

## Description

A square bodied range of industrial fuse links for a wide variety of applications.

## Catalogue numbers structure

- (amp)NHG(size)B-690 e.g. 2NHG000B-690.

## Class of operation

- gL/gG.

## Standards / approvals

- IEC 60269-1 and 2, DIN 43620 Part 1 and 3.

## Technical data

- Sizes 000 to 4
- Voltage: 690 V a.c.
- Current: 2 to 800 A
- Rated breaking capacity: 120 kA
- Operating frequency: 45-62Hz.

1.5

## Optional microswitch

NH Fuse body size	Suitable microswitch
Size 000	170H0236
Size 00	170H0236
Size 1	170H0236
Size 2	170H0235 or 170H0236
Size 3	170H0235
Size 4	Not available

## Compatible fuse holders

Description	Type	Data sheet number
Fuse bases 1-pole	DIN-Rail mounting SD-D	10163
	Screw mounting SD-S	10163
Fuse bases 3-pole	DIN-Rail mounting TD-D	10163
Fuse bases accessories	IP20, Shroud and phase barriers kits	10163
Fuse rails	Vertical - EBF	10240
Fuse switch disconnectors	Vertical - EBV	10275
	Horizontal - EBH Size 000	10292
	Horizontal - EBH Size 00 to 4	10293



## Environmental

- Recyclable
- RoHS compliant
- Lead and cadmium free for sizes 000 to 4 (2 to 1250A).

## Packaging

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

## Features:

- Reliable dual indicator system (size 4 single indication only)
- Low temperature rise
- Globally compliant
- UL on limited ratings.

# 1.5

## NH Fuse links - 690 V a.c. - class gG/gL

Catalogue numbers

### 1.5 Catalogue numbers

Size	Current (amps)	Voltage (V a.c.)	gG/gL Dual Indicator		Pack Quantity
			Voltage Conducting Metal Gripping Lugs	Insulated Metal Gripping Lugs	
000	2	690	2NHG000B-690	-	3
	4		4NHG000B-690	-	
	6		6NHG000B-690	-	
	10		10NHG000B-690	10NHG000BI-690	
	16		16NHG000B-690	16NHG000BI-690	
	20		20NHG000B-690	20NHG000BI-690	
	25		25NHG000B-690	25NHG000BI-690	
	32		32NHG000B-690	32NHG000BI-690	
	35		35NHG000B-690	35NHG000BI-690	
	40		40NHG000B-690	40NHG000BI-690	
00	50	690	50NHG00B-690	50NHG00BI-690	3
	63		63NHG00B-690	63NHG00BI-690	
	80		80NHG00B-690	80NHG00BI-690	
	100		100NHG00B-690	100NHG00BI-690	
	125		125NHG00B-690	125NHG00BI-690	
	160		660	160NHG00B-660	
1	50	690	50NHG1B-690	50NHG1BI-690	3
	63		63NHG1B-690	63NHG1BI-690	
	80		80NHG1B-690	80NHG1BI-690	
	100		100NHG1B-690	100NHG1BI-690	
	125		125NHG1B-690	125NHG1BI-690	
	160		160NHG1B-690	160NHG1BI-690	
	200		200NHG1B-690	200NHG1BI-690	
	224		224NHG1B-690	224NHG1BI-690	
2	250	690	250NHG2B-690	250NHG2BI-690	3
	224		224NHG2B-690	224NHG2BI-690	
	250		250NHG2B-690	250NHG2BI-690	
	315		315NHG2B-690	315NHG2BI-690	
3	250	690	250NHG3B-690	-	3
	315		315NHG3B-690	-	
	355		355NHG3B-690	-	
	400		400NHG3B-690	-	
	425		425NHG3B-690	-	
	500		500NHG3B-690	-	
4*	630	690	630NHG4B-690	-	1
	800		800NHG4B-690	-	

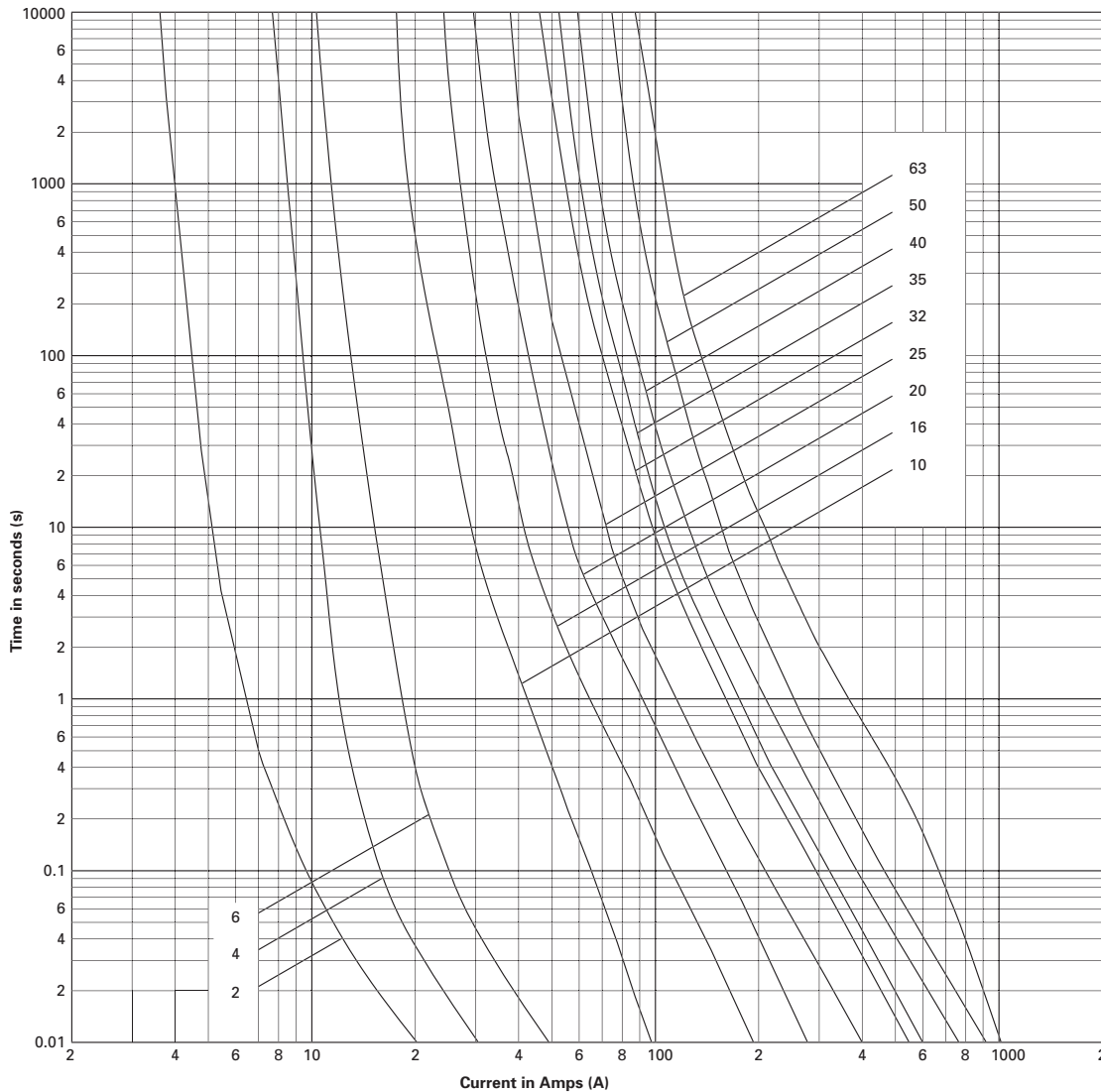
\* Size 4 is a fuse link with single indication fuse link with slotted end tags

