

CT, ET, FE, EET, FEE - 690 V a.c. / 500 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 6 A to 200 A

Specifications

Description

BS88 style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters / rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - 690 V a.c. / 500 V d.c. (IEC)
 - 700 V a.c. / 500 V d.c. (UL)
- Rated current: 6 A to 200 A
- Breaking capacity:
 - CT: 90 kA RMS Sym., 40 kA at 500 V d.c. (IEC)
 - 200 kA RMS Sym., 50 kA at 500 V d.c. (UL)
 - ET, EET, FE and FEE: 200 kA RMS Sym., 50 kA at 500 V d.c.
- Operating Class: aR.

Compatible trip indicator and microswitch

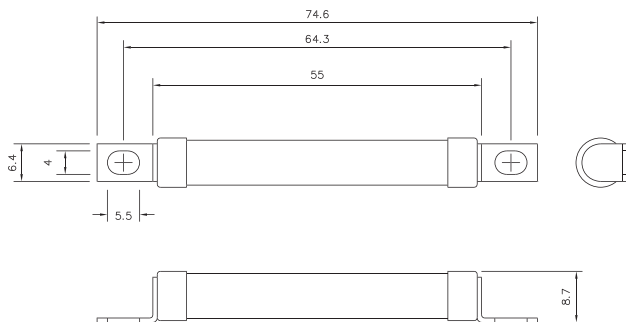
- See details page 391

Standards / Agency information

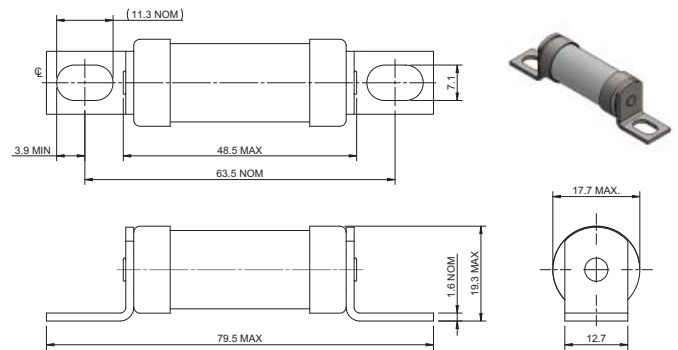
CE, designed and tested to BS88 part 4, IEC 60269 Part 4, Consult Eaton for specific UL Recognition status. CCC for ET, FE, EET, FEE.



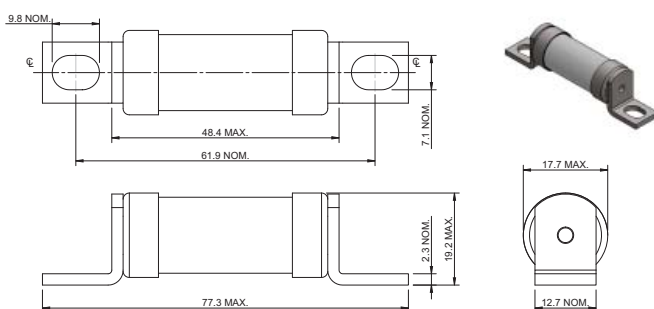
Dimensions (mm) - CT



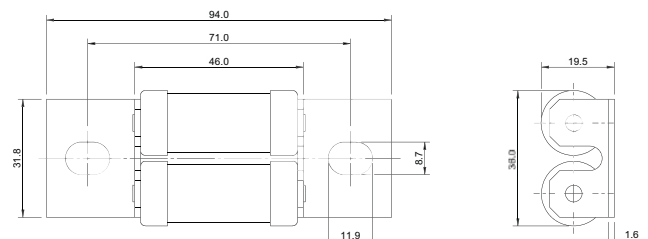
Dimensions (mm) - ET, FE up to 63 A



Dimensions (mm) - ET, FE greater than 63 A



Dimensions (mm) - EET and FEE



Data sheets: 720024, 5785312 (CT, ET), 5785314 (FE), 5785313 (EET), 5785292 (FEE)

British standard BS88 fuse links

CT, ET, FE, EET, FEE - 690 V a.c./500 V d.c. (IEC), 700 V a.c./500 V d.c. (UL), 6 A to 200 A

