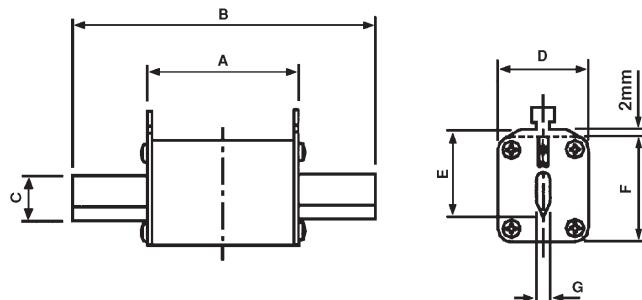


**HRC Fuse Links****Class of Operation gL/gG, 690V ac 440V dc 6 to 630 Amps****Sizes 00 to 3****Catalog Symbol: NH\_G-690****Approvals: IEC269, VDE 0636****Description:** A square bodied range of industrial fuse links for wide variety of applications where 690V is needed.**Packaging:** All fuse links are packed in 3's.**Standards:** DIN43620 Part 1**Ordering Code:** Rating/Type/Body Size/Category

e.g. 100NH2G-690

**Technical Data:****Rated Voltage:** 690V ac / 440V dc**Rated Breaking Capacity:** 50kA**Rated Frequency:** 50 Hz**Operating Frequency:** 45 - 62 Hz**Selectivity:**  
1 : 1.6 up to 690V ac  
1 : 1.25 up to 380V ac**Design - Insulator:** Ceramic  
**- Metal Parts:** Corrosion-proof (top plate also galvanic plated)**Contact Blades:** Full contact blades, silver plated copper.**Protection Type:** IP 00 according to DIN40050**Dimensions:** DIN 43620**Tests:** VDE 0636/21 (RS 5126-75)**Constancy of Characteristics:** Resistant to ageing.**On/Off Indicator:** Spring indicator, minimum operating voltage 10V**Mechanical Stress:** Vibrations 7 up to 50 Hz with 1 g, shocks with 5 g**Specifications (Dimensions all in mm)**

SIZE	A	B	C min.	D	E $\pm$ 0.8	F max.	G
C00	49 $\pm$ 1.5	78.5 $\pm$ 1.5	15	21	35	41	60 $\pm$ 2.0
00	49 $\pm$ 1.5	78.5 $\pm$ 1.5	15	30	35	48	60 $\pm$ 2.0
0	68 $\pm$ <sup>+1.5</sup> <sub>-3.0</sub>	125 $\pm$ 1.5	15	30	35	48	60 $\pm$ 2.0
1(small)	68 $\pm$ 2.5	135 $\pm$ 2.5	15	30	40	48	60 $\pm$ 2.0
1	68 $\pm$ 2.5	135 $\pm$ 2.5	20	41	40	53	60 $\pm$ 2.0
2	68 $\pm$ 2.5	150 $\pm$ 2.5	25	51	48	61	60 $\pm$ 2.0
3	68 $\pm$ 2.5	150 $\pm$ 2.5	32	72	60	76	60 $\pm$ 2.0
4a	90 $\pm$ 30	200 $\pm$ 3.0	50	100	85	85	60 $\pm$ 2.0