Please consult us should you wish to order 500 Volts size 4 buletechnical@eaton.com or 00 44 (0) 1509 882 699



## 690 V a.c. - class gG/gL - 2 to 63 amps - size 000

### Time-current characteristics



### Technical data

Catalogue numbers with metal gripping lugs	Catalogue numbers with insulated metal gripping lugs	Fuse link size	Current (amps)	Voltage (V a.c.)	I <sup>2</sup> t (Amps <sup>2</sup> seconds)		Watts loss (W)	Net weight per fuse (kg)
					Minimum Pre-arcing	*I <sub>1</sub> 120 kA at 690 V a.c.		
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	10NHG000BI-690		10		60	400	1.5	
16NHG000B-690	16NHG000BI-690		16		240	1200	2.5	
20NHG000B-690	20NHG000BI-690		20		500	2500	2.5	
25NHG000B-690	25NHG000BI-690		25		920	4400	3.5	
32NHG000B-690	32NHG000BI-690		32		1800	9600	3.5	
35NHG000B-690	35NHG000BI-690		35		2800	15,000	4	
40NHG000B-690	40NHG000BI-690		40		3300	15,000	4	
50NHG000B-690	50NHG000BI-690		50		6100	26,500	5.5	
63NHG000B-690	63NHG000BI-690		63		6500	30,500	5.5	

\* I<sub>1</sub> is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

# 1.5

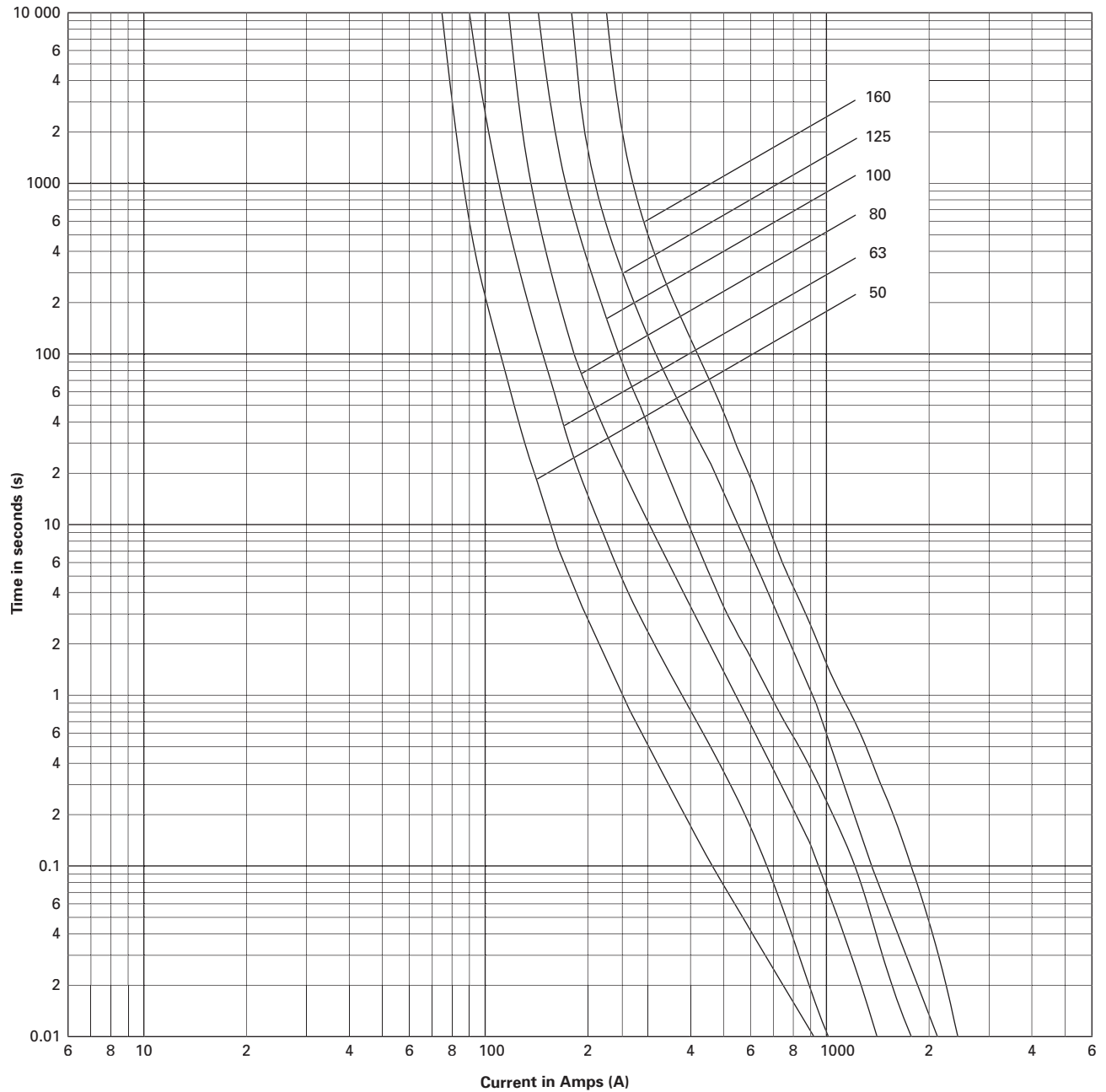
## NH Fuse links - 690 V a.c. - class gG/gL