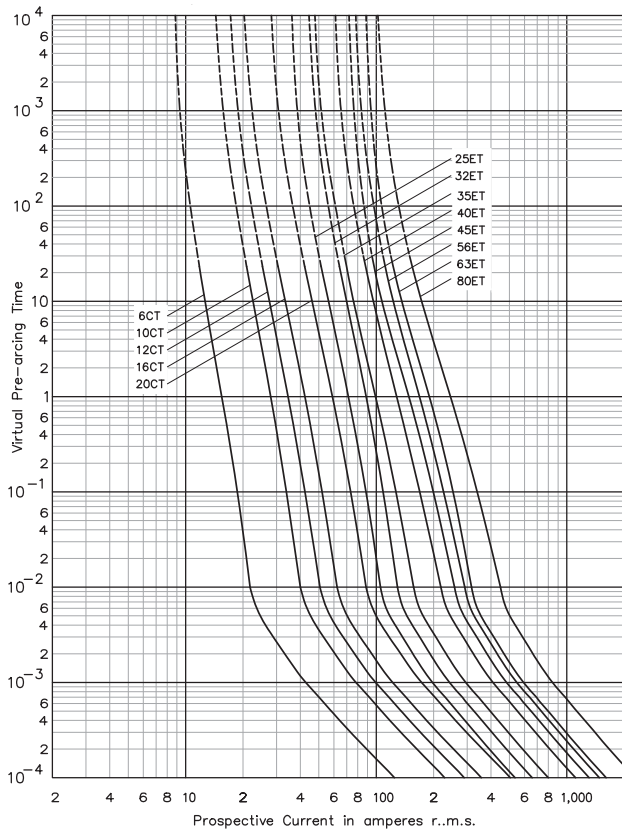
Catalogue numbers

Fuse link type	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)			Watts loss (W)	Catalogue numbers	
			Pre-arcing	Clearing at 415V a.c.	Clearing at 660 V a.c.			
CT	690 V a.c. / 500 V d.c. (IEC)	6	1.8	8.5	12	2	6CT	
		10	7	30	48	3	10CT	
		12	10	40	65	3	12CT	
		700 V a.c. / 500 V d.c. (UL)	16	16	66	110	7	16CT
			20	32	150	220	7	20CT
ET	690 V a.c. / 500 V d.c. (IEC)	25	25	150	250	7	25ET	
		32	32	190	350	11	32ET	
		35	52	310	500	11	35ET	
		40	103	600	900	9	40ET	
		700 V a.c. / 500 V d.c. (UL)	45	103	680	1100	11	45ET
			56	135	950	1500	14	56ET
			63	171	1200	2000	16	63ET
			80	360	2500	4000	18	80ET
FE	690 V a.c. / 500 V d.c. (IEC)	35	33	130	200	9	35FE	
		40	52	180	300	9	40FE	
		45	76	270	450	11	45FE	
		50	103	380	600	11	50FE	
		63	135	480	750	12	63FE	
		700 V a.c. / 500 V d.c. (UL)	71	210	600	950	17	71FE
			80	250	900	1500	20	80FE
			90	360	1300	2100	20	90FE
			100	470	1800	2800	23	100FE
		EET	690 V a.c. / 500 V d.c. (IEC)	90	490	3000	4500	19
110	600			4000	6500	27	110EET	
700 V a.c. / 700 V d.c. (UL)	140			1050	7000	12,000	35	140EET
	160			1500	10,000	17,000	39	160EET
FEE	690 V a.c. / 500 V d.c. (IEC)	100	400	1600	2400	24	100FEE	
		120	540	1900	3100	32	120FEE	
		140	850	2500	3800	36	140FEE	
		160	1000	3700	5700	46	160FEE	
		700 V a.c. / 500 V d.c. (UL)	180	1400	5300	8400	46	180FEE
			200	1900	7100	11,400	52	200FEE

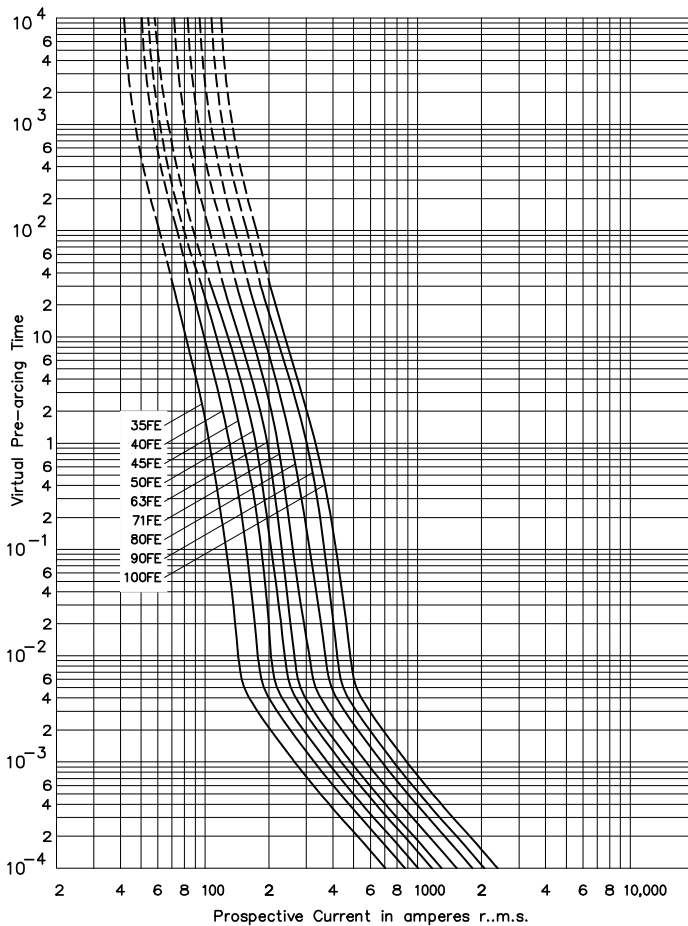
Note: FC, 8ET, 12ET, 15ET, 20ET, 65EET and 75EET are available for replacement purposes on existings equipment.

