

Semiconductor Fuses



BS88 Fuses

250V

BRITISH STANDARD
250 V - URE - URGS - URZ
From 5 to 180 A
Sizes 10x28 - 17x27

- ▶ EXTREMELY HIGH INTERRUPTING RATING FUSES:
PROTECTION OF POWER SEMICONDUCTORS AS PER
IEC STANDARD 269.1 AND 4
- ▶ 250 V VOLTAGE RATING COMPLYING WITH IEC 33
- ▶ GR CLASS (RATINGS FROM 5 TO 32 A)
AS PER VDE 636-23 AND IEC 269.4
- ▶ aR CLASS (RATINGS FROM 7 to 180 A) COMPLYING WITH
VDE 636-23 AND IEC 269.4
- ▶ TWO MODELS COMPLYING WITH BS 88-4
- WITHOUT INDICATOR
- WITH SEPARATE TRIP-INDICATOR (SIZE 17x27)
- ▶ 17x27 are UL Recognized



MAIN CHARACTERISTICS

Voltage rating U_N (V)	Size	Class	Current rating I_N (A)	pre-arcing $I^2t @ 1 \text{ ms}$ I^2t_p (A ² s)	Total clearing $I^2t @ U_N$ A ² s		Watt losses		Tested interrupting rating
					$I_p \leq 30 I_N$	$I_p > 30 I_N$	$0.8 I_N$	I_N	
250 V	10x28	URE	5	1.3	10	11	0.6	1	160 kA @ 250 V
			6	1.8	13	15	0.7	1.2	
			10	2.4	18	20	1.2	2.1	
			12	4.3	28	33	1.6	2.8	
			15	6.7	41	48	2.0	3.5	
			20	15.0	85	100	2.2	4.0	
			25	27.0	135	160	2.6	4.7	
			32	53.0	240	280	3.0	5.4	
	17x27	URGS	7	1.3	8,5	9,8	0.56	1	160 kA @ 250 V
			10	4.5	21	23,8	0.84	1.5	
			12	5.9	27	31	1.1	2.0	
			16	11.2	50	59	1.7	3.0	
			20	15.6	80	100	2.2	3.9	
			25	30.0	130	160	2.7	4.8	
			30	45.0	195	235	3.2	5.6	
			35	63.0	270	330	3.7	6.5	
		URZ	50	180.0	790	940	4.9	8.8	160 kA @ 250 V
			60	250.0	1100	1310	5.8	10.4	
			75	380.0	1670	1990	7.2	13.6	
			80	480.0	2100	2530	7.25	13.7	
			100	730.0	3350	4060	6.5	11.5	
			125	850.0	5720	6920	6.7	12.3	
			150	1250.0	7930	9590	7.4	13.6	
			160	1730.0	9600	11700	8.8	15.6	
180	2090.0	14500	17500	9.5	17				

Minimum Operating voltage for separate trip indicator = 20 V

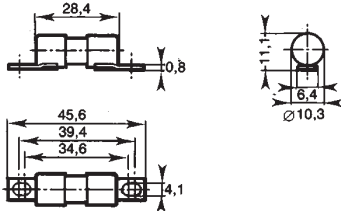
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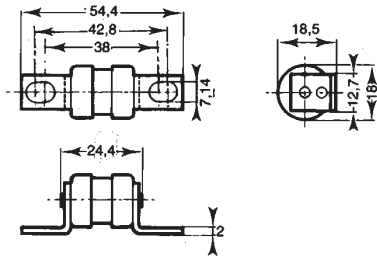
CP 10x28 - Without trip-indicator



**BS 88 part 4 requires respectively Ø 8.7 and 8.8

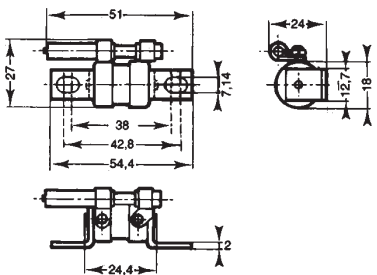
Size	Catalog Number	Ref. Number	Pack.
10x28	2.5 URE 10/5	M082489	10 (100 g)
	2.5 URE 10/6	E097478	
	2.5 URE 10/10	L082488	
	2.5 URE 10/12	P097487	
	2.5 URE 10/15	K082487	
	2.5 URE 10/20	J082486	
	2.5 URE 10/25	X097494	
2.5 URE 10/32	N081984		

