Bussmann series 690 Volts gG/gL NH Fuse links



Product description

Eaton's Bussmann series 690 V a.c. 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)

Powering Business Worldwide

Catalogue symbol:

- (amp)NHG(size)B-690 with conducting metal gripping lugs

Fuse size:

- 000 to 4*

Technical data:

- Volts: 690 V a.c.
- Amps: 2 to 800 A
- Breaking capacity: 120 kA AC
- Operating frequency: 45-62 Hz
- Class of operation: gG/gL

Standards/Approvals:

- IEC 60269
- VDE 0636
- DIN 43620

Microswitches:

- 170H0236
- BVL50

Packaging:

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

Fuse holders (ordered separately)

- Fuse bases 1 pole:
  - DIN-Rail mounting SD(size)-D
  - Screw mounting SD(size)-S
- Fuse bases 3 pole
  - DIN-Rail mounting TD(size)-D

Size - mm

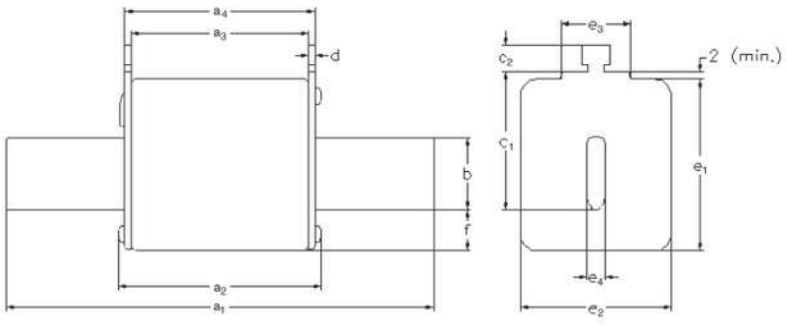


Table 1. NH Sizes

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
1	135±2.5	75	62±2.5	68±2.5	20	40	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
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