CT, ET, FE, EET, FEE -690 V a.c. / 500 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 6 A to 200 A

Time-current curve - CT, 6 A to 20 A and ET 25 A to 80 A



Time-current curve - FE, 35 A to 100 A

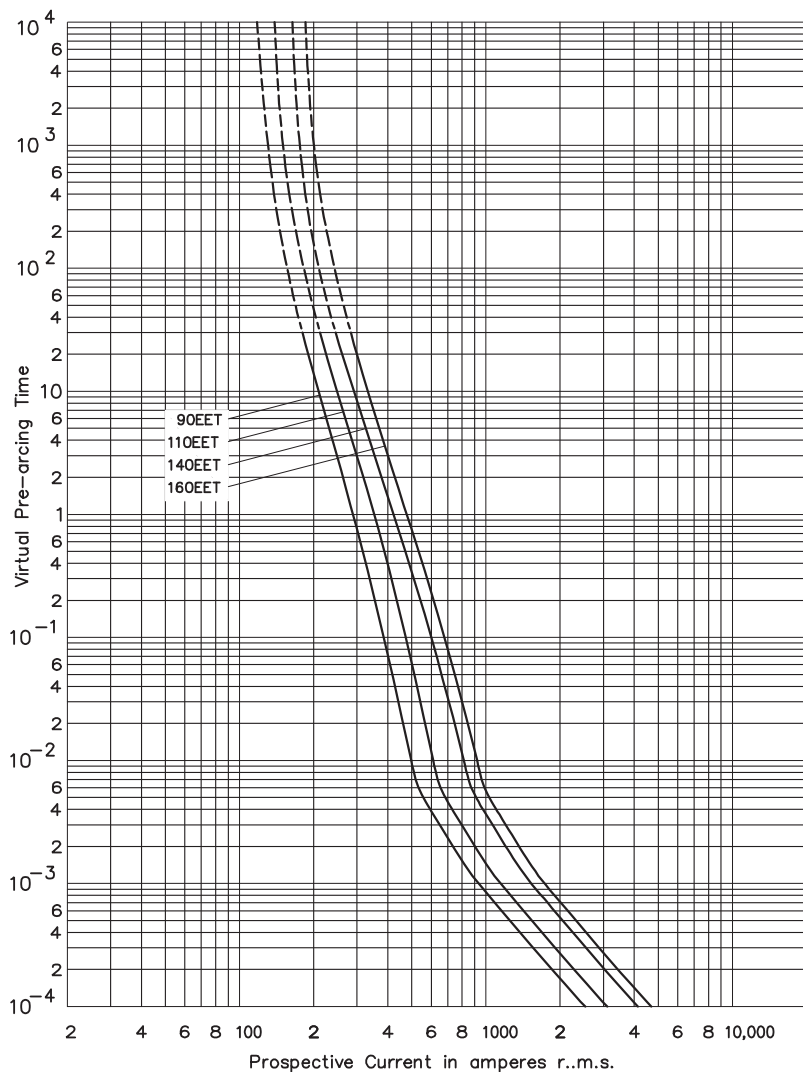


Data sheets: 720024, 5785312 (CT, ET), 5785314 (FE), 5785313 (EET), 5785292 (FEE)

British standard BS88 fuse links

CT, ET, FE, EET, FEE - 690 V a.c. / 500 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 6 A to 200 A

