

British standard BS88 fuse links

LCT, LET - 240 V a.c. / 150 V d.c. (IEC), 250-280 V a.c. / 150 V d.c. (UL), 6 A to 180 A

Specifications

Description

BS88 style bolted tags fuse high speed links for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage starters. Low Watts loss in a compact size.

Technical Data

- Rated voltage:
 - LCT 240 V a.c. / 150 V d.c. (IEC)
250 V a.c. / 150 V d.c. (UL)
 - LET 280 V a.c. / 150 V d.c. (UL, 25 A to 160 A)
250 V a.c. / 150 V d.c. (UL 180 A)
- Rated current: 6 A to 180 A
- Breaking capacity:
 - 200 kA RMS Sym.
 - 50 kA DC at 150 V d.c.
- Operating Class: aR



Compatible trip indicator and microswitch for LET fuse links

- See details page 391

Standards / Agency information

CE, designed and tested to BS88 part 4, IEC 60269 Part 4, UL Recognised and CCC (LCT only). All fuse links have been tested at 318V a.c..Consult Eaton for specific UL recognition status.

Catalogue numbers

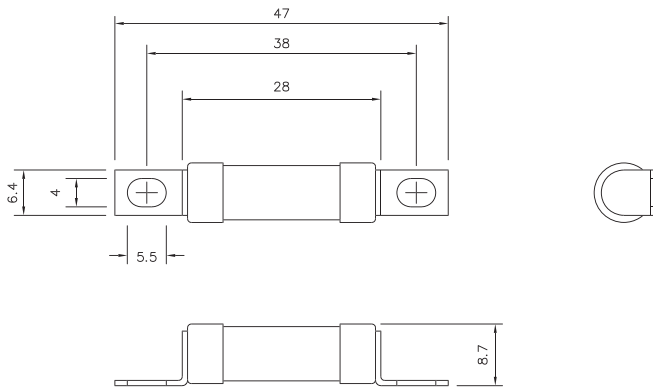
Fuse link type	Rated voltage	Rated current (Amps)	I ² t (A ² Sec)		Watts loss (W)	Catalogue numbers
			Pre-arcing	Clearing at 240 V a.c.		
LCT	240 V a.c. / 150 V d.c. (IEC) 250 V a.c. / 150 V d.c. (UL)	6	2	9	1	6LCT
		10	3.8	22	2.5	10LCT
		12	7	32	2.5	12LCT
		16	20	100	2.5	16LCT
		20	25	160	4	20LCT
LET	280 V a.c. / 150 V d.c. (UL)	25	18	250	4	25LET
		32	32	450	5	32LET
		35	50	600	5	35LET
		50	100	1400	7	50LET
		63	180	2200	9	63LET
		80	300	3800	10	80LET
		100	600	7500	10	100LET
		125	600	7500	16	125LET
		160	1100	16,000	20	160LET
		180	1600	29,000	21	180LET

Note: 7LET, 10LET, 12LET and 16LET are available for replacement purposes on existing equipment.

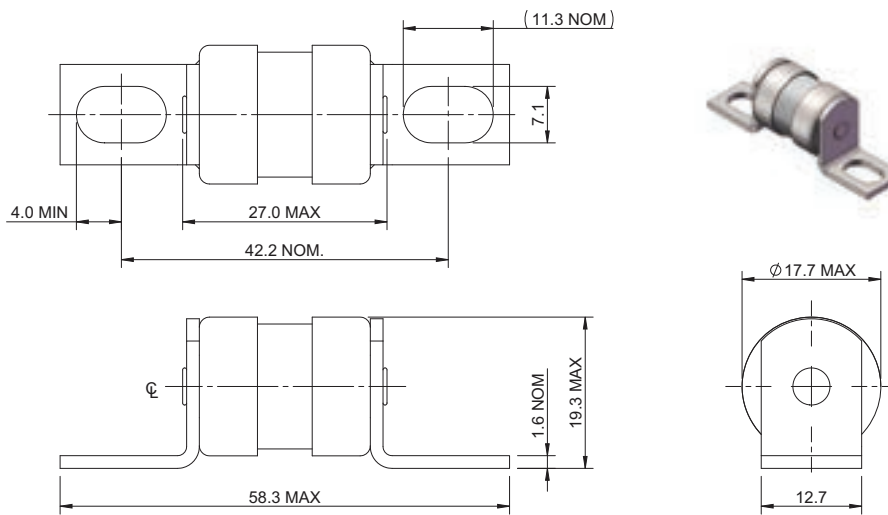
Data sheets: 720004, 5785296 (LCT), 5785293 (LET)

LCT, LET - 240 V a.c. / 150 V d.c. (IEC), 250-280 V a.c. / 150 V d.c. (UL), 6 A to 180 A

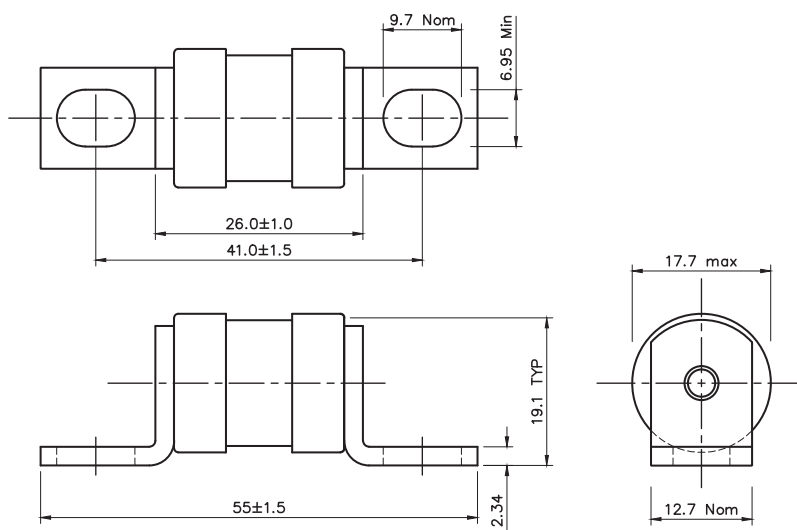
Dimensions (mm) - LCT



Dimensions (mm) - LET, up to 63 A



Dimensions (mm) - LET, greater than 63 A



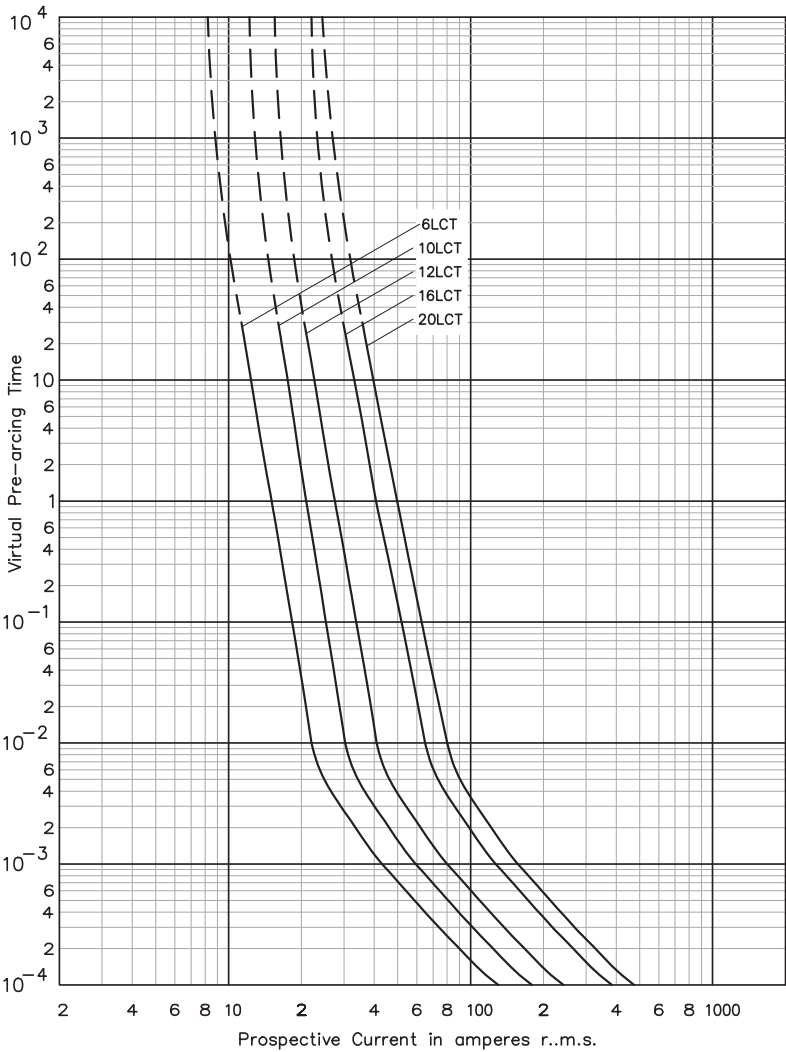
Indicator (optional).

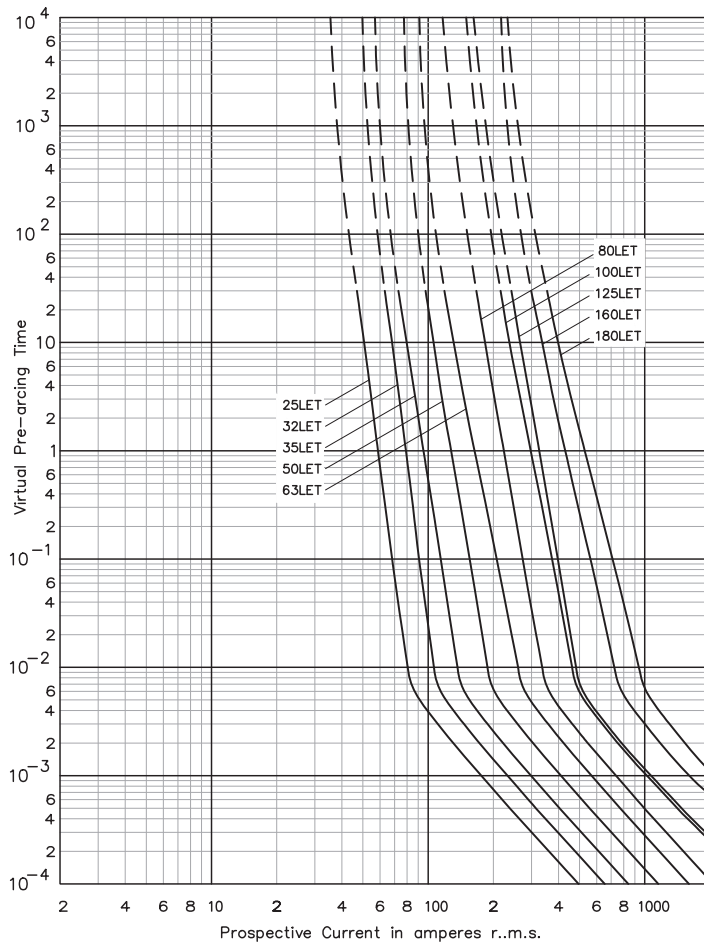
Data sheets: 720004, 5785296 (LCT), 5785293 (LET)

British standard BS88 fuse links

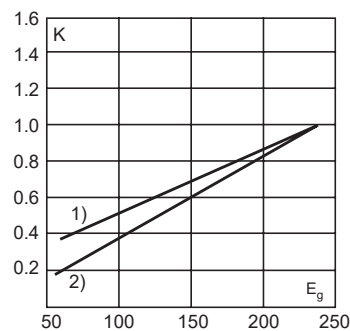
LCT, LET - 240 V a.c. / 150 V d.c. (IEC), 250-280 V a.c. / 150 V d.c. (UL), 6 A to 180 A

Time-current curve - LCT, 6 A to 20 A



LCT, LET - 240 V a.c. / 150 V d.c. (IEC), 250-280 V a.c. / 150 V d.c. (UL), 6 A to 180 A**Time-current curve - LET, 25 A to 180 A****Total clearing I^2t**

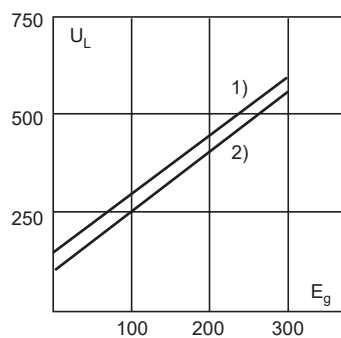
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K , given as a function of applied working voltage, E_g , (RMS).



- 1) LCT
2) LET

Arc voltage

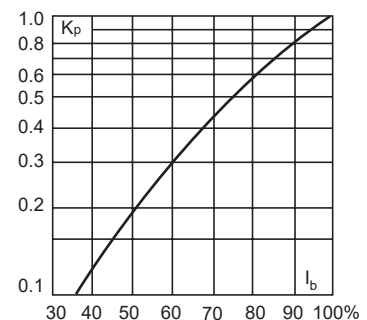
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



- 1) LCT
2) LET

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.



British standard BS88 fuse links

LMT, LMMT - 240 V a.c. / 150 V d.c. (IEC), 250 V a.c. / 150 V d.c. (UL), 160 A to 900 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 rate voltage starters. Low watts loss in a compact size.

Technical Data

- Rated voltage:
 - 240 V a.c. / 150 V d.c. (IEC)
 - 250 V a.c. / 150 V d.c. (UL)
- Rated current: 160 A to 900 A
- Breaking capacity:
 - 200 kA RMS Sym., 40 kA at 150 V d.c. (IEC)
 - 200 kA RMS Sym., 50 kA at 150 V d.c. (UL)
- Operating Class: aR

Compatible trip indicator and microswitch

- See details page 391

Standards / Agency information

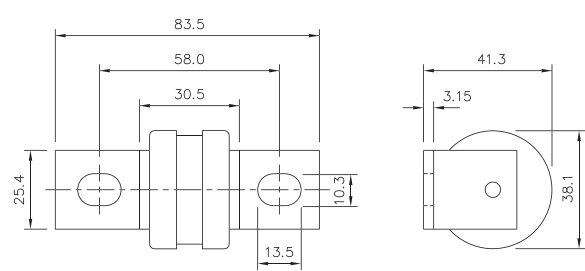
CE, designed and tested to BS88 part 4, IEC 60269 Part 4, UL recognised and CCC. All fuse links have been tested at 318V a.c. Consult Eaton for specific UL recognition status.



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 120 V a.c.	Clearing at 240 V a.c.		
LMT	240 V a.c. / 150 V d.c. (IEC)	160	1100	7000	16,000	17	160LMT
		200	1500	10,000	20,000	28	200LMT
		250	3200	20,000	40,000	28	250LMT
Single barrel	250 V a.c. / 150 V d.c. (UL)	315	6000	35,000	75,000	35	315LMT
		355	8000	50,000	100,000	35	355LMT
		400	14,000	70,000	160,000	40	400LMT
		450	18,000	100,000	220,000	42	450LMT
LMMT	240 V a.c. / 150 V d.c. (IEC)	400	6000	35,000	80,000	60	400LMMT
		500	14,000	80,000	170,000	64	500LMMT
		630	24,000	150,000	300,000	75	630LMMT
Double barrel	250 V a.c. / 150 V d.c. (UL)	710	32,000	200,000	460,000	77	710LMMT
		800	52,000	300,000	600,000	82	800LMMT
		900	75,000	400,000	800,000	97	900LMMT

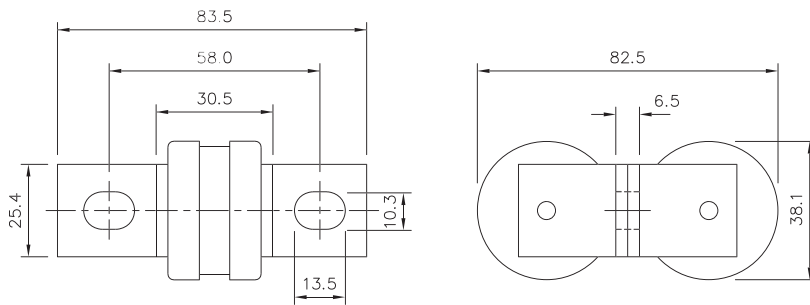
Dimensions (mm) - LMT (indicator optional)



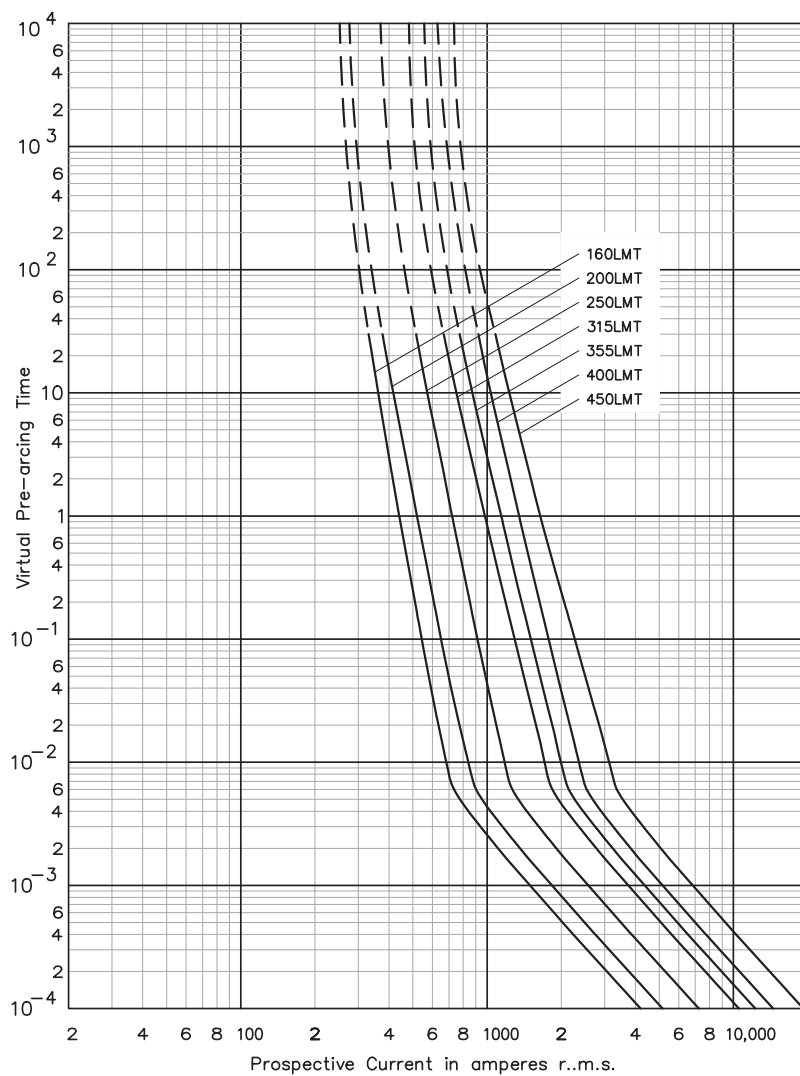
Data sheets: 720004, 5785294 (LMT), 5785295 (LMMT)

LMT, LMMT - 240 V a.c. / 150 V d.c. (IEC), 250 V a.c. / 150 V d.c. (UL), 160 A to 900 A

Dimensions (mm) - LMMT (indicator optional)



Time-current curve - LMT, 160 A to 450 A

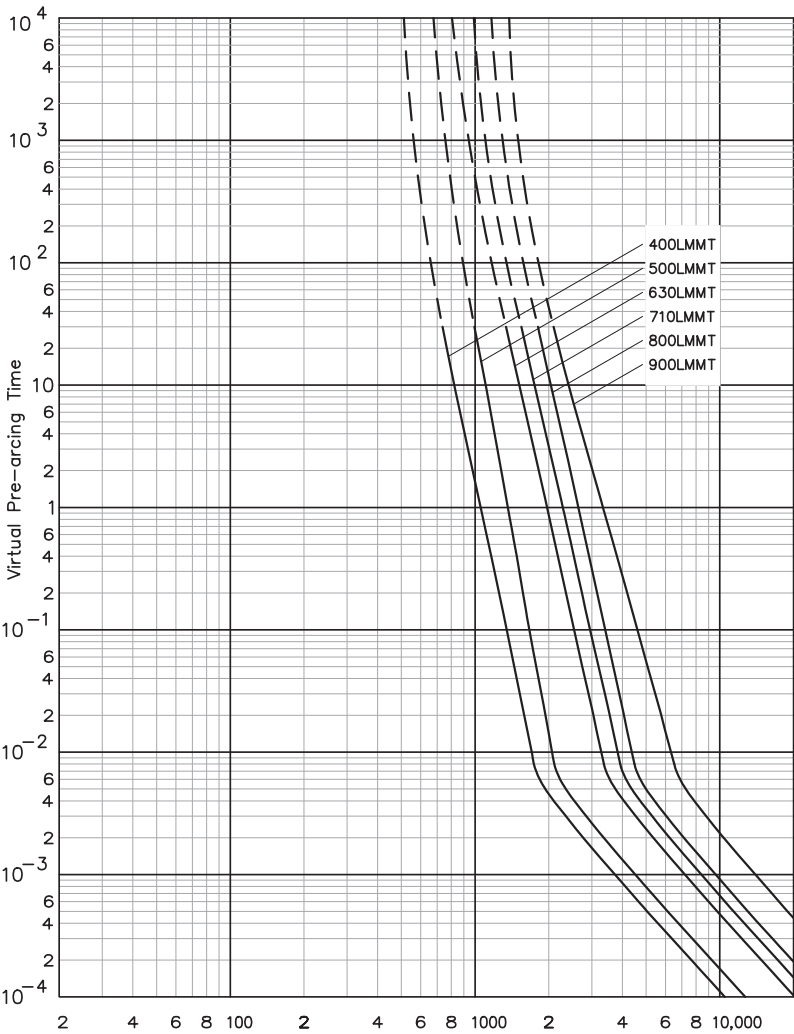


Data sheets: 720004, 5785294 (LMT), 5785295 (LMMT)

British standard BS88 fuse links

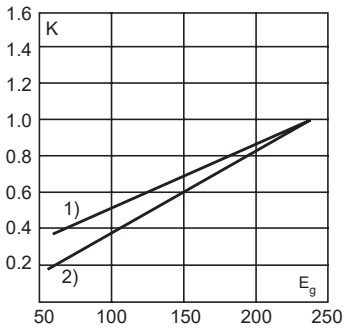
LMT, LMMT - 240 V a.c. / 150 V d.c. (IEC), 250 V a.c. / 150 V d.c. (UL), 160 A to 900 A

Time-current curve - LMMT, 400 A to 900 A



Total clearing I²t

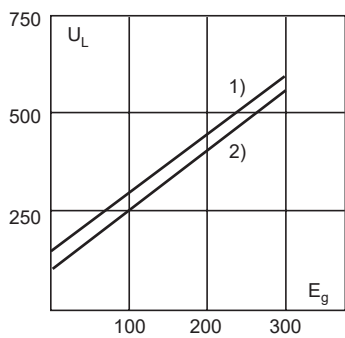
The total clearing I²t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (RMS).