CP 17x27 - Without trip-indicator



Size	Catalog Number	Ref. Number	Pack.
17x27	2.5 URGS 17/7	M076647	10 (860 g)
	2.5 URGS 17/10	N076648	
	2.5 URGS 17/12	P076649	
	2.5 URGS 17/16	Q076650	
	2.5 URGS 17/20	L097507	
	2.5 URGS 17/25	R076651	
	2.5 URGS 17/30	S076652	
	2.5 URGS 17/35	T076653	
	2.5 URGS 17/50	V076654	
	2.5 URGS 17/60	W076655	
	2.5 URGS 17/75	X076656	
	2.5 URGS 17/80	Z085559	
	2.5 URZ 17/100	Y085558	
	2.5 URZ 17/125	G097526	
	2.5 URZ 17/150	W085556	
2.5 URZ 17/160	H097527		
2.5 URZ 17/180	N097532		

CP 17x27 - With separated trip-indicator BS88-4



Microswitch MC6.3 GR 2-5N Ref: Y301015

Size	Catalog Number	Ref. Number	Pack.
17x27	2.5 URGS 17 P 7	P097533	10 (930 g)
	2.5 URGS 17 P 10	Q097534	
	2.5 URGS 17 P 12	S097536	
	2.5 URGS 17 P 16	X097540	
	2.5 URGS 17 P 20	B097544	
	2.5 URGS 17 P 25	D097546	
	2.5 URGS 17 P 30	E097547	
	2.5 URGS 17 P 35	F097548	
	2.5 URGS 17 P 50	J097551	
	2.5 URGS 17 P 60	H081082	
	2.5 URGS 17 P 75	K097552	
	2.5 URGS 17 P 80	L097553	
	2.5 URZ 17 P 100	P097556	
	2.5 URZ 17 P 125	Q097557	
	2.5 URZ 17 P 150	R097558	
	2.5 URZ 17 P 160	S097559	
	2.5 URZ 17 P 180	T097560	

Microswitch MC 6.3 GR 2.5 N - Park# Y310015 - See technical data: Y 600413

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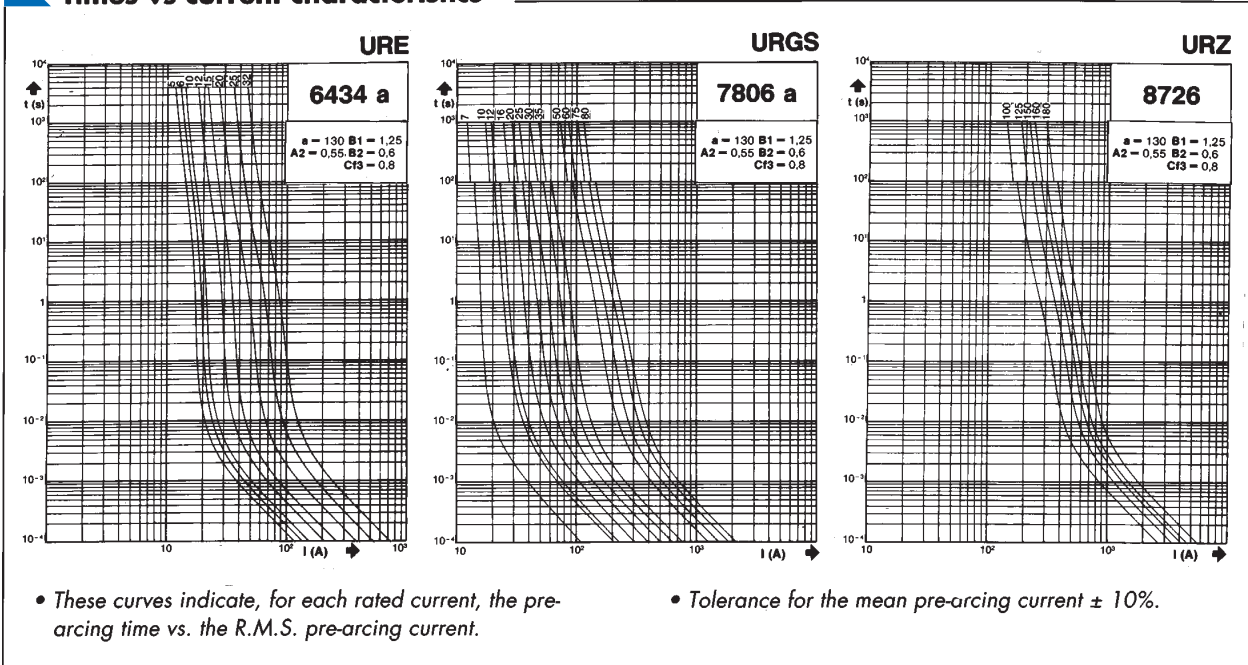
European Fuses

