

## Bussmann series BS88 fuse links cross reference

British standard																							
Bussmann series standard catalogue numbers 240 to 550 V a.c.																							
	SSD	NSD	ESD	SMD	STD	NITD	AAO	BAO	CEO	OSD	DEO	AC/BC	AD/BD	CD	DD	ED	EF5	EF	FF	FG	GG	GF	GH
Lawson	SS	NS	ES	MD	LST	NIT	TIA	TIS	TCP	TIS	TFP	TB	TBC	TC	TF	TKF/TFM	TKM	TM	TTM	TT	TLT	TLM	TLU
MEM	SS	SN2	SP	-	LS	SA2	SB3	SB4	SD5	SD6	SE3/SE4	SF3/SF4	SF5	SF6	SF7	SG7	SH8	SH9	SY9	SY10	SH10	-	-
Mersen		BNS42V/BS355V	BES42V/BS355V			BNT42V/BNT155V	BT1A42V	BT1S42V	BT1CP42V	BT1FP42V		BT1BC42V	BT1C42V	BT1F42V	BT1K42V/BT1M69V	BT1KM42V	BT1KM42V	BT1TM42V					
General industrial fuses																							
BS88 size reference	E1	F1	F2			A1	A2	A3	A4					B1	B2	B3/B4		C1	C2		C3	D1	
IEC utilisation class	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG	gG
Rated voltage (V a.c.)	240	550	550	240	550	550	550	500	500	500	500	500/550	500/550	500	415	415	415	415	690	550	550	550	550
Rated current (Amps)	2	2	2	2	2	2	2	40	32	80	125	2	2	80	125	250	125	355	450	450	710	710	710
	10	10	10	10	10	10	10	50	40	160	200	6	6	10	160	315	160	400	500	500	800	800	800
	6	6	6	6	6	6	6	63	50	100	200	6	6	10	200	355	200	400	630	630	1000	1000	1000
	10	10	10	10	10	10	10	63	63	100	200	10	10	10	200	400	250	400	630	630	1250	1250	1250
	16	16	16	16	16	16	16	100	100	100	100	16	16	16	16	16	315	315	315	315	315	315	315
	20	20	20	20	20	20	20	20	20	20	20	20**	20**	20**	20**	20**	20**	20**	20**	20**	20**	20**	20**
	25	25	25	25	25	25	25	25	25	25	25	25**	25**	25**	25**	25**	25**	25**	25**	25**	25**	25**	25**
	32	32	32	32	32	32	32	32	32	32	32	32**	32**	32**	32**	32**	32**	32**	32**	32**	32**	32**	32**
	40	40	40	40	40	40	40	40	40	40	40	40**	40**	40**	40**	40**	40**	40**	40**	40**	40**	40**	40**
	50	50	50	50	50	50	50	50	50	50	50	50**	50**	50**	50**	50**	50**	50**	50**	50**	50**	50**	50**
	63	63	63	63	63	63	63	63	63	63	63	63**	63**	63**	63**	63**	63**	63**	63**	63**	63**	63**	63**
Motor fuses																							
IEC utilisation class		gM	gM			gM	gM	gM	gM	gM	gM	gM	gM	gM	gM	gM	gM	gM	gM	gM	gM	gM	gM
Rated voltage (V a.c.)	415	415	415	415	415	500	500	500	415	415	415	500	500	415	415	415	550	550	550	550	550	550	550
Extended motor range		20M25	63M80			20M25	32M40	63M80	100M125	100M125	200M250	63M80	100M125	200M315	315M400	400M500							
		20M32	63M100			20M32	32M50	63M100	100M160	100M160	200M315	63M100	100M160	200M315	315M400	400M500							
		20M36				20M36	32M63		100M200														
		32M36				32M36	32M50																
		32M40				32M40	32M63																
		32M50				32M50																	
		32M63				32M63																	
Dimensions (mm)																							
Overall length	47	58.5	68	29	47	55	85	87	11	95	110	113.5	128.5	126	136	136	158	210	210	262	262	210	198
Fixing centres	N/A	N/A	N/A	N/A	35	44	73	73	94	73	94	97.5	111	111	111	111	133/184	133/184	133/184	167/231	165/231	134/185	149
Maximum diameter	12	17.5	21	12.7	13	17.5	21	21	31	26	31	21	21	31	47	59	31	59	74	74	83	83	100
Tag configuration	Solid Blade	Solid Blade	Solid Blade	Ferrule	Offset	Offset	Offset	Offset	Offset	Offset	Offset	Centre	Centre	Centre	Centre	Centre	Centre	Centre	Centre	Centre	Centre	Centre	Centre
Number of hole fixings	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4
Bussmann series Camaster/Safeloc Fuse Holder		32NNS	63ENS			CM32FC	CM32F	CM63F		CM100F													
Bussmann series Red Spot Fuse Holder	SC20	SC32	SC63			RS20H	RS32	RS63	RS100							RS400	RS400						
Approvals																							
BS88	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IEC 60289	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ASTA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