2) LMT, LMMT

Arc voltage

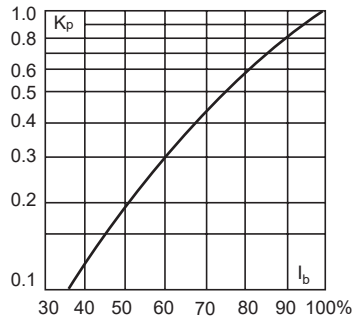
This curve gives the peak arc voltage, U_L, which may appear across the fuse during its operation as a function of the applied working voltage, E_g, (RMS) at a power factor of 15 percent.



2) LMT, LMMT

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.



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

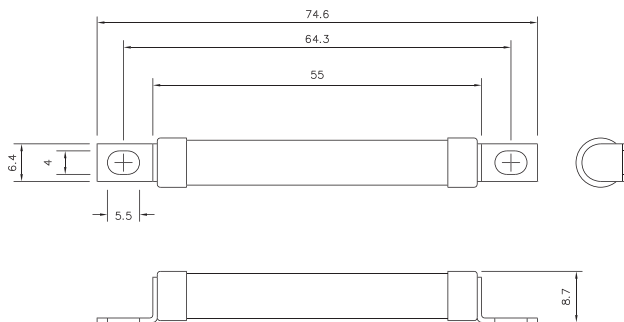
- See details page 391

Standards / Agency information

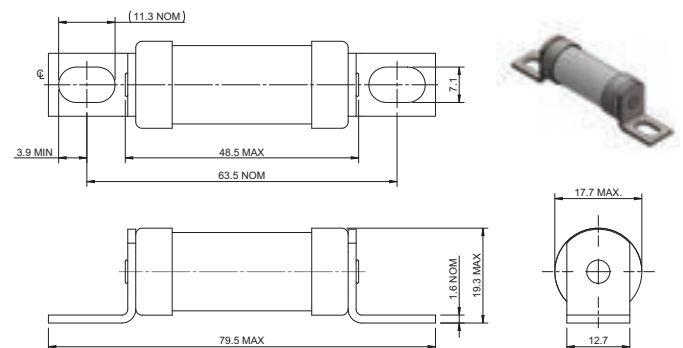
CE, designed and tested to BS88 part 4, IEC 60269 Part 4, Consult Eaton for specific UL Recognition status. CCC for ET, FE, EET, FEE.



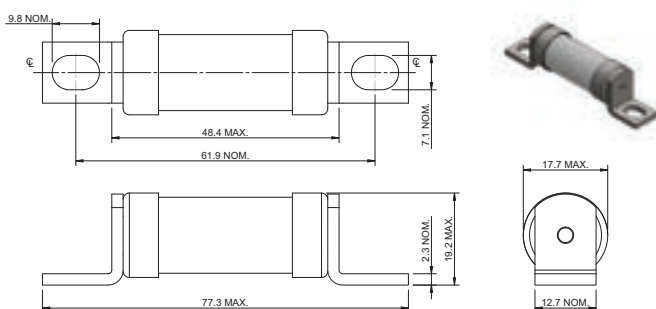
Dimensions (mm) - CT



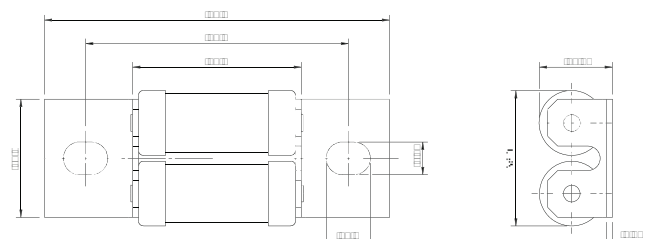
Dimensions (mm) - ET, FE up to 63 A



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

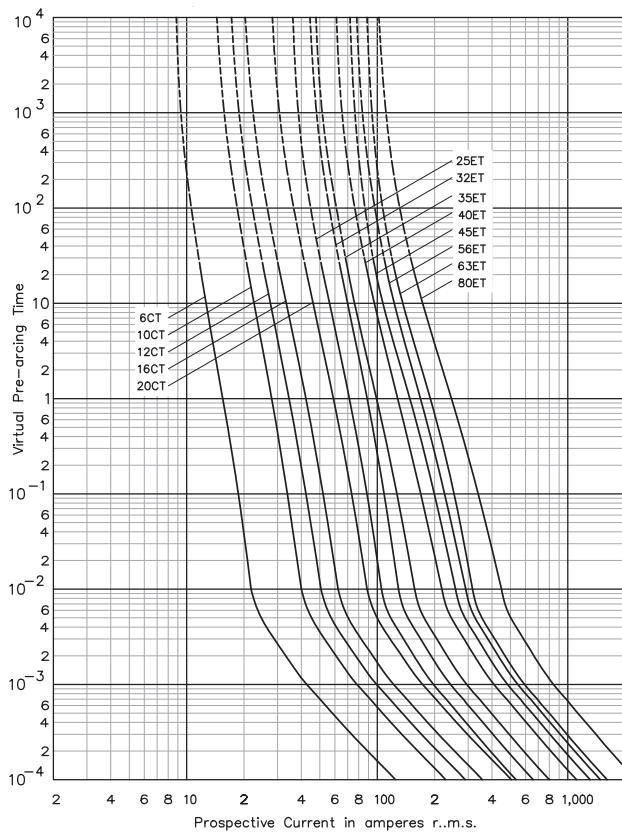
Catalogue numbers

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
	700 V a.c. / 500 V d.c. (UL)	12	10	40	65	3	12CT
		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
		45	103	680	1100	11	45ET
	700 V a.c. / 500 V d.c. (UL)	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	90EET
		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

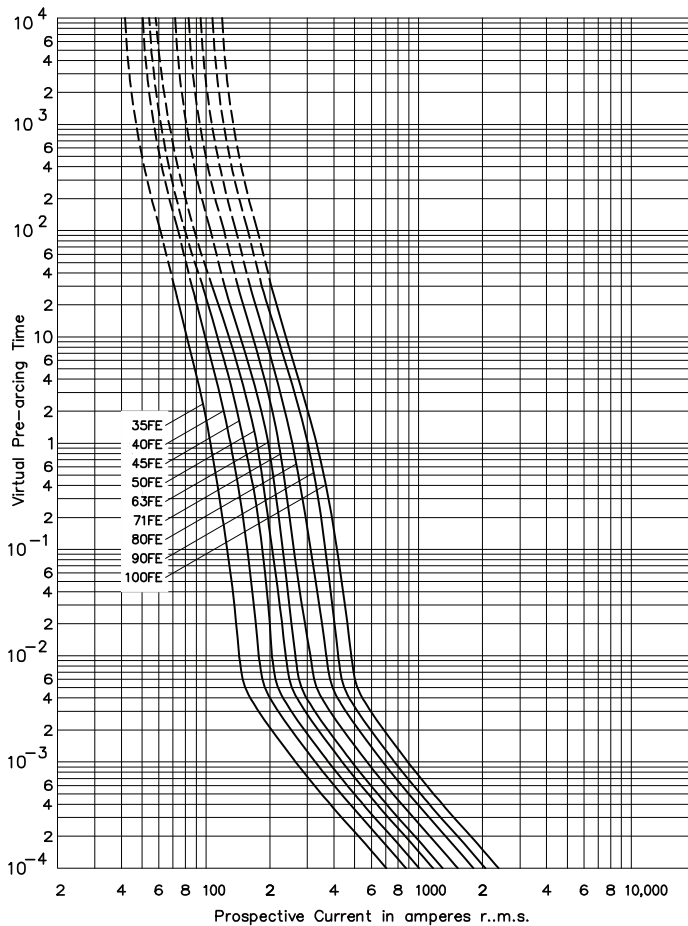
Note: FC, 8ET, 12ET, 15ET, 20ET, 65EET and 75EET are available for replacement purposes on existings equipment.

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

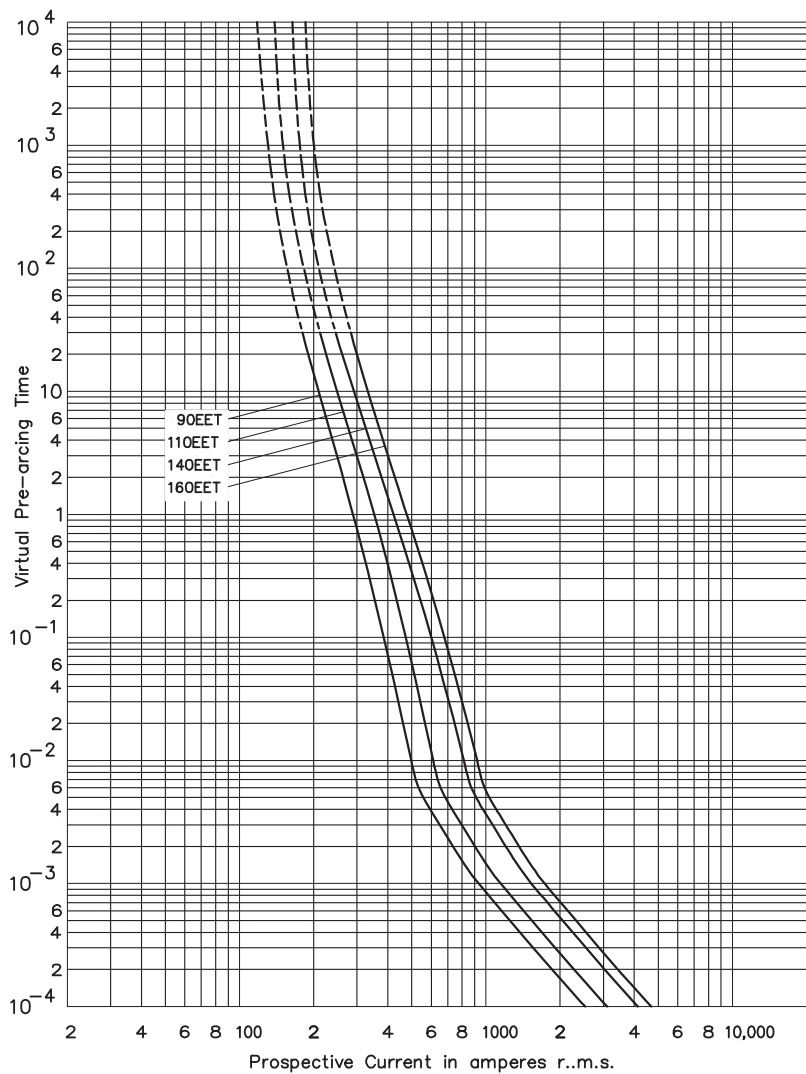


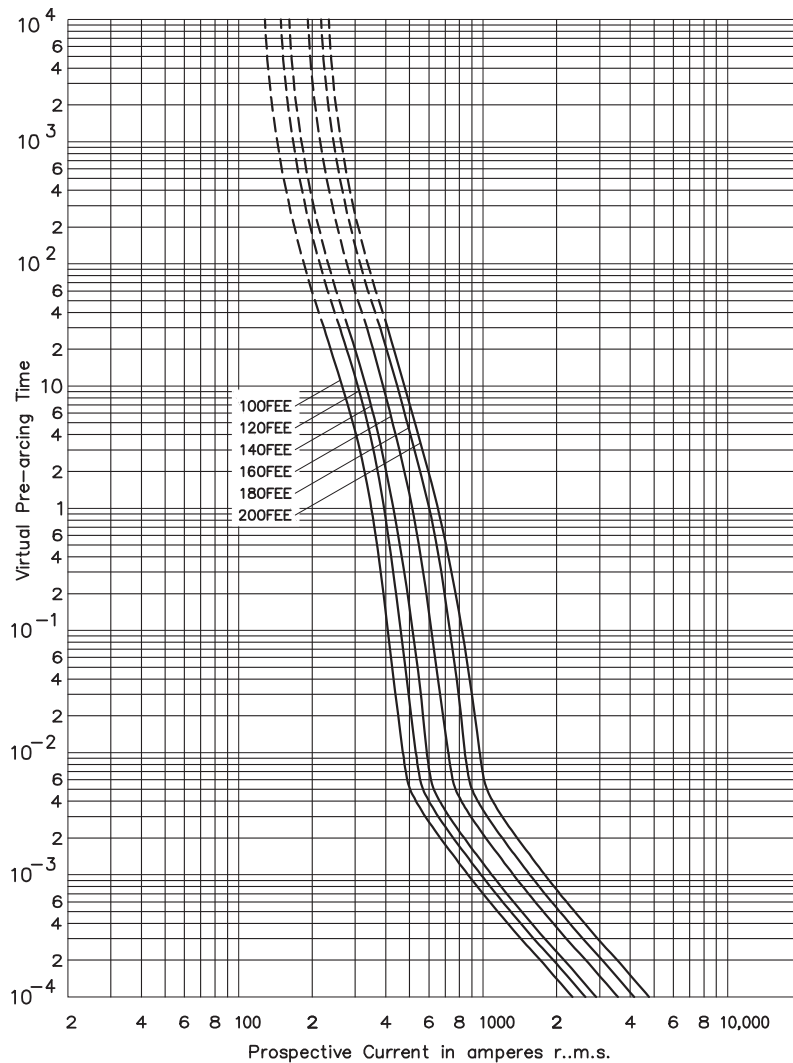
Data sheets: 720024, 5785312 (CT, ET), 5785314 (FE), 5785313 (EET), 5785292 (FEE)

British standard BS88 fuse links

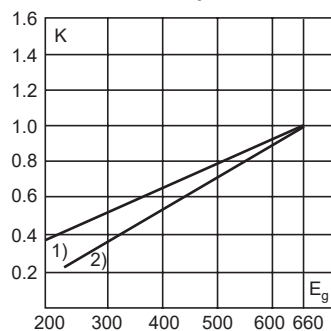
CT, ET, FE, EET, FEE - 690 V a.c. / 500 V d.c. (IEC), 700 V a.c. / 500 V d.c. (UL), 6 A to 200 A

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



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 I^2t**

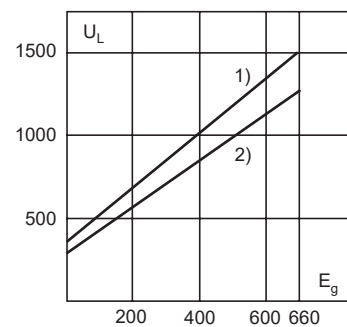
The total clearing I^2t at rated voltage and at a power factor of 15 percent are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K , given as a function of applied working voltage, E_g , (RMS).



1) CT, ET, FE, FEE

Arc voltage

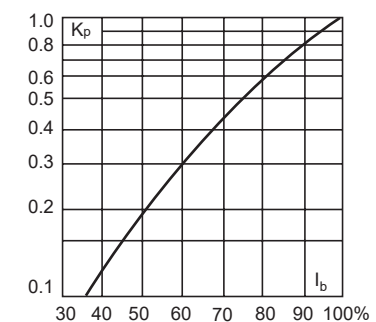
This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (RMS) at a power factor of 15 percent.



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

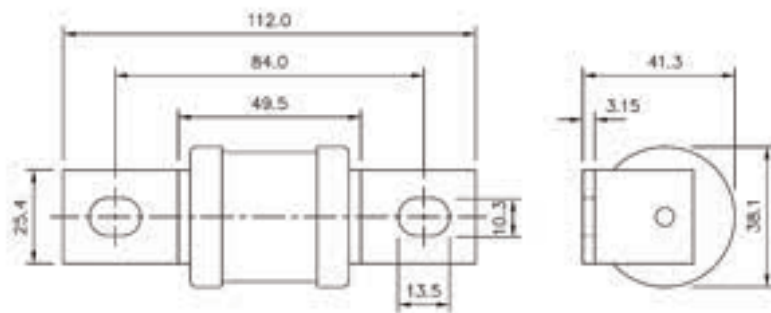
- See details page 391

Standards / Agency information

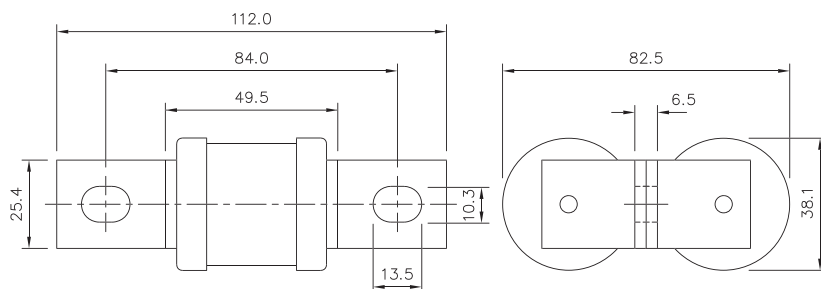
CE, designed and tested to BS88 part 4, IEC 60269 Part 4, UL Recognised. MT and MMT 350 V d.c. (IEC) rating. Consult Eaton for specific UL Recognition status. CCC for FM and FMM.



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)	I²t (A² Sec)			Watts loss (W)	Catalogue numbers
			Pre-arcing	Clearing at 415V a.c.	Clearing at 660 V 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

H07-660 Industrial HRC fuse links



Product description

Eaton's Bussmann® series H07-660 fuse links are specifically designed for the protection of large industrial installations up to 690 V a.c.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- gG characteristics for cable protection and general purpose applications
- Power loss values well within the limits of IEC 60269-2

Catalogue symbol:

- H07-660(Amps)

Technical data:

- Rated voltage: 690 V a.c.
- Rated current: 2 to 32 A
- Breaking capacity: 80 kA a.c.
- Breaking range and utilisation category: gG

Standards/approvals:

- BS88-2
- IEC 60269-2
- Suitable for use in RoHS compliant applications

Fuse holders (sold separately):

- CM32F (Camaster)
- RS32H (Red Spot)

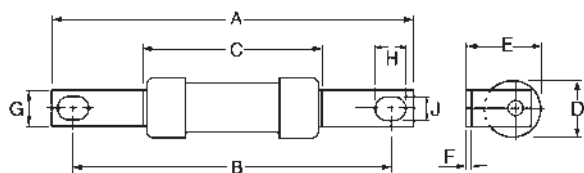
Packaging:

- MOQ 20

Table 1. Technical data

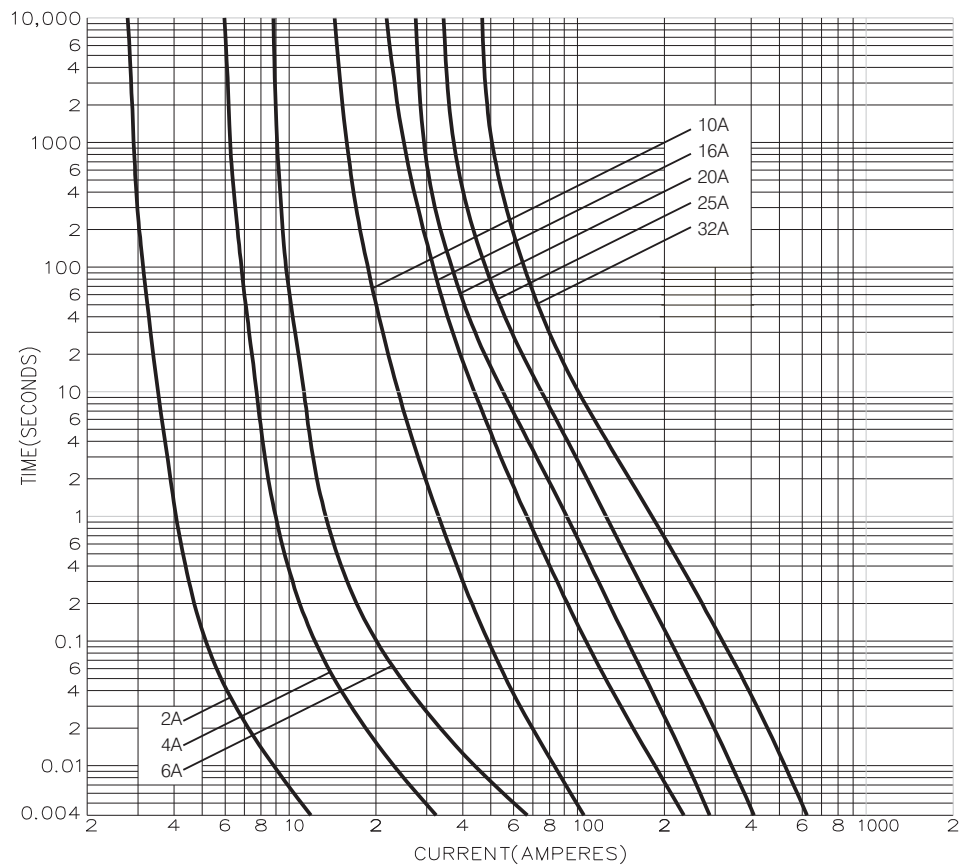
Part number	Rated voltage	Rated current (Amps)	Energy integrals I ² t (A ² S)			Watts loss		Product Class
			Pre-arcing	Total at 415V	Total at 550V	Total at 660V	W	
2H07-660	690 V a.c.	2	0.8	1.6	2.4	3.2	1.5	gG
4H07-660	690 V a.c.	4	5	10	15	20	2.7	gG
6H07-660	690 V a.c.	6	20	40	60	80	3.3	gG
10H07-660	690 V a.c.	10	44	130	180	220	2.8	gG
16H07-660	690 V a.c.	16	250	765	1000	1200	2.8	gG
20H07-660	690 V a.c.	20	430	900	1300	2500	2.7	gG
25H07-660	690 V a.c.	25	850	1800	2500	4900	3.1	gG
32H07-660	690 V a.c.	32	2100	4400	6100	12000	3.3	gG

Dimensions - mm



Catalogue numbers	A	B	C	D	E	F	G	H	J
2-32H07-660	82.3	73	52	22	22.4	11.5	8.7	7.7	5.4

Time current curve



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Bussmann series AAO Industrial HRC fuse links



Product description

A range of British standard fuse links size A2 for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- gG characteristics for cable protection and gM for motor protection applications
- Power loss values within the limits of IEC 60269

Catalogue symbol

AAO(Amps)

Technical data

Rated voltage:

- 550 V a.c. (2 to 32 A)
- 500 V a.c. (32M40 to 32M63)

Rated current: 2 to 32 A

Class of operation:

- gG
- gM

Breaking capacity: 80 kA

BS reference: A2

Standards/approvals

- BS88
- IEC 60269
- Suitable for use in RoHS compliant applications

Fuse holders (ordered separately)