BS88 Fuses

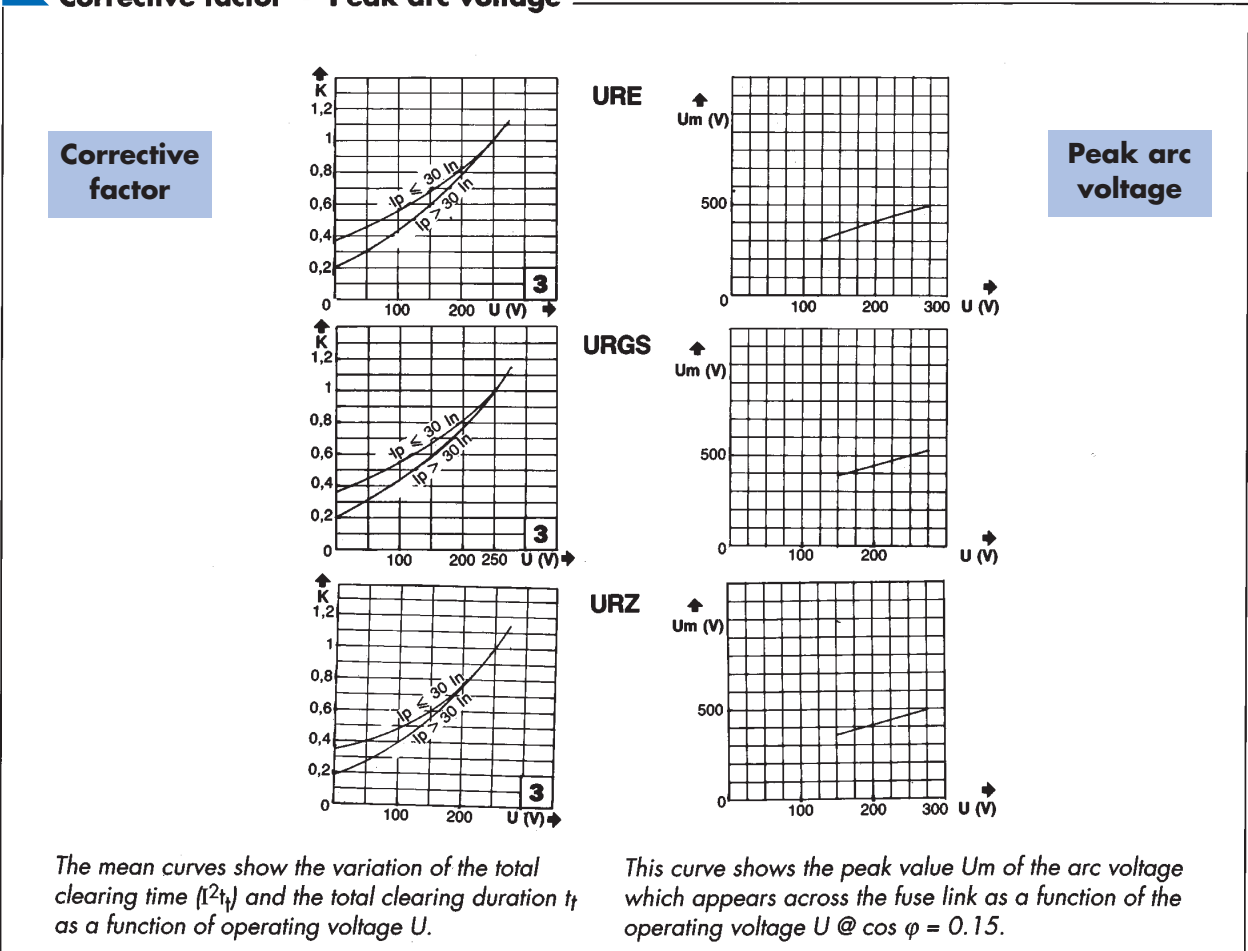
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ELECTRICAL CHARACTERISTICS