Time-current characteristics and technical data

### 1.5

### 690 V a.c. - class gG/gL - 50 to 160 amps - size 00

#### Time-current characteristics



#### Technical data

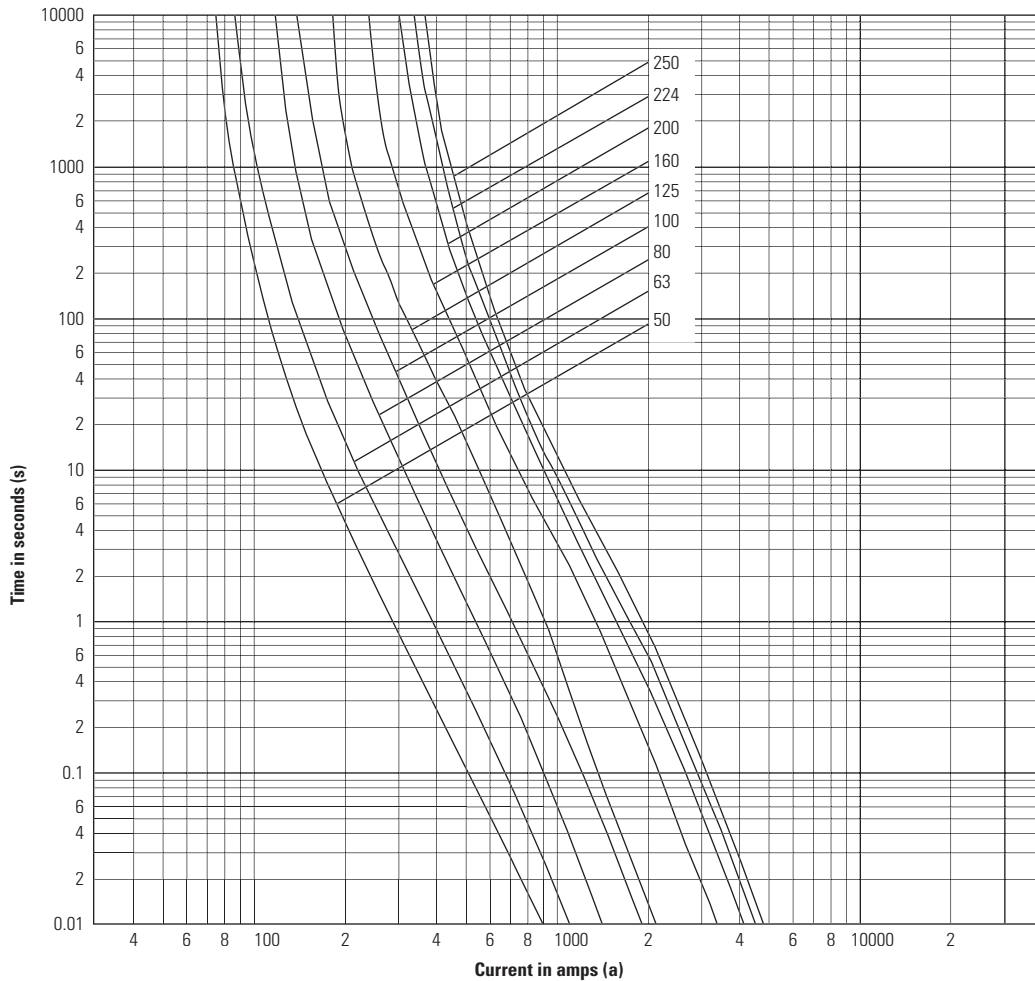
Catalogue numbers with metal gripping lugs	Catalogue numbers with insulated metal gripping lugs	Fuse link size	Current (amps)	Voltage (V a.c.)	I <sup>2</sup> t (Amps <sup>2</sup> seconds)			Net weight per fuse (kg)
					Minimum Pre-arcing	*I <sub>1</sub> , 120 kA at 690 V a.c.	Watts loss (W)	
50NHG00B-690	50NHG00BI-690	00	50	690	5800	35,000	5	0.182
63NHG00B-690	63NHG00BI-690		63		5800	43,000	5	
80NHG00B-690	80NHG00BI-690		80		11,000	54,500	7	
100NHG00B-690	100NHG00BI-690		100		19,000	92,000	7.5	
125NHG00B-690	125NHG00BI-690		125		27,500	105,000	9.5	
160NHG00B-660	-	00	160	660	40,500	135,000	13	0.182

\* I<sub>1</sub> is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

## 690 V a.c. - class gG/gL - 50 to 250 amps - size 1

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### Time-current characteristics



### Technical data

Catalogue numbers with metal gripping lugs	Catalogue numbers with insulated metal gripping lugs	Fuse link size	Current (amps)	Voltage (V a.c.)	I <sup>2</sup> t (Amps <sup>2</sup> seconds)		Watts loss (W)	Net weight per fuse (kg)
					Minimum Pre-arcing	*I <sub>1</sub> , 120 kA at 690 V a.c.		
50NHG1B-690	50NHG1BI-690	1	50	690	6350	26,500	6.4	0.380
63NHG1B-690	63NHG1BI-690		63		6800	36,000	5.6	
80NHG1B-690	80NHG1BI-690		80		10,500	47,500	7.7	
100NHG1B-690	100NHG1BI-690		100		22,000	105,000	8.2	
125NHG1B-690	125NHG1BI-690		125		29,000	120,000	13	
160NHG1B-690	160NHG1BI-690		160		71,000	240,000	13	
200NHG1B-690	200NHG1BI-690		200		105,000	350,000	17	
224NHG1B-690	224NHG1BI-690		224		120,000	430,000	19	
250NHG1B-690	250NHG1BI-690		250		150,000	520,000	22	

\* I<sub>1</sub> is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

# 1.5

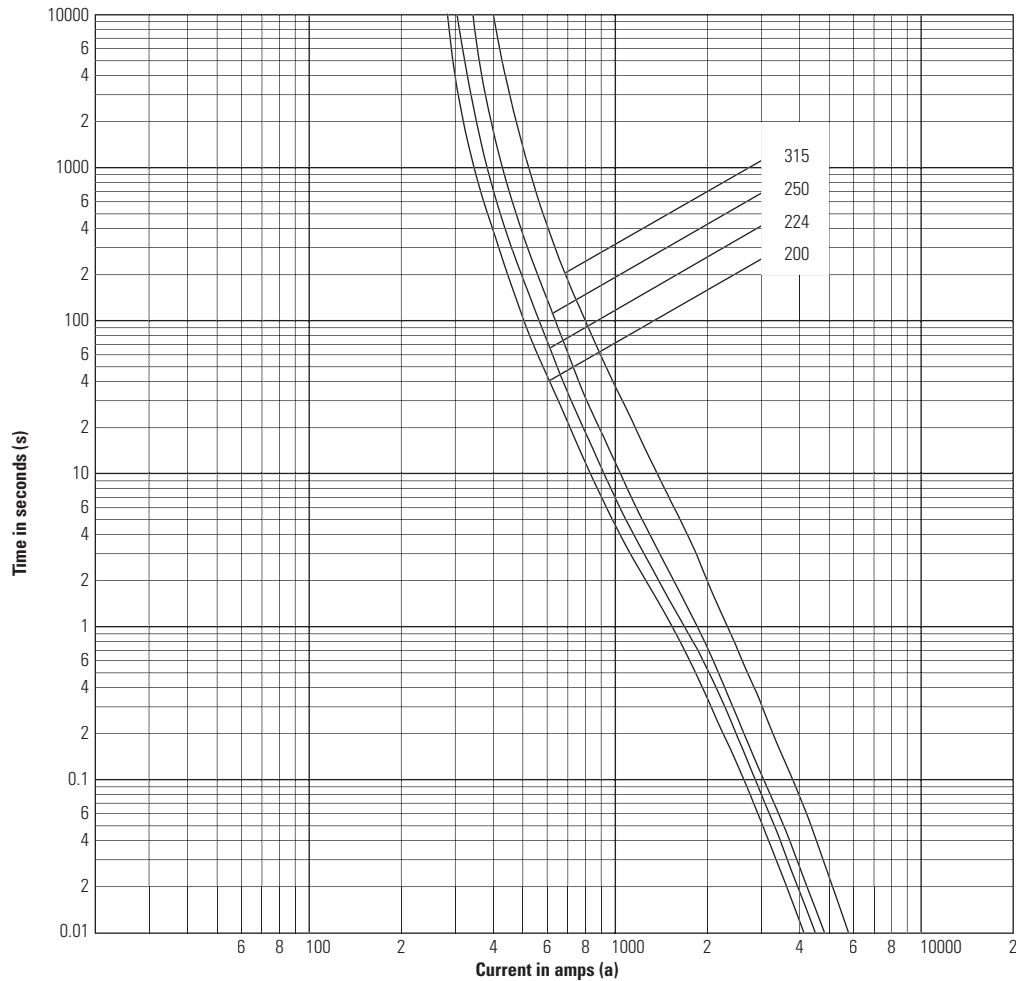
## NH Fuse links - 690 V a.c. - class gG/gL