- RS32H (Red spot fuse holder)
- CM32F (Camaster fuse holder)

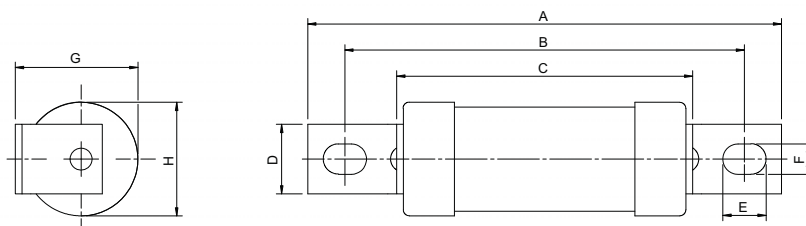
Packaging:

MOQ 20

Table 1. Technical data

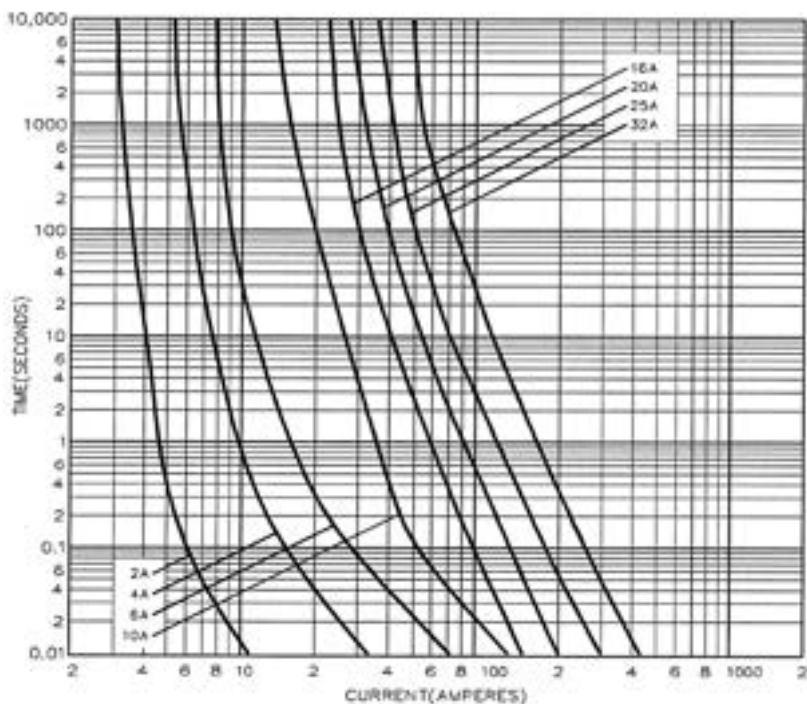
Catalogue number	Rated voltage	Rated current (Amps)	Breaking capacity	Energy integrals I²t (A²S)			Watts loss (W)	BS Reference	Product class	Weight (grams)
				Pre-arcing	Total at 415 V a.c.	Total at 550 V a.c.				
AA02	550 V a.c.	2	80 kA at 550 V a.c.	1.4	4.7	5	0.9	A2	gG	20
AA04	550 V a.c.	4		8	26	30	1.4			
AA06	550 V a.c.	6		28	100	115	1.8			
AA010	550 V a.c.	10		125	400	500	2.1			
AA016	550 V a.c.	16		120	470	750	1.8			
AA020	550 V a.c.	20		260	1100	1700	1.9			
AA025	550 V a.c.	25		570	2300	3500	2.1			
AA032	550 V a.c.	32		710	3000	5000	3.1			
AA032M40	500 V a.c.	32M40	80 kA at 500 V a.c.	1400	3800	5000	3	A2	gM	50
AA032M50	500 V a.c.	32M50		3000	8500	11000	2			
AA032M63	500 V a.c.	32M63		7000	18000	24800	1.4			

Dimensions - mm

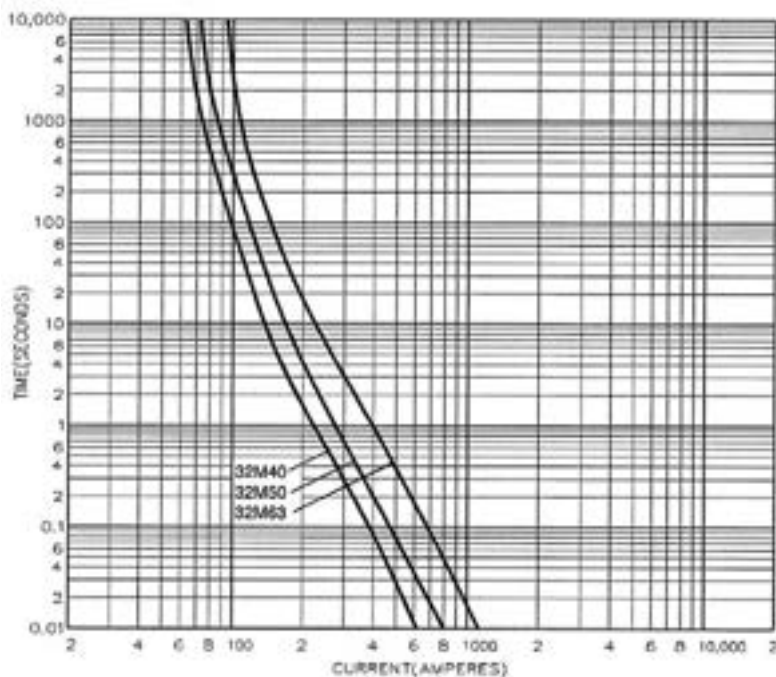


Catalogue numbers	A	B	C	D	E	F	G	H
AA02-32	85	73	35.5	8.7	8	5.5	14	13.7
AA032M40-63	85	73.5	54.5	8.7	8	5.5	22.3	21

Time current curve characteristics



Non motor rated



Motor rated

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BAO BS88 Offset bolted tags fuse links



Product description

Eaton's Bussmann® series BAO British Standard fuse links, size A3, are specifically designed for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- Suitable for motor protection if gM type selected
- Power loss values well within the limits of IEC 60269-2

Catalogue symbol:

- BAO (Amps)

Technical data:

- Rated voltage: 500 V a.c.
- Rated current: 40 to 63 A
- Breaking capacity: 80kA
- BS reference: A3
- Breaking range and utilisation category: gG and gM

Standards/approvals:

- BS88-2
- IEC 60269-2
- Suitable for use in RoHS compliant applications

Fuse holders (ordered separately)

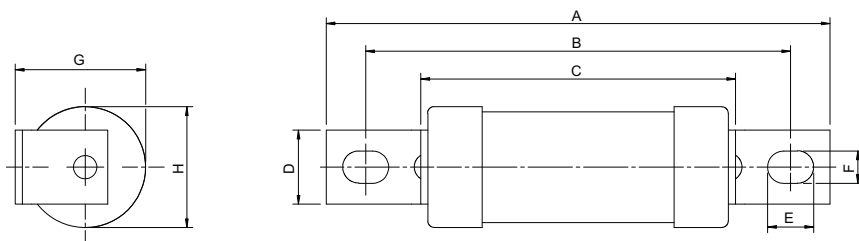
- CM63F (Camaster fuse holder)
- RS63H (Red Spot fuse holder)

Packaging:

- MOQ 20

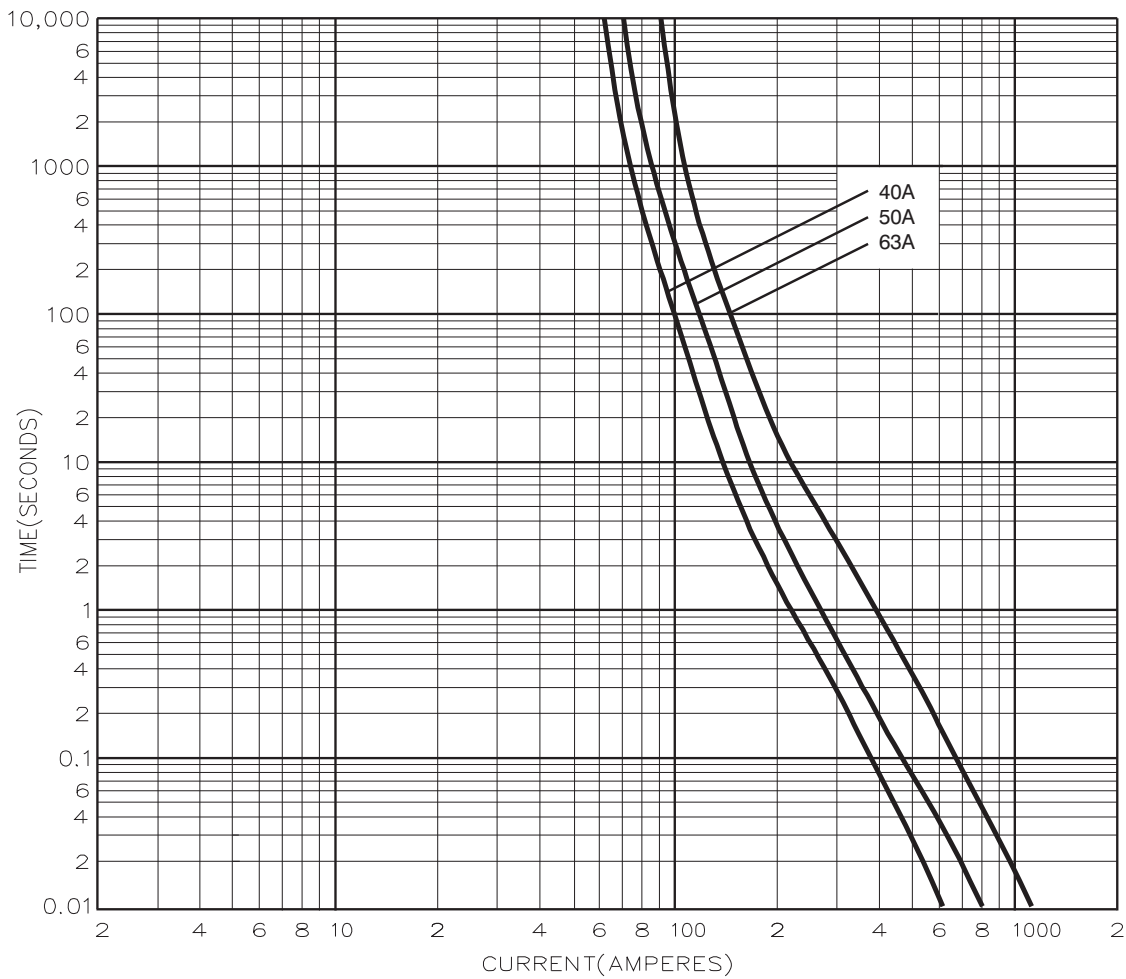
Table 1. Technical data

Catalogue number	Rated voltage	Rated current (Amps)	Breaking capacity	Energy integrals I ² t (A ² S)			Watts loss (W)	Product class	Weight (grams)
				Pre-arcing	Total at 415 V a.c.	Total at 550 V a.c.			
BA040	500 V a.c.	40	80 kA at 500 V d.c.	1400	3600	5000	4.7	gG	55 g
BA050	500 V a.c.	50	80 kA at 500 V d.c.	3000	8000	11,250	4.9	gG	55 g
BA063	500 V a.c.	63	80 kA at 500 V d.c.	6700	18,850	25,100	5.6	gG	55 g
BA063M80	500 V a.c.	63M80	80 kA at 500 V d.c.	12,600	33,900	50,000	4.4	gM	55 g
BA063M100	500 V a.c.	63M100	80 kA at 500 V d.c.	24,000	72,900	90,000	3.4	gM	55 g

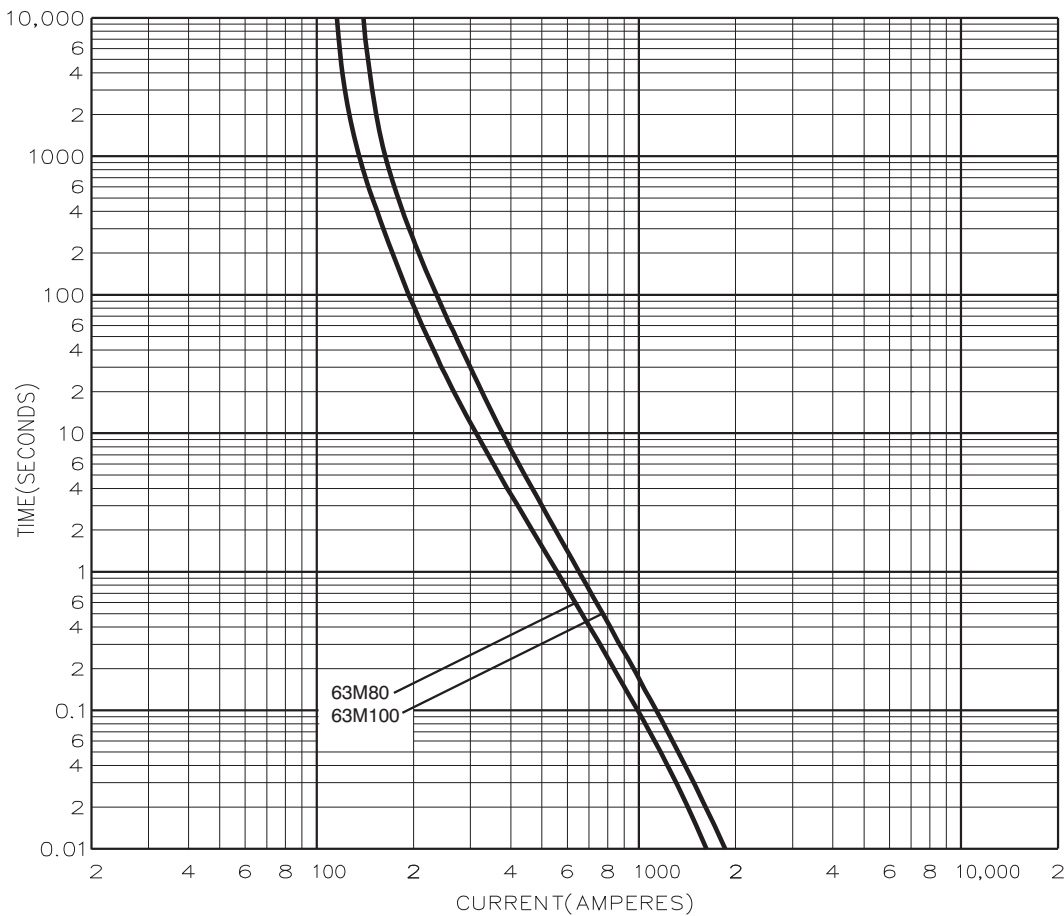
Dimensions - mm


Catalogue numbers	A	B	C	D	E	F	G	H
BA040-63 and BA063M80-100	87	73	54	13	8	5.5	22	21

Time current curve - non motor rated



Time current curve - motor rated



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Publication No. 4112
October 2017

Bussmann series CD Industrial HRC Fuse Links



Product description

Eaton's Bussmann series range of British Standard fuse links size B1 is specifically designed for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- gG characteristics for cable protection and gM for motor protection applications
- Power loss values well within the limits of IEC 60269-2

Catalogue symbol:

- CD(Amps)

Technical data:

- Rated voltage: 500 V a.c. / 415 V a.c.
- Rated current: 80 to 100 A
- Breaking capacity: 80 kA
- Breaking range and utilisation category: gG and gM
- Size: B1

Standards/approvals:

- BS88-2
- IEC 60269-2
- Suitable for use in RoHS compliant applications

Fuse holder (sold separately)

- RS200H

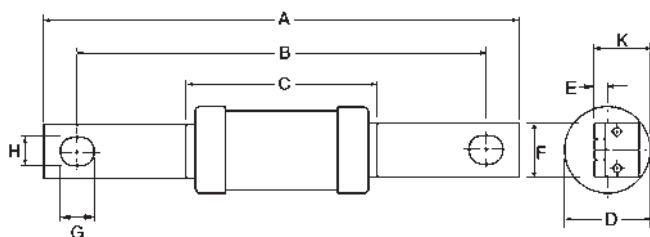
Packaging:

- MOQ 10

Table 1. Technical data

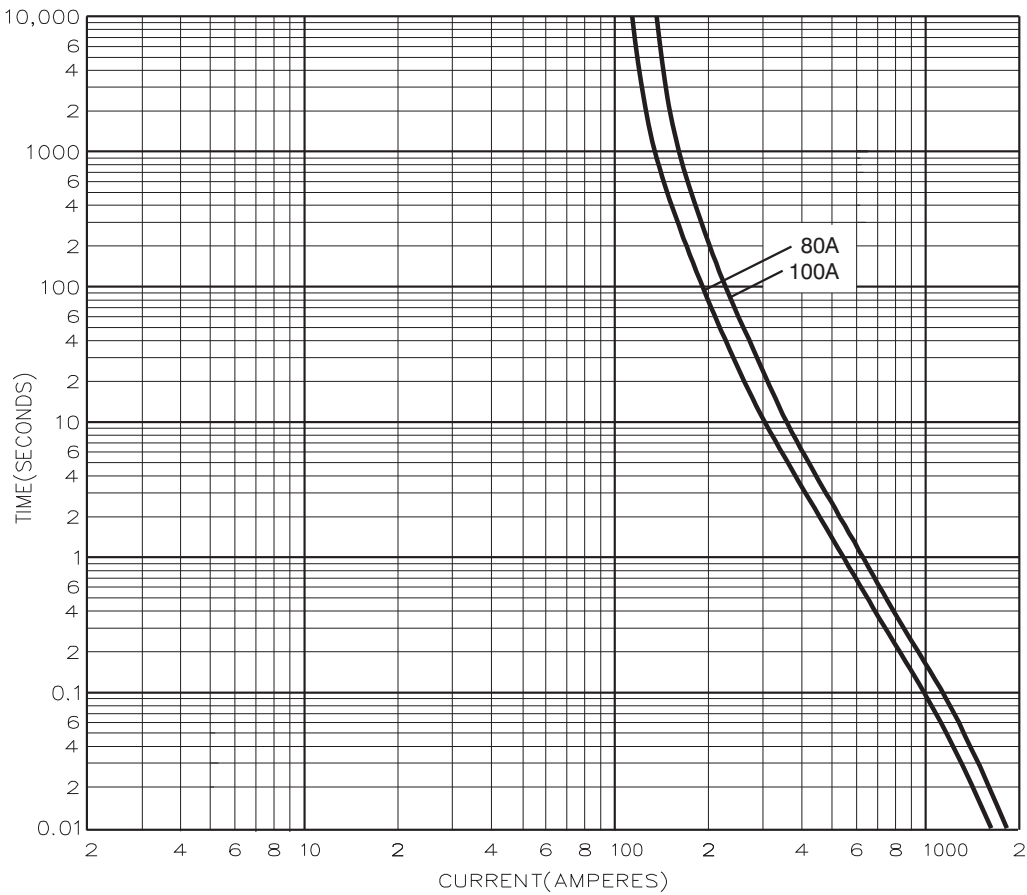
Part number	Voltage	Current rating (amps)	Energy integrals I ² t (A ² S)		Watts loss W	Product class	Weight
			Pre-arcing	Total at 415 V			
CD80	500 V a.c.	80	13,000	35,200	7.2	gG	75g
CD100	500 V a.c.	100	25,000	76,500	8.5	gG	75g
CD100M125	415 V a.c.	100M125	57,000	150,000	11	gM	105g
CD100M160	415 V a.c.	100M160	72,500	190,000	13	gM	105g
CD100M200	415 V a.c.	100M200	120,000	290,000	14	gM	115g

Dimensions - mm

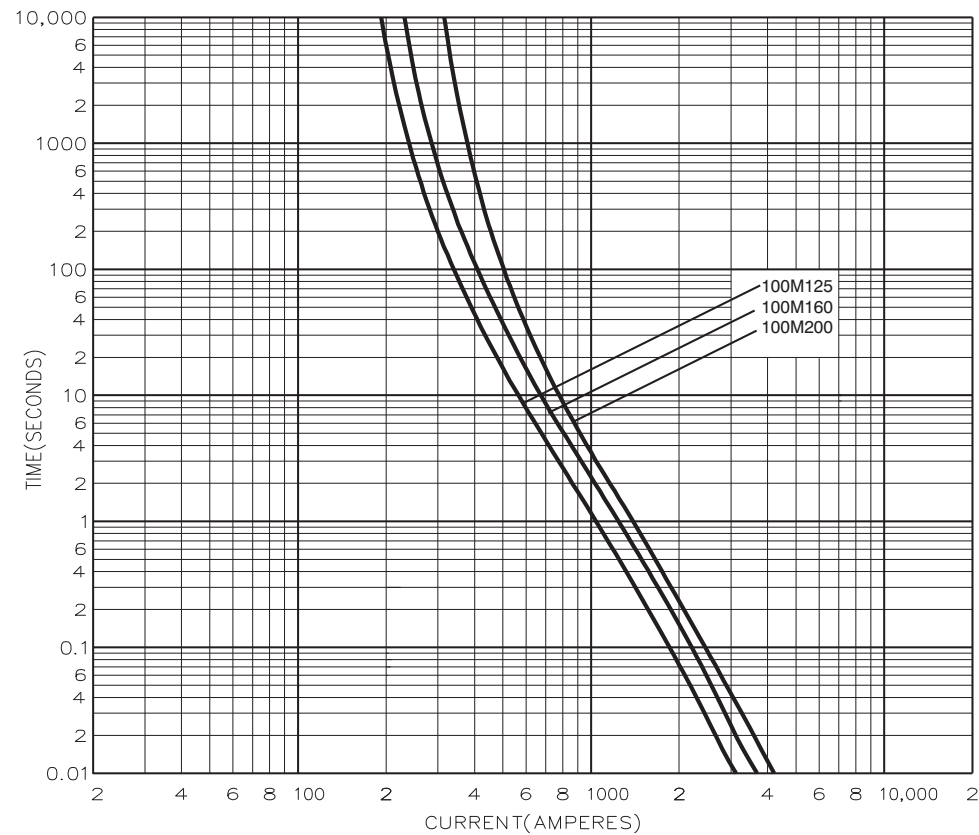


Catalogue numbers	A	B	C	D	E	F	G	H	K
CD80-100	126	111	58.5	21	3.2	14.3	11.1	8.7	19.5
CD100M125-160	126	111	58.5	26	3.2	14.3	11.1	8.7	22
CD100M200	136	111	47	31	3.2	19	12.5	8.7	22.5

Time current curve - CD80 and CD100



Time current curve - CD100M



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Publication No. 4116
October 2017