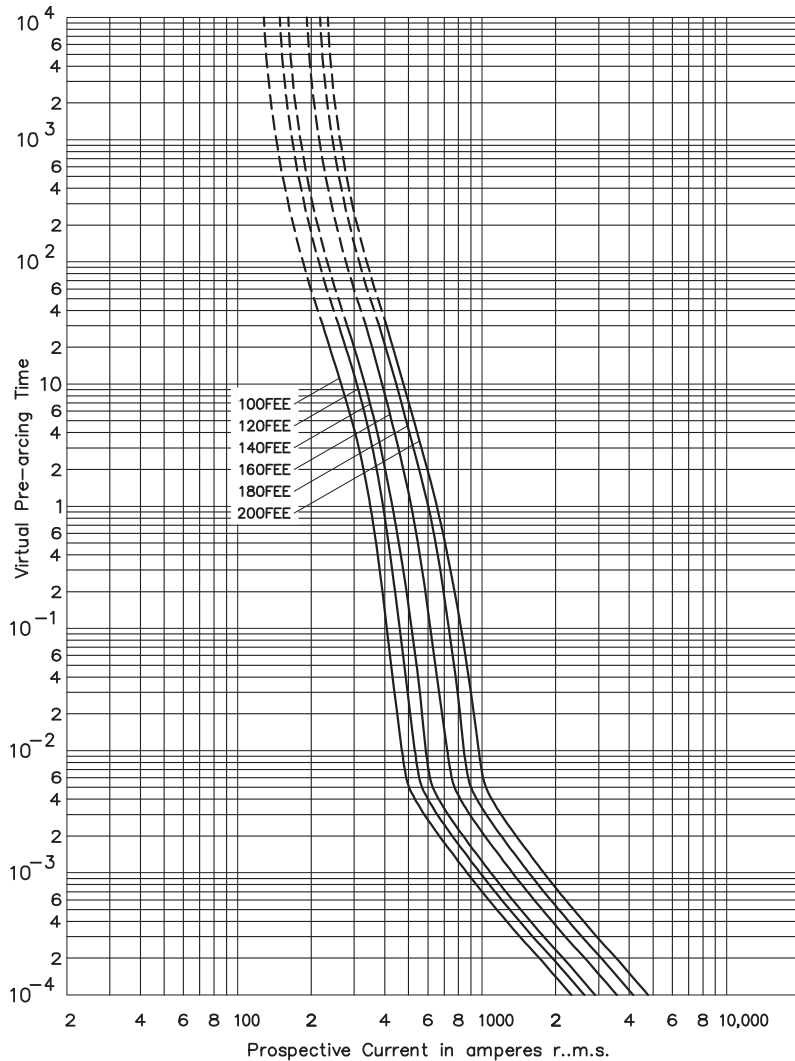
Time-current curve - EET, 90 A to 160 A



Data sheets: 720024, 5785312 (CT, ET), 5785314 (FE), 5785313 (EET), 5785292 (FEE)

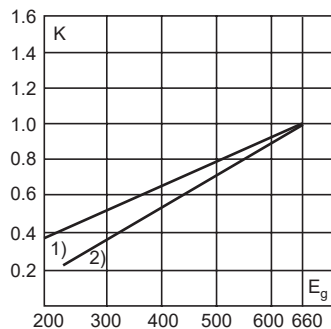
CT, ET, FE, EET, FEE - 690 V a.c./500 V d.c. (IEC), 700 V a.c./500 V d.c. (UL), 6 A to 200 A

Time-current curve - FEE, 100 A to 200 A



Total clearing I²t

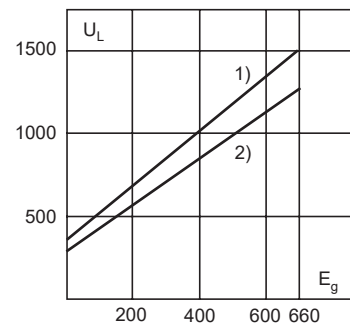
The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).



1) CT, ET, FE, FEE

Arc voltage

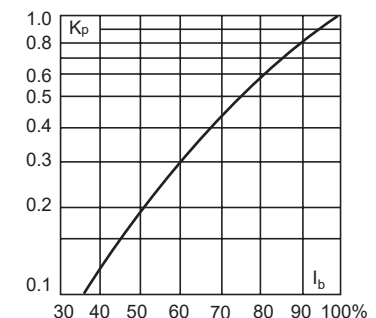
This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15 percent.



1) CT, ET, FE, FEE

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



Data sheets: 720024, 5785312 (CT, ET), 5785314 (FE), 5785313 (EET), 5785292 (FEE)

British standard BS88 fuse links

FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

Specifications

Description

BS88 style bolted tags high speed fuse links for the protection of DC common bus, DC drives, power converters / rectifiers and reduced rated voltage starters.

