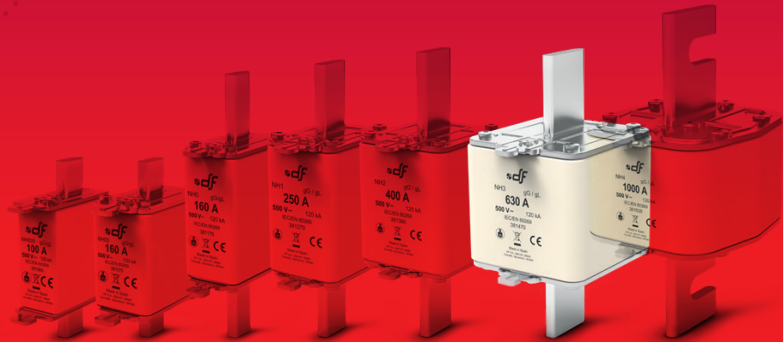


# NH KNIFE-BLADE

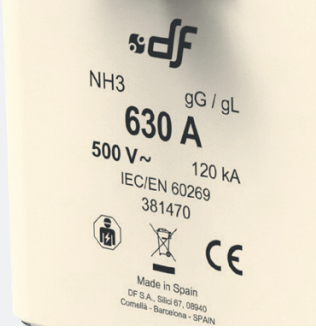
FUSE LINKS & FUSE BASES

## gG NH 500V fuse links



**PROTECTING  
THE WORLD**





RATED VOLTAGE  
500V

RATED CURRENT  
250A...800A

BREAKING CAPACITY  
120kA

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



## Knife type NH gG 500V 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 500V AC (+10%).

The rated breaking capacity is 120 kA.

Compact versions in low rated currents of every size.

The range comprises the following fuse links:

- Size NHC3 gG 500V 250A to 400A
- Size NH3 gG 500V 425A to 800A
- Size NH3 with striker gG 500V 315A to 630A

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.



## Range

	In (A)	REFERENCE	PACKING Uni /BOX
NHC3	250	<b>381435</b>	3/18
	315	<b>381445</b>	3/18
	355	<b>381450</b>	3/18
	400	<b>381455</b>	3/18
NH3	425	<b>381460</b>	3/18
	500	<b>381465</b>	3/18
	630	<b>381470</b>	3/18
	800*	<b>381475</b>	3/18

\* Overrating fuse links

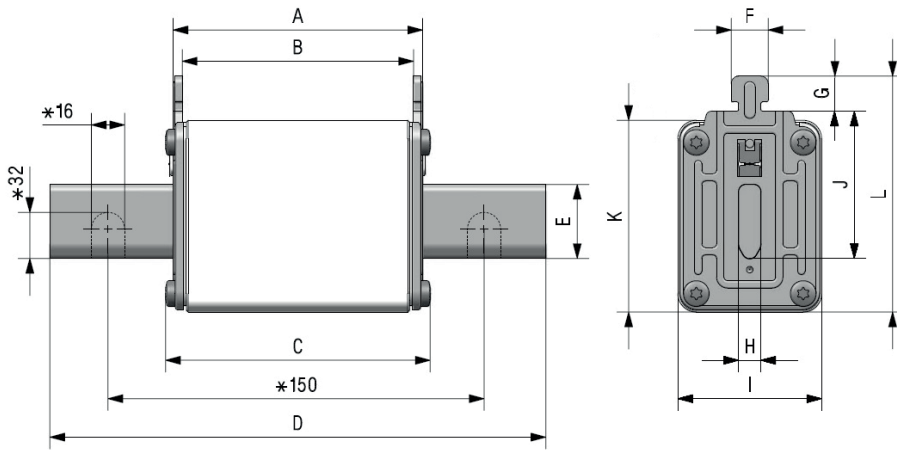
## Range

	In (A)	REFERENCE	PACKING Uni /BOX
NH3 WITH STRIKER	315	<b>395445</b>	3/18
	355	<b>395450</b>	3/18
	400	<b>395455</b>	3/18
	425	<b>395460</b>	3/18
	500	<b>395465</b>	3/18
	630	<b>395470</b>	3/18

