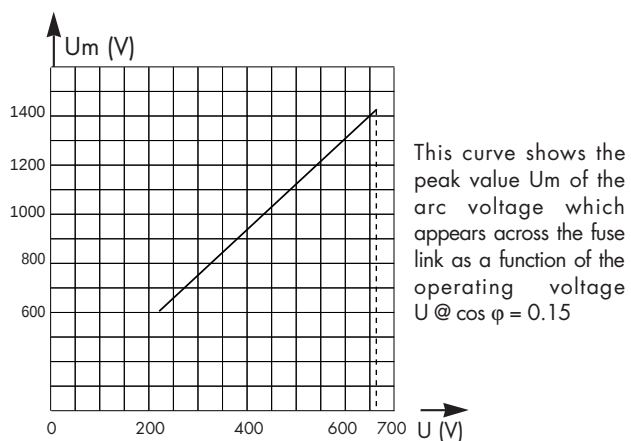


I^2t corrective factor



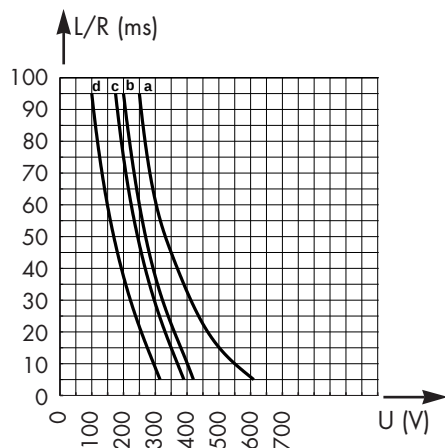
The mean curves show the variation of the total clearing time (I^2t_t) and the total clearing duration T_t as a function of operating voltage U .

Peak arc voltage



This curve shows the peak value U_m of the arc voltage which appears across the fuse link as a function of the operating voltage U @ $\cos\phi = 0.15$.

D.C. Applications data



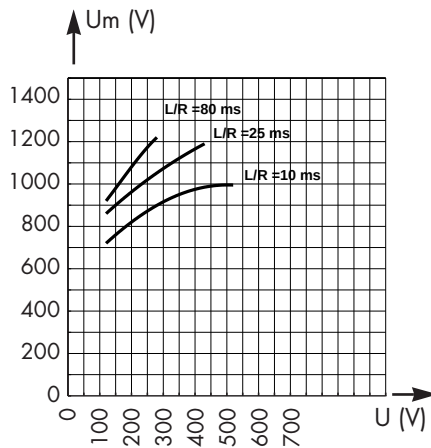
These curves indicate the permissible value of time constant L/R as a function of the D.C. working voltage.

Curve a: for ratings from 20 to 160 A

Curve b: for ratings from 180 to 200 A

Curve c: for ratings from 250 to 315 A

Curve d: for ratings from 350 to 400 A



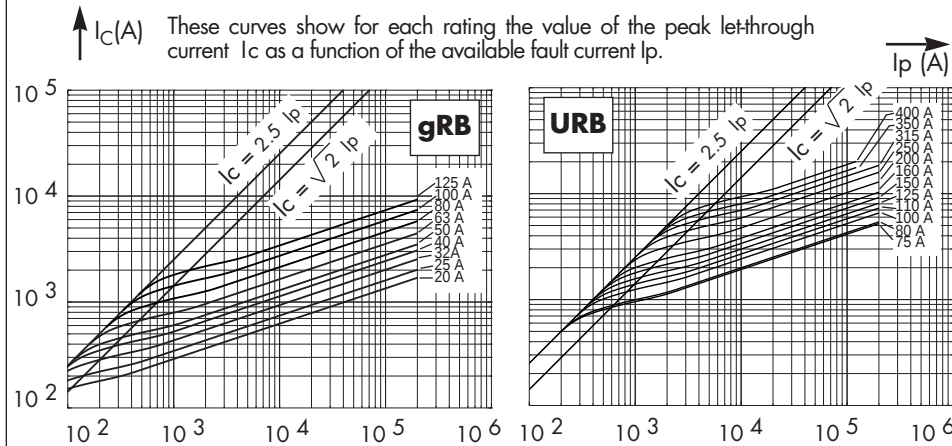
This curve indicates the peak arc voltage U_m which may appear across the fuse terminals at working voltage U .