Technical data

- Rated voltage:
 - FM: 690 V a.c. / 450 V d.c. (IEC); 700 V a.c./500 V d.c. (UL)
 - FMM: 690 V a.c. / 450 V d.c. (IEC)
 - MT and MMT: 690 V a.c. / 350 V d.c. (IEC); 700 V a.c. (UL)
- Rated current: 160 A to 710 A
- Breaking capacity:
 - FM: 200 kA RMS Sym. (IEC/UL), 40 kA at 450 V d.c. (IEC), 50 kA at 500 V d.c. (UL)
 - FMM: 200 kA RMS Sym. (IEC/UL), 40 kA at 450 V d.c. (IEC)
 - MT & MMT: 200 kA RMS Sym. (IEC/UL), 40 kA at 350 V d.c. (IEC)
- Operating Class: aR



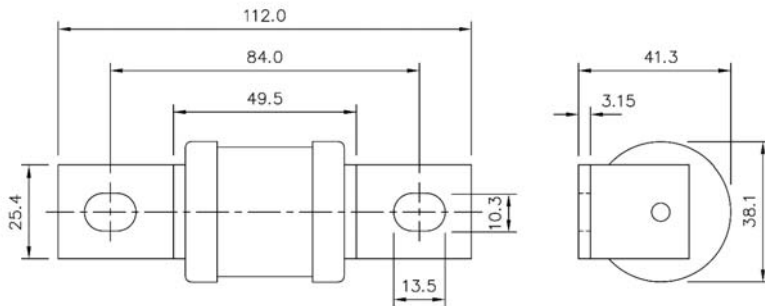
Compatible trip indicator and microswitch

- See details page 391

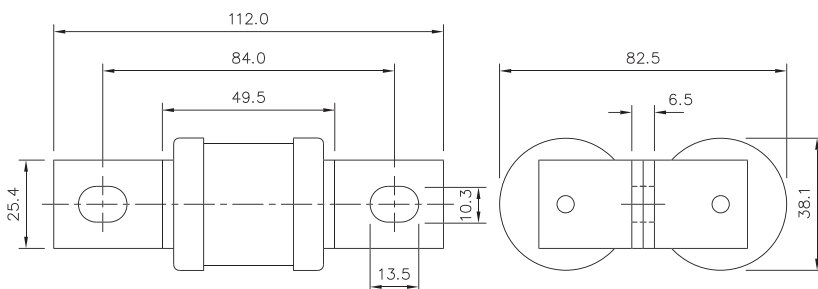
Standards / Agency information

CE, designed and tested to BS88 part 4, IEC 60269 Part 4, UL Recognised. MT and MMT 350 V d.c. (IEC) rating. Consult Eaton for specific UL Recognition status. CCC for FM and FMM.

Dimensions (mm) - FM and MT (indicator optional)



Dimensions (mm) - FMM and MMT (indicator optional)



Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)

FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

Catalogue numbers

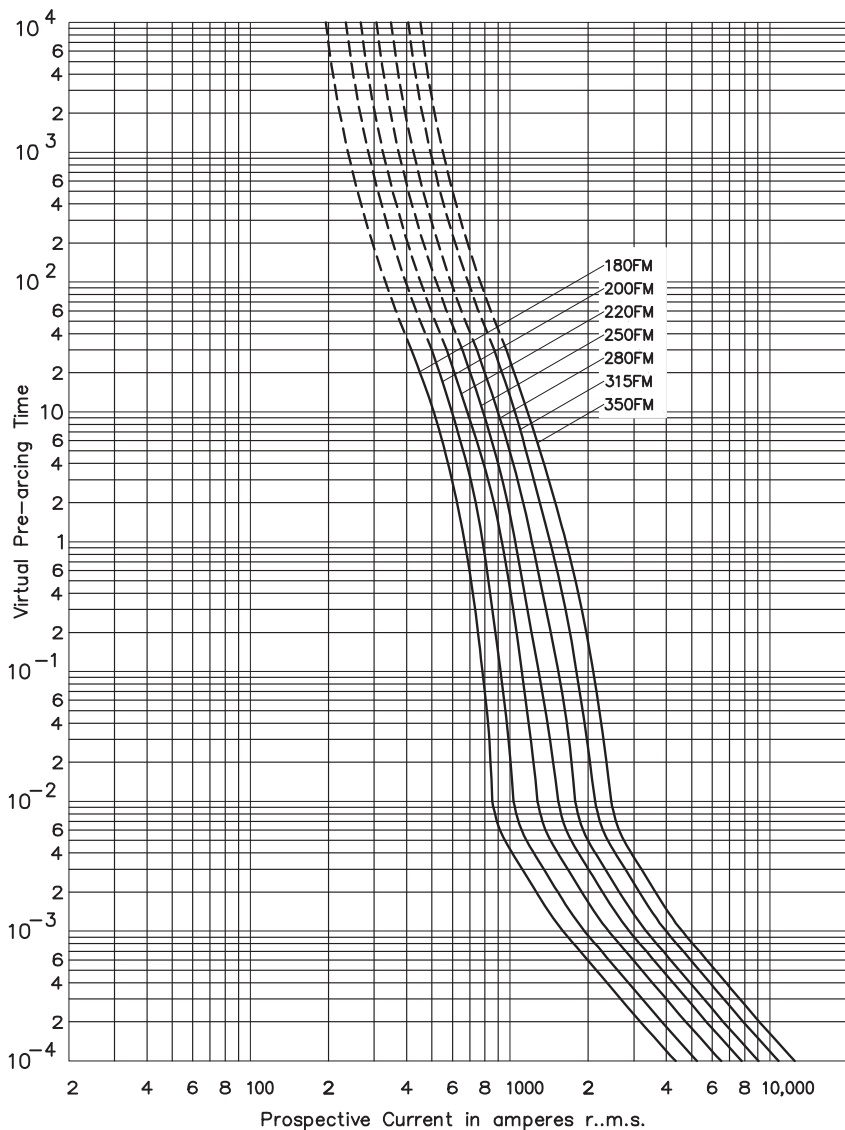
Fuse link type	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)		Watts loss (W)	Catalogue numbers	
			Pre-arcing	Clearing at 415V a.c.			
FM	690 V a.c. / 450 V d.c. (IEC) 700 V a.c. / 500 V d.c. (UL)	180	1400	7500	13,500	40	180FM
		200	2600	10,500	18,500	40	200FM
		225	3700	14,500	26,500	44	225FM
		250	5200	20,500	37,500	48	250FM
		280	7000	30,500	55,000	48	280FM
		315	10,000	40,000	77,000	55	315FM
		350	15,000	60,000	105,000	55	350FM
FMM	690 V a.c. / 450 V d.c. (IEC)	400	10,000	40,000	72,500	85	400FMM
		450	15,000	60,000	105,000	90	450FMM
		500	20,000	82,000	150,000	100	500FMM
		550	30,000	120,000	215,000	100	550FMM
		630	45,000	180,000	310,000	100	630FMM
		700	60,000	245,000	420,000	120	700FMM
MT	690 V a.c. / 350 V d.c. (IEC) 700 V a.c. (UL)	160	2400	15,000	25,000	26	160MT
		180	3800	25,000	38,000	26	180MT
		200	6000	40,000	58,000	27	200MT
		250	11,500	80,000	110,000	32	250MT
		280	16,500	100,000	150,000	35	280MT
		315	19,000	125,000	180,000	42	315MT
		355	22,000	160,000	200,000	51	355MT
MMT	690 V a.c. / 350 V d.c. (IEC) 700 V a.c. (UL)	180	1650	12,000	18,000	42	180MMT
		200	2200	16,000	23,000	42	200MMT
		225	3700	26,000	40,000	42	225MMT
		280	6600	47,000	70,000	47	280MMT
		315	8600	62,000	91,000	51	315MMT
		355	13,500	97,000	140,000	54	355MMT
		400	21,000	150,000	220,000	60	400MMT
		450	30,000	220,000	320,000	57	450MMT
		500	42,000	300,000	450,000	64	500MMT
		560	60,000	430,000	640,000	64	560MMT
		630	68,500	500,000	720,000	86	630MMT
710	78,000	600,000	850,000	105	710MMT		

Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)