CEO BS88 Offset bolted tags fuse links



Product description

Eaton's Bussmann® series CEO British Standard fuse links, size A4, are specifically designed for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- Suitable for motor protection if gM type selected
- Power loss values well within the limits of IEC 60269-2

Technical Data 4115

Effective October 2017

CEO BS88 Offset bolted tags fuse links

Catalogue symbol:

- CEO (Amps)

Technical data:

- Rated voltage: 500 V a.c. (gG) / 415 V a.c. (gM)
- Rated current: 32 to 100 A
- Breaking capacity: 80kA a.c.
- BS reference: A4
- Breaking range and utilisation category: gG and gM

Standards/approvals:

- BS88-2
- IEC 60269-2
- Suitable for use in RoHS compliant applications

Fuse holder (ordered separately)

- RS100H (Red Spot)

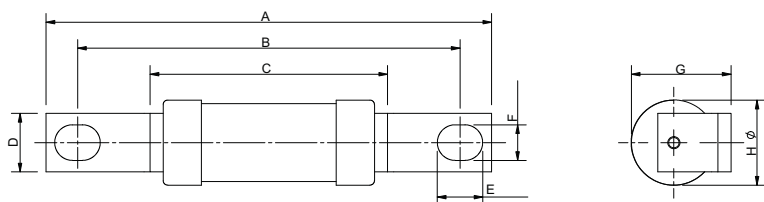
Packaging:

- MOQ 10

Table 1. Technical data

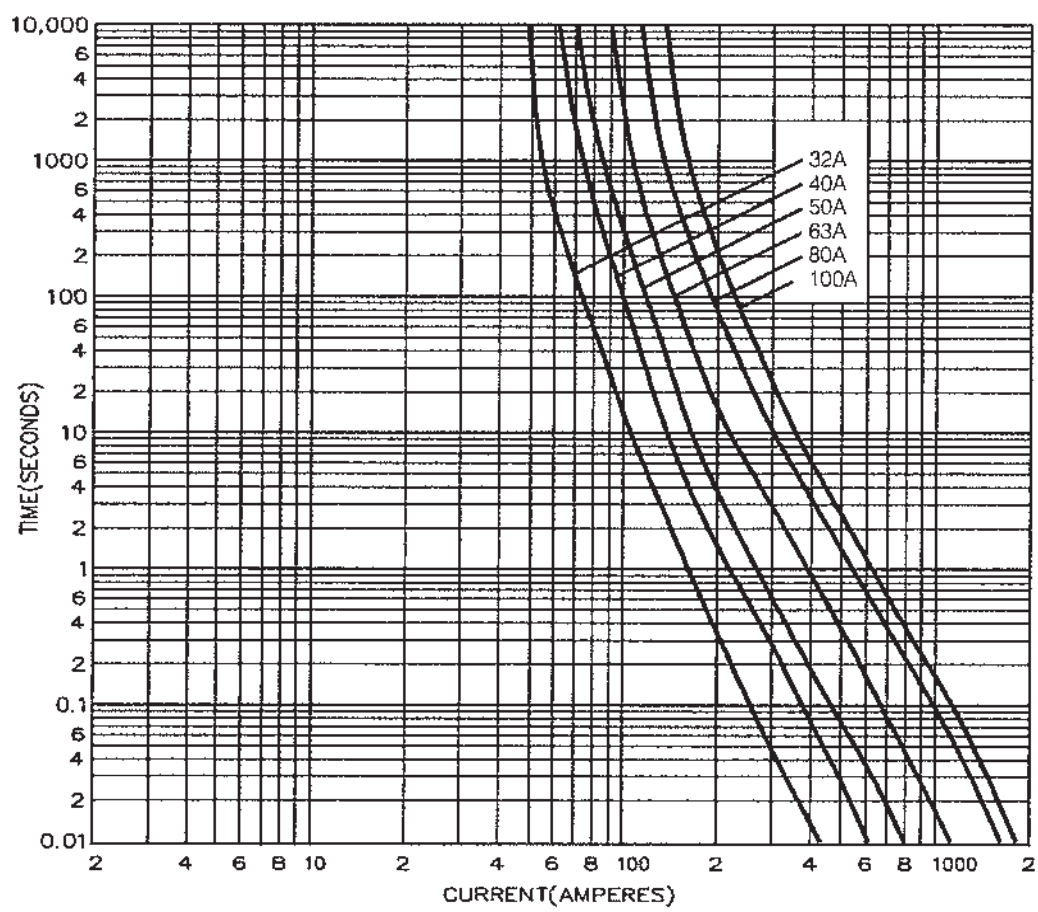
Part number	Voltage	Current rating (amps)	Energy integrals I ² t (A ² S)		Watts loss	Weight
			Pre-arcing	Total at 415V	W	
CEO32	500 V a.c.	32	1000	2760	3.5	75g
CEO40	500 V a.c.	40	1400	3750	4.7	75g
CEO50	500 V a.c.	50	3000	8350	4.9	75g
CEO63	500 V a.c.	63	7000	18,800	5.6	75g
CEO80	500 V a.c.	80	13,000	35,200	7.2	75g
CEO100	500 V a.c.	100	25,000	76,500	8.5	75g
CEO100M125	415 V a.c.	100M125	57,000	150,000	6.5	100g
CEO100M160	415 V a.c.	100M160	72,500	190,000	5	100g
CEO100M200	415 V a.c.	100M200	120,000	290,000	3.5	195g

Dimensions - mm

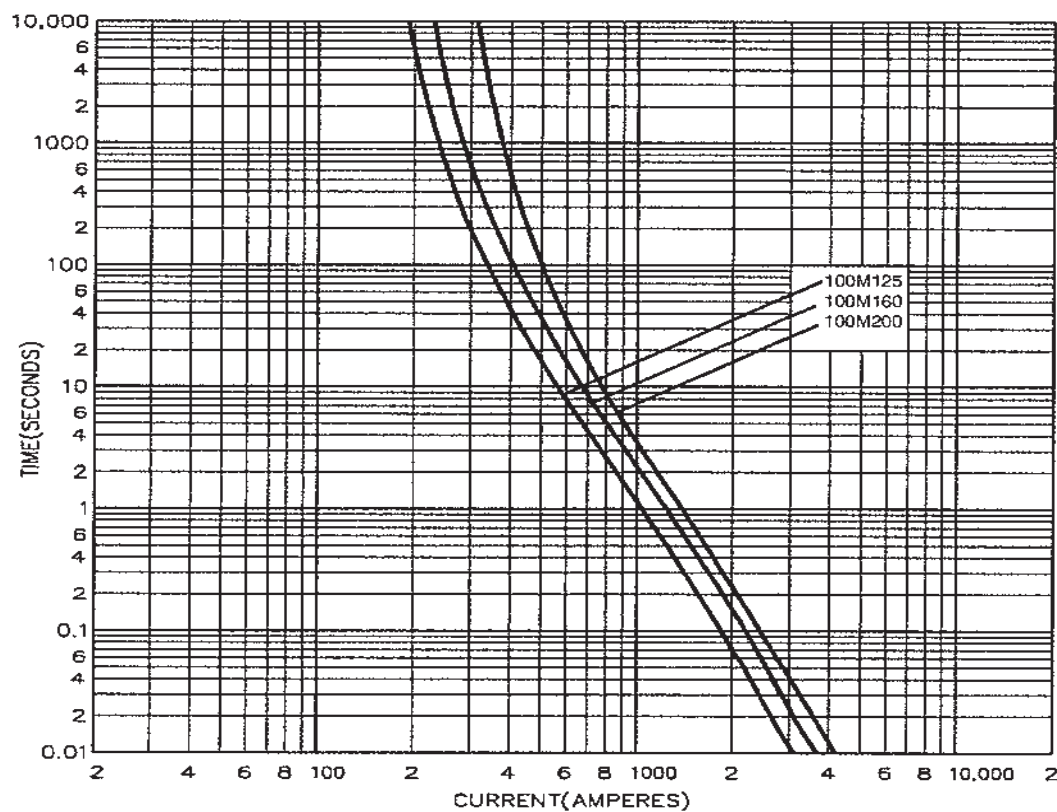


Catalogue numbers	A	B	C	D	E	F	G	H
CEO32-100	109.5	94	58.5	14.3	11	8.7	24.5	21
CEO100M125-160	109	94	58	14.3	11	8.7	26.8	25.8
CEO100M200	110	94	47	19	10	9	29.5	31

Time current curve - CEO32 to CEO100 A



Time current curve - CEO100M



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October 2017

Bussmann series DD Industrial HRC Fuse Links



Product description

Eaton's range of British Standard B2 fuse links is specifically designed for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- gG characteristics for cable protection and gM for motor protection applications
- Power loss values well within the limits of IEC 60269

Catalogue symbol:

- DD(Amps)

Technical data:

- Rated voltage: 415 V a.c.
- Rated current: 125 to 200 A
- Breaking capacity: 80 kA
- Class of operation: gG / gM

Standards/approvals:

- BS88
- IEC 60269
- Suitable for use in RoHS compliant applications

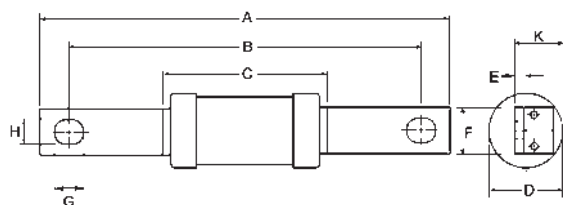
Packaging:

- MOQ 5

Table 1. Technical data

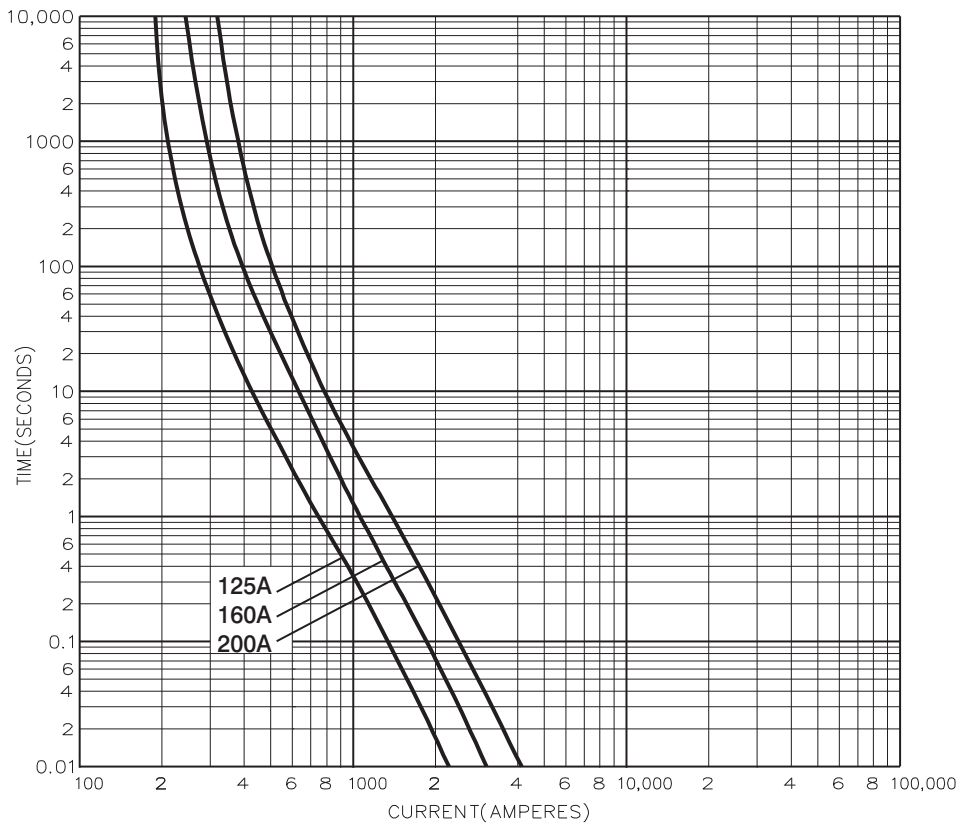
Part number	Voltage	Current rating (amps)	Energy integrals I ² t (A ² -S)		Watts loss W	Product Class	Weight
			Pre-arcing	Total at 415V			
DD125	415 V a.c.	125	29.5	71	11	gG	145g
DD160	415 V a.c.	160	57	135	13	gG	145g
DD200	415 V a.c.	200	120	290	14	gG	145g
DD200M250	415 V a.c.	200M250	200	480	11	gM	145g
DD200M315	415 V a.c.	200M315	265	635	9	gM	145g

Dimensions - mm

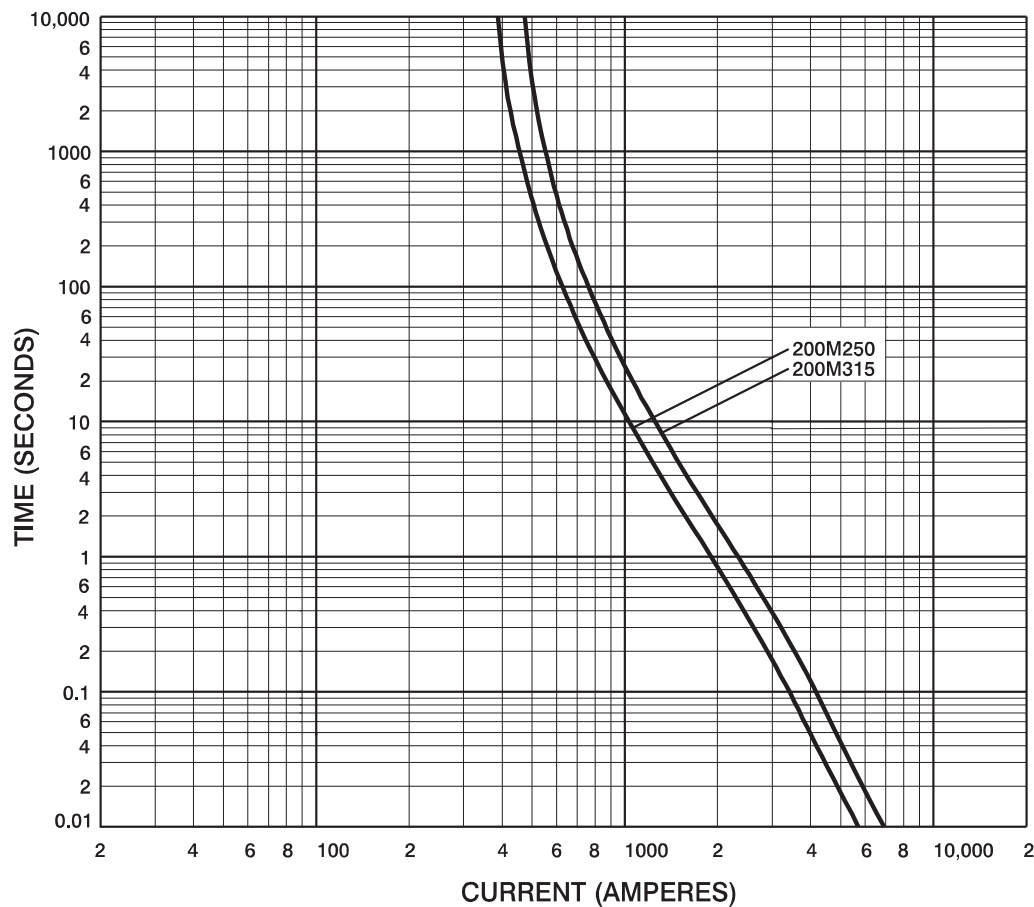


Catalogue numbers	A	B	C	D	E	F	G	H	K
DD125-200 and DD200M250-315	136	111	47	31	3.2	19	12.5	9	22.5

Time current curve - DD125 to DD200



Time current curve - DD200M



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July 2015

Bussmann series DEO Offset bolted tags fuse links



Product description

Eaton's Bussmann series range of British Standard fuse links is specifically designed for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- Suitable for motor protection if gM type selected
- Power loss values well within the limits of IEC 60269

Catalogue symbol:

- DEO (Amps)

Technical data:

- Rated voltage: 415 V a.c.
- Rated current: 125 to 200 A
- Breaking capacity: 80kA
- Class of operation: gG and gM

Standards/approvals:

- BS88
- IEC 60269
- Suitable for use in RoHS compliant applications

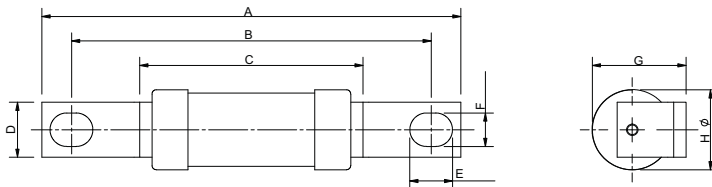
Packaging:

- MOQ 5

Table 1. Technical data

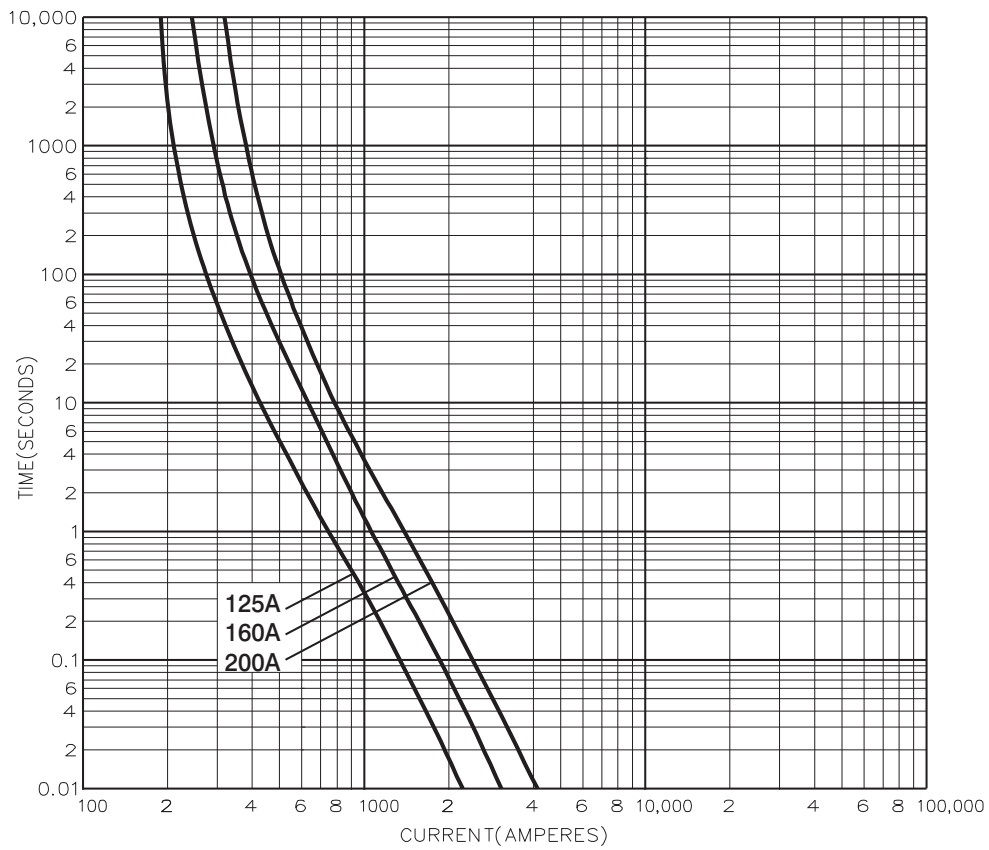
Part number	Rated voltage	Rated current (Amps)	Energy integrals I ² t (A ² S)		Watts loss W	Weight
			Pre-arcing	Total at 415V		
DEO125	415 V a.c.	125	29,500	71,000	11	138g
DEO160	415 V a.c.	160	57,000	135,000	13	138g
DEO200	415 V a.c.	200	120,000	290,000	14	138g
DEO200M315	415 V a.c.	200M315	265,000	635,000	9	145g

Dimensions - mm

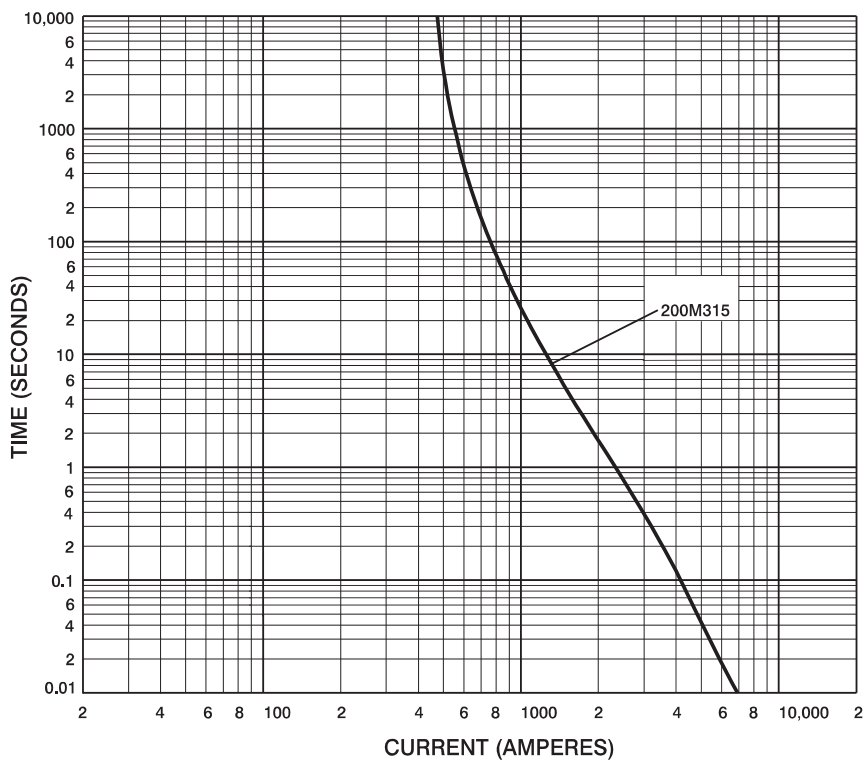


Catalogue numbers	A	B	C	D	E	F	G	H
DEO125-200 and DEO200M315	110	94	47	19	10	9	29.5	31

Time current curve - DEO125 to DEO200



Time current curve - DEO200M315



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Publication No. 4117
August 2015

Bussmann series 500 Volts gG/gL NH Fuse links



Product description

Eaton's Bussmann series 500 Volts NH square bodied industrial fuse links are suitable for a wide variety of applications.