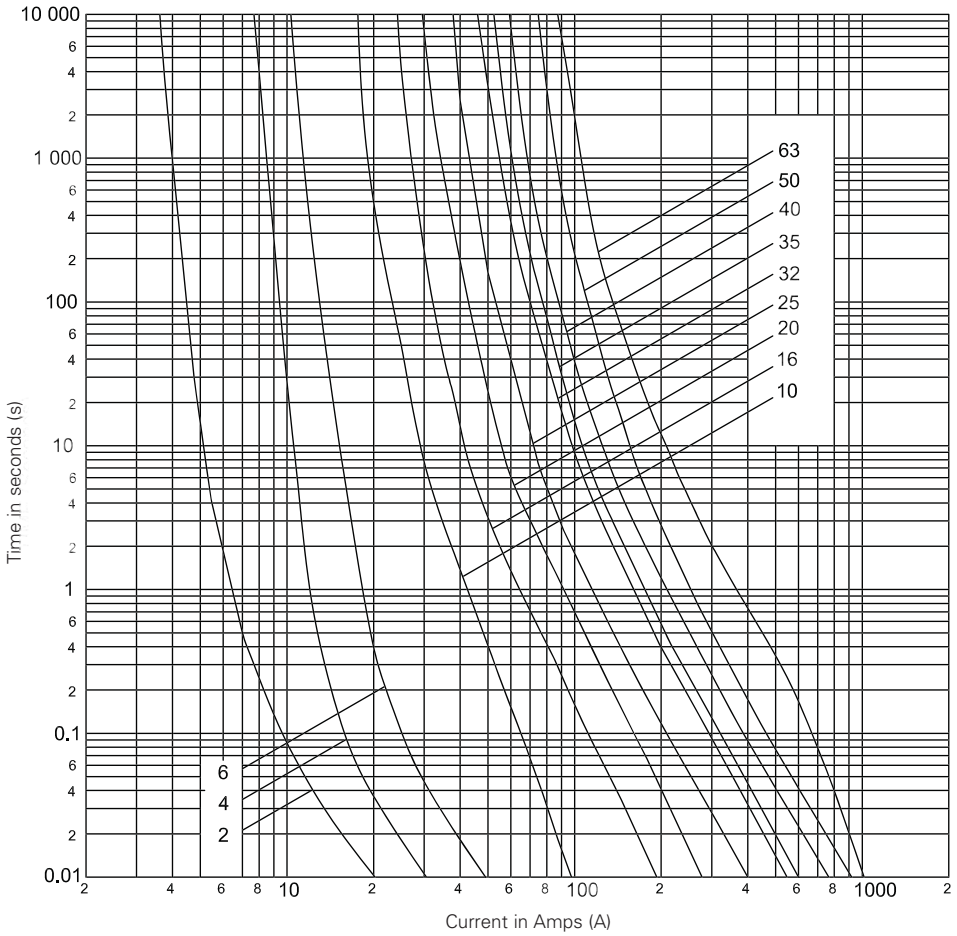
* Single indication slotted tags

Table 2. Part numbers

Size	Rated current (Amps)	Rated voltage (V a.c.)	gG/gL dual indicator Voltage conducting metal gripping lugs	Pack quantity
000	2	690	2NHG000B-690	3
	4		4NHG000B-690	
	6		6NHG000B-690	
	10		10NHG000B-690	
	16		16NHG000B-690	
	20		20NHG000B-690	
	25		25NHG000B-690	
	32		32NHG000B-690	
	35		35NHG000B-690	
	40		40NHG000B-690	
	50		50NHG000B-690	
	63		63NHG000B-690	
00	50		50NHG00B-690	
	63		63NHG00B-690	
	80		80NHG00B-690	
	100		100NHG00B-690	
	125		125NHG00B-690	
	160	660	160NHG00B-660	
1	50	690	50NHG1B-690	
	63		63NHG1B-690	
	80		80NHG1B-690	
	100		100NHG1B-690	
	125		125NHG1B-690	
	160		160NHG1B-690	
	200		200NHG1B-690	
	224		224NHG1B-690	
	250		250NHG1B-690	
2	200		200NHG2B-690	
	224		224NHG2B-690	
	250		250NHG2B-690	
	315		315NHG2B-690	
3	250		250NHG3B-690	
	315		315NHG3B-690	
	355		355NHG3B-690	
	400		400NHG3B-690	
	425		425NHG3B-690	
	500		500NHG3B-690	
4	630		630NHG4B-690	1
	800		800NHG4B-690	