\* Overrating fuse links



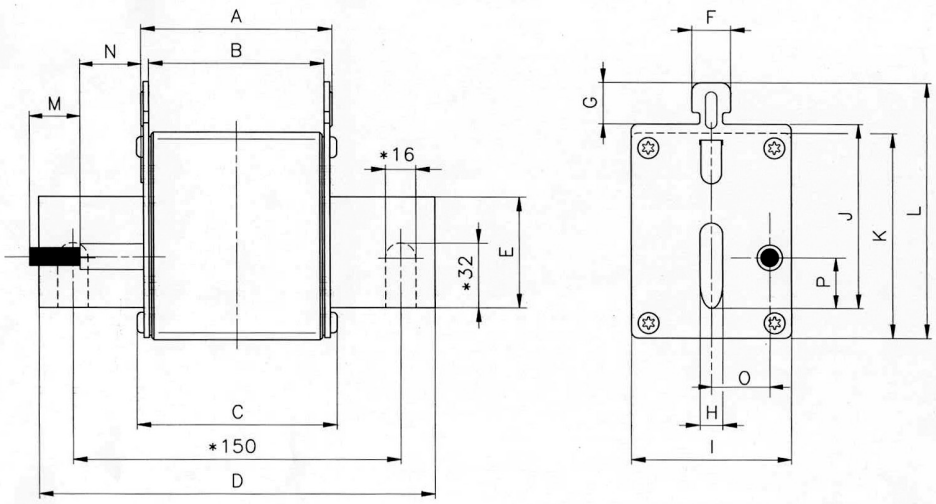
# Dimensions



\* Only for NH4 fuse links

	A	B	C	D	E	F	G	H	I	J	K	L
<b>NHC3</b>	68	62	71,5	150	25	10	9,5	6	53	60	60	84
<b>NH3</b>	68	62	73	150	32	10	9,5	6	70	60	75	87

**Weight** NHC3: 630gr | NH3: 1,02kg



\* Only for NH4 fuse links

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
68	62	73	150	32	10	9,5	6	70	60	75	87	15	28	24	14,5

**Weight** 1,02kg



## Technical data

Rated voltage	500V AC +10%
Rated current	250A...800A
Rated breaking capacity	120kA
Utilization category	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