Standard features

- Reliable dual indicator system
- Low temperature rise
- Globally compliant
- Compatible with Bussmann series PV NH base range (see data sheet 10163)

EAT•N

Powering Business Worldwide

Catalogue symbol:

- (amp)NHG(size)B

Fuse size:

- 000 to 4

Technical data:

- Volts: 500 V a.c.
- Amps: 2 to 1250 A
- Breaking capacity: 120 kA AC
- Operating frequency: 45-62 Hz
- Class of operation: gG/gL

Standards/Approvals:

- IEC 60269
- VDE 0636
- DIN 43620
- CE

Microswitches:

- 170H0236
- BVL50

Packaging:

- Sizes 000 to 3: 3 per carton
- Size 4: 1 per carton

Size - mm

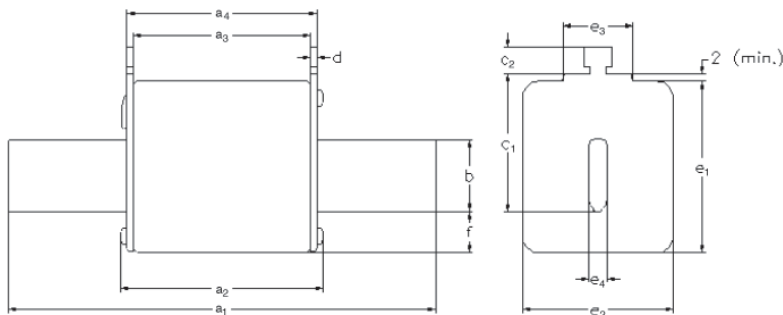


Table 1. NH Sizes

Size	a1	a2 (max)	a3	a4	b	c1	c2	d	e1 (max)	e2 (max)	e3 (max)	e4	f (max)
000	78.5 ± 1.5	54	45±1.5	49±1.5	15	35	10	2±0.5	41	21	16	6	8
00	78.5 ± 1.5	54	45±1.5	49±1.5	15	35	11	2±0.5	48	30	25	6	15
0	125±2.5	68 ⁺³ _{-1.5}	62 ⁺³ _{-1.5}	68	15	35	11	2.5±0.5	48	30	25	6	15
01	135±2.5	75	62±2.5	68±2.5	15	40	11	2.5±0.5	48	30	25	6	15
1	135±2.5	75	62±2.5	68±2.5	20	40	11	2.5±0.5	53	40	25	6	15
02	150±2.5	75	62±2.5	68±2.5	20	48	11	2.5±0.5	53	40	25	6	15
2	150±2.5	75	62±2.5	68±2.5	25	48	11	2.5±0.5	61	53	25	6	15
03	150±2.5	75	62±2.5	68±2.5	25	60	11	2.5±0.5	61	53	25	6	15
3	150±2.5	75	62±2.5	68±2.5	32	60	11	3±0.5	75	70	25	6	18
4	200±3	84	62±2.5	90±3	50	85	10	3±0.5	102	87	25	8	30

Table 2. Part numbers sizes 000 to 01

Size	Rated current (Amps)	Rated voltage (V a.c.)	gG/gL dual indicator		Pack quantity
			Voltage conducting metal gripping lugs	Insulated metal gripping lugs	
000	2	500	2NHG000B	2NHG000BI	3
000	4		4NHG000B	4NHG000BI	
000	6		6NHG000B	6NHG000BI	
000	10		10NHG000B	10NHG000BI	
000	16		16NHG000B	16NHG000BI	
000	20		20NHG000B	20NHG000BI	
000	25		25NHG000B	25NHG000BI	
000	32		32NHG000B	32NHG000BI	
000	35		35NHG000B	35NHG000BI	
000	40		40NHG000B	40NHG000BI	
000	50		50NHG000B	50NHG000BI	
000	63		63NHG000B	63NHG000BI	
000	80		80NHG000B	80NHG000BI	
000	100		100NHG000B	100NHG000BI	
00	50		50NHG00B	50NHG00BI*	
00	63		63NHG00B	63NHG00BI*	
00	80		80NHG00B	80NHG00BI*	
00	100		100NHG00B	100NHG00BI*	
00	125		125NHG00B	125NHG00BI	
00	160		160NHG00B	160NHG00BI	
0	6		6NHG0B	-	
0	10		10NHG0B	-	
0	16		16NHG0B	-	
0	20		20NHG0B	-	
0	25		25NHG0B	-	
0	32		32NHG0B	-	
0	35		35NHG0B	-	
0	40		40NHG0B	-	
0	50		50NHG0B	-	
0	63		63NHG0B	-	
0	80		80NHG0B	-	
0	100		100NHG0B	-	
0	125		125NHG0B	-	
0	160		160NHG0B	-	
01	6	500	6NHG01B	6NHG01BI	3
01	10		10NHG01B	10NHG01BI	
01	16		16NHG01B	16NHG01BI	
01	20		20NHG01B	20NHG01BI	
01	25		25NHG01B	25NHG01BI	
01	32		32NHG01B	32NHG01BI	
01	35		35NHG01B	35NHG01BI	
01	40		40NHG01B	40NHG01BI	
01	50		50NHG01B	50NHG01BI	
01	63		63NHG01B	63NHG01BI	
01	80		80NHG01B	80NHG01BI	
01	100		100NHG01B	100NHG01BI	
01	125		125NHG01B	125NHG01BI	
01	160		160NHG01B	160NHG01BI	

* Available upon request

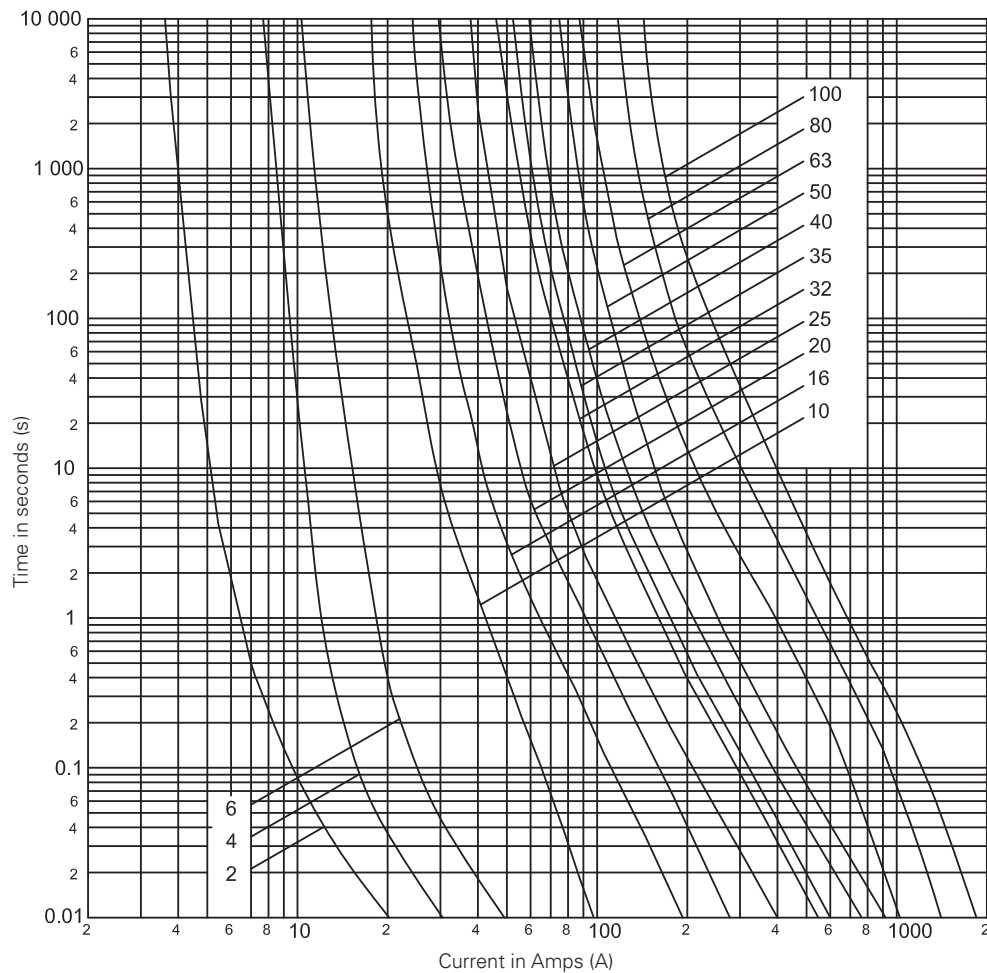
Table 3. Part numbers sizes 1 to 4

Size	Rated current (Amps)	Rated voltage (V a.c.)	gG/gL dual indicator		Pack quantity
			Voltage conducting metal gripping lugs	Insulated metal gripping lugs	
1	50	500	50NHG1B	50NHG1BI*	3
1	63	500	63NHG1B	63NHG1BI*	3
1	80	500	80NHG1B	80NHG1BI*	3
1	100	500	100NHG1B	100NHG1BI*	3
1	125	500	125NHG1B	125NHG1BI*	3
1	160	500	160NHG1B	160NHG1BI*	3
1	200	500	200NHG1B	200NHG1BI	3
1	224	500	224NHG1B	224NHG1BI	3
1	250	500	250NHG1B	250NHG1BI	3
1	315	440	315NHG1B	315NHG1BI*	3
1	355	440	355NHG1B	355NHG1BI*	3
02	35	500	35NHG02B	35NHG02BI	3
02	40	500	40NHG02B	40NHG02BI	3
02	50	500	50NHG02B	50NHG02BI	3
02	63	500	63NHG02B	63NHG02BI	3
02	80	500	80NHG02B	80NHG02BI	3
02	100	500	100NHG02B	100NHG02BI	3
02	125	500	125NHG02B	125NHG02BI	3
02	160	500	160NHG02B	160NHG02BI	3
02	200	500	200NHG02B	200NHG02BI	3
02	224	500	224NHG02B	224NHG02BI	3
02	250	500	250NHG02B	250NHG02BI	3
2	250	500	250NHG2B	250NHG2BI*	3
2	300	500	300NHG2B	300NHG2BI*	3
2	315	500	315NHG2B	315NHG2BI	3
2	355	500	355NHG2B	355NHG2BI	3
2	400	500	400NHG2B	400NHG2BI	3
2	425	500	425NHG2B	425NHG2BI*	3
2	450	500	450NHG2B	450NHG2BI*	3
2	500	440	500NHG2B	500NHG2BI*	3
03	250	500	250NHG03B	250NHG03BI	3
03	315	500	315NHG03B	315NHG03BI	3
03	355	500	355NHG03B	355NHG03BI	3
03	400	500	400NHG03B	400NHG03BI	3
3	315	500	315NHG3B	-	3
3	355	500	355NHG3B	-	3
3	400	500	400NHG3B	-	3
3	425	500	425NHG3B	-	3
3	500	500	500NHG3B	-	3
3	630	500	630NHG3B	-	3
3	800	440	800NHG3B	-	3
4**	500	500	500NHG4G	-	1
4**	630	500	630NHG4G	-	1
4**	800	500	800NHG4G	-	1
4**	1000	500	1000NHG4G	-	1
4**	1250	500	1250NHG4G	-	1

* Available upon request

** Single indicator and slotted end tags

Time-current curves - NH Size 000

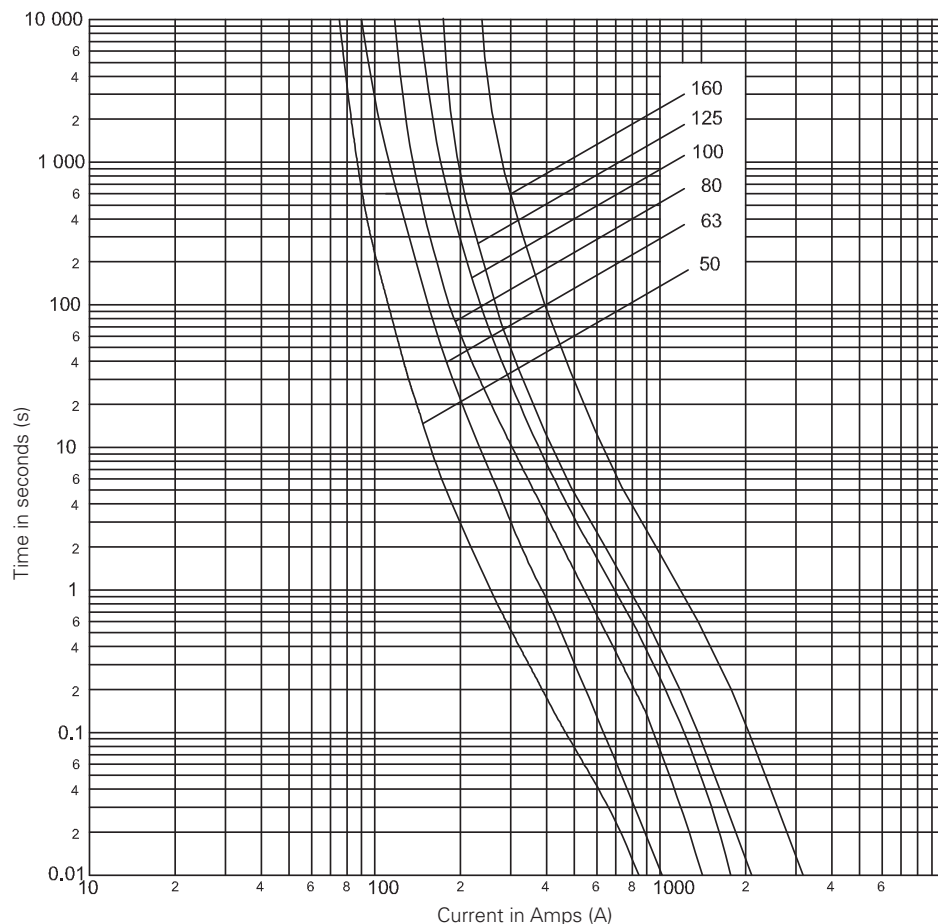


Technical data - NH size 000

Part numbers with metal gripping lugs	Part numbers with insulated metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I ² t (Amps ² Seconds)			Net weight per fuse (kg)
					Minimum pre-arcing	*I _b 120kA at 500 V a.c.	Watts loss	
2NHG000B	2NHG000BI	000	2	500	3.5	6	3.9	0.13
4NHG000B	4NHG000BI		4		6	12	1.8	
6NHG000B	6NHG000BI		6		14	21	2	
10NHG000B	10NHG000BI		10		58	290	1.5	
16NHG000B	16NHG000BI		16		234	1200	2.3	
20NHG000B	20NHG000BI		20		490	2500	2.2	
25NHG000B	25NHG000BI		25		920	4600	3.1	
32NHG000B	32NHG000BI		32		1800	9000	3.4	
35NHG000B	35NHG000BI		35		2400	11,800	3.7	
40NHG000B	40NHG000BI		40		3300	16,500	4	
50NHG000B	50NHG000BI		50		5900	29,500	4.9	
63NHG000B	63NHG000BI		63		6300	24,900	4.6	
80NHG000B	80NHG000BI		80		9800	38,900	6.3	
100NHG000B	100NHG000BI		100		18,100	72,300	7.4	

*I_b is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 00



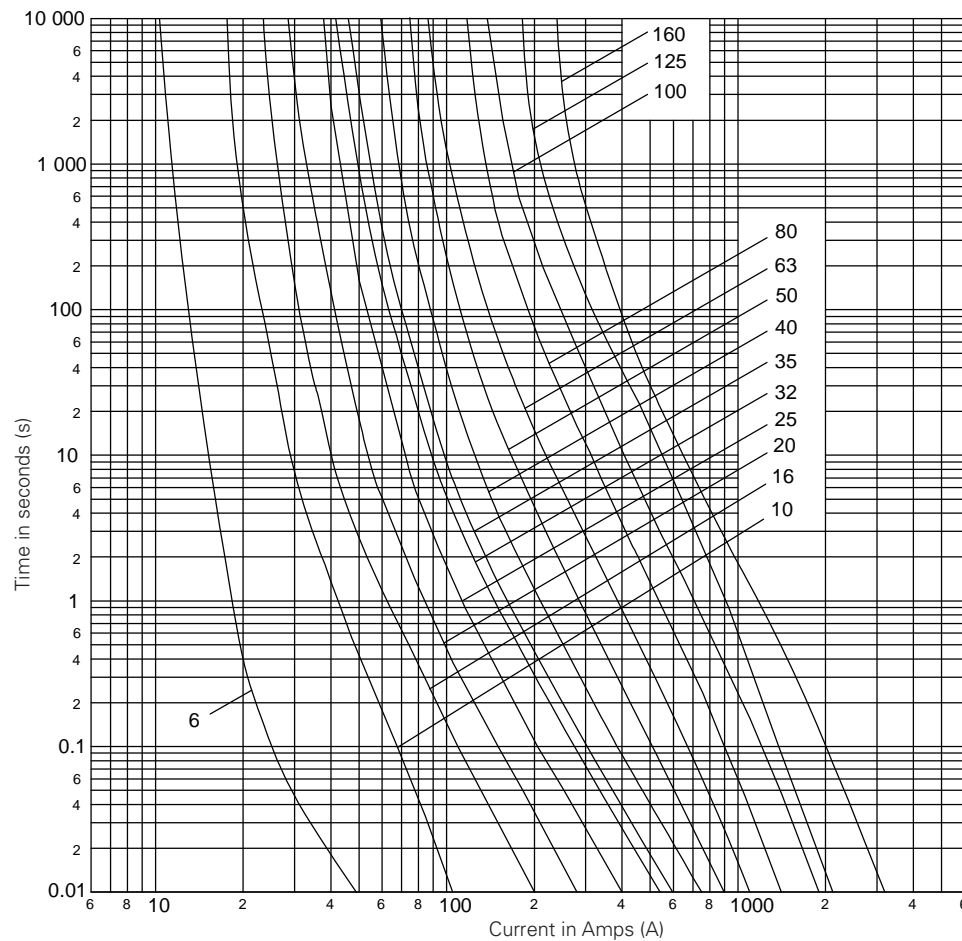
Technical data - NH size 00

Part numbers with metal gripping lugs	Part numbers with insulated metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I ² t (Amps ² Seconds)			Net weight per fuse (kg)
					Minimum pre-arcing	*I ₁ 120kA at 500 V a.c.	Watts loss	
50NHG00B	50NHG00BI**	00	50	500	5800	21,500	5	0.19
63NHG00B	63NHG00BI**		63		5800	25,000	5	
80NHG00B	80NHG00BI**		80		11,000	35,000	7	
100NHG00B	100NHG00BI**		100		19,000	60,000	7.5	
125NHG00B	125NHG00BI		125		25,000	125,000	10	
160NHG00B	160NHG00BI		160		64,000	310,000	10	

*I₁ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

** Available upon request

Time-current curves - NH Size 0

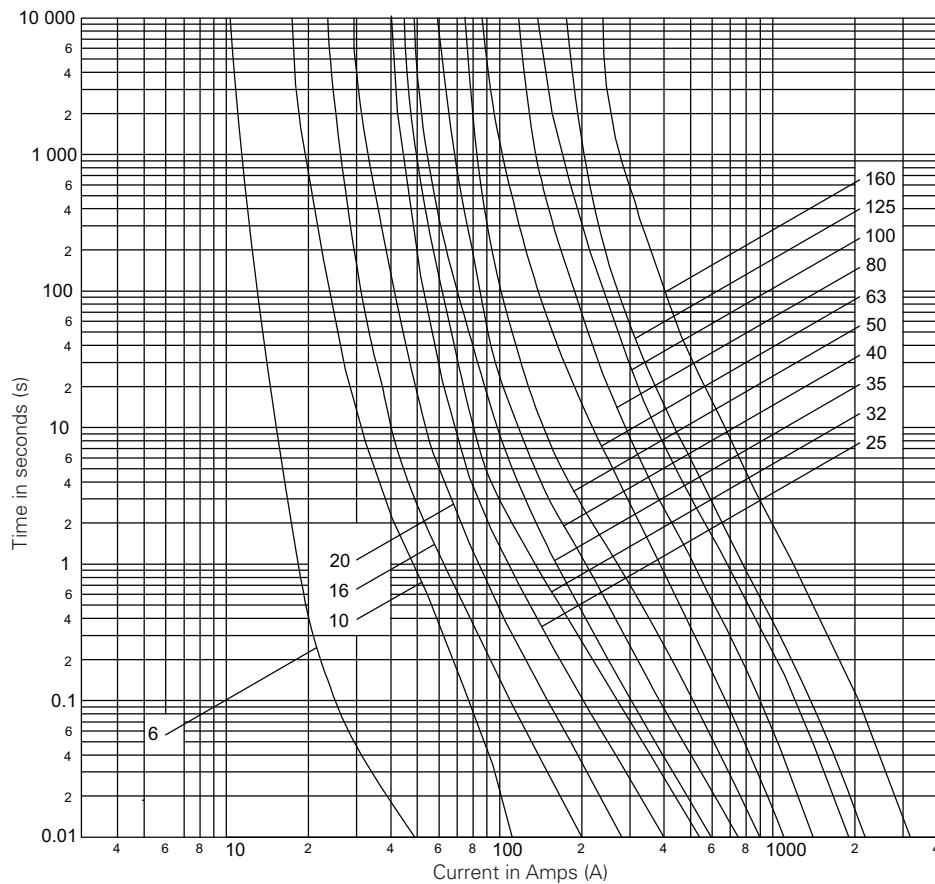


Technical data - NH size 0

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I²t (Amps² Seconds)			Net weight per fuse (kg)
				Minimum pre-arcing	*I _a 120kA at 500 V a.c.	Watts loss	
6NHGOB	0	6	500	14	21	2	0.26
10NHGOB		10		58	290	2	
16NHGOB		16		240	1200	3	
20NHGOB		20		490	2500	3.5	
25NHGOB		25		1200	5600	3.2	
32NHGOB		32		1800	9000	4.8	
35NHGOB		35		2400	11,800	4.7	
40NHGOB		40		3300	16,500	5	
50NHGOB		50		5600	27,800	6.3	
63NHGOB		63		6600	26,100	5.6	
80NHGOB		80		9800	38,900	7.1	
100NHGOB		100		20,600	82,300	7.5	
125NHGOB		125		25,000	125,000	11.8	
160NHGOB		160		62,000	310,000	12.3	

