

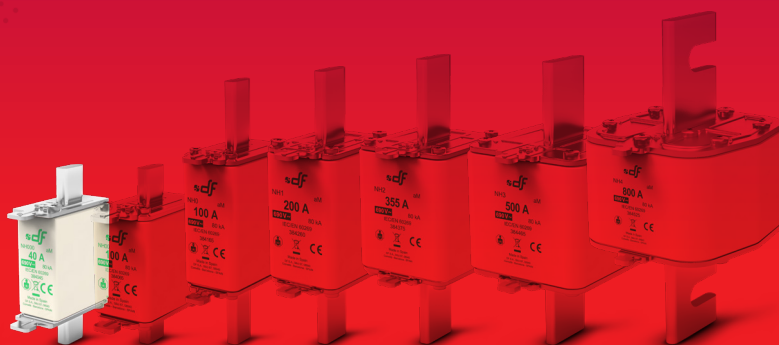


**PROTECTING  
THE WORLD**

# NH KNIFE-BLADE

FUSE LINKS & FUSE BASES

**aM**  
**NH 690V**  
fuse links





RATED VOLTAGE  
690V

RATED CURRENT  
6A...40A

BREAKING CAPACITY  
80kA

#### STANDARDS

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



## Knife type NH aM 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).

The range comprises the following fuse links:

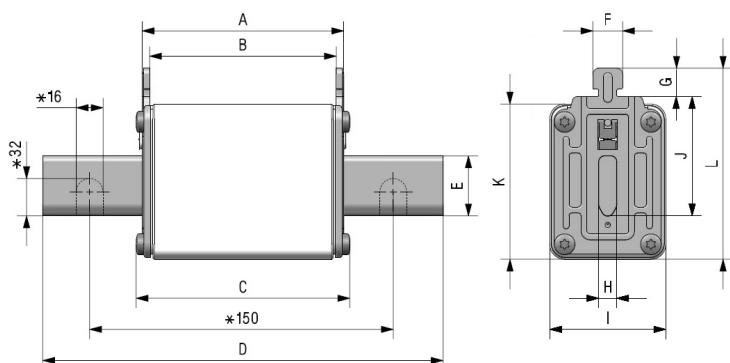
→ Size NH000 aM 690V 6A to 40A

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	45	52	78,5	15	10	9,5	6	21	35	40	53

Weight 120gr

## Range

$I_n$ (A)	REFERENCE	PACKING Uni /BOX
6	<b>384010</b>	3/90
10	<b>384015</b>	3/90
16	<b>384020</b>	3/90
20	<b>384025</b>	3/90
25	<b>384030</b>	3/90
32	<b>384035</b>	3/90
35	<b>384040</b>	3/90
40	<b>384045</b>	3/90



## Technical data

Rated voltage	690V AC +5%
Rated current	6A...40A
Rated breaking capacity	80kA
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