**HRC Fuse Links**

**Class of Operation gL/gG, 690V ac 440V dc 6 to 630 Amps**  
**Sizes 00 to 3**

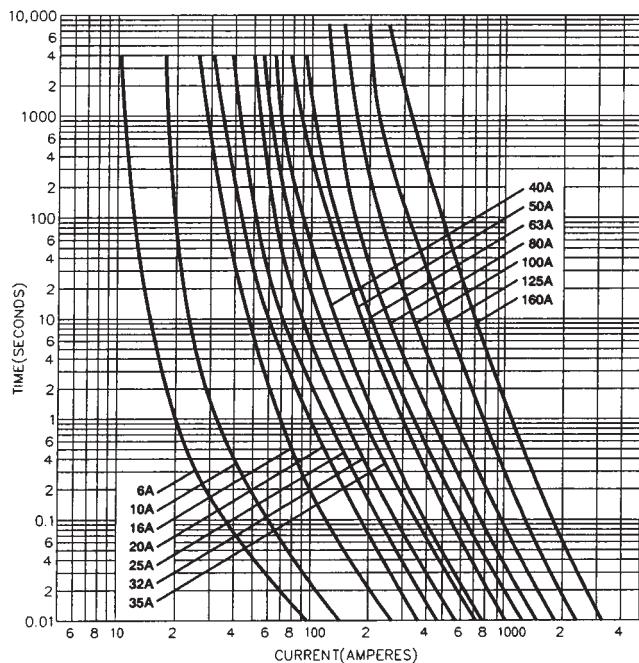
**Technical Data**

Size	00	1	2	3
Rated operational current $I_e$	160A	250A	400A	630A
Rated uninterrupted current with connecting knives $I_u$	200A	400A	630A	1000A
Rated operational voltage $U_{I_e}$ AC	690V	690V	690V	690V
Rated insulating voltage $U_i$ AC	1000V	1000V	1000V	1000V
Insulating class	C	C	C	C
Rated frequency	45-62 Hz	45-62 Hz	45-62 Hz	45-62 Hz
Protection category	IP20	IP20	IP20	IP20
Rated impulse withstand voltage	12kV	12kV	12kV	12kV
Utilisation category:				
AC23B / 380V, $\cos \varphi = 0.35$	1280/960A	2000/1500A	3200/2400A	5040/3780A
AC22B / 500V, $\cos \varphi = 0.65$	480A	750A	1200A	1890A
AC21B / 660V, $\cos \varphi = 0.95$	240A	375A	600A	945A
AC23B / 660V, $\cos \varphi = 0.35^*$	-	2000/1500A*	3200/2400A*	5040/3780*
Dynamic short-circuit strength with fuse links according to VDE 0636 Part 21	120kA	120kA	120kA	120kA
Rated short time withstand current $I_{cw}$ (with connecting knives) (1s)	>3.0kA	>10kA	>20kA	>20kA
Power dissipation of the fuse links	12W	23W	34W	48W
Standard terminal	M8	M10	M10	M12
For bus bars with max. width	20mm	30mm	40mm	50mm
For cable lug: with 1 cable lug	2.5-70mm <sup>2</sup>	6-150mm <sup>2</sup>	6-240mm <sup>2</sup>	10-240mm <sup>2</sup>
with 2 cable lugs	-	70-150mm <sup>2</sup>	150-240mm <sup>2</sup>	150-240mm <sup>2</sup>
Ambient air temperature	-25 to +55 deg	-25 to +55 deg	-25 to +55 deg	-25 to +55 deg

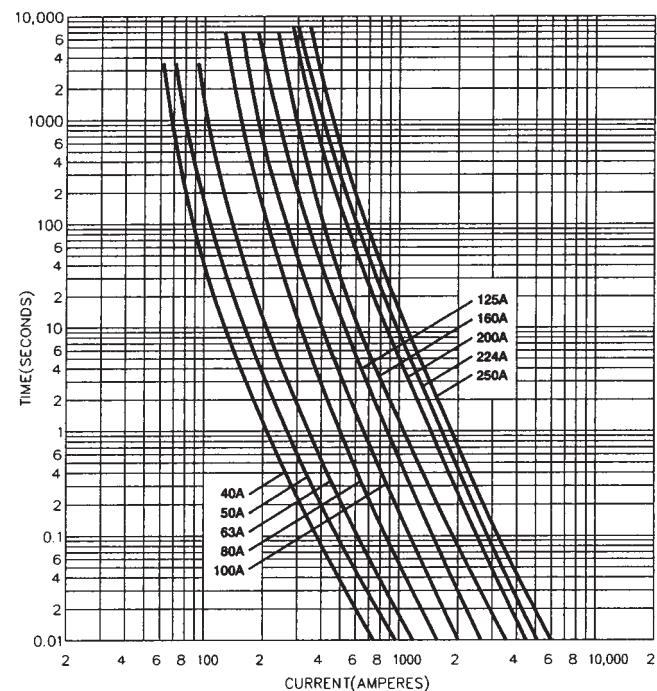
\*designed with arc chambers and break roller.

**HRC Fuse Links****Class of Operation gL/gG 690V ac 440V dc 6 to 630 Amps****Sizes 00 to 3**

Time Current Characteristics for Size 00



Time Current Characteristics for Size 1

**Size 00 Details:**

**Approvals:** VDE, ÖVE, KEMA, IEC, SEV  
**Rated Currents:** 6, 10, 16, 20, 25, 32, 35, 40, 50, 63, 80, 100, 125, and 160 A  
**Weight:** 0.16 kg.

