

# NH KNIFE-BLADE

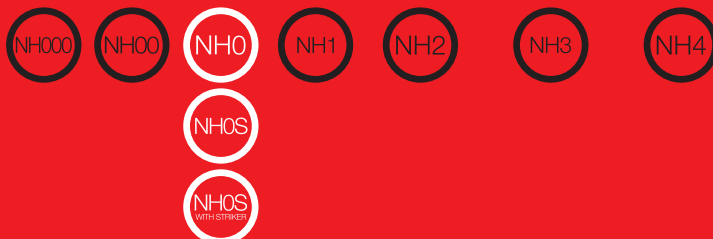
FUSE LINKS & FUSE BASES



## aM

## NH 500V/690V

fuse links



## PROTECTING THE WORLD

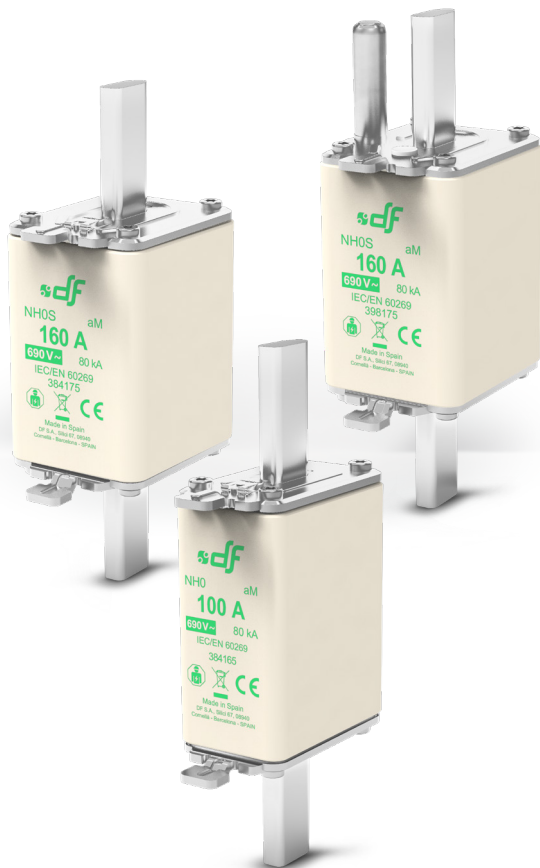


**RATED VOLTAGE**  
690V AC  
500V AC

**RATED CURRENT**  
6A...200A

**BREAKING CAPACITY**  
80kA @ 690V  
120kA @ 500V

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



## Knife type NH aM 500V/690V fuse links with top indicator

These high breaking capacity fuse-links are intended for short circuit protection in motors, transformer and other load with high inrush currents, with rated voltages up to 690V (+5%).

The rated breaking capacity is 80kA at 690V or 120kA at 500V. Excellent protection of switchgear (contactor, thermal switch) due to the good current limiting capability and low  $I^2t$  values. These fuse links must be associated to an overload device protection (thermal switch).

Compact versions in low rated currents of every size.

The range comprises the following fuse links:

- Size NH0 aM 500V/690V 6A to 160A
- Size NH0S aM 500V/690V 125A to 200A
- Size NH0S with striker aM 500V/690V 32A to 200A

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.