Times vs current characteristics



Corrective factor - Peak arc voltage



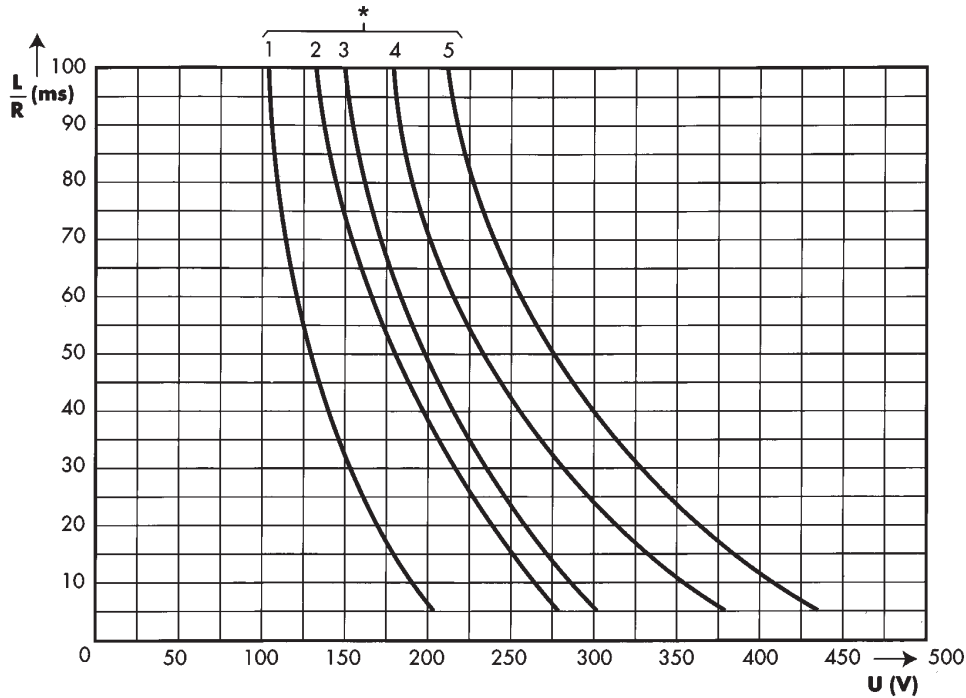
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D.C. Applications data



- These curves indicate the permissible value of time constant L/R as a function of the D.C. working voltage.
- The I_{pm} values give the minimum DC interrupting current in amps.

Curves # and I_{pm} for each rating			
Class	Rated current	*	I_{pm} (A)
URE	5	5	40
	6	5	50
	10	5	55
	12	5	80
	15	5	100
	20	5	130
	25	5	175
URGS	32	5	255
	7	5	40
URZ	100	4	190
	125	3	250
	150	2	300
	160	2	330
	180	1	400