**Size 1 Details:**

**Approvals:** VDE, ÖVE, KEMA, IEC, SEV  
**Rated Currents:** 40, 50, 63, 80, 100, 125, 160, 200, 224, 250 Amps  
**Weight:** 0.38 kg.

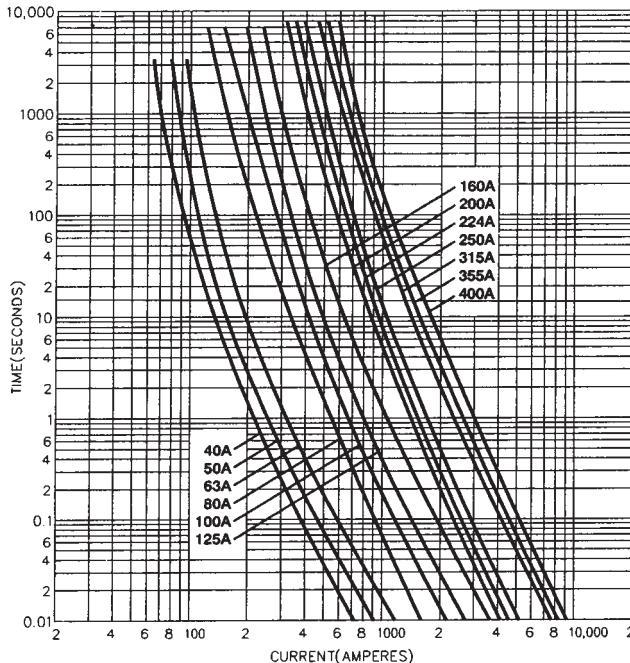
Catalog <sup>1</sup> Number	I <sup>1</sup> t (Ampere <sup>1</sup> Seconds)					Nom. Watts	Rated Voltage
	Amp Ratings	Pre- Arcing	Total at 380V	Total at 500V	Total at 690V		
6NH00G-690	6	33	100	210	450	1.3	
10NH00G-690	10	75	180	405	705	1.6	
16NH00G-690	16	350	830	1,900	3,250	2.0	
20NH00G-690	20	780	1,800	4,200	7,200	2.1	
25NH00G-690	25	1,450	3,400	7,800	12,500	2.4	
32NH00G-690	32	2,400	5,700	12,800	21,000	3.7	690 ac
35NH00G-690	35	3,600	8,500	19,300	31,500	3.8	
40NH00G-690	40	5,000	11,500	26,300	44,000	4.7	
50NH00G-690	50	8,000	18,500	43,000	69,100	6.3	
63NH00G-690	63	13,000	31,000	72,000	113,000	7.8	
80NH00G-690	80	18,200	43,000	100,000	160,000	8.5	
100NH00G-690	100	26,800	63,500	140,000	230,000	9.4	
125NH00G-690	125	40,500	96,000	215,000	350,000	12.6	
160NH00G-690	160	76,500	178,000	410,000	650,000	17.7	
200NH00G-690	200	120,500	285,500	650,000	1,050,000	20.0	
224NH00G-690	224	160,500	380,500	866,000	1,360,000	23.0	
250NH00G-690	250	197,000	462,000	1,100,000	1,700,000	25.2	

Catalog <sup>1</sup> Number	I <sup>2</sup> t (Ampere <sup>2</sup> Seconds)					Nom. Watts	Rated Voltage
	Amp Ratings	Pre- Arcing	Total at 380V	Total at 500V	Total at 690V		
40NH1G-690	40	5,000	11,500	26,300	44,000	4.7	690 ac
50NH1G-690	50	8,000	18,500	43,000	69,100	6.3	
63NH1G-690	63	13,000	31,000	72,000	113,000	7.8	
80NH1G-690	80	18,200	43,000	100,000	160,000	8.5	
100NH1G-690	100	26,800	63,500	140,000	230,000	9.4	
125NH1G-690	125	40,500	96,000	215,000	350,000	12.6	
160NH1G-690	160	76,500	178,000	410,000	650,000	17.7	
200NH1G-690	200	120,500	285,500	650,000	1,050,000	20.0	
224NH1G-690	224	160,500	380,500	866,000	1,360,000	23.0	
250NH1G-690	250	197,000	462,000	1,100,000	1,700,000	25.2	