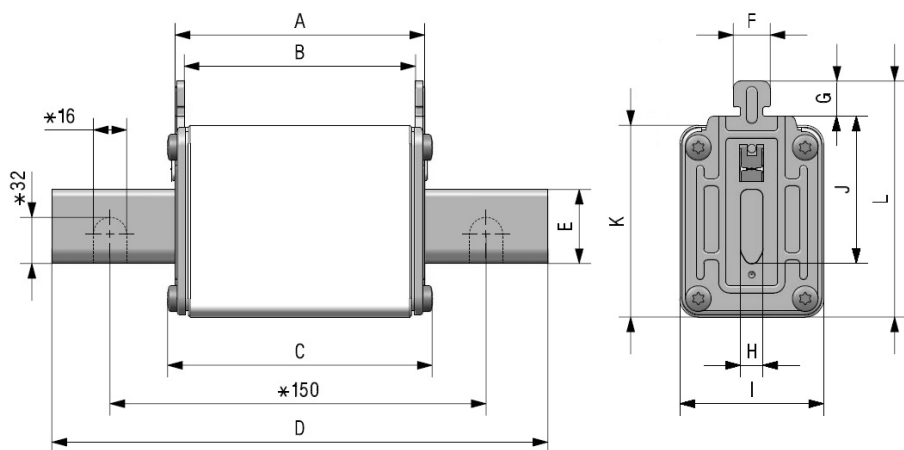


## Range

	U <sub>n</sub>	BREAKING CAPACITY	I <sub>n</sub>	REFERENCE	PACKING
			(A)		Uni /BOX
NH0	690V	80kA	6	<b>384110</b>	3/42
			10	<b>384115</b>	3/42
			16	<b>384120</b>	3/42
			20	<b>384125</b>	3/42
			25	<b>384130</b>	3/42
			32	<b>384135</b>	3/42
			35	<b>384140</b>	3/42
			40	<b>384145</b>	3/42
			50	<b>384150</b>	3/42
			63	<b>384155</b>	3/42
			80	<b>384160</b>	3/42
			100	<b>384165</b>	3/42
	500V	120kA	125	<b>383170</b>	3/42
			160	<b>383175</b>	3/42

	U <sub>n</sub>	BREAKING CAPACITY	I <sub>n</sub>	REFERENCE	PACKING
			(A)		Uni /BOX
NH0S	690V	80kA	125	<b>384170</b>	3/30
			160	<b>384175</b>	3/30
	500V	120kA	200	<b>383180</b>	3/30
			32	<b>398135</b>	3/30
NH0S WITH STRIKER	690V	80kA	35	<b>398140</b>	3/30
			40	<b>398145</b>	3/30
			50	<b>398150</b>	3/30
			63	<b>398155</b>	3/30
			80	<b>398160</b>	3/30
			100	<b>398165</b>	3/30
			125	<b>398170</b>	3/30
			160	<b>398175</b>	3/30
	500V	120kA	200	<b>397180</b>	3/30

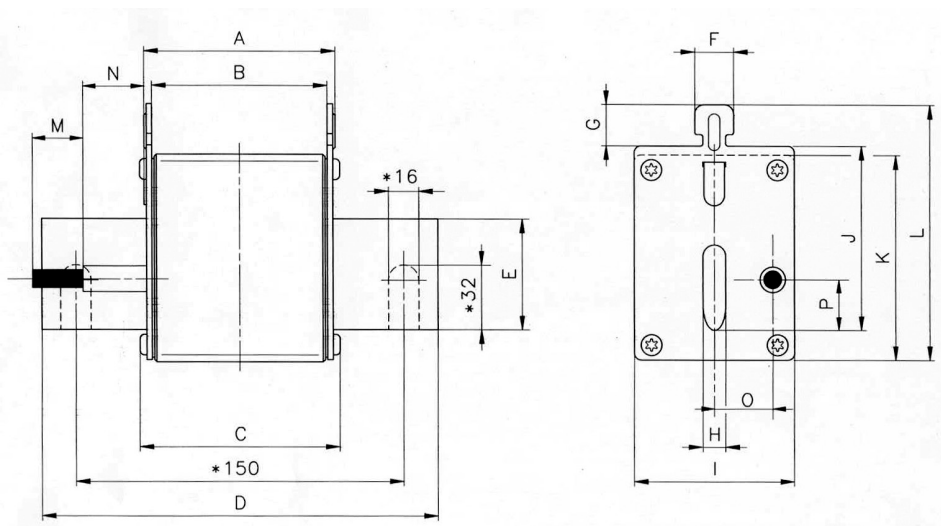
## Dimensions



\* Only for NH4 fuse links

	A	B	C	D	E	F	G	H	I	J	K	L
<b>NH0</b>	66	60,5	66,5	125	15	10	9,5	6	29	35	47	59
<b>NH0S</b>	66	62	66,5	125	15	10	9,5	6	39	35	47	59

**Weight** NH0: 250gr | NH0S: 310gr



\* Only for NH4 fuse links

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
66	62	66,5	125	15	10	9,5	6	39	35	47	59	15	29	14,5	14

**Weight** 320gr



## Technical data

Rated voltage	690V +5% 500V +10%
Rated current	6A...200A
Rated breaking capacity	80kA @690V 120kA @500V
Operating class	aM
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.