*I_a is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 01

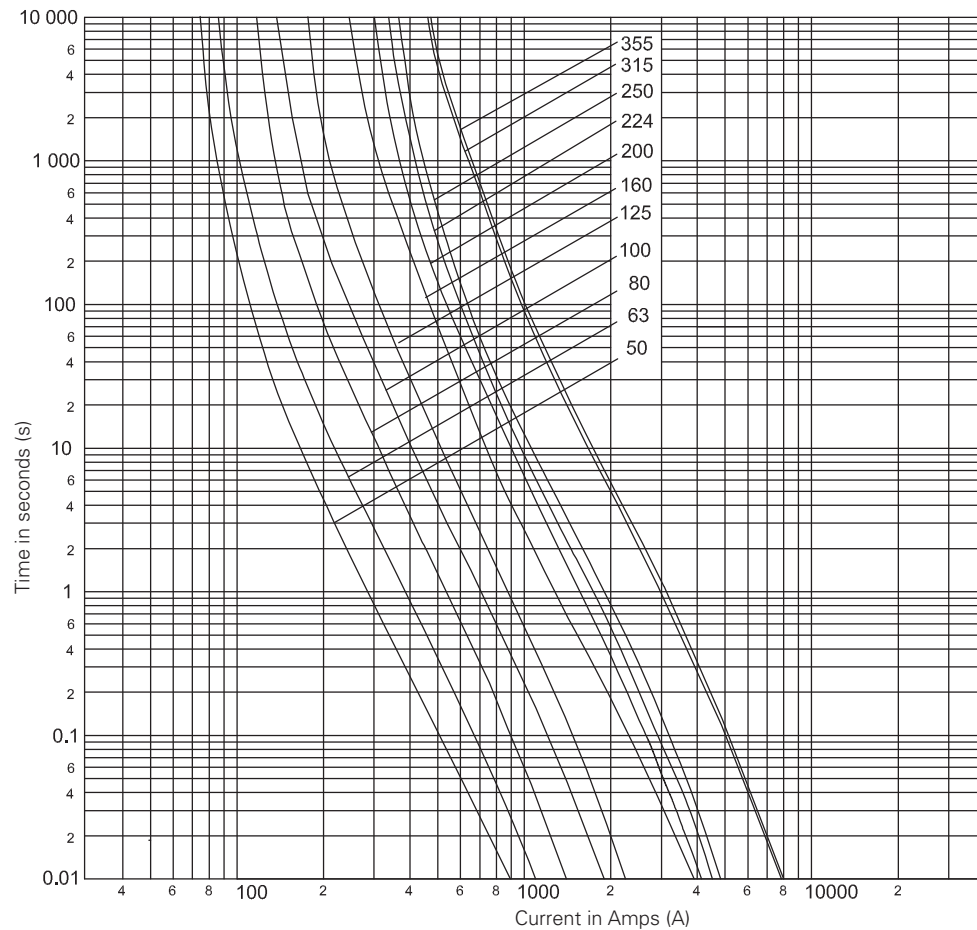


Technical data - NH size 01

Part numbers with metal gripping lugs	Part numbers with insulated metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I²t (Amps² Seconds)			Net weight per fuse (kg)
					Minimum pre-arcing	*I ₁ 120kA at 500 V a.c.	Watts loss	
6NHG01B	6NHG01BI	01	6	500	14	21	2	0.27
10NHG01B	10NHG01BI		10		58	290	2	
16NHG01B	16NHG01BI		16		240	1200	3	
20NHG01B	20NHG01BI		20		490	2500	3.4	
25NHG01B	25NHG01BI		25		1200	5600	5	
32NHG01B	32NHG01BI		32		1800	9000	4.8	
35NHG01B	35NHG01BI		35		2400	11,800	4.6	
40NHG01B	40NHG01BI		40		3300	16,500	5	
50NHG01B	50NHG01BI		50		5600	27,800	6.3	
63NHG01B	63NHG01BI		63		6600	26,100	5.6	
80NHG01B	80NHG01BI		80		9800	38,900	7.1	
100NHG01B	100NHG01BI		100		20,600	82,300	7.7	
125NHG01B	125NHG01BI		125		25,000	125,000	11.8	
160NHG01B	160NHG01BI		160		62,000	310,000	12.3	

*I₁ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 1



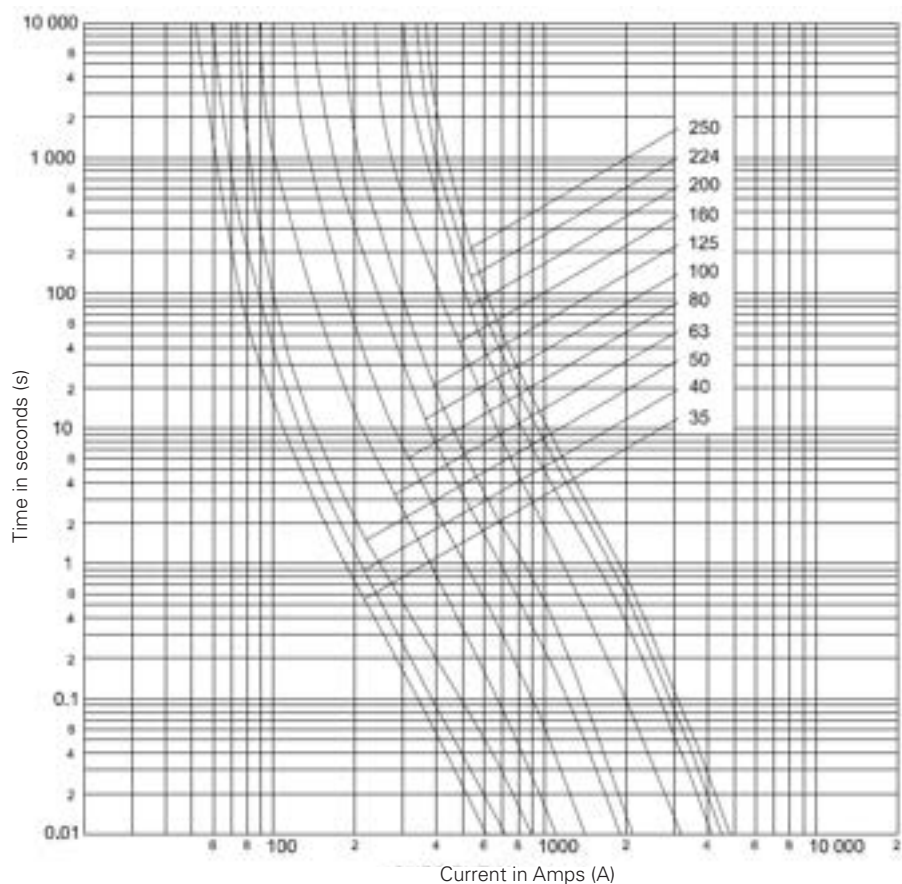
Technical data - NH size 1

Part numbers with metal gripping lugs	Part numbers with insulated metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I ² t (Amps ² Seconds)			Net weight per fuse (kg)
					Minimum pre-arcing	*I ₁ 120kA at 500 V a.c.	Watts loss	
50NHG1B	50NHG1BI**	1	50	500	6350	18,000	6.4	0.39
63NHG1B	63NHG1BI**		63	500	6800	23,000	5.6	
80NHG1B	80NHG1BI**		80	500	10,500	31,200	7.7	
100NHG1B	100NHG1BI**		100	500	22,000	68,200	8.2	
125NHG1B	125NHG1BI**		125	500	29,000	82,000	13	
160NHG1B	160NHG1BI**		160	500	62,000	310,000	12.3	
200NHG1B	200NHG1BI		200	500	97,000	368,600	15	
224NHG1B	224NHG1BI		224	500	124,000	471,200	18	
250NHG1B	250NHG1BI		250	500	151,300	574,900	19	
315NHG1B	315NHG1BI**		315	440	320,000	750,000	22	
355NHG1B	355NHG1BI**		355	440	320,000	750,000	32	

*I₁ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

** Available upon request

Time-current curves - NH Size 02

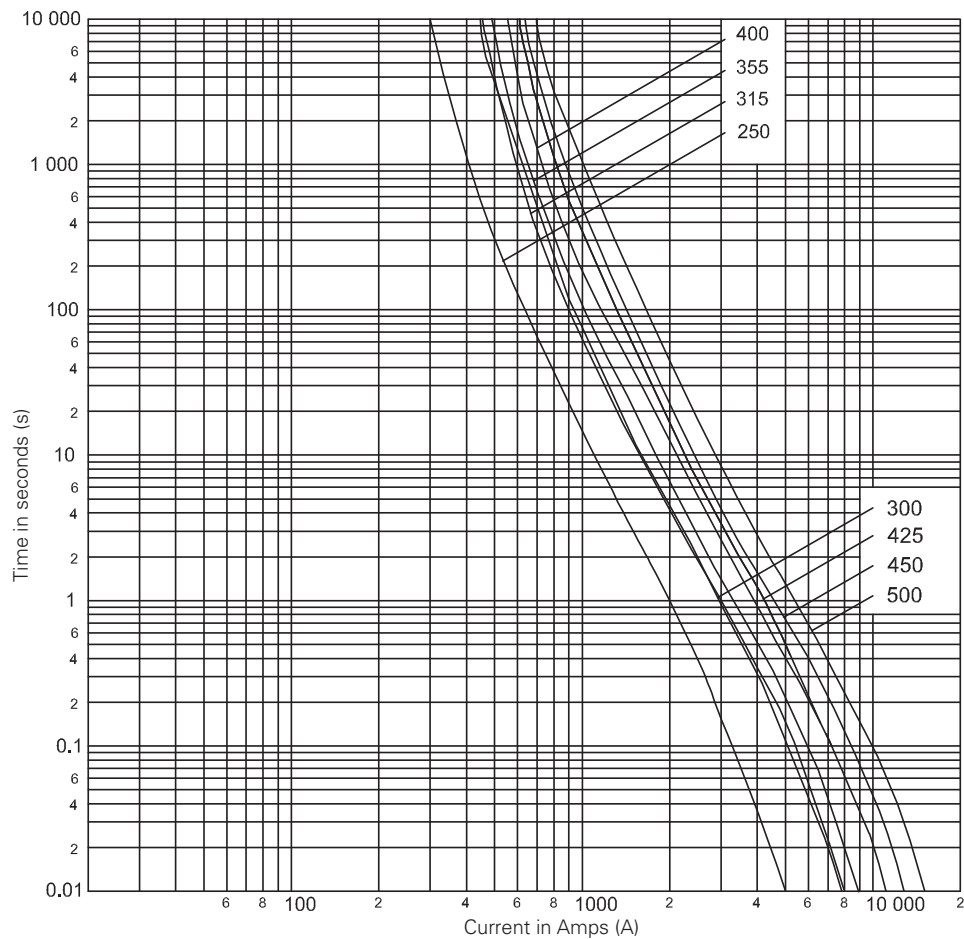


Technical data - NH size 02

Part numbers with metal gripping lugs	Part numbers with insulated metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I²t (Amps² Seconds)			Net weight per fuse (kg)
					Minimum pre-arcing	*I ₁ 120kA at 500 V a.c.	Watts loss	
35NHG02B	35NHG02BI	02	35	500	2400	11,800	4.7	0.40
40NHG02B	40NHG02BI		40		3300	16,500	5	
50NHG02B	50NHG02BI		50		5600	27,800	6.4	
63NHG02B	63NHG02BI		63		6600	26,100	5.5	
80NHG02B	80NHG02BI		80		9800	38,900	7.3	
100NHG02B	100NHG02BI		100		20,600	82,300	7.5	
125NHG02B	125NHG02BI		125		25,000	100,000	12	
160NHG02B	160NHG02BI		160		62,000	248,000	12	
200NHG02B	200NHG02BI		200		96,900	367,900	15	
224NHG02B	224NHG02BI		224		124,000	471,200	18	
250NHG02B	250NHG02BI		250		151,300	574,900	19	

*I₁ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 2



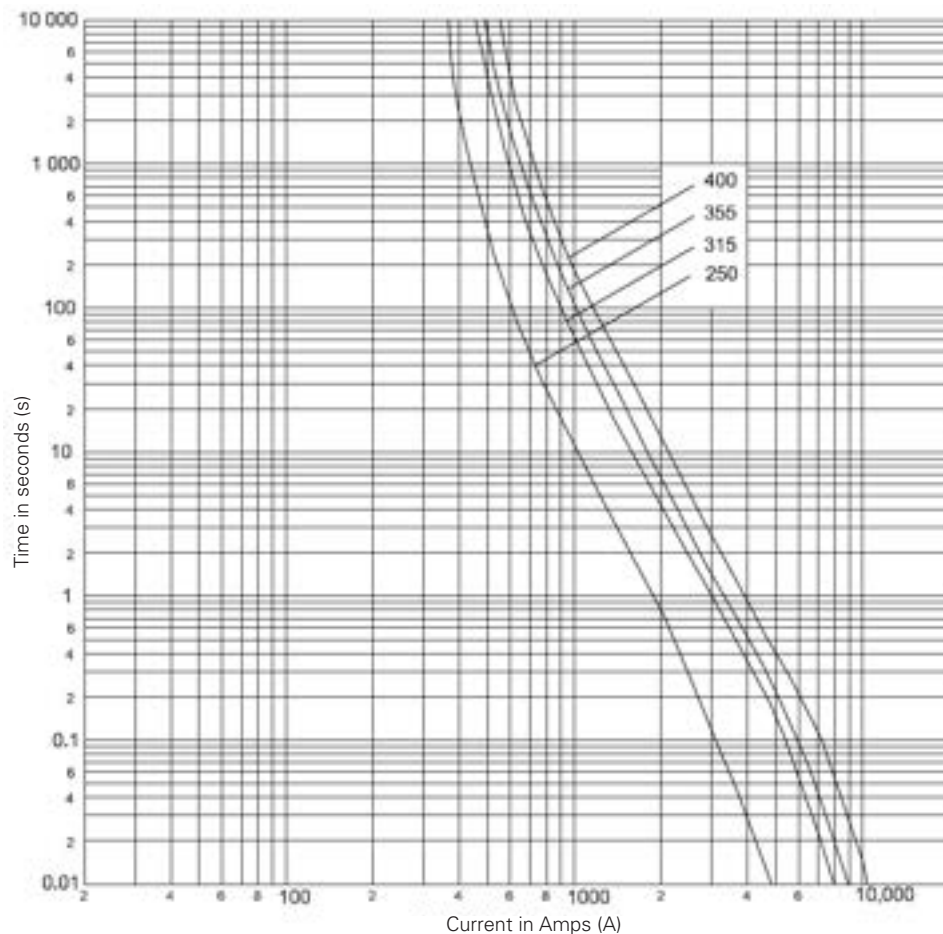
Technical data - NH size 2

Part numbers with metal gripping lugs	Part numbers with insulated metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I²t (Amps² Seconds)			Net weight per fuse (kg)
					Minimum pre-arcing	*I ₁ 120kA at 500 V a.c.	Watts loss	
250NHG2B	250NHG2BI**	2	250	500	170,000	437,000	23	0.63
300NHG2B	300NHG1BI**		300	500	320,000	840,000	20	
315NHG2B	315NHG2BI		315	500	361,700	1,446,500	21	
355NHG2B	355NHG2BI		355	500	446,500	1,785,800	27	
400NHG2B	400NHG2BI		400	500	642,900	2,571,500	30	
425NHG2B	425NHG2BI**		425	500	720,000	1,862,000	31	
450NHG2B	450NHG2BI**		450	500	870,000	2,275,000	31	
500NHG2B	500NHG2BI**		500	440	1,200,000	2,720,000	37	

*I₁ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

** Available upon request

Time-current curves - NH Size 03

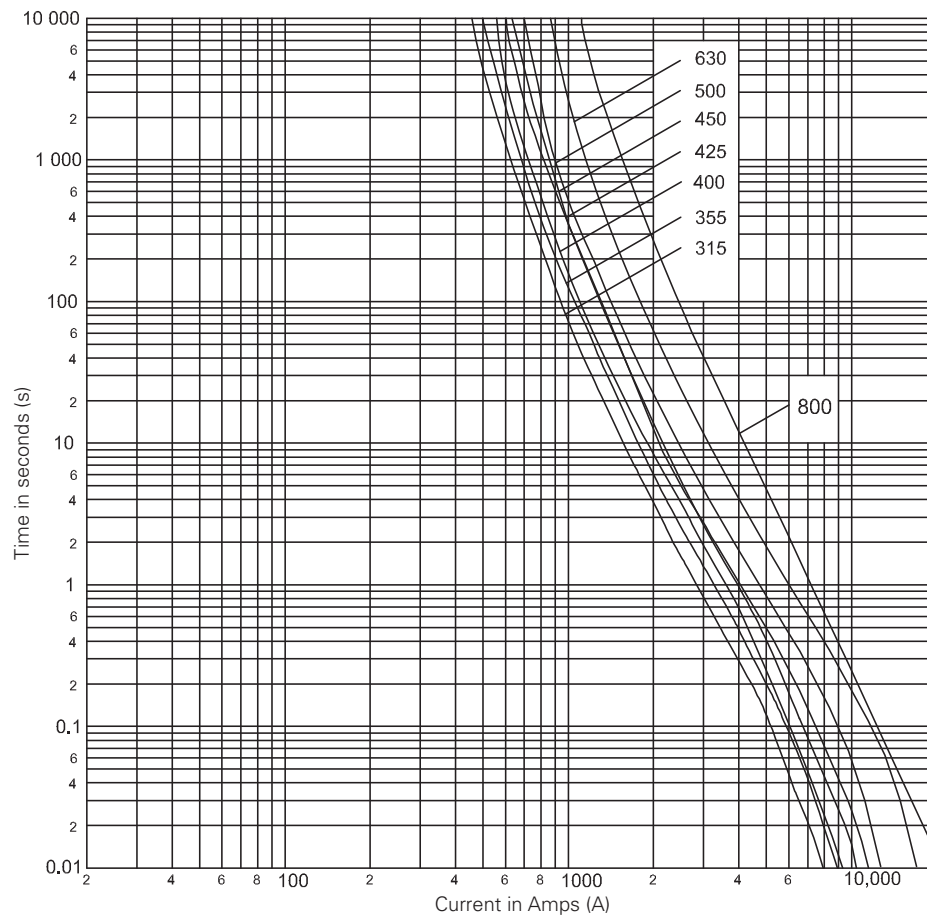


Technical data - NH size 03

Part numbers with metal gripping lugs	Part numbers with insulated metal gripping lugs	Fuse link size	Rated current (Amp)	Rated voltage (V a.c.)	I ² t (Amps ² Seconds)			Net weight per fuse (kg)
					Minimum pre-arcing	*I ₁ 120kA at 500 V a.c.	Watts loss	
250NHG03B	250NHG03BI	03	250	500	160,800	642,900	20	0.64
315NHG03B	315NHG03BI		315		361,700	1,446,500	21	
355NHG03B	355NHG03BI		355		446,500	1,785,800	27	
400NHG03B	400NHG03BI		400		642,900	2,571,500	30	

*I₁ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 3

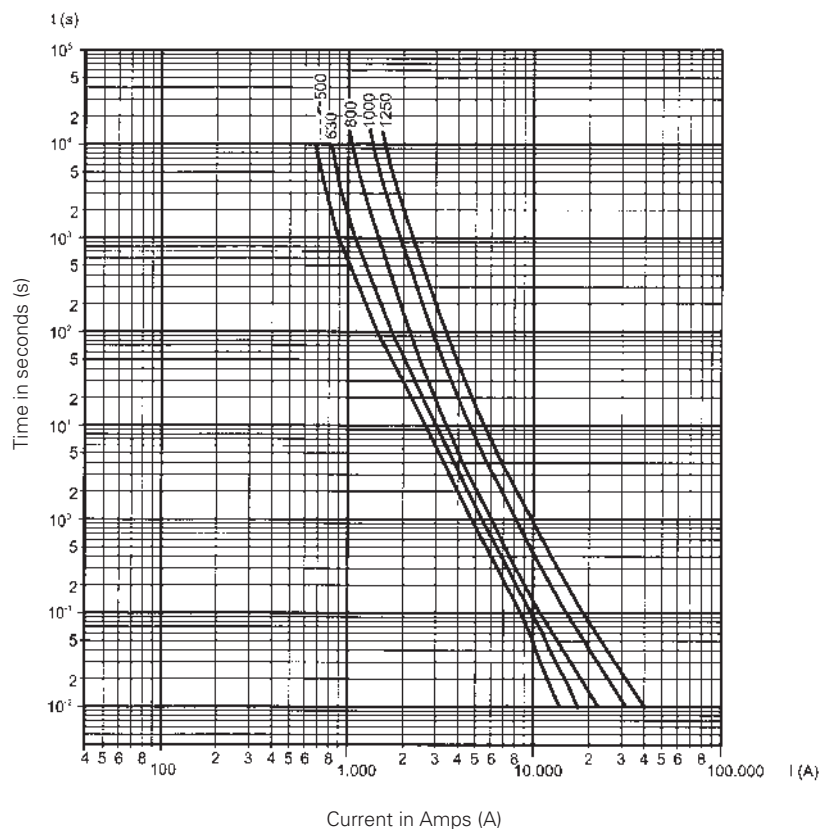


Technical data - NH size 3

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amp)	Rated voltage (V a.c.)	I ² t (Amps ² Seconds)			Net weight per fuse (kg)
				Minimum pre-arcing	*I ₁ 120kA at 500 V a.c.	Watts loss	
315NHG3B	3	315	500	375,000	970,000	22	1.05
355NHG3B		355	500	400,000	1,110,000	25	
400NHG3B		400	500	642,900	2,571,500	30	
425NHG3B		425	500	570,000	1,934,000	30	
450NHG3B		450	500	670,000	2,260,000	33	
500NHG3B		500	500	886,000	3,898,400	37	
630NHG3B		630	500	1,590,000	6,996,000	47	
800NHG3B		800	440	2,420,000	5,420,000	59	

*I₁ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 4



Technical data - NH size 4

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I ² t (Amps ² Seconds)			Net weight per fuse (kg)
				Minimum pre-arcing	*I ₁ 120kA at 500 V a.c.	Watts loss	
500NHG4G	4	500	500	800,000	3,850,000	37	2.2
630NHG4G		630		880,000	4,100,000	47	
800NHG4G		800		1,500,000	6,480,000	68	
1000NHG4G		1000		4,800,000	13,000,000	80	
1250NHG4G		1250		7,000,000	18,000,000	108	

*I₁ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

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Bussmann series

ED Industrial HRC Fuse Links



Product description

Eaton's Bussmann series range of British Standard B3/B4 fuse links is specifically designed for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- gG characteristics for cable protection and gM for motor protection applications
- Power loss values well within the limits of IEC 60269

Catalogue symbol:

- ED(Amps)

Technical data:

- Rated voltage: 415 / 550 V a.c.
- Rated current: 250 to 400 A
- Breaking capacity: 80 kA
- Class of operation: gG and gM
- BS reference: B3/B4

Standards/approvals:

- BS88
- IEC 60269
- Suitable for use in RoHS compliant applications

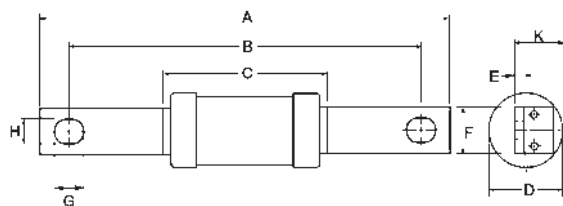
Packaging:

- MOQ 1

Table 1. Technical data

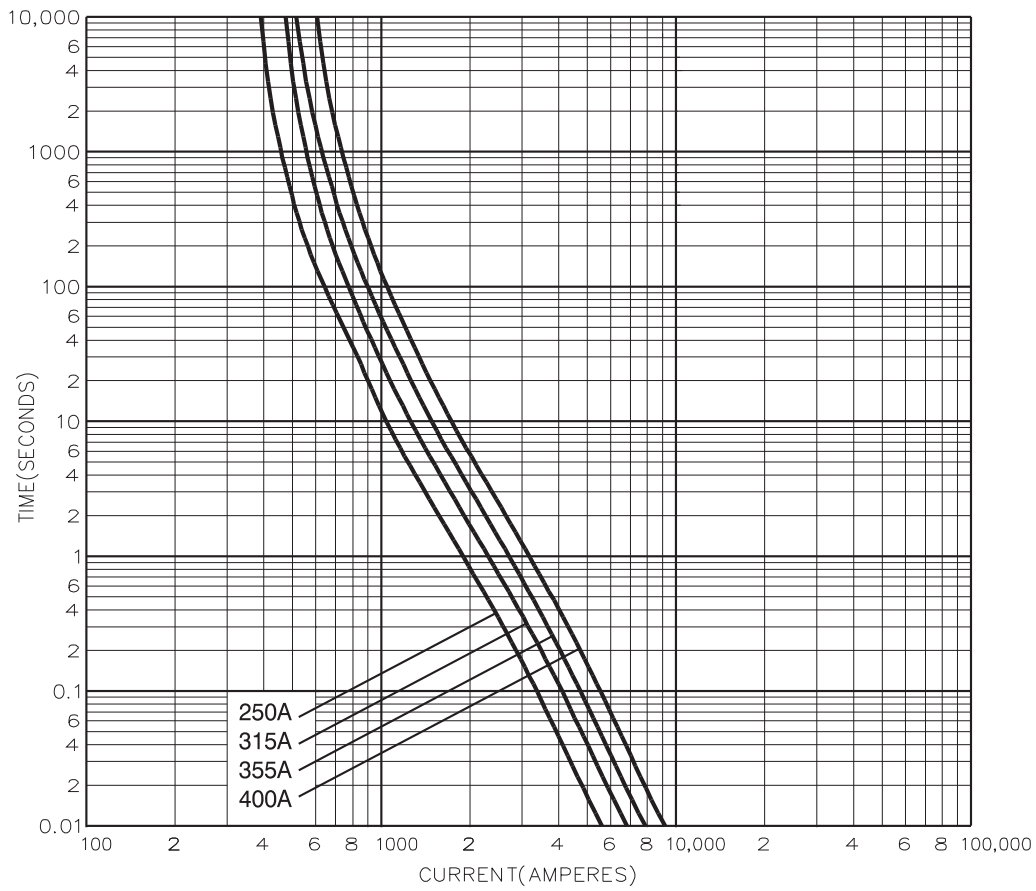
Part number	Rated voltage	Rated current (amps)	Energy integrals I^2t (A ² S)		Watts loss W	Product class	Weight
			Pre-arcing	Total at 415V			
ED250	415 V a.c.	250	200	480	18	gG	300g
ED315	415 V a.c.	315	265	635	22	gG	300g
ED355	415 V a.c.	355	360	865	24	gG	300g
ED400	415 V a.c.	400	475	1,150	29	gG	300g
ED315M400	415 V a.c.	315M400	475	1,150	15	gM	300g
ED400M500	550 V a.c.	400M500	1,200	2,700	24	gM	590g

Dimensions - mm

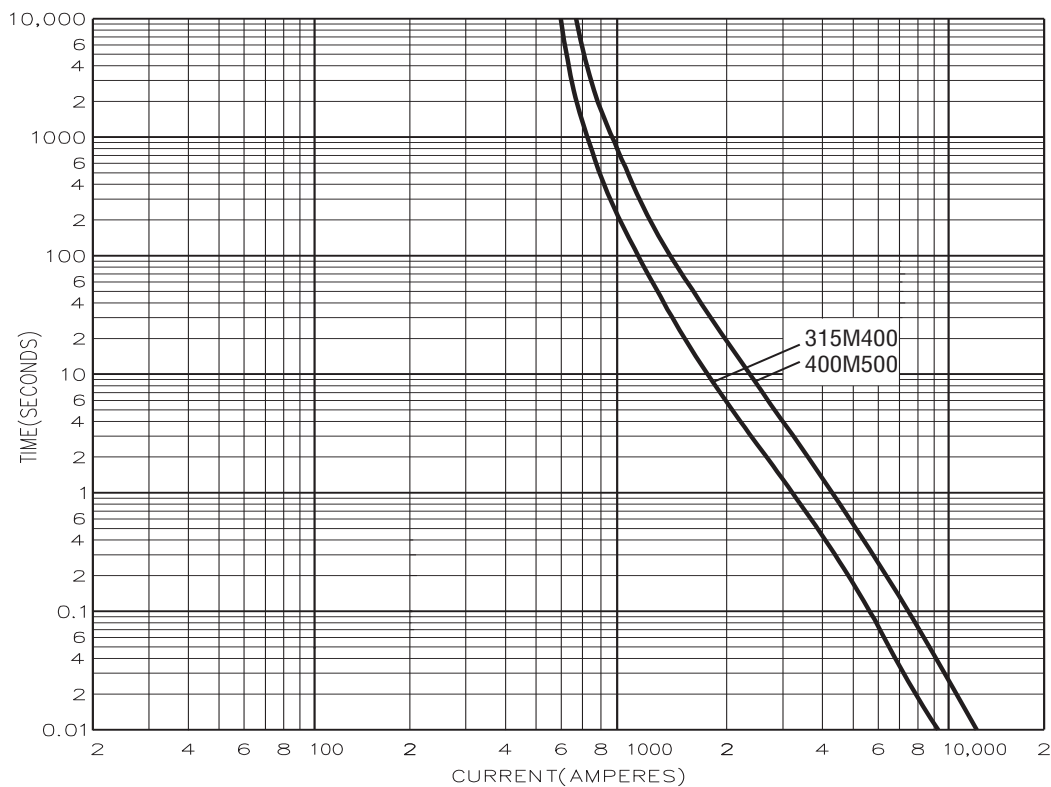


Catalogue numbers	A	B	C	D	E	F	G	H	K
ED250	136	111	47	31	4.7	19	12.5	9	22.5
ED315-400 to ED315M400	136	111	50	38	4.7	25.4	12.5	9	31
ED400M500	136	111	75	59	4.7	25.4	12.5	9	31

Time current curve - non motor rated



Time current curve - motor rated



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ESD BS88 Offset blade tags fuse links



Product description

Eaton's Bussmann® series ESD British Standard fuse links, size F2, are specifically designed for the protection of general industrial applications e.g. power distribution and cable protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- Power loss values well within the limits of IEC 60269-2

Catalogue symbol:

- ESD(Amps)

Technical data:

- Rated voltage: 550 V a.c. (gG) / 415 V a.c. (gM)
- Rated current: 2 to 63 A
- Breaking capacity: 80 kA
- Breaking range and utilisation category: gG and gM
- Size: F2

Standards/Approvals:

- BS88-2
- IEC 60269-2
- Suitable for use in RoHS compliant applications

Fuse holders (ordered separately)

- Safeloc 63ENS range
- Safeclip SC63 range

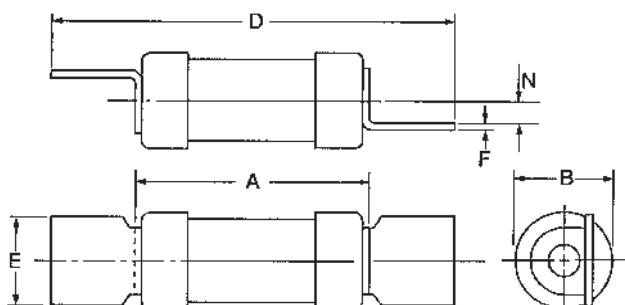
Packaging:

- MOQ 20

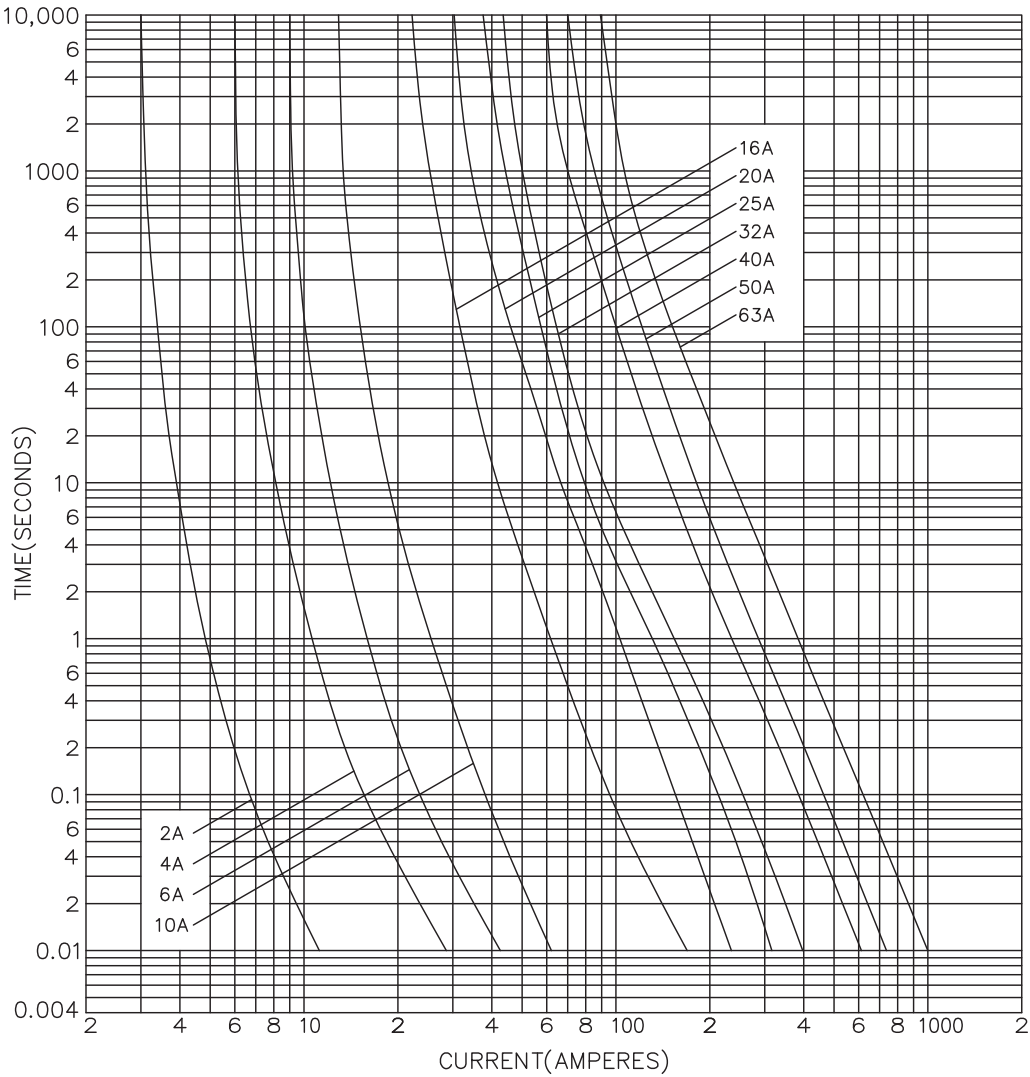
Table 1. Technical data

Part number	Rated voltage	Rated current (Amps)	Energy integrals I ² t (A ² S)		Watts loss	Dimensions (mm)							Product Class	Weight
			Pre-arcing	Total at 415 V a.c.		W	A	B	D	E	F	N		
ESD2	550 V a.c.	2	1.3	4.6	0.9	35.5	13.8	68	15	1.2	3.5	3.5	gG	20g
ESD4	550 V a.c.	4	8	27	1.4	35.5	13.8	68	15	1.2	3.5	3.5	gG	20g
ESD6	550 V a.c.	6	29	100	1.8	35.5	13.8	68	15	1.2	3.5	3.5	gG	20g
ESD10	550 V a.c.	10	120	400	2.1	35.5	13.8	68	15	1.2	3.5	3.5	gG	20g
ESD16	550 V a.c.	16	120	470	1.8	35.5	13.8	68	15	1.2	3.5	3.5	gG	20g
ESD20	550 V a.c.	20	260	1070	1.8	35.5	13.8	68	15	1.2	3.5	3.5	gG	20g
ESD25	550 V a.c.	25	560	2300	2	35.5	13.8	68	15	1.2	3.5	3.5	gG	20g
ESD32	550 V a.c.	32	710	3000	2.9	35.5	13.8	68	15	1.2	3.5	3.5	gG	20g
ESD40	415 V a.c.	40	1500	6000	3.2	35.5	17.5	68	15	1.2	3.5	3.5	gG	30g
ESD50	415 V a.c.	50	2700	8700	3.9	35.5	17.5	68	15	1.2	3.5	3.5	gG	30g
ESD63	415 V a.c.	63	5000	13,300	4.6	35.5	17.5	68	15	1.2	3.5	3.5	gG	30g
ESD63M80	415 V a.c.	63M80	12,700	40,000	3.4	35.5	21	68	15	1.2	3.5	3.5	gM	40g
ESD63M100	415 V a.c.	63M100	20,700	70,000	2.5	35.5	21	68	15	1.2	3.5	3.5	gM	40g

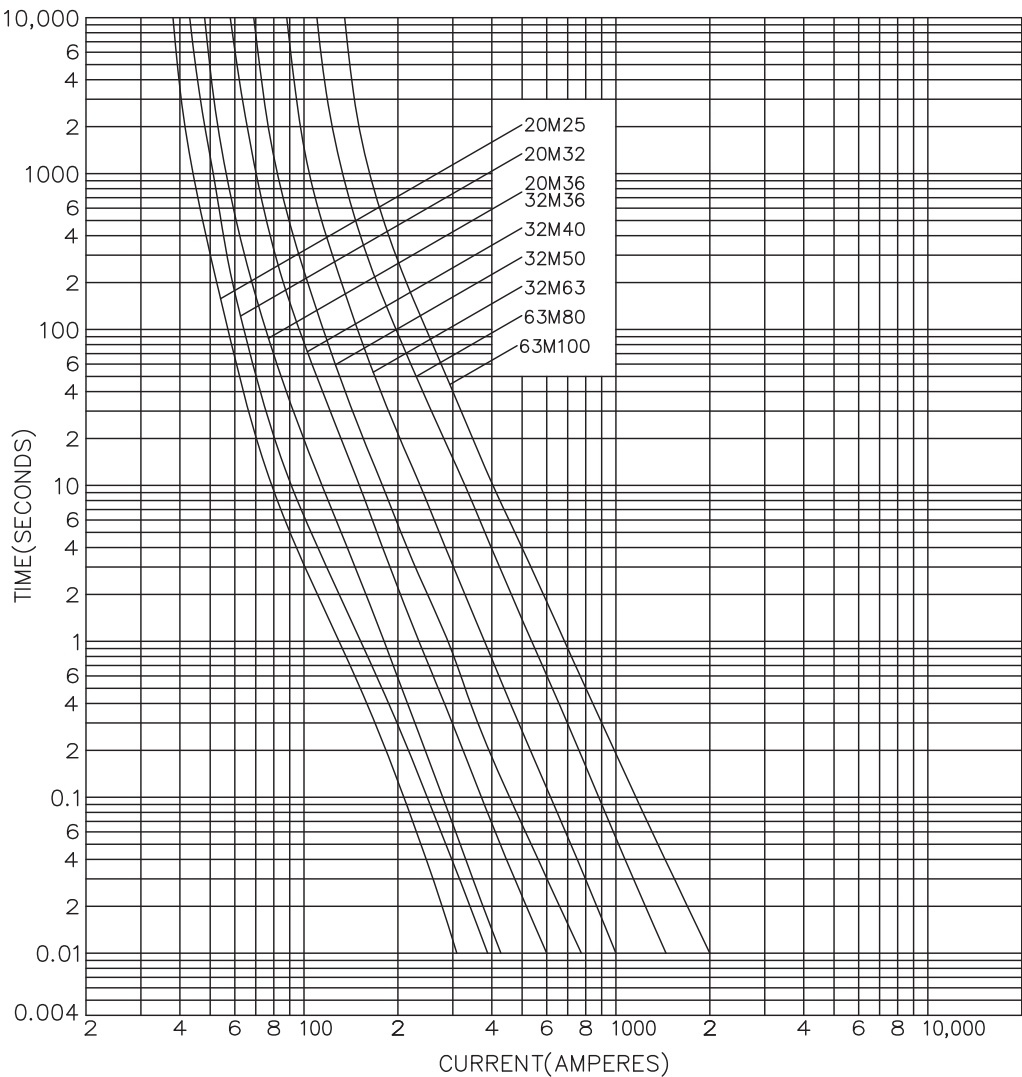
Outline drawing



Time current curve - ESD gG, 2 to 63 A



Time current curve - ESD gM, 63M80 and 63M100 only



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FF BS88 Centre bolted tags fuse links



Product description

Eaton's Bussmann® series FF British Standard, size C2, fuse links are specifically designed for the protection of general industrial applications e.g. power distribution and cable protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- Power loss values well within the limits of IEC 60269-2

Catalogue symbol:

- FF(Amps)

Technical data:

- Rated voltage: 550 V a.c. / 400 V d.c.
- Rated current: 450 to 630 A
- Breaking capacity: 80 kA a.c. / 40 kA d.c.
- Breaking range and utilisation category: gG
- Size: C2

Standards/Approvals:

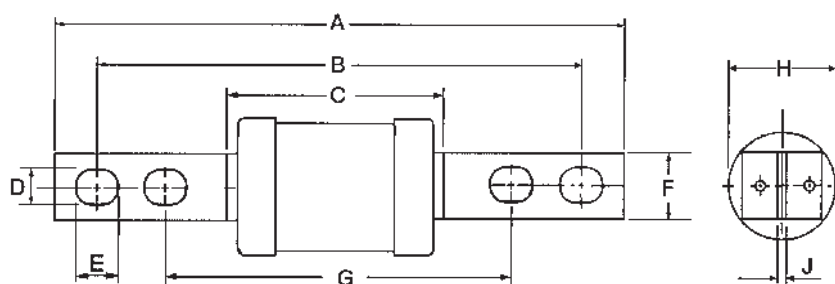
- BS88-2
- IEC 60269-2
- Suitable for use in RoHS compliant applications

Packaging:

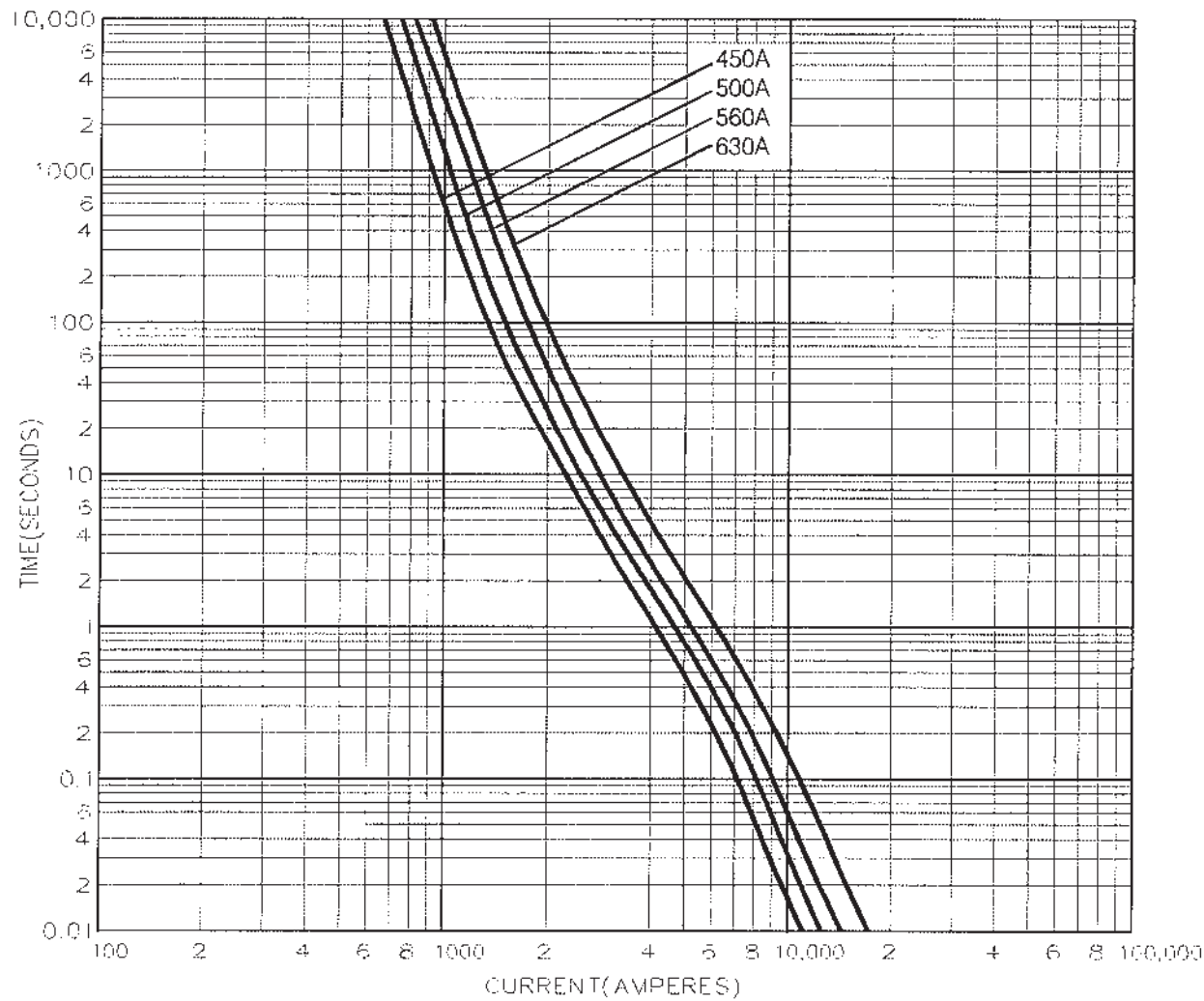
- MOQ 1

Table 1. Technical data

Part number	Rated voltage	Rated current (Amps)	Energy integrals I²t (A²S)		Watts loss	Dimensions (mm)										Product class	Weight
			Pre-arcing	Total at 415 V a.c.		W	A	B	C	D	E	F	G	H	J		
FF450	550 V a.c. 400V d.c.	450	850	1600	32	210	185	77.5	10.5	15.5	25.4	134	74	6.4	gG	1.055Kg	
FF500	550 V a.c. 400 V d.c.	500	1100	2000	38	210	185	77.5	10.5	15.5	25.4	134	74	6.4	gG	1.055Kg	
FF560	550 V a.c. 400V d.c.	560	1400	2400	43	210	185	77.5	10.5	15.5	25.4	134	74	6.4	gG	1.055Kg	
FF630	550 V a.c. 400V d.c.	630	2000	3500	50	210	185	77.5	10.5	15.5	25.4	134	74	6.4	gG	1.055Kg	