British standard BS88 fuse links

FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

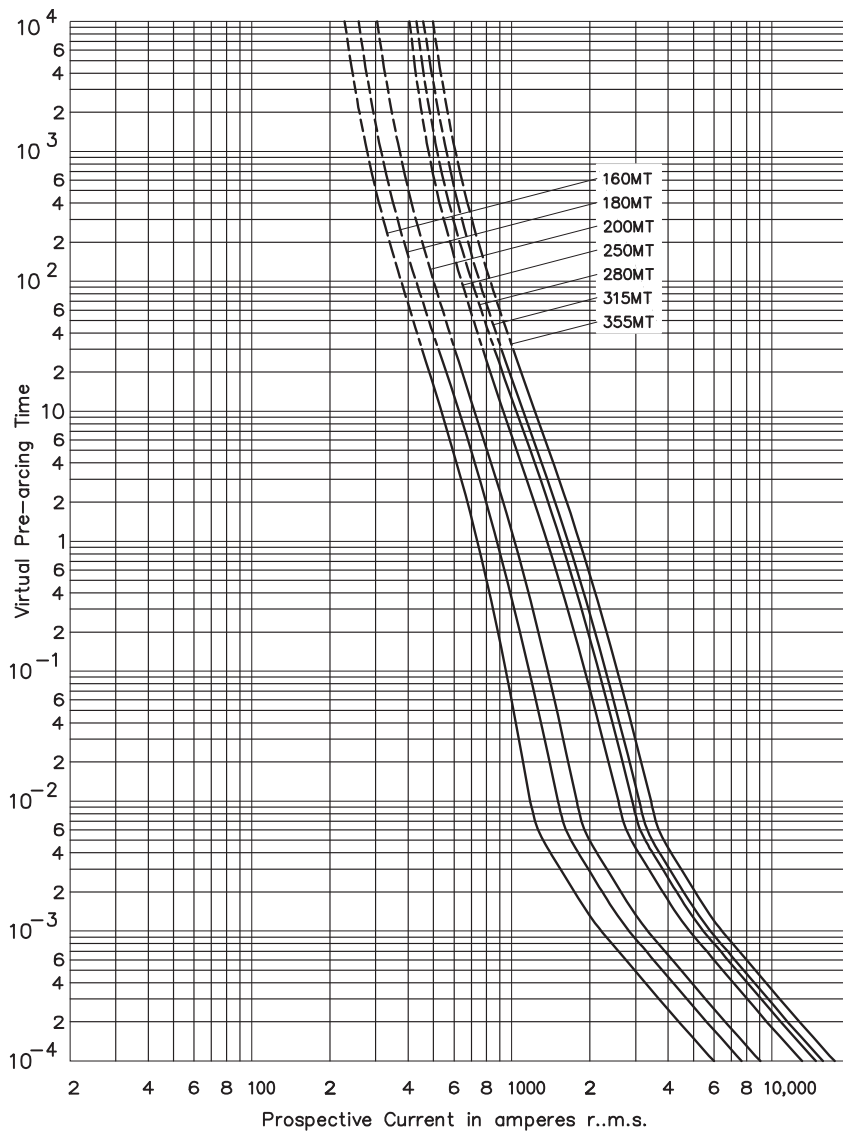
Time-current curve - FM, 180 A to 350 A



Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)

FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

Time-current curve - MT, 160 A to 355 A

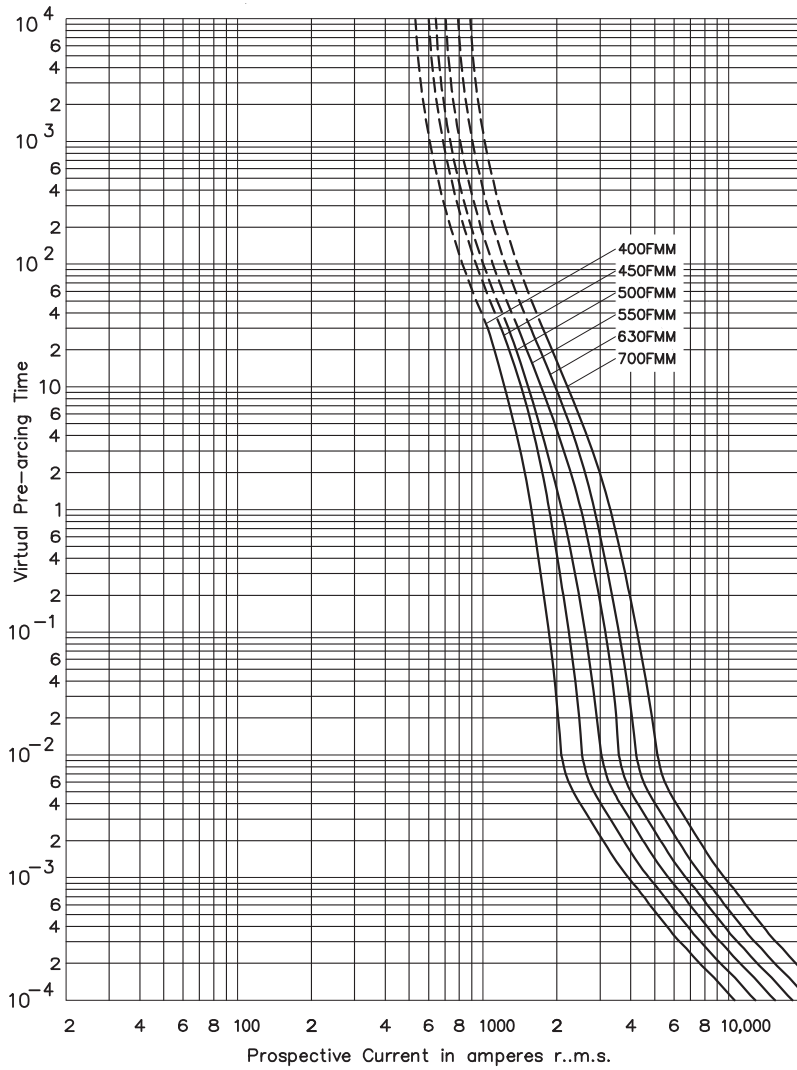


Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)