### Full load circuit of typical induction motors

Motor rating	Rated voltage (V a.c.)						
	kW	HP	220	380	415	550	660
0.37	0.5	2	1.15	1.05	1	0.8	0.7
0.55	0.75	2.7	1.6	1.5	1.4	1.1	0.9
0.75	1	3.9	2.3	2	1.9	1.5	1.3
1.1	1.5	4.7	2.8	2.5	2.4	1.9	1.6
1.5	2	6.5	3.8	3.5	3.3	2.6	2.2
2.2	3	9.3	5.4	5	4.7	3.8	3.2
3	4	12	7.1	6.5	6.1	4.9	4.1
4	5.5	15.4	9	8.4	7.9	6.4	5.3
5.5	7.5	20.7	11.9	11	10.3	8.2	6.9
7.5	10	28	16.1	14.4	14	11.2	9.3
11	15	39.1	23	21	19.8	15.8	13.2
15	20	52.9	30.5	28	26.4	21.1	17.6
18.5	25	66	38	35	33	26.4	22
22	30	77	45	41	39	31	26
30	40	103	60	55	52	42	35
37	50	128	75	69	65	52	43.3
45	60	151	87	80	75	60	50
55	75	185	107	98	92	74	62
75	100	257	148	136	128	102	85
90	120	308	180	164	158	123	102
110	150	370	214	196	185	148	123
132	175	426	247	226	213	170	142
150	200	500	292	268	252	202	168
180	215	-	300	275	260	207	173
200	270	-	391	358	338	270	225
240	320	-	467	428	404	323	268
280	375	-	533	488	460	368	307
300	400	-	573	525	495	396	330
320	425	-	587	538	507	406	338

### Direct on-line starting

Motor rating	Amps		Recommended fuse link	Alternative extended motor circuit rating
	From	To		
0	0	0.7	2	
0.8	1.4	4	4	
1.1	1.5	2	6	
1.5	2	3	10	
2.1	3	6.1	16	
3.1	6.1	16	20	
6.2	9	25	20M25	
9.1	11	25	20M32	
11.1	14.4	32	32M40	
14.5	15.4	35	32M50	
18	40	50	32M63	
18.1	22	63	63M80	
22.1	28	80	63M100	
28.1	32	40	100M125	
32.1	40	50	100M160	
40.1	51	63	200M250	
51.1	80	80	200M315	
80.1	100	100	315M400	
80.1	100	100	400M500	
99.1	125	125		
125.1	160	160		
160.1	200	200		
200.1	250	250		
250.1	315	315		
315.1	355	355		
355.1	400	400		
400.1	450	450		
450.1	500	500		
500.1	560	560		
560.1	620	670		

### Assisted start (Star/Delta, Auto-Transformer)

Motor FLC	Amps		Recommended fuse link	Alternative extended motor circuit rating
	From	To		
0	0	0.7	2	
1.5	1.4	4	4	
2.2	3.1	6	6	
3.2	5.5	10	10	
5.6	10	16	16	
10.1	14	20	20	
14.1	18	25	20M25	
18.1	22	32	20M32	
22.1	28	35	32M40	
28.1	32	40	32M50	
32.1	40	50	32M63	
40.1	51	63	63M80	
51.1	80	80	63M100	
80.1	100	100	100M125	
100.1	125	125	100M160	
125.1	160	160	200M250	
160.1	200	200	200M315	
200.1	250	250	315M400	
250.1	315	315	400M500	
315.1	355	355		
355.1	400	400		
400.1	450	450		
450.1	500	500		
500.1	560	560		
560.1	620	670		

The products shown on this cross reference chart are a selection of some of the most commonly used low voltage fuse links.

Eaton manufactures one of the most comprehensive range of low voltage fuse links. If you cannot find the fuse link you need please contact Eaton's technical application support for assistance.

Eaton's Bussmann series technical assistance contact numbers:  
 Tel: +44 (0) 1509 882 699 Fax: +44 (0) 1509 882 794 Email: [buletechnical@eaton.com](mailto:buletechnical@eaton.com)

\* For information on our Red Spot fuse range, rated 660/690 V a.c. please contact our Technical Department + 44 (0) 1509 882 699 or, [buletechnical@eaton.com](mailto:buletechnical@eaton.com)