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



## Standards

## Materials

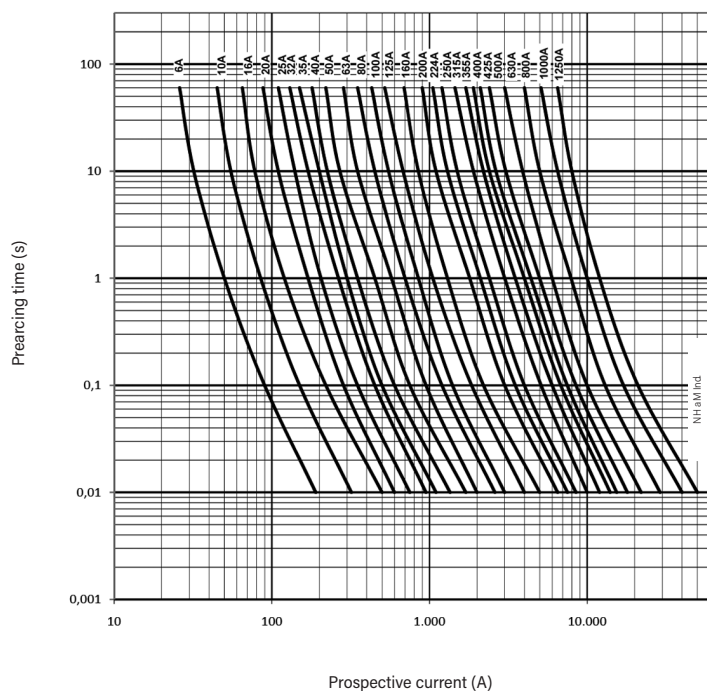
Body	Steatite C221
Contact blades	Copper or brass (silver plated)
Plates	Aluminium
Screws	Zinc plated steel

## Power dissipation

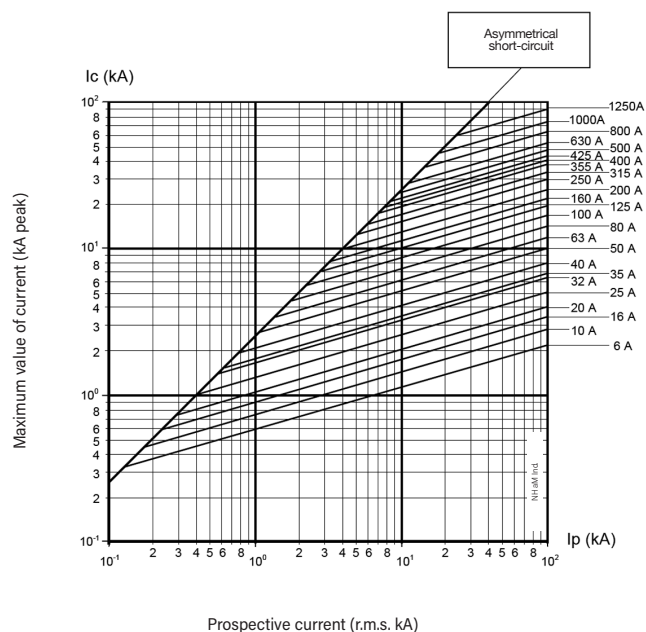
	I <sub>n</sub> (A)	POWER DISSIPATION (W)	PREARcing I <sub>t</sub> ≈ 4 ms (A²s)	TOTAL I <sub>t</sub> 230V (A²s)	TOTAL I <sub>t</sub> 400V (A²s)	TOTAL I <sub>t</sub> 500V (A²s)
NH0	6	0,4	160	324	387	542
	10	0,7	325	659	786	1100
	16	1,1	820	1619	1919	2650
	20	1,4	1240	2634	3179	4547
	25	1,6	2500	5310	6410	9167
	32	1,9	3200	6796	8204	11733
	35	2,0	4100	8708	10512	15033
	40	2,3	6000	12743	15383	22000
	50	3,1	9000	18820	22632	32130
	63	4,1	16300	33697	40405	57050
	80	5,0	19600	40519	48586	68600
NH0   NH0S	100	6,6	36000	74423	89239	126000
	125	8,2	53000	99787	116890	157872
	160	10,5	82000	154388	180848	244255
NH0S	200	12,3	167000	314425	368313	497447

\* Same data for STRIKER range (32A up to 200A)

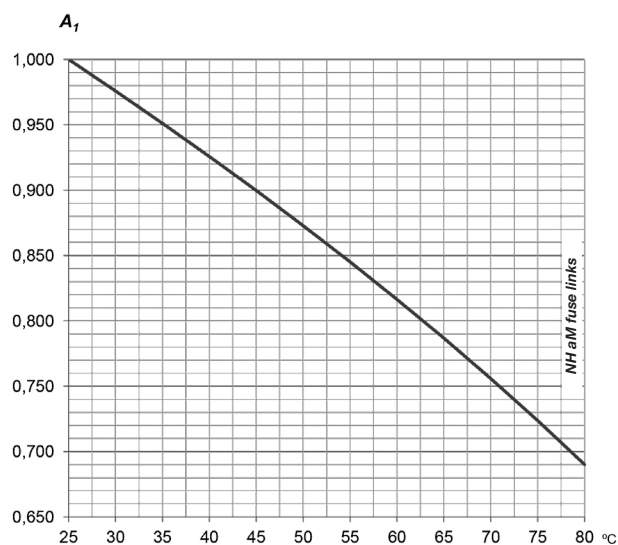
## t-I characteristics



## Cut-off characteristics



## Ambient temperature derating factor



t <sub>a</sub> (°C)	A <sub>1</sub>
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