**HRC Fuse Links**

**Class of Operation gL/gG 690V ac 440V dc 6 to 630 Amps**  
**Sizes 00 to 3**

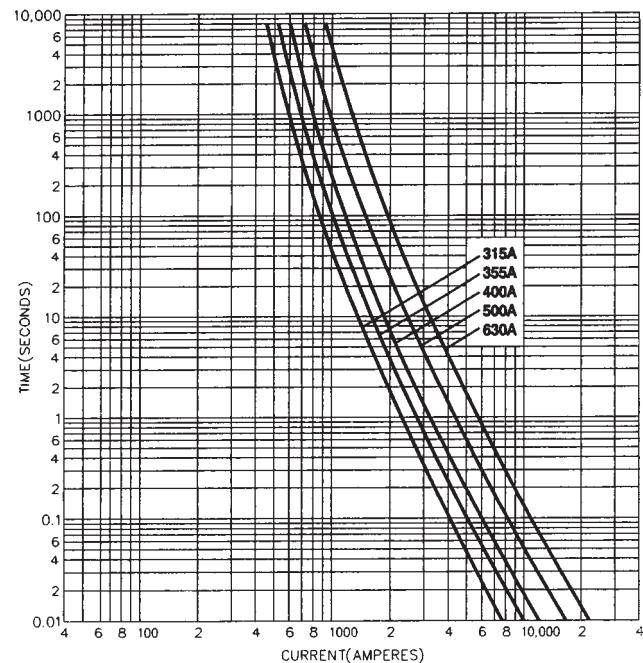
Time Current Characteristics for Size 2

**Size 2 Details:**

**Approvals:** VDE, ÖVE, KEMA, IEC, SEV  
**Rated Currents:** 40, 50, 63, 80, 100, 125, 160, 200, 224, 250, 315, 355, 400 Amps  
**Weight:** 0.59 kg.

Catalog <sup>1</sup> Number	I <sup>2</sup> t (Ampere <sup>2</sup> Seconds)					Nom. Watts	Rated Voltage
	Amp Ratings	Pre- Arcing	Total at 380V	Total at 500V	Total at 690V		
40NH2G-690	40	5,000	11,500	26,300	44,000	4.7	690 ac
50NH2G-690	50	8,000	18,500	43,000	69,100	6.3	
63NH2G-690	63	13,000	31,000	72,000	113,000	7.8	
80NH2G-690	80	18,200	43,000	100,000	160,000	8.5	
100NH2G-690	100	26,800	63,500	140,000	230,000	9.4	
125NH2G-690	125	40,500	96,000	215,000	350,000	12.6	
160NH2G-690	160	76,500	178,000	410,000	650,000	17.7	
200NH2G-690	200	120,500	285,500	650,000	1,050,000	20.0	
224NH2G-690	224	160,500	380,500	866,000	1,360,000	23.0	
250NH2G-690	250	197,000	462,000	1,100,000	1,700,000	25.2	
315NH2G-690	315	330,000	800,000	1,780,000	2,800,000	30.0	
355NH2G-690	355	405,000	960,000	2,230,000	3,500,000	35.8	
400NH2G-690	400	600,000	1,400,000	3,300,000	5,000,000	41.5	

Time Current Characteristics for Size 3

**Size 3 Details:**

**Approvals:** CEBEC  
**Rated Currents:** 315, 355, 400, 425, 500, and 630 Amps  
**Weight:** 1.0 kg.

Catalog <sup>1</sup> Number	I <sup>2</sup> t (Ampere <sup>2</sup> Seconds)					Nom. Watts	Rated Voltage
	Am Ratings	Pre- Arcing	Total at 380V	Total at 500V	Total at 690V		
315NH3G-690	315	330,000	800,000	1,780,000	2,800,000	30.0	690 ac
355NH3G-690	355	405,000	960,000	2,230,000	3,500,000	35.8	
400NH3G-690	400	600,000	1,400,000	3,300,000	5,000,000	41.5	
500NH3G-690	500	1,000,000	2,400,000	5,400,000	8,310,000	43.0	
630NH3G-690	630	1,700,000	4,100,000	9,200,000	15,000,000	47.4	

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