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



Taskaisel Defe					
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	А	В	C min.	D	E ± 0.8	F max.	G
C00	49 ± 1.5	78.5 ± 1.5	15	21	35	41	60 ± 2.0
00	49 ± 1.5	78.5 ± 1.5	15	30	35	48	60 ± 2.0
0	$68 \pm ^{+1.5}_{-3.0}$	125 ± 1.5	15	30	35	48	60 ± 2.0
1(small)	68 ± 2.5	135 ± 2.5	15	30	40	48	60 ± 2.0
1	68 ± 2.5	135 ± 2.5	20	41	40	53	60 ± 2.0
2	68 ± 2.5	150 ± 2.5	25	51	48	61	60 ± 2.0
3	68 ± 2.5	150 ± 2.5	32	72	60	76	60 ± 2.0
4a	90 ± 30	200 ± 3.0	50	100	85	85	60 ± 2.0



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Size	00	1	2	3
Rated operational current le	160A	250A	400A	630A
Rated uninterupted current with				
connecting knives I _u	200A	400A	630A	1000A
Rated operational voltage UI _e AC	690V	690V	690V	690V
Rated insulating voltage U _i AC	1000V	1000V	1000V	1000V
Insulating class	С	С	С	С
Rated frequency	45-62 Hz	45-62 Hz	45-62 Hz	45-62 Hz
Protection catagory	IP20	IP20	IP20	IP20
Rated inpulse withstand voltage	12kV	12kV	12kV	12kV
UtilisationCatagory:				
AC23B / 380V, cos φ =0.35	1280/960A	2000/1500A	3200/2400A	5040/3780A
AC22B / 500V, cos φ =0.65	480A	750A	1200A	1890A
AC21B / 660V, cos φ =0.95	240A	375A	600A	945A
AC23B / 660V, cos φ =0.35*	-	2000/1500A*	3200/2400A*	5040/3780*
Dynamic short-circuit strength				
with fuse links according to VDE	120kA	120kA	120kA	120kA
0636 Part 21				
Rated short time withstand				
current I _{cw} (with connecting	>3.0kA	>10kA	>20kA	>20kA
knives) (1s)				
Power disipation 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 ²	6-150mm ²	6-240mm ²	10-240mm ²
with 2 cable lugs	-	70-150mm ²	150-240mm ²	150-240mm ²
Ambient air temperature	-25 to +55 deg	-25 to +55 deg	-25 to +55 deg	-25 to +55 de

*designed with arc chambers and break roller.



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Time Current Characteristics for Size 00



Size 00 Details:

Approvals: Rated Currents:

Weight:

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

		l ¹ t (<i>l</i>		Nom.			
Catalog ¹ Number	Amp Ratings	Pre- Arcing	Total at 380V	Total at 500V	Total at 690V	Watts Loss	Rated Voltage
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
35NH00G-690	35	3,600	8,500	19,300	31,500	3.8	ac
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	78,000	178,000	410,000	650,000	17.7	

10,000_E 6 4 2 1000 6 2 100 6 2 TIME(SECONDS) 125A 160A 10 200A 6 - 224A 250A ╊┾╊╊╆ 40A 2 50A 63A 0.1 80A 6 100A 2 0.01 6 8 10,000 2 2 4 6 8 100 2 4 6 8 1000 2 4

Size 1 Details:

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

CURRENT(AMPERES)

		l²t (A	Impere ² Se	² Seconds)			
Catalog ¹ Number	Amp Ratings	Pre- Arcing	Total at 380V	Total at 500V	Total at 690V		Rated Voltage
40NH1G-690	40	5,000	11,500	26,300	44,000	4.7	
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	690
160NH1G-690	160	76,500	178,000	410,000	650,000	17.7	ac
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	1



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Time Current Characteristics for Size 1

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Time Current Characteristics for Size 2



Size 2 Details: Approvals:

Rated Currents:

Weight:

VDE, ÖVE, KEMA, IEC, SEV 40, 50, 63, 80, 100,125,160, 200, 224, 250, 315, 355, 400 Amps 0.59 kg.

		I ² t (Ampere ² Seconds)					
Catalog ¹	Amp	Pre-	Total at	Total at	Total at	Watts	Rated
Number	Ratings	Arcing	380V	500V	690V	Loss	Voltage
40NH2G-690	40	5,000	11,500	26,300	44,000	4.7	
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	690
160NH2G-690	160	76,500	178,000	410,000	650,000	17.7	ac
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: Rated Currents: Weight:

CEBEC 315, 355, 400, 425, 500, and 630 Amps 1.0 kg.

		I ² t (Ampere ² Seconds)					
Catalog ¹ Number	Am Ratings	Pre- Arcing	Total at 380V	Total at 500V	Total at 690V		Rated Voltage
315NH3G-690		330,000		1,780,000			•
355NH3G-690	355	405,000	960,000	2,230,000	3,500,000	35.8	690
400NH3G-690	400	600,000	1,400,000	3,300,000	5,000,000	41.5	ac
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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