RATED CURRENT	MAX DC VOLTAGE	DC BREAKING CAPACITY
250A...630A	250V DC	80kA
800A	80V DC	80kA

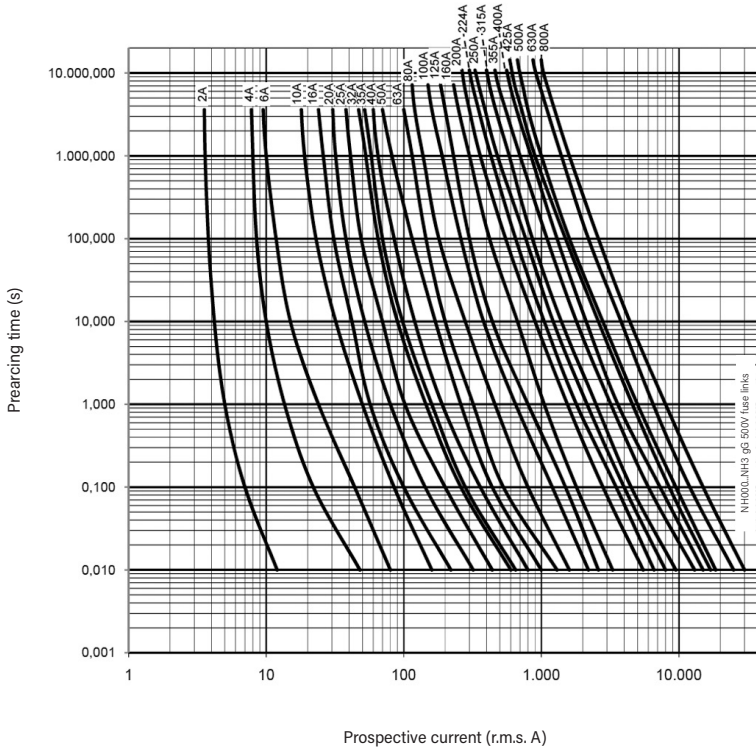
## Power dissipation

	$I_n$ (A)	POWER DISSIPATION (W)	PREARcing $I_t^2$ $\approx 4 \text{ ms (A}^2\text{s)}$	TOTAL $I_t^2$ 230V (A <sup>2</sup> s)	TOTAL $I_t^2$ 400V (A <sup>2</sup> s)	TOTAL $I_t^2$ 500V (A <sup>2</sup> s)
NHC3	250	21,0	169000	274700	393447	486000
	315	25,6	236700	435300	682917	890000
	355	30,6	290960	535100	839445	1094000
	400	32,6	444000	816600	1281297	1670000
NH3	425	33,5	589800	998400	1473145	1851960
	500	36,4	900000	1523400	2247948	2826000
	630	45,5	1600000	2707400	3993806	5020000
	800	66,5	2500000	4231800	6244300	7850000

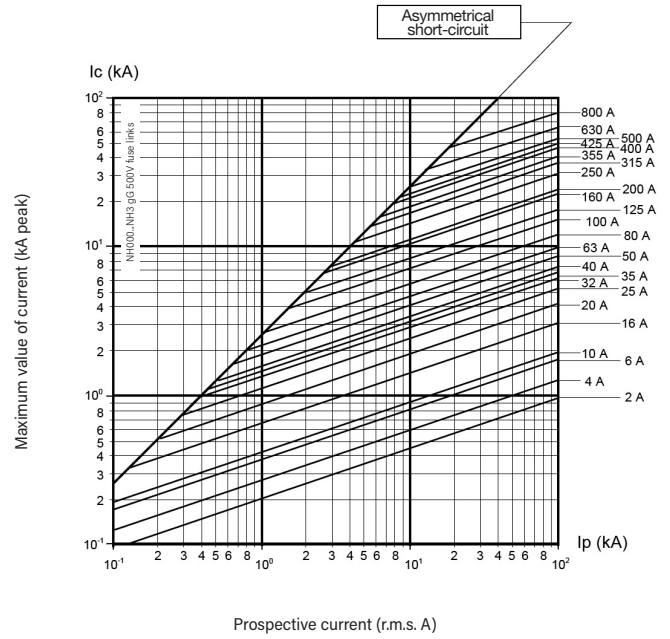
\* Same data for STRIKER range (315A up to 630A)