Time-current characteristics and technical data

### 1.5

#### 690 V a.c. - class gG/gL - 200 to 315 amps - size 2

##### Time-current characteristics



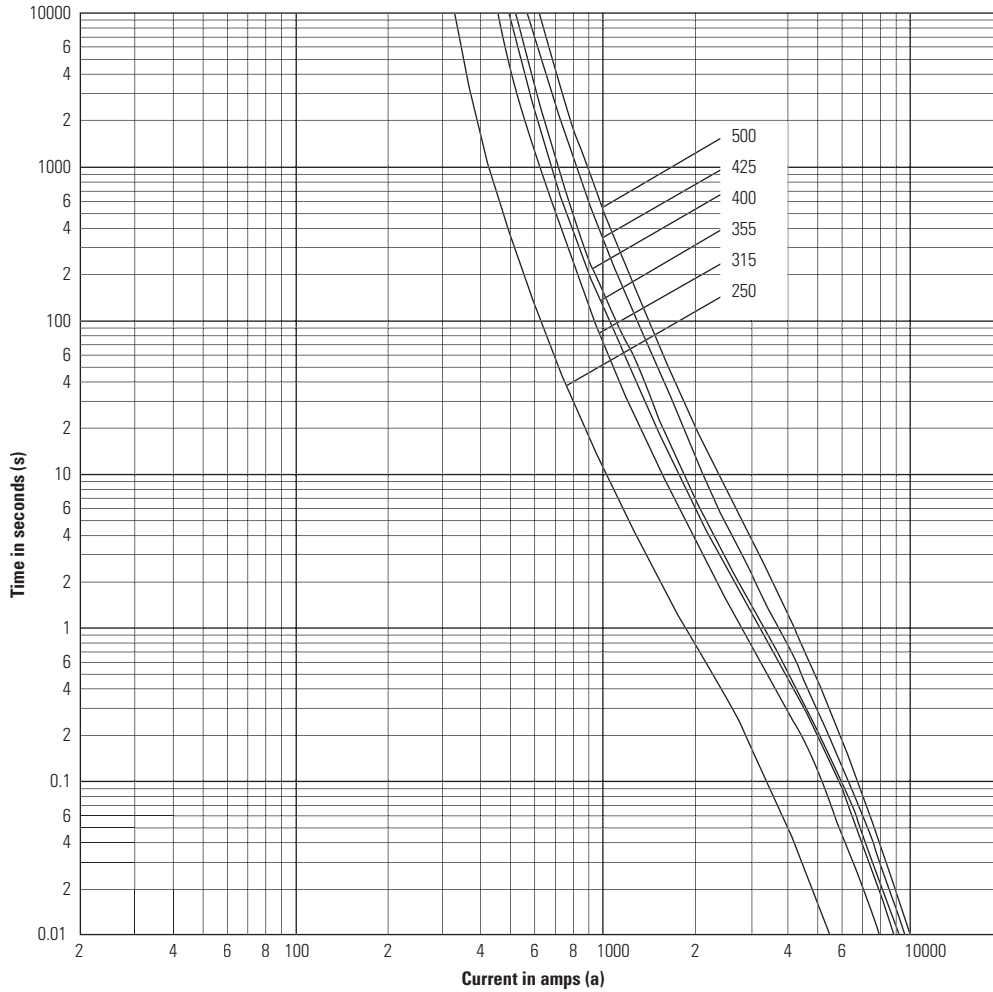
##### Technical data

Catalogue numbers with metal gripping lugs	Catalogue numbers with insulated metal gripping lugs	Fuse link size	Current (amps)	Voltage (V a.c.)	I <sup>2</sup> t (Amps <sup>2</sup> seconds)		Watts loss (W)	Net weight per fuse (kg)
					Minimum Pre-arcing	*I <sub>1</sub> 120 kA at 690 V a.c.		
200NHG2B-690	200NHG2BI-690	2	200	690	99,000	385,000	18	0.620
224NHG2B-690	224NHG2BI-690		224		130,000	485,000	20	
250NHG2B-690	250NHG2BI-690		250		170,000	625,000	23	
315NHG2B-690	315NHG2BI-690		315		295,000	760,000	32	

\* I<sub>1</sub> is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

## 690 V a.c. - class gG/gL - 250 to 500 amps - size 3

### Time-current characteristics



### Technical data

Catalogue numbers with metal gripping lugs	Fuse link size	Current (amps)	Voltage (V a.c.)	I <sup>2</sup> t (Amps <sup>2</sup> seconds)		Watts loss (W)	Net weight per fuse (kg)
				Minimum Pre-arcing	*I <sub>1</sub> 120 kA at 690 V a.c.		
250NHG3B-690	3	250	690	160,000	715,000	21	1.050
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<sub>1</sub> is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