Rated current	Curve	I _{pm} (A)
20	a	60
25	a	65
32	a	90
40	a	120
50	a	150
63	a	200
80	a	270
100	a	370
125	a	500
160	a	700
200	b	1200
250	c	1800
315	c	2200
350	d	2600
400	d	3100

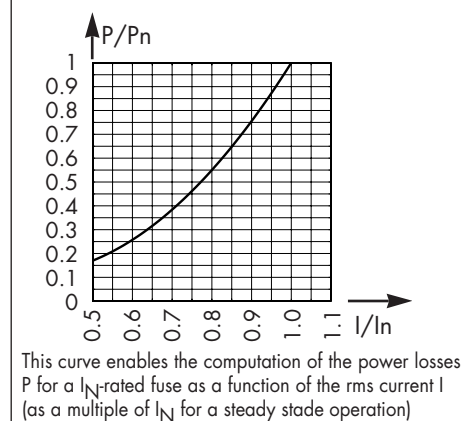
The I_{pm} values give the minimum DC interrupting current in amps.

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Current limitation curves

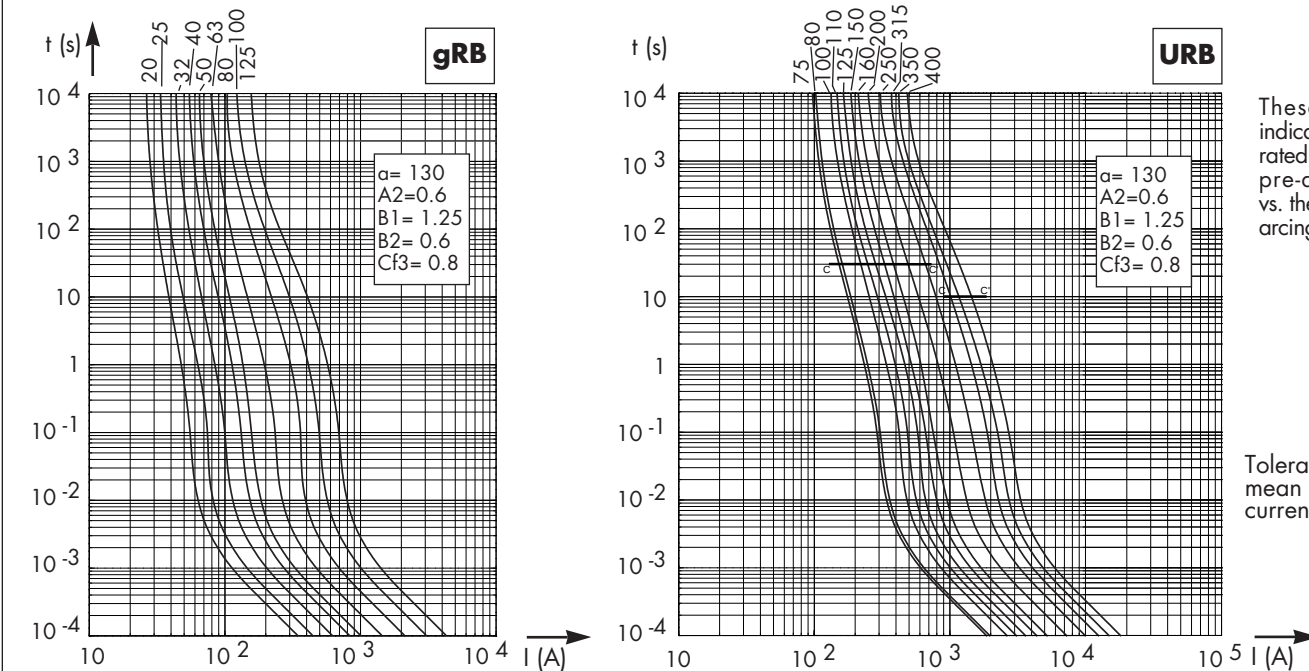


Watt losses



Furthermore, due to constant evolution of techniques and norms, we reserve the right to modify, at any time, the characteristics and specifications contained in this document. FERRAZ refuses all and any responsibility concerning their use whatever the purpose or the application.

Time vs current characteristics



These curves indicate, for each rated current, the pre-arcing time vs. the R.M.S. pre-arcing current

Tolerance for the mean pre-arcing current $\pm 8\%$.

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