



# NH KNIFE-BLADE

FUSE LINKS & FUSE BASES

**gG**  
**NH 690V**  
fuse links



**PROTECTING  
THE WORLD**



RATED VOLTAGE  
690V

RATED CURRENT  
50A...100A

BREAKING CAPACITY  
80kA

#### STANDARDS

IEC/EN 60269-1  
IEC/EN 60269-2



## Knife type NH gG 690V fuse links with top indicator

These high breaking capacity fuse-links are intended for protection of power lines and equipment, against overloads and short-circuits with rated voltages up to 690V (+5%).

The rated breaking capacity is 80kA.

Compact versions in low rated currents of every size.

The range comprises the following fuse links:

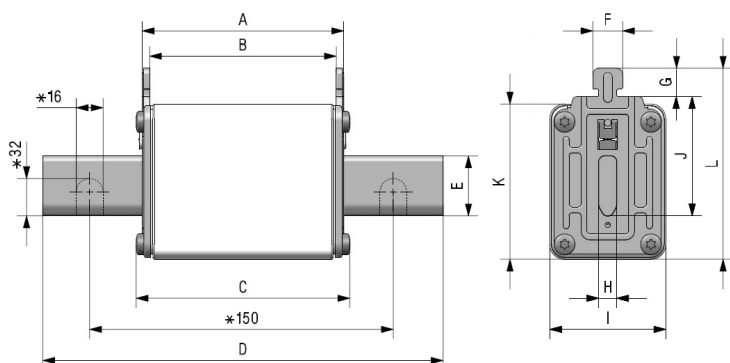
→ Size NH00 gG 690V 50A and 100A

Manufactured with ceramic body with high withstand to internal pressure and thermal shock, that allows a high breaking capacity. Knife contacts are made of silver plated copper or brass.

They are manufactured according to IEC/EN60269 Standards and comply with RoHS directive.



## Dimensions



\* Only for NH4 fuse links

A	B	C	D	E	F	G	H	I	J	K	L
49	44	52	78,5	15	10	9,5	6	29	35	47	59

Weight 180gr

## Range

$I_n$ (A)	REFERENCE	PACKING Uni /BOX
50	<b>382050</b>	3/60
63	<b>382055</b>	3/60
80	<b>382060</b>	3/60
100	<b>382065</b>	3/60



## Technical data

Rated voltage	690V AC +50%
Rated current	50A...100A
Rated breaking capacity	80kA
Operating class	gG
Rated frequency	42...62Hz
Storage temperature	-40°C ... 90°C
Operating temperature *	-40°C ... 80°C

\* For ambient temperatures higher than 25°C it is necessary to apply a derating in maximum current.

## Standards

IEC/EN 60269-1  
IEC/EN 60269-2  
RoHS Compliant



## Materials

Body	Steatite C221
Contact blades	Copper or brass (silver plated)
Plates	Aluminium
Screws	Zinc plated steel

## DC Application

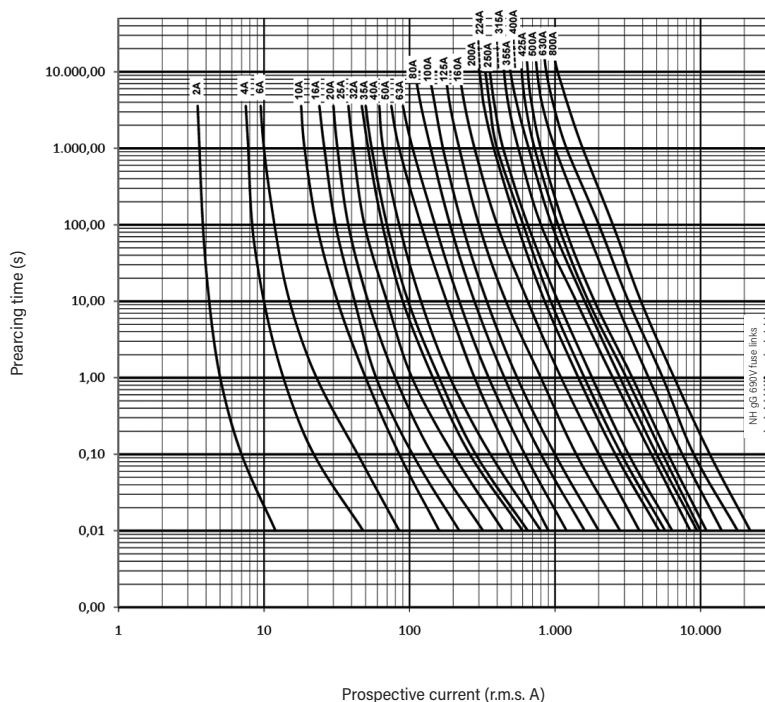
MAX DC VOLTAGE	DC BREAKING CAPACITY
250V DC	25kA