* Available upon request

Time-current curves - NH Size 000

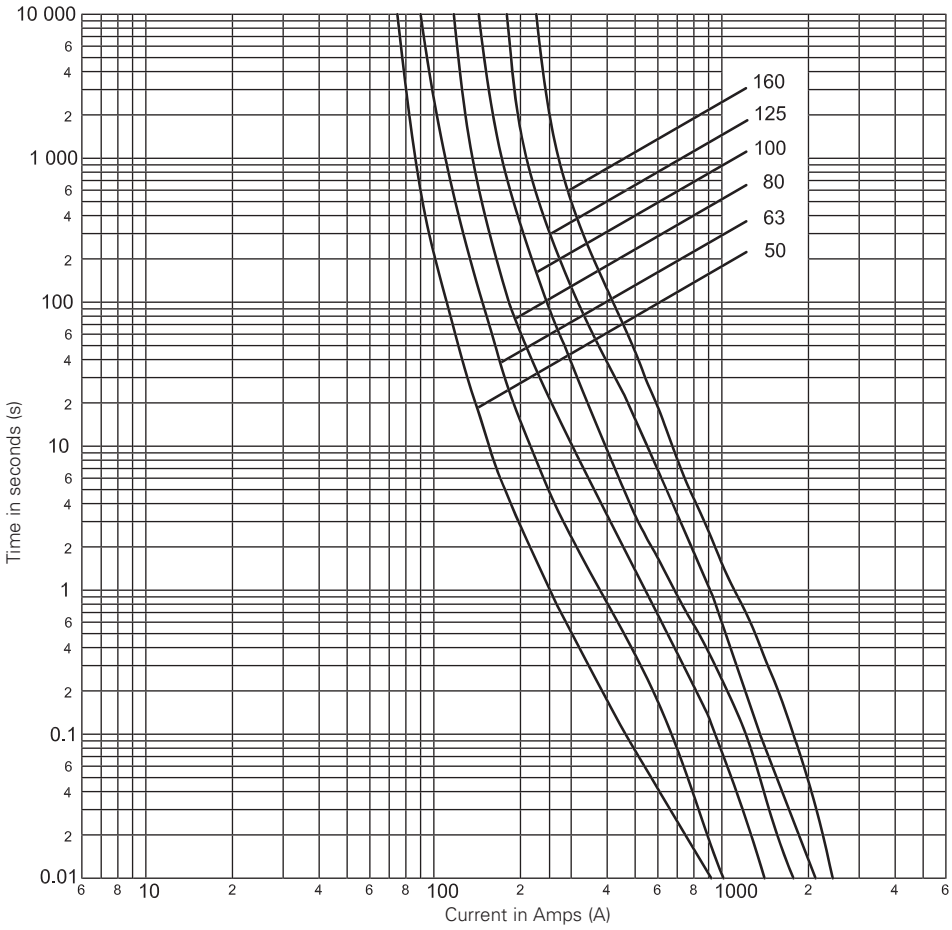


Technical data - NH size 000

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I^2t (Amps² Seconds) Minimum pre-arcing	I^2t (Amps² Seconds) *I_1 120kA at 690 V a.c.	Watts loss	Net weight per fuse (kg)
2NHG000B-690	000	2	690	3.5	8	4	0.118
4NHG000B-690		4		6	16	2	
6NHG000B-690		6		14	25	2	
10NHG000B-690		10		60	400	1.5	
16NHG000B-690		16		240	1200	2.5	
20NHG000B-690		20		500	2500	2.5	
25NHG000B-690		25		920	4400	3.5	
32NHG000B-690		32		1800	9600	3.5	
35NHG000B-690		35		2800	15,000	4	
40NHG000B-690		40		3300	15,000	4	
50NHG000B-690		50		6100	26,500	5.5	
63NHG000B-690		63		6500	30,500	5.5	

*I_1 is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 00

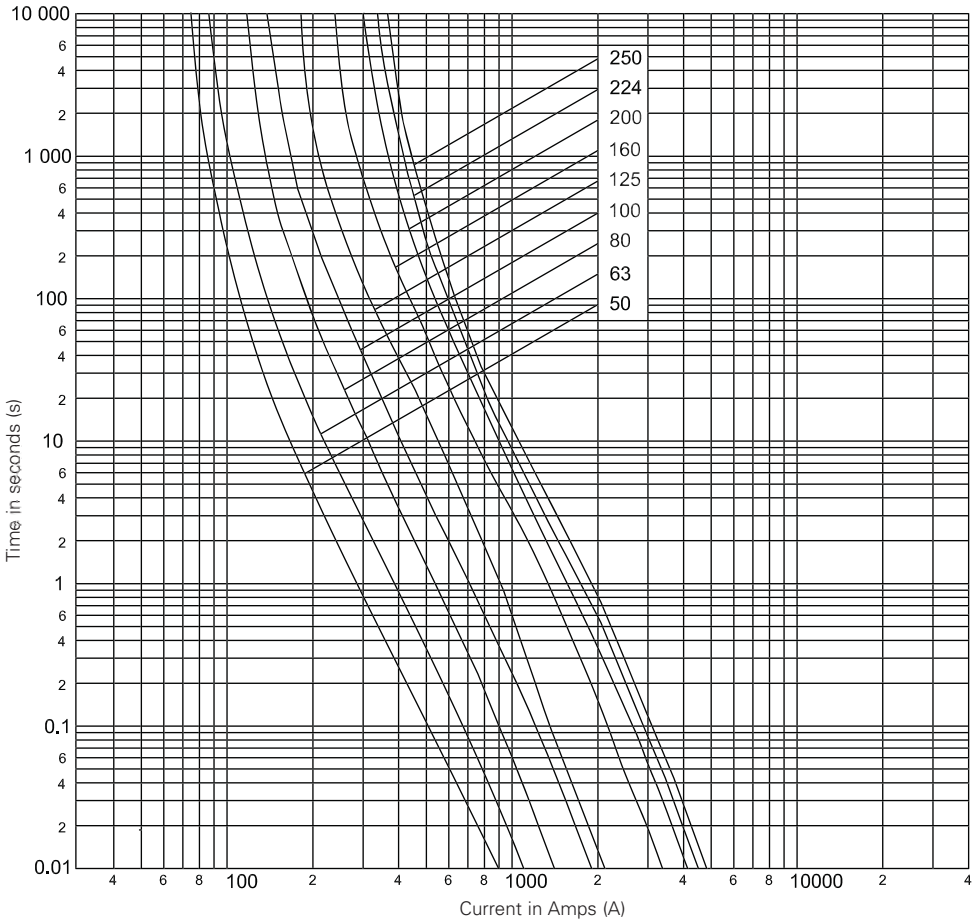


Technical data - NH size 00

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I²t (Amps² Seconds) Minimum pre-arcing	I²t (Amps² Seconds) *I_1 120kA at 690 V a.c.	Watts loss	Net weight per fuse (kg)
50NHG00B-690	00	50	690	5800	35,000	5	0.182
63NHG00B-690		63		5800	43,000	5	
80NHG00B-690		80		11,000	54,500	7	
100NHG00B-690		100		19,000	92,000	7.5	
125NHG00B-690		125		27,500	105,000	9.5	
160NHG00B-660		160	660	40,500	135,000	13	

*I_1 is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 1

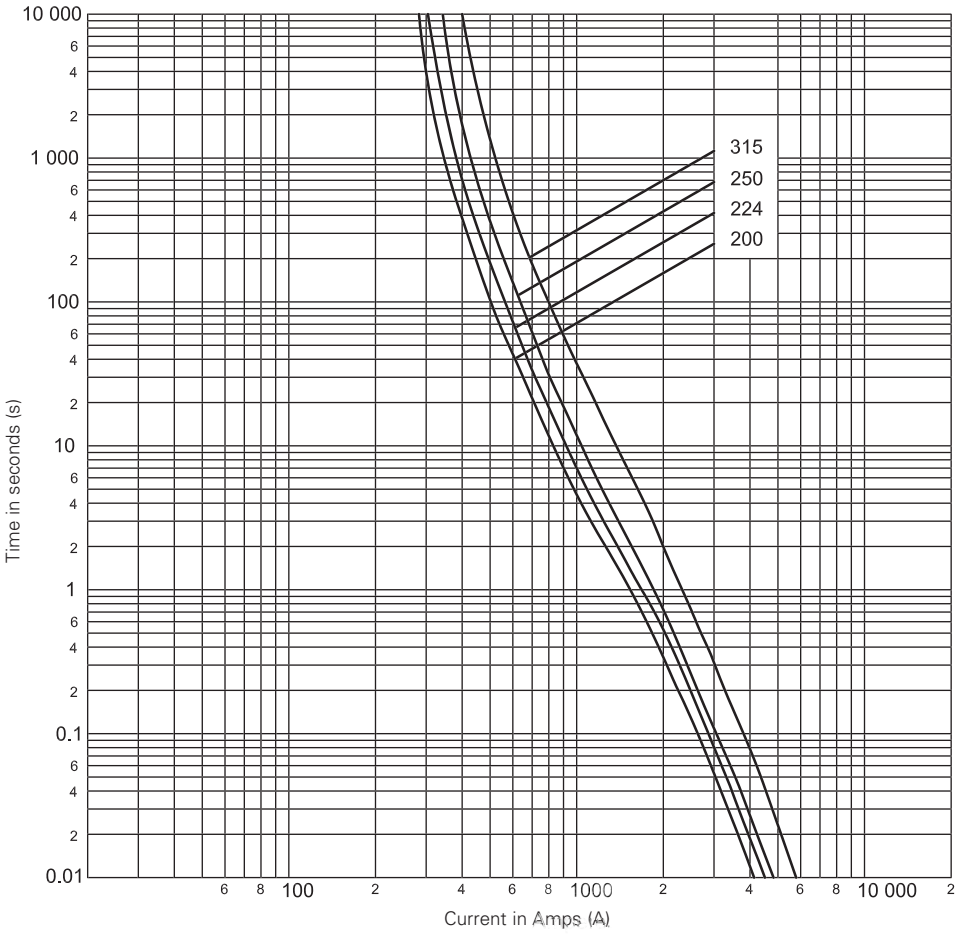


Technical data - NH size 1

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I²t (Amps² Seconds) Minimum pre-arcing	I²t (Amps² Seconds) *I_1 120kA at 690 V a.c.	Watts loss	Net weight per fuse (kg)
50NHG1B-690	1	50	690	6350	26,500	6.4	0.38
63NHG1B-690		63		6800	36,000	5.6	
80NHG1B-690		80		10,500	47,500	7.7	
100NHG1B-690		100		22,000	105,000	8.2	
125NHG1B-690		125		29,000	120,000	13	
160NHG1B-690		160		71,000	240,000	13	
200NHG1B-690		200		105,000	350,000	17	
224NHG1B-690		224		120,000	430,000	19	
250NHG1B-690		250		150,000	520,000	22	

*I_1 is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 2

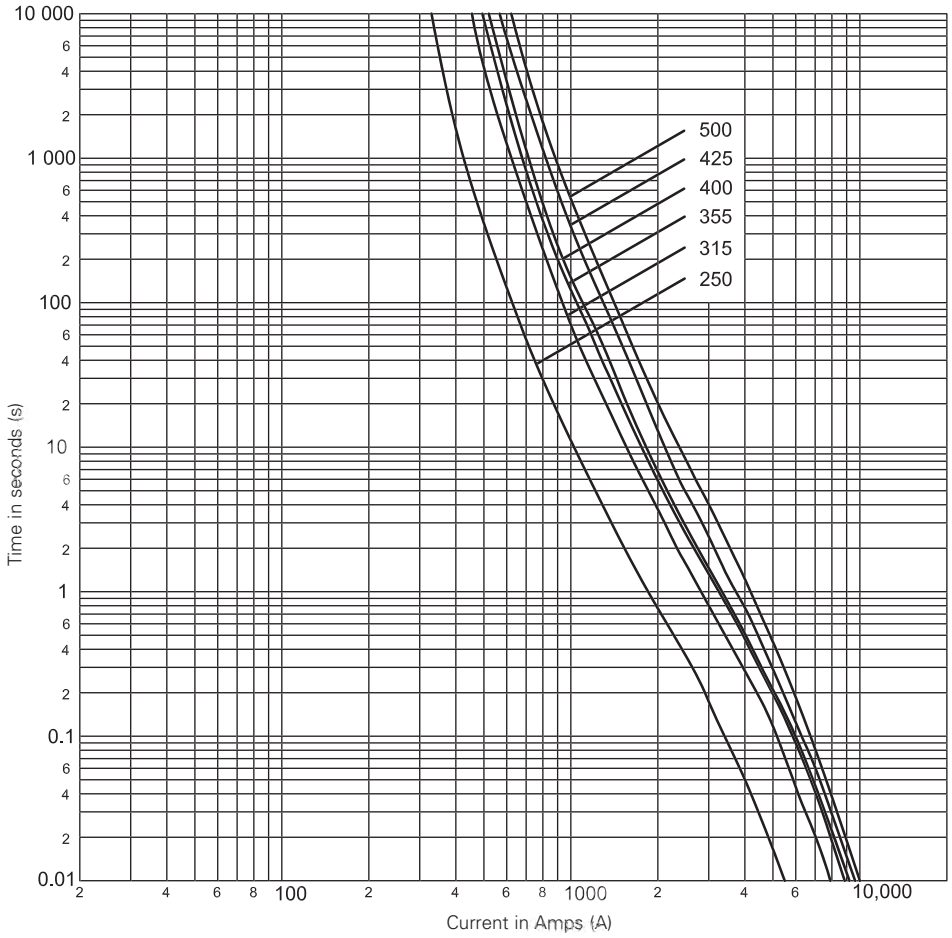


Technical data - NH size 2

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I^2t (Amps² Seconds) Minimum pre-arcing	$*I_1$ 120kA at 690 V a.c.	Watts loss	Net weight per fuse (kg)
200NHG2B-690	2	200	690	99,000	385,000	18	0.62
224NHG2B-690		224		130,000	485,000	20	
250NHG2B-690		250		170,000	625,000	23	
315NHG2B-690		315		295,000	760,000	32	

$*I_1$ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 3

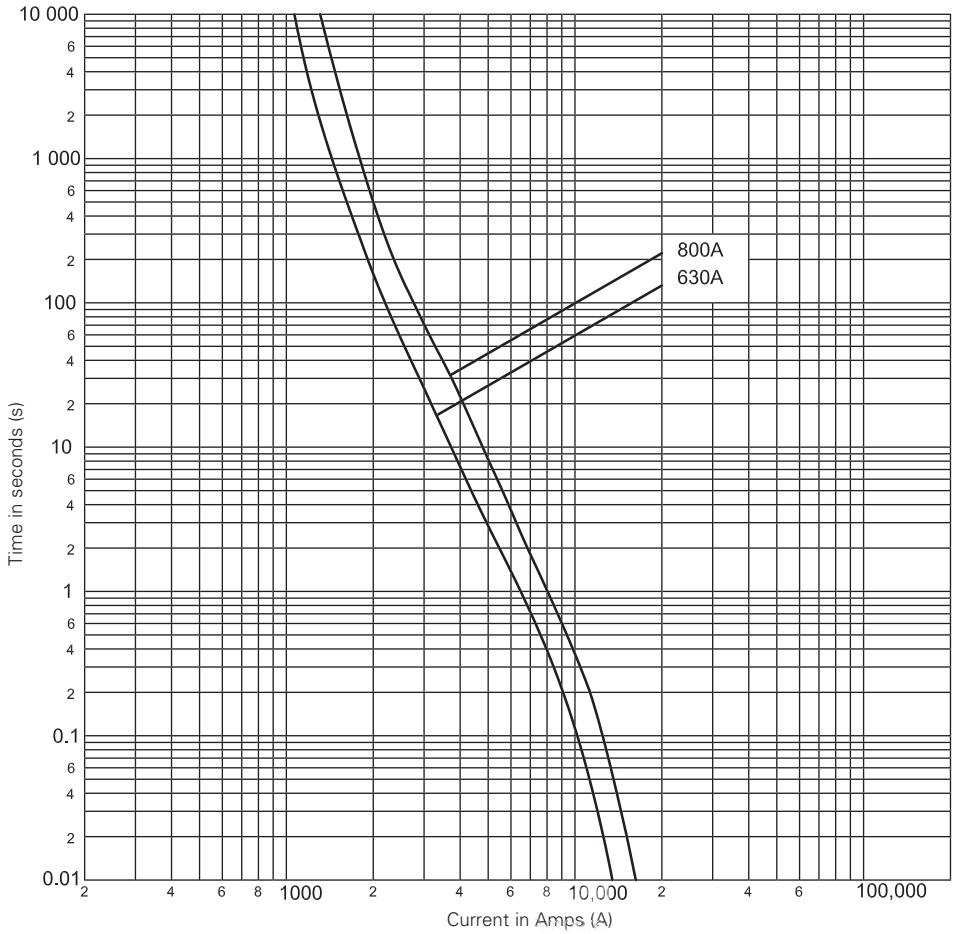


Technical data - NH size 3

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I^2t (Amps² Seconds) Minimum pre-arcing	$*I_1$ 120kA at 690 V a.c.	Watts loss	Net weight per fuse (kg)
250NHG3B-690	3	250	690	160,000	715,000	21	0.38
315NHG3B-690		315		375,000	1,400,000	22	
355NHG3B-690		355		400,000	1,650,000	25	
400NHG3B-690		400		475,000	1,600,000	37	
425NHG3B-690		425		630,000	1,700,000	35	
500NHG3B-690		500		856,000	2,480,000	43	

$*I_1$ is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

Time-current curves - NH Size 4 Single indication slotted tags



Technical data - NH size 4

Part numbers with metal gripping lugs	Fuse link size	Rated current (Amps)	Rated voltage (V a.c.)	I^2t (Amps² Seconds) Minimum pre-arcing	I^2t (Amps² Seconds) *I_1 120kA at 690 V a.c.	Watts loss	Net weight per fuse (kg)
630NHG4B-690	4	630	690	1,730,000	6,550,000	44	2.5
800NHG4B-690		800		3,330,000	11,000,000	61	

*I_1 is the maximum breaking capacity test at rated voltage according to IEC 60269 requirements

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Publication No. 720109
September 2015

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