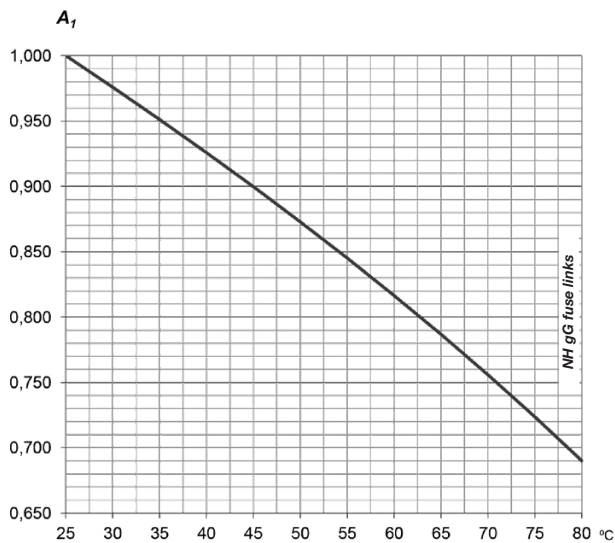
## t-I characteristics



## 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



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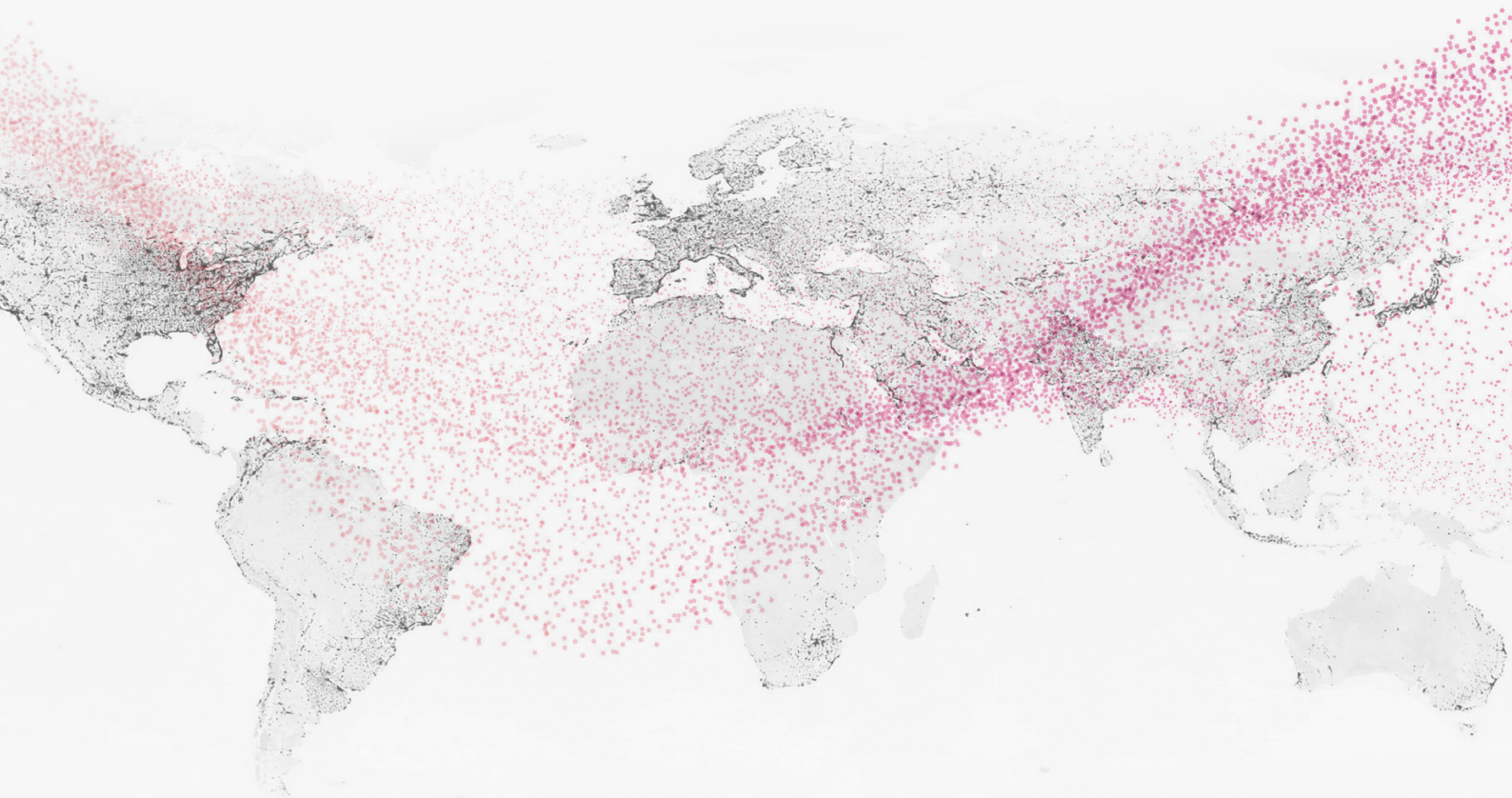
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The data reflected in this technical record are subject to the correct installation of the product in accordance with manufacturer's instructions, relevant installation standards and professional practices, maintained and used in applications for which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

DF ELECTRIC cannot guarantee the characteristics of an installation, machine or equipment that has been designed by a third party. Once a product has been selected, the user must verify that it is appropriate for its application, through the verifications and/or tests that it deems appropriate.

DF ELECTRIC retains the right to change the dimensions, specifications, materials or design of its products at any time with or without notice.



# PROTECTING THE WORLD