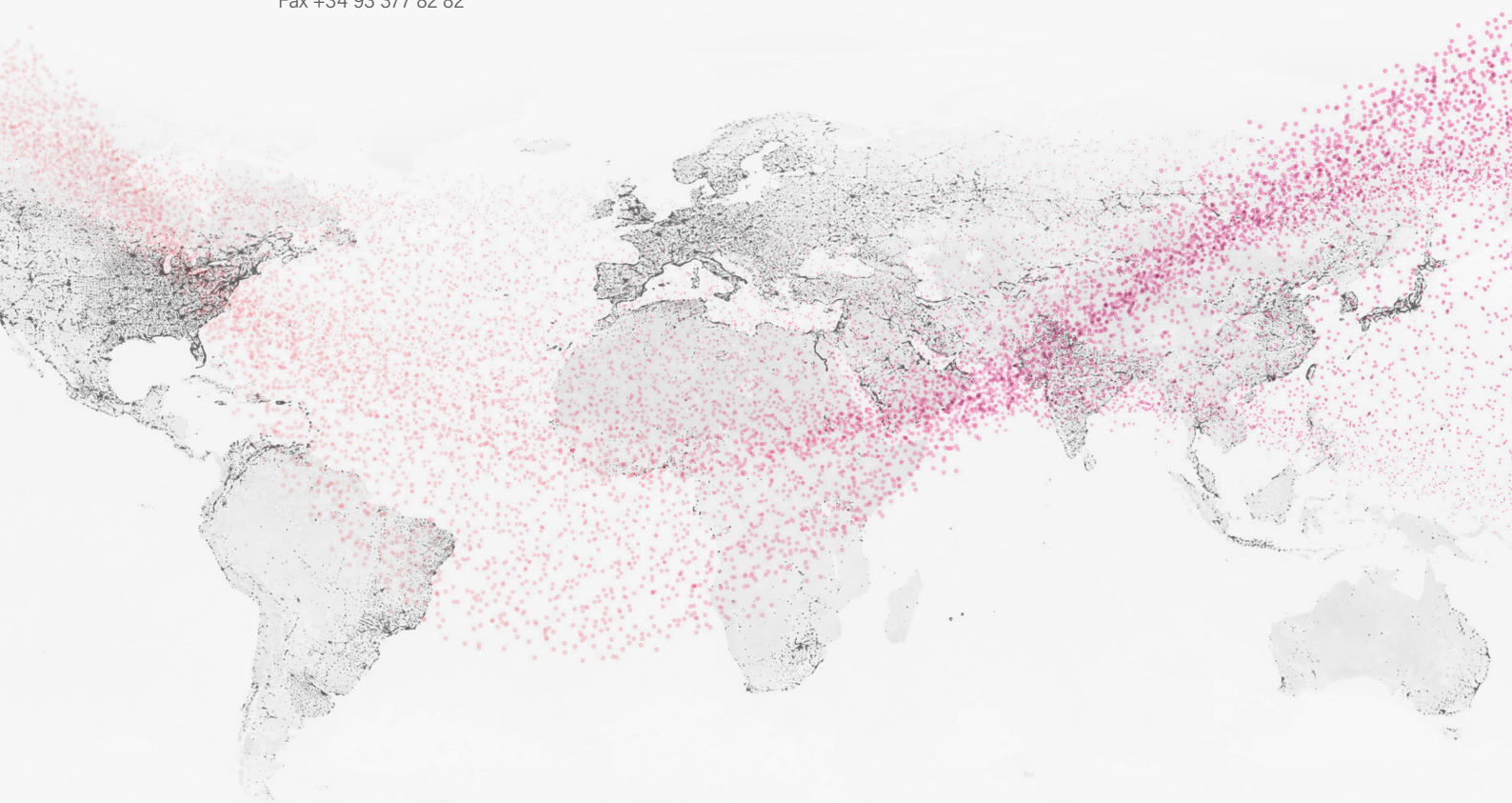
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The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.



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.



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