British standard BS88 fuse links

FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

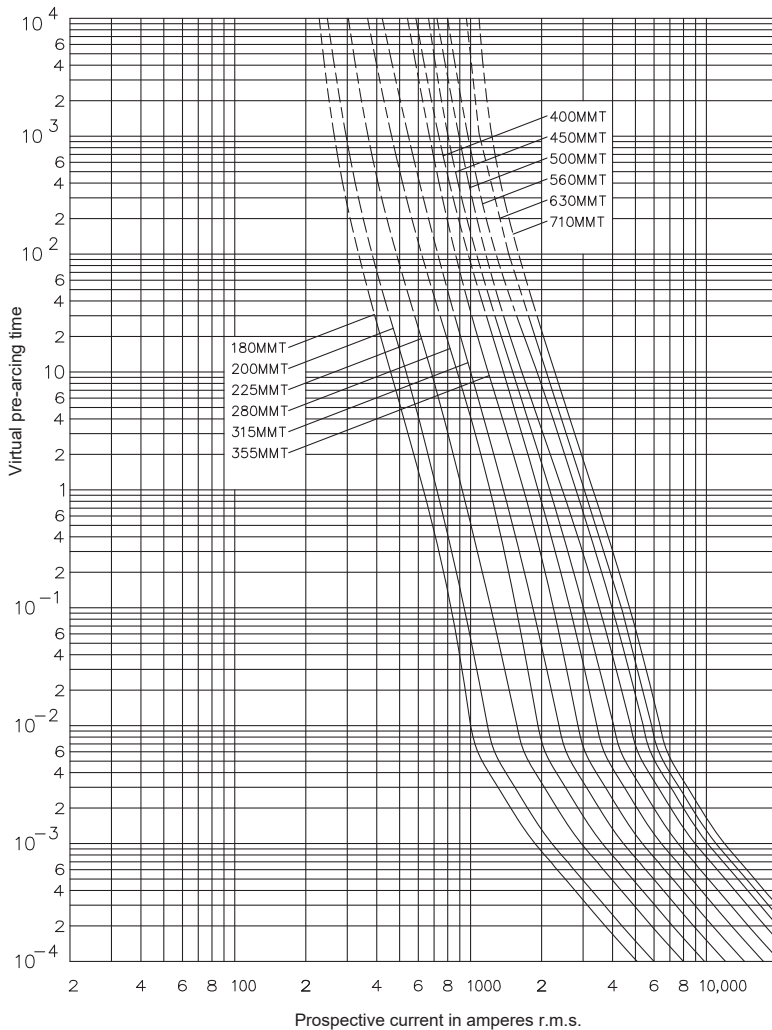
Time-current curve - FMM, 400 A to 700 A



Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)

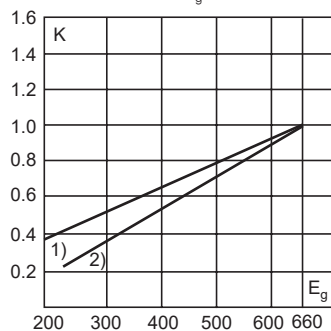
FM, FMM, MT, MMT - 690 V a.c. / 350-450 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 160 A to 710 A

Time-current curve - MMT, 180 A to 710 A



Total clearing I²t

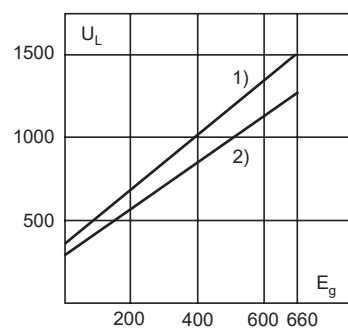
The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).



1) MT, MMT 2) FM, FMM

Arc voltage

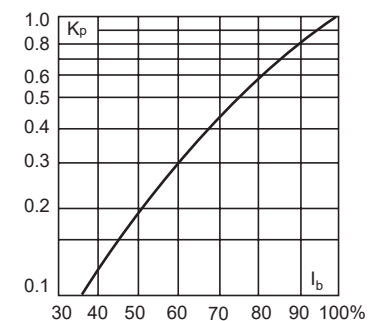
This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15 percent.



1) MT, MMT 2) FM, FMM

Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p, is given as a function of the RMS load current, I_b, in percent of the rated current.



Data sheets: 720024, 5785314 (FM), 5785313 (MT), 5785292 (FMM), 5785311 (MMT)