# 1.5

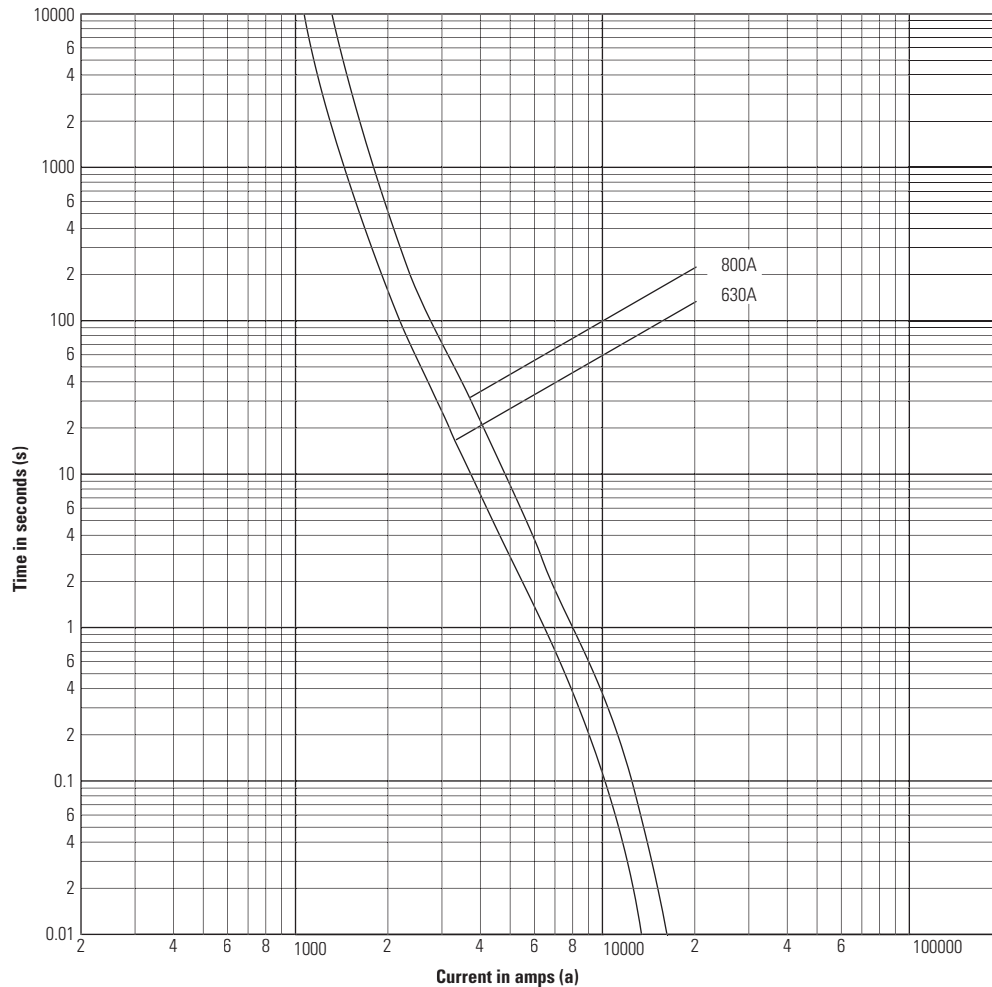
## NH Fuse links - 690 V a.c. - class gG/gL

Time-current characteristics and technical data

### 1.5

### 690 V a.c. - class gG/gL - 630 and 800 amps - size 4\*

#### Time-current characteristics



#### Technical data

Catalogue numbers with metal gripping lugs	Fuse link size	Current (amps)	Voltage (V a.c.)	I <sup>2</sup> t (Amps <sup>2</sup> seconds)		Watts loss (W)	Net weight per fuse (kg)
				Minimum Pre-arcing	*I <sub>1</sub> 120 kA at 690 V a.c.		
630NHG4B-690	4	630	690	1,730,000	6,550,000	44	2.500
800NHG4B-690		800		3,330,000	11,000,000	61	

\*Single indication fuse link with slotted end tags

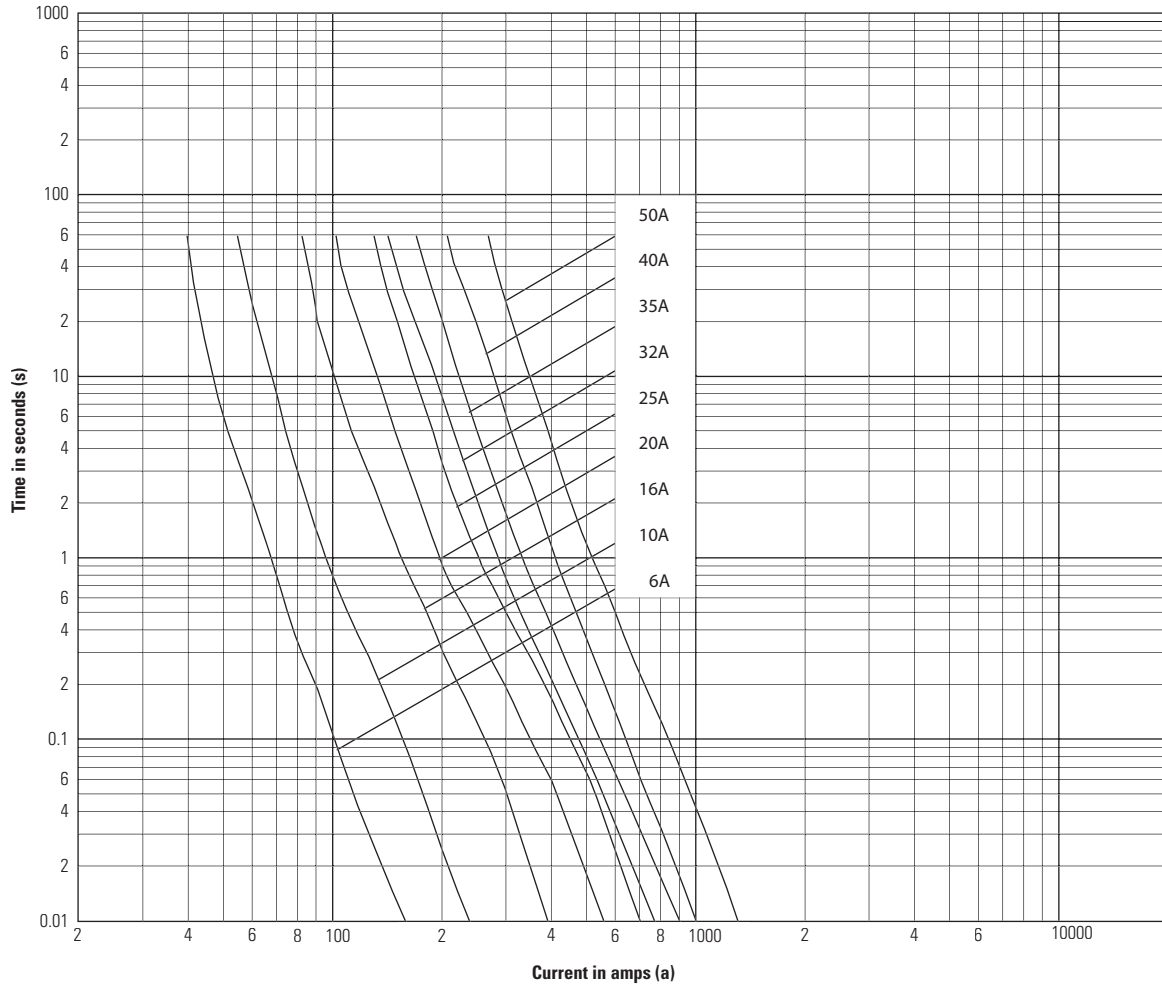
\*\* I<sub>1</sub> is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