## Power dissipation

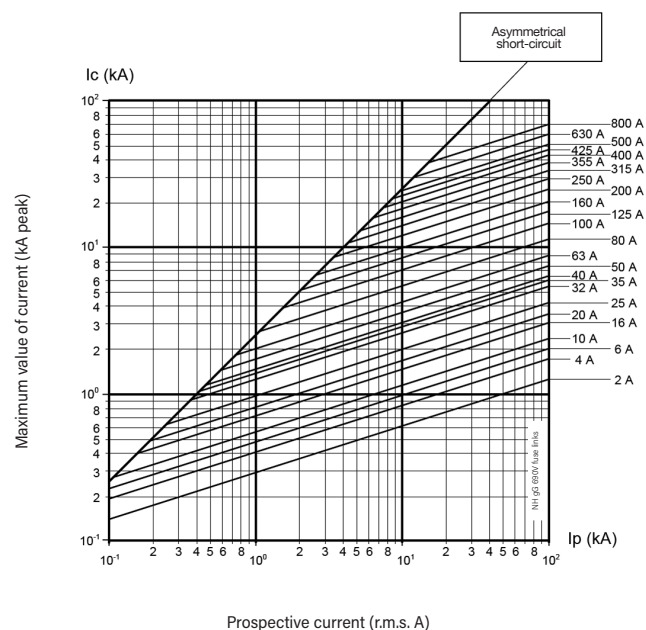
I <sub>n</sub>	POWER DISSIPATION	PREARcing I <sub>t</sub> <sup>2</sup>	TOTAL I <sub>t</sub> <sup>2</sup> 400V	TOTAL I <sub>t</sub> <sup>2</sup> 500V	TOTAL I <sub>t</sub> <sup>2</sup> 690V
(A)	(W)	≈ 4 ms (A <sup>2</sup> s)	(A <sup>2</sup> s)	(A <sup>2</sup> s)	(A <sup>2</sup> s)
50	4,7	4800	8574	10310	14630
63	6,1	6600	13805	16602	23571
80	7,0	11700	24472	29430	41786
100	9,0	21000	43925	52824	75000



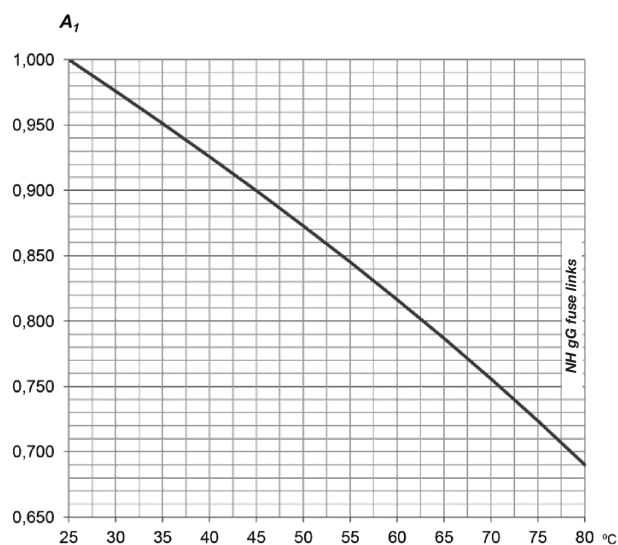
## t-I characteristics



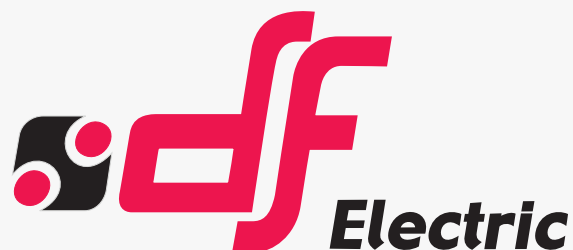
## Cut-off characteristics



## Ambient temperature derating factor



$t_a$ (°C)	$A_1$
25	1,00
30	0,98
35	0,95
40	0,93
45	0,90
50	0,87
55	0,84
60	0,82
65	0,79
70	0,76
75	0,72
80	0,69