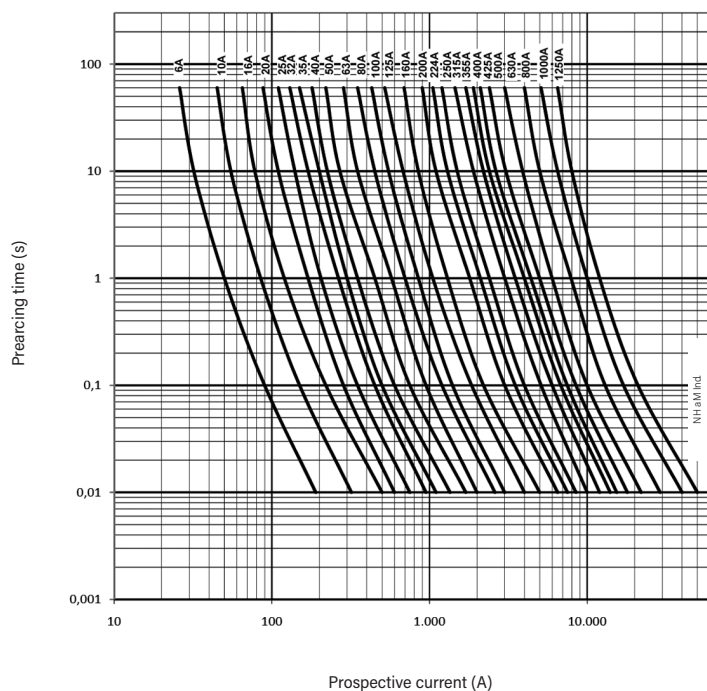
## Materials

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

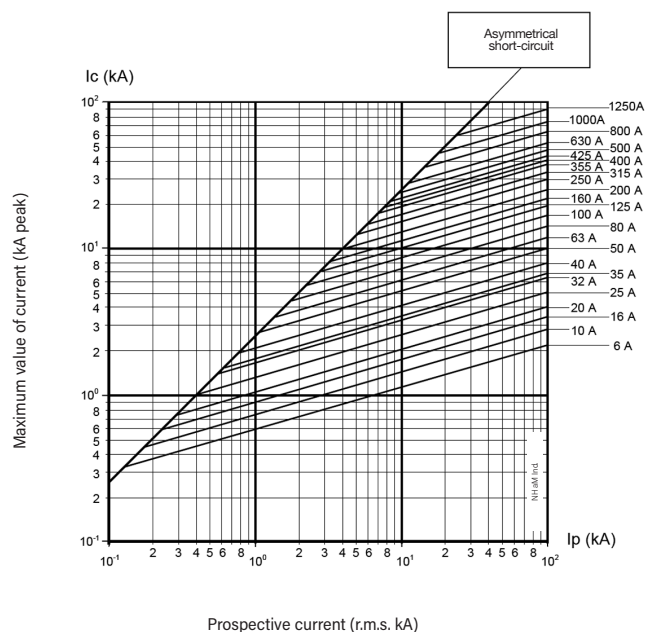
## Power dissipation

I <sub>n</sub>	POWER DISSIPATION	PREARcing I <sub>p</sub> t	TOTAL I <sub>p</sub> t 230V	TOTAL I <sub>p</sub> t 400V	TOTAL I <sub>p</sub> t 500V
(A)	(W)	≈ 4 ms (A <sup>2</sup> s)	(A <sup>2</sup> s)	(A <sup>2</sup> s)	(A <sup>2</sup> s)
6	0,33	160	324	387	542
10	0,55	325	659	786	1100
16	0,85	820	1619	1919	2650
20	1,0	1240	2634	3179	4547
25	1,1	2500	5310	6410	9167
32	1,6	3200	6796	8204	11733
35	1,8	4100	8708	10512	15033
40	1,9	6000	12743	15383	22000

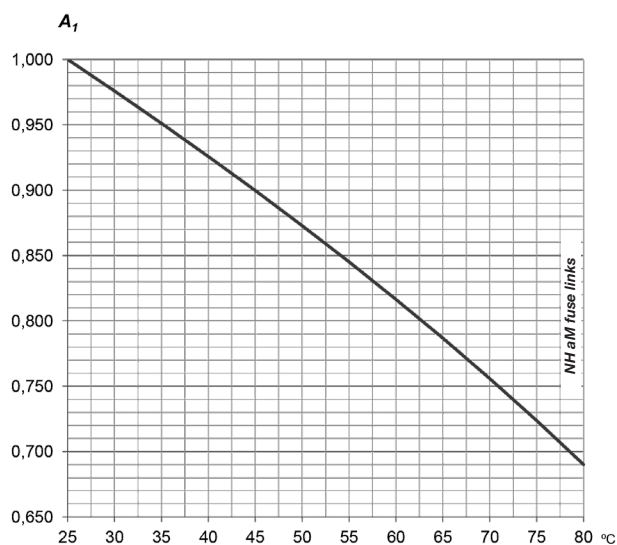
## t-I characteristics