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## 500 and 690 V a.c. - class aM - 6 to 50 amps - size 000

### Time-current characteristics



### Technical data

500 V a.c.		690 V a.c.		I <sup>2</sup> t (Amps <sup>2</sup> seconds)			
Catalogue numbers with metal gripping lugs	Catalogue numbers with metal gripping lugs	Fuse link size	Current (amps)	Minimum Pre-arcing	*I <sub>1</sub> 120 kA at 690 V a.c.	Watts loss (W)	Net weight per fuse (kg)
6NHM000B	6NM000B-690	000	6	48	650	0.3	0.118
10NHM000B	10NHM000B-690		10	200	1800	0.5	
16NHM000B	16NHM000B-690		16	500	4400	0.8	
20NHM000B	20NHM000B-690		20	1450	7250	0.9	
25NHM000B	25NHM000B-690		25	3500	13,500	1.1	
32NHM000B	32NHM000B-690		32	2200	7500	2.1	
35NHM000B	35NHM000B-690		35	3000	12,000	2.1	
40NHM000B	40NHM000B-690		40	4700	14,500	2.3	
50NHM000B	50NHM000B-690		50	11,000	27,000	2.7	

\* I<sub>1</sub> is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

# 1.6

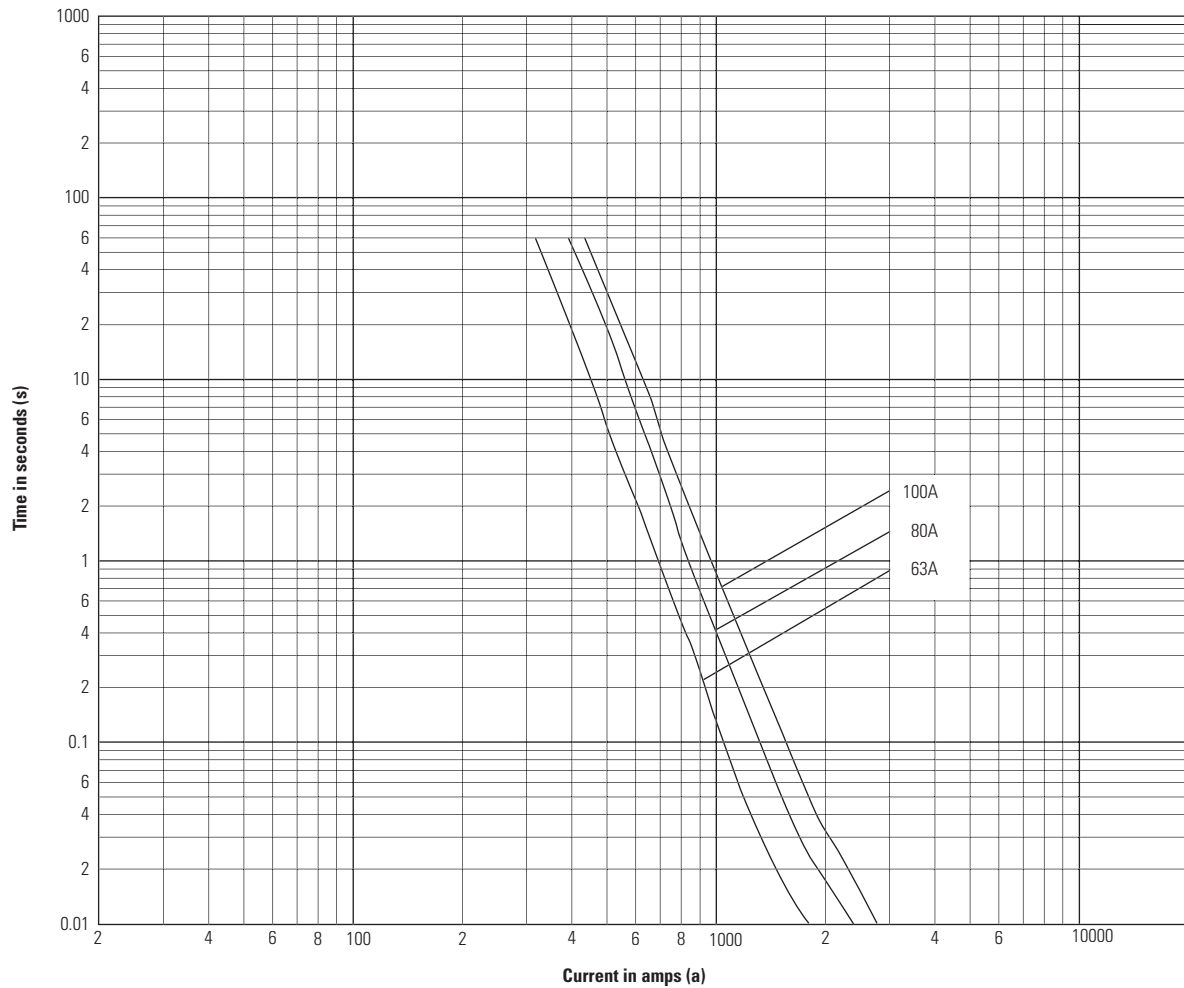
## NH Fuse links - 500 and 690 V a.c. - class aM