# PROTECTING THE WORLD

## HEAD OFFICE AND FACTORY

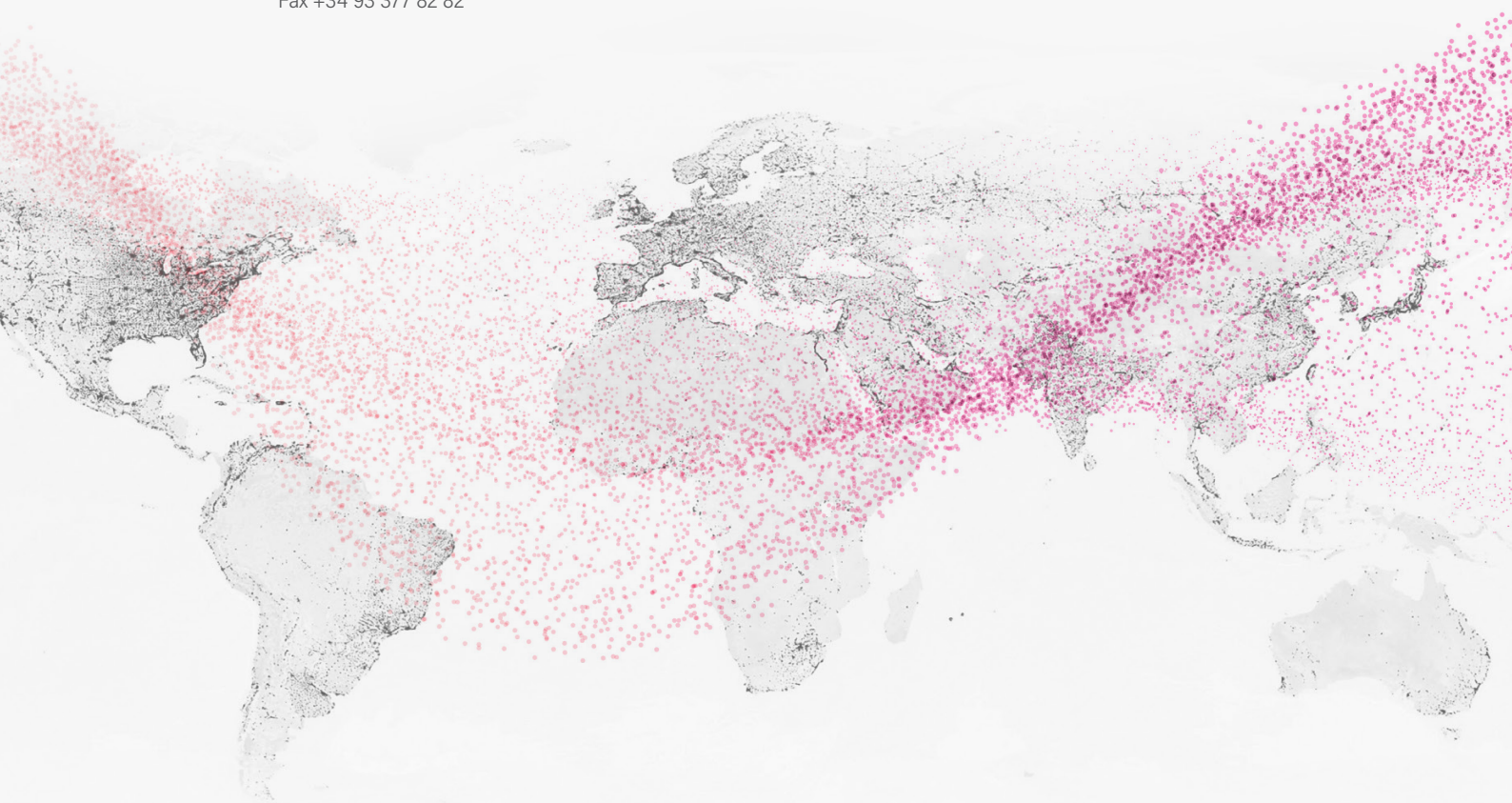
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The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.



To prevent electrical hazards, carry out the installation without voltage.



**Safety notice**  
Please capture the following QR code and read our safety notice carefully before installing our products.



The data reflected in this technical record are subject to the correct installation of the product in accordance with manufacturer's instructions, relevant installation standards and professional practices, maintained and used in applications for which they were made.

The products described in this document have been designed, developed and tested in accordance with specific standard. They are considered components that are integrated as part of installation, machine or equipment. The correct general operation of the referred product is responsibility of the manufacturer of the installation, machine or equipment.

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