Outline drawing


Time current curve



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October 2017

NITD BS88 Offset bolted tags fuse links



Product description

Eaton's Bussmann® series NITD British Standard, size A1, fuse links are specifically designed for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- Power loss values well within the limits of IEC 60269-2

Catalogue symbol:

- NITD (Amps)

Technical data:

- Rated voltage: 415 V a.c. / 550 V a.c.
- Rated current: 2 A to 32 A
- BS reference: A1
- Breaking capacity: 80kA
- Breaking capacity and utilisation category: gG and gM

Standards/Approvals:

- BS88-2
- IEC 60269-2
- Suitable for use in RoHS compliant applications

Fuse holders (ordered separately)

- CM32FC
- CM20F (up to 20 A)
- RS20H (up to 20 A)

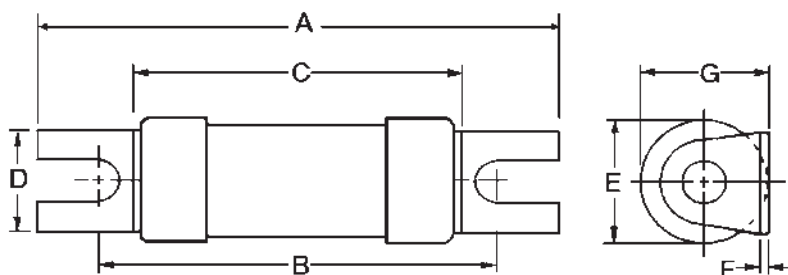
Packaging:

- MOQ 20

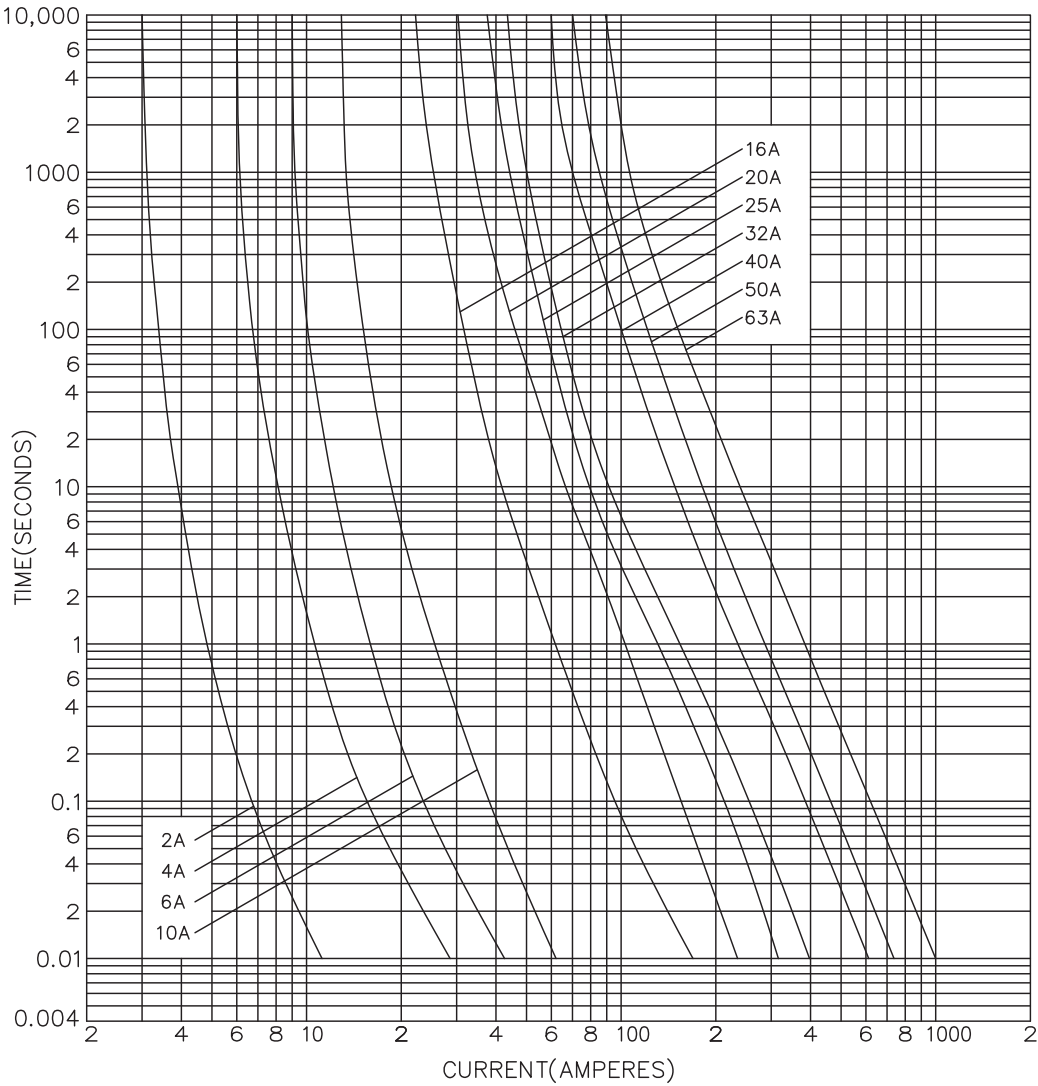
Table 1. Technical Data

Part number	Rated voltage	Rated current (amps)	Energy integrals I ² t (A ² S)		Watts loss W	Dimensions (mm)								Product Class	Weight
			Pre-arcing	Total at 415 V		A	B	C	D	E	F	G			
NITD2	550 V a.c.	2	1.3	4.5	0.9	55	44.5	34.6	11.2	13.8	0.80	14	gG	15g	
NITD4	550 V a.c.	4	7.8	27	1.4	55	44.5	34.6	11.2	13.8	0.80	14	gG	15g	
NITD6	550 V a.c.	6	29	100	1.8	55	44.5	34.6	11.2	13.8	0.80	14	gG	15g	
NITD10	550 V a.c.	10	120	400	2.1	55	44.5	34.6	11.2	13.8	0.80	14	gG	15g	
NITD16	550 V a.c.	16	120	470	1.8	55	44.5	34.6	11.2	13.8	0.80	14	gG	15g	
NITD20	550 V a.c.	20	260	1000	1.8	55	44.5	34.6	11.2	13.8	0.80	14	gG	15g	
NITD25	550 V a.c.	25	560	2300	2	55	44.5	34.6	11.2	13.8	0.80	14	gG	15g	
NITD32	550 V a.c.	32	710	3000	2.9	55	44.5	34.6	11.2	13.8	0.80	14	gG	15g	
NITD20M25	550 V a.c.	20M25	575	2300	1.6	55	44.5	35.6	11.1	13.8	1.20	18.5	gM	15g	
NITD20M32	550 V a.c.	20M32	720	3000	1.1	55	44.5	35.6	11.1	13.8	1.20	18.5	gM	15g	
NITD32M40	415 V a.c.	32M40	1500	6000	1.9	55	44.5	35.6	11.1	17.5	1.20	18.5	gM	25g	
NITD32M50	415 V a.c.	32M50	2700	8600	1.4	55	44.5	35.6	11.1	17.5	1.20	18.5	gM	25g	
NITD32M63	415 V a.c.	32M63	5000	13,400	1	55	44.5	35.6	11.1	17.5	1.20	18.5	gM	25g	

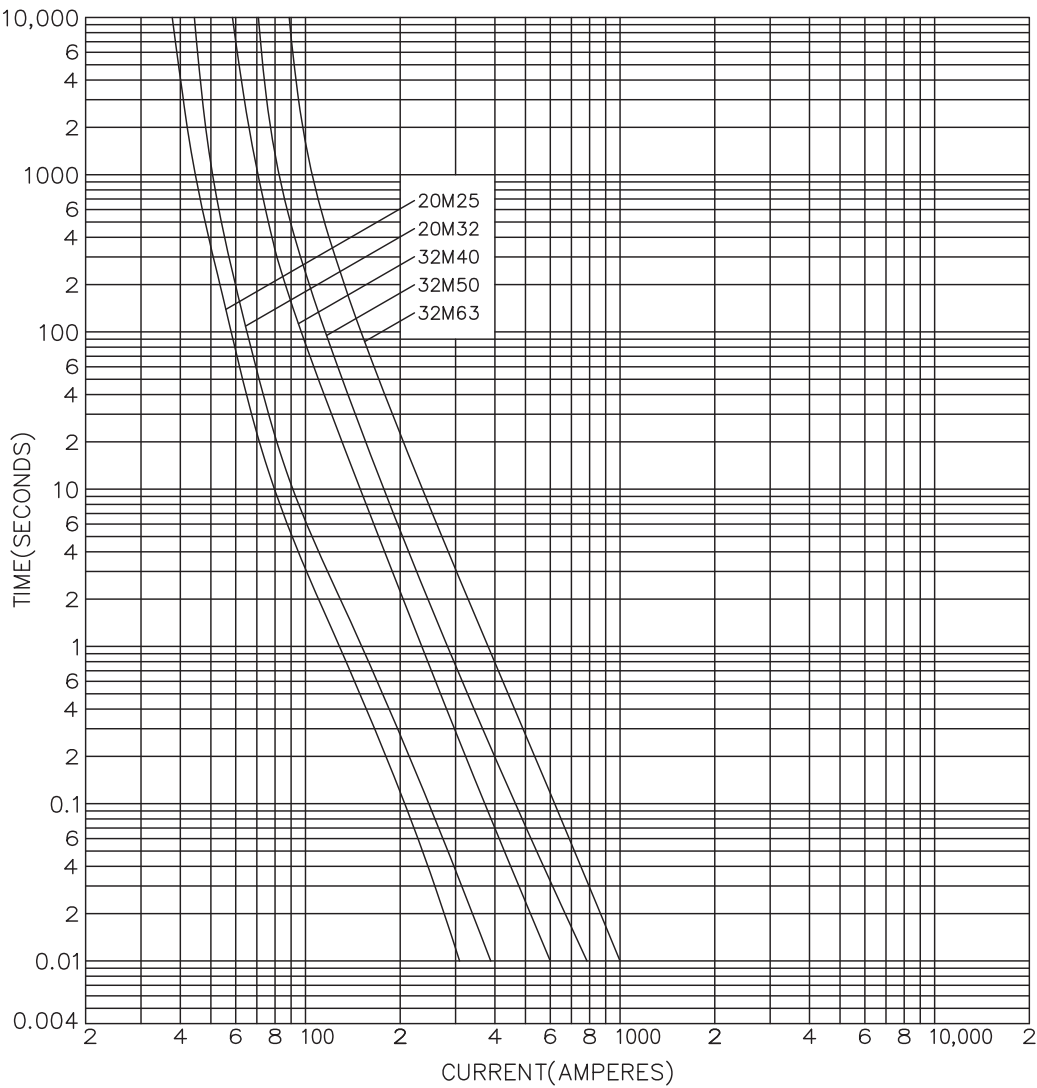
Outline drawing



Time current curve, NITD gG, 2 to 32 A only



Time current curve, NITD aM



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NSD BS88 Offset blade tags fuse links



Product description

Eaton's Bussmann® series NSD British Standard F1 fuse links are specifically designed for the protection of general industrial applications e.g. power distribution and cable protection.

Standard features

- Good peak let-through current limitation
- 1:1:6 Selective coordination ratio between "minor" and "major" fuse
- Power loss values well within the limits of IEC 60269-2

Catalogue symbol:

- NSD(Amps)

Technical data:

- Rated voltage: 550 V a.c. (gG) / 415 V a.c. (gM)
- Rated current: 2 to 32 A
- Breaking capacity: 80 kA
- Breaking range and utilisation category: gG and gM
- Size: F1

Standards/Approvals:

- BS88-2
- IEC 60269-2
- Suitable for use in RoHS compliant applications

Fuse holders (ordered separately)

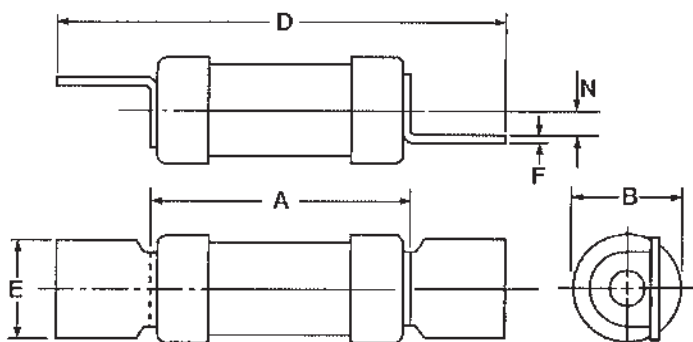
- Sefeloc 32NNS range
- Safeclip SC32 range

Packaging:

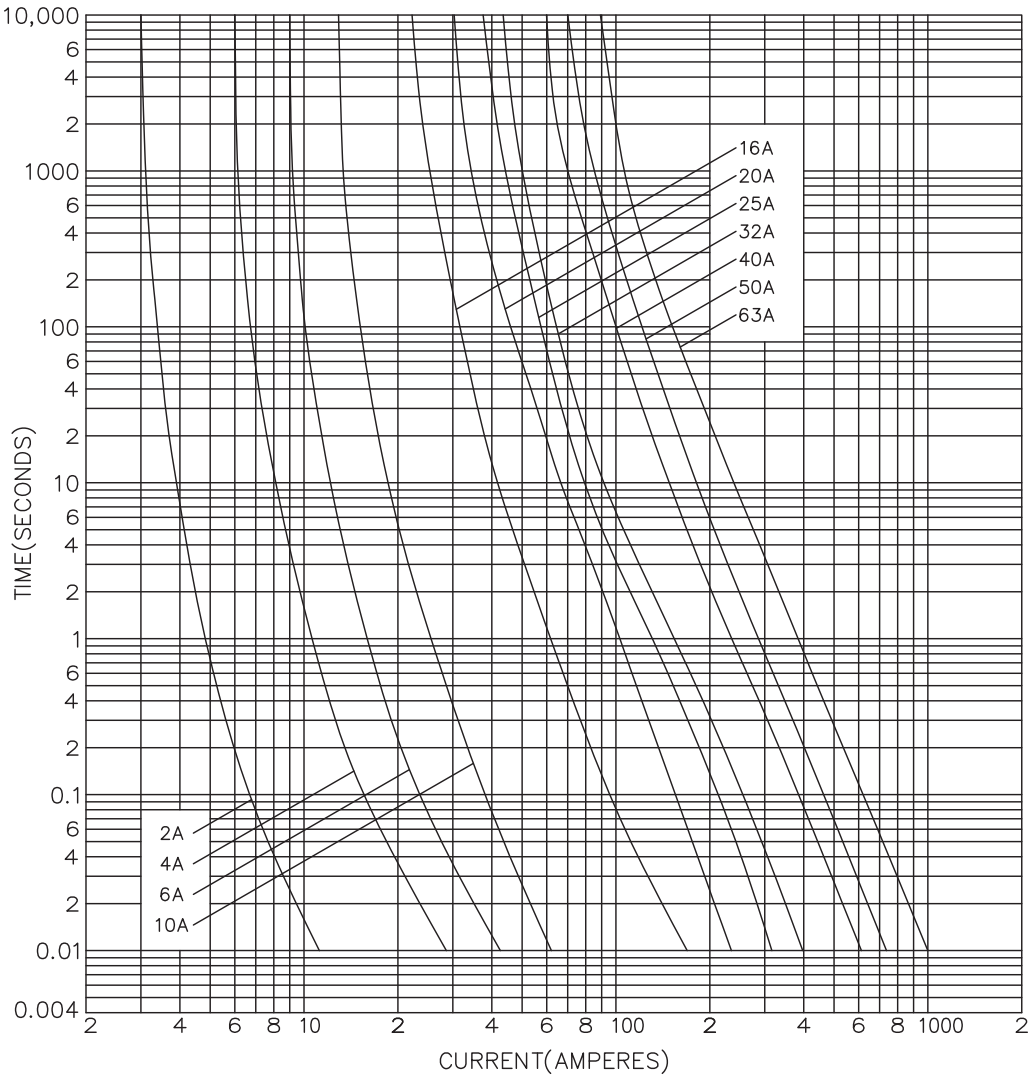
- MOQ 20

Table 1. Technical data

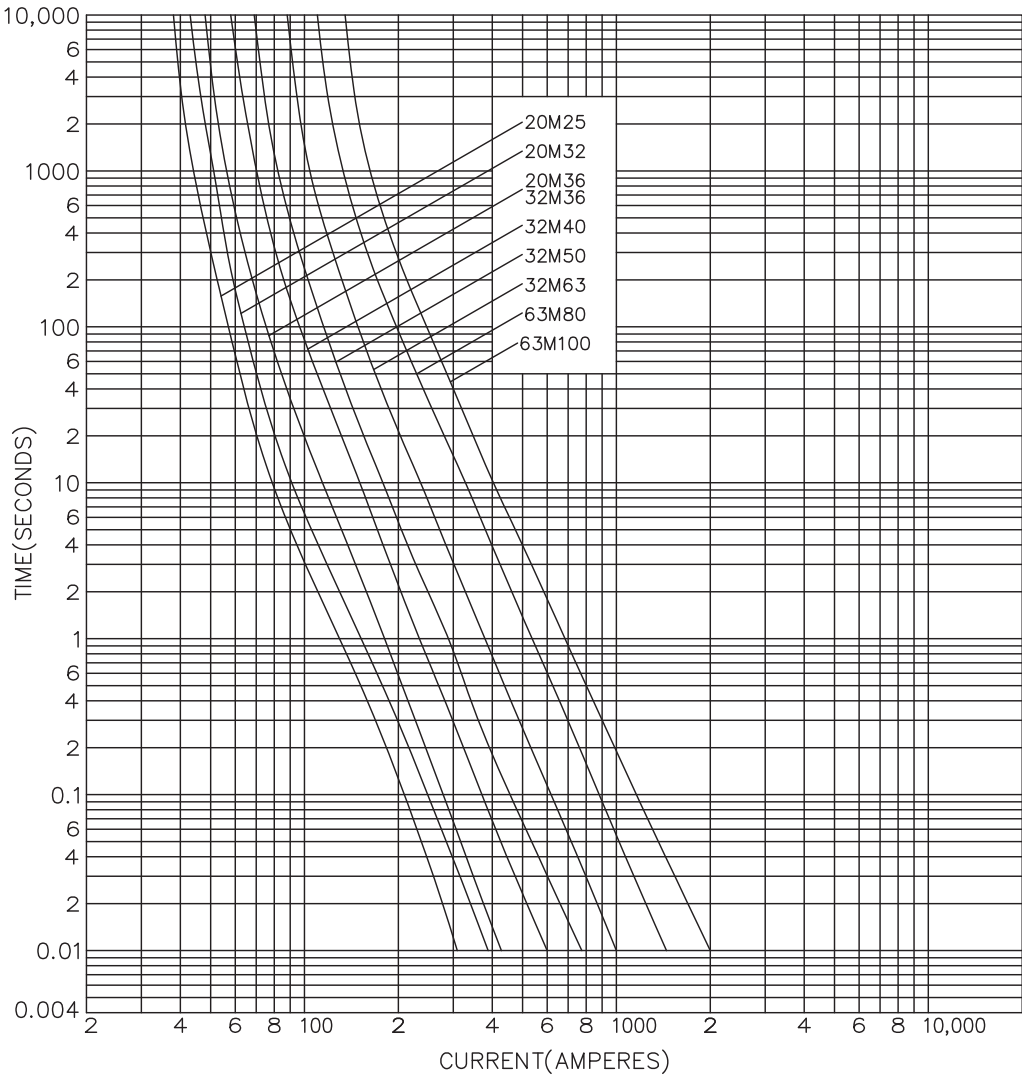
Part number	Rated voltage	Rated current (Amps)	Energy integrals I ² t (A ² S)		Watts loss	Dimensions (mm)						Product class	Weight
			Pre-arcing	Total at 415 V a.c.		W	A	B	D	E	F	N	
NSD2	550 V a.c.	2	1.3	4.6	0.9	34.5	13.8	59.5	12.7	0.8	3.5	gG	15g
NSD4	550 V a.c.	4	8	27	1.4	34.5	13.8	59.5	12.7	0.8	3.5	gG	15g
NSD6	550 V a.c.	6	29	100	1.8	34.5	13.8	59.5	12.7	0.8	3.5	gG	15g
NSD10	550 V a.c.	10	120	400	2.1	34.5	13.8	59.5	12.7	0.8	3.5	gG	15g
NSD16	550 V a.c.	16	120	470	1.8	34.5	13.8	59.5	12.7	0.8	3.5	gG	15g
NSD20	550 V a.c.	20	260	1070	1.8	34.5	13.8	59.5	12.7	0.8	3.5	gG	15g
NSD25	550 V a.c.	25	560	2300	2	34.5	13.8	59.5	12.7	0.8	3.5	gG	15g
NSD32	550 V a.c.	32	710	3000	2.9	34.5	13.8	59.5	12.7	0.8	3.5	gG	15g
NSD20M25	415 V a.c.	20M25	570	2350	1.2	34.5	13.8	59.5	12.7	0.8	3.5	gM	15g
NSD20M32	415 V a.c.	20M32	770	3000	0.95	34.5	13.8	59.5	12.7	0.8	3.5	gM	15g
NSD20M36	415 V a.c.	20M36	1150	5000	0.88	34.5	17.4	58.2	12.7	0.8	3.5	gM	25g
NSD32M36	415 V a.c.	32M36	1150	5000	2.4	34.5	17.4	58.2	12.7	0.8	3.5	gM	25g
NSD32M40	415 V a.c.	32M40	1500	6000	1.9	34.5	17.4	58.2	12.7	0.8	3.5	gM	25g
NSD32M50	415 V a.c.	32M50	2700	8700	1.4	34.5	17.4	58.2	12.7	0.8	3.5	gM	25g
NSD32M63	415 V a.c.	32M63	5000	13550	1	34.5	17.4	58.2	12.7	0.8	3.5	gM	25g

Outline drawing


Time current curve - NSD gG, 2 to 32 A only



Time current curve - NSD gM, 20M25 to 32M63 only



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