Time-current characteristics and technical data

### 1.6

#### 500 and 690 V a.c. - class aM - 63 to 100 amps - size 00

##### Time-current characteristics



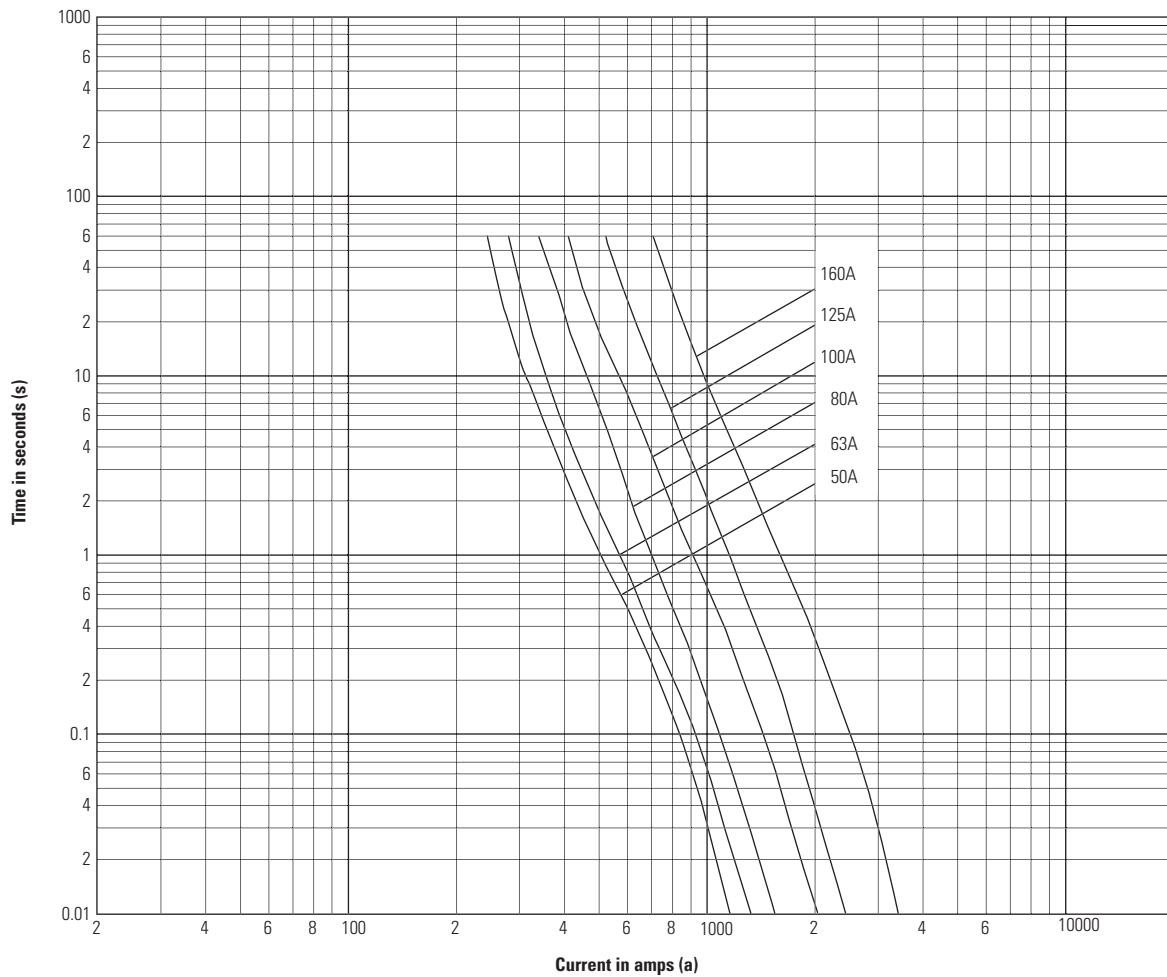
##### Technical data

500 V a.c.		690 V a.c.		$I^2t$ (Amps <sup>2</sup> seconds)			
Catalogue numbers with metal gripping lugs	Catalogue numbers with metal gripping lugs	Fuse link size	Current (amps)	Minimum Pre-arcing	* $I_b$ , 120 kA at 690 V a.c.	Watts loss (W)	Net weight per fuse (kg)
63NHM00B	63NHM00B-690	00	63	16,000	52,000	3.1	0.186
80NHM00B	80NHM00B-690		80	24,000	69,500	4.3	
100NHM00B	100NHM00B-690		100	35,000	110,000	5.5	

\*  $I_b$  is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

## 500 and 690 V a.c. - class aM - 50 to 160 amps - size 1

### Time-current characteristics



### Technical data

500 V a.c.		690 V a.c.		I <sup>2</sup> t (Amps <sup>2</sup> seconds)			
Catalogue numbers with metal gripping lugs	Catalogue numbers with metal gripping lugs	Fuse link size	Current (amps)	Minimum Pre-arcing	*I <sub>1</sub> 120 kA at 690 V a.c.	Watts loss (W)	Net weight per fuse (kg)
50NHM1B	50NHM1B-690	1	50	10,000	39,500	3	0.380
63NHM1B	63NHM1B-690		63	12,500	49,500	4.4	
80NHM1B	80NHM1B-690		80	19,500	77,500	5.6	
100NHM1B	100NHM1B-690		100	33,000	105,000	6.7	
125NHM1B	125NHM1B-690		125	49,500	170,000	8.8	
160NHM1B	160NHM1B-690		160	110,000	315,000	10.6	

\* I<sub>1</sub> is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

# 1.6

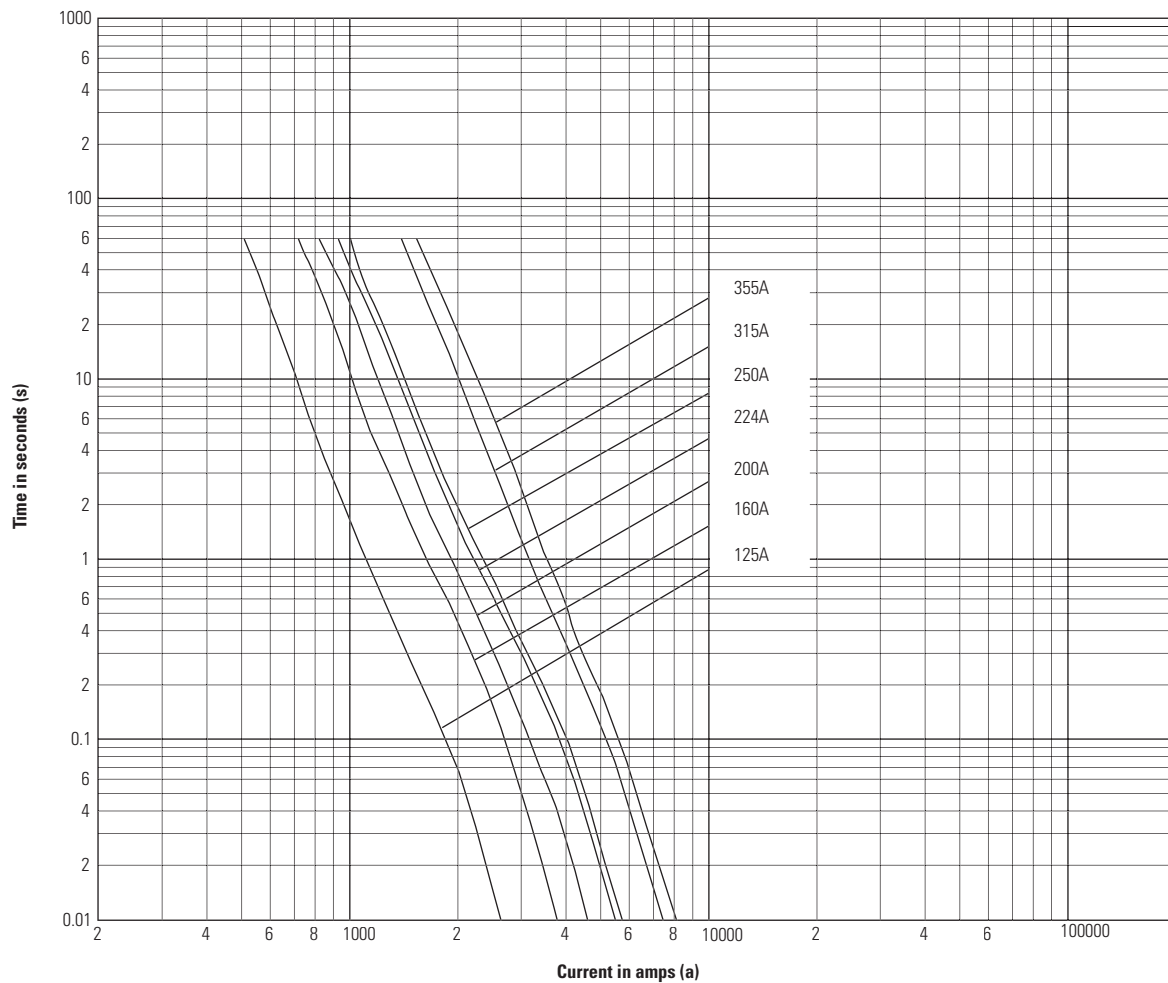
## NH Fuse links - 500 and 690 V a.c. - class aM

Time-current characteristics and technical data

### 1.6

### 500 and 690 V a.c. - class aM - 125 to 355 amps - size 2

#### Time-current characteristics



#### Technical data

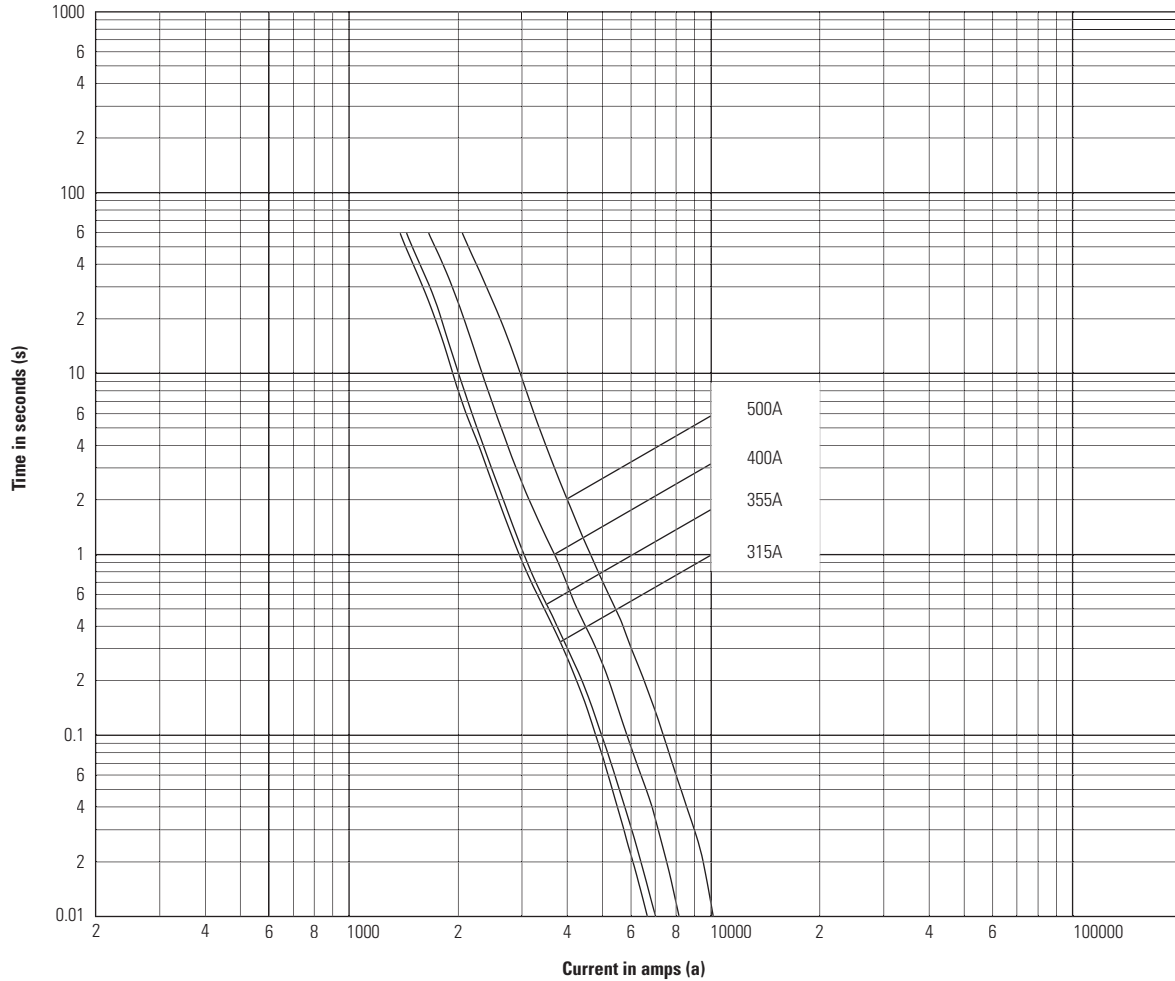
500 V a.c.		690 V a.c.		$I^2t$ (Amps <sup>2</sup> seconds)			
Catalogue numbers with metal gripping lugs	Catalogue numbers with metal gripping lugs	Fuse link size	Current (amps)	Minimum Pre-arcing	** $I_b$ , 120 kA at 690 V a.c.	Watts loss (W)	Net weight per fuse (kg)
125NHM2B	125NHM2B-690	2	125	56,500	215,000	9.7	0.615
160NHM2B	160NHM2B-690		160	120,000	510,000	11	
200NHM2B	200NHM2B-690		200	175,000	730,000	14	
224NHM2B	224NHM2B-690		224	255,000	1,050,000	15	
250NHM2B	250NHM2B-690		250	300,000	1,280,000	17	
315NHM2B*	315NHM2B-690*		315	510,000	1,150,000	23	
355NHM2B*	355NHM2B-690*		355	570,000	1,300,000	28	

\* Single indication

\*\*  $I_b$  is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements

## 500 and 690 V a.c. - class aM - 315 to 500 amps - size 3

### Time-current characteristics



### Technical data

500 V a.c.		690 V a.c.		$I^2t$ (Amps <sup>2</sup> seconds)			
Catalogue numbers with metal gripping lugs	Catalogue numbers with metal gripping lugs	Fuse link size	Current (amps)	Minimum Pre-arcing	* $I_1$ , 120 kA at 690 V a.c.	Watts loss (W)	Net weight per fuse (kg)
315NHM3B	315NHM3B-690	3	315	480,000	1,600,000	20	1.050
355NHM3B	355NHM3B-690		355	500,000	1,300,000	27	
400NHM3B	400NHM3B-690		400	680,000	2,000,000	28	
500NHM3B	500NHM3B-690		500	1,050,000	2,800,000	36	

\*  $I_1$  is the maximum breaking capacity test at voltage according to IEC 60269-1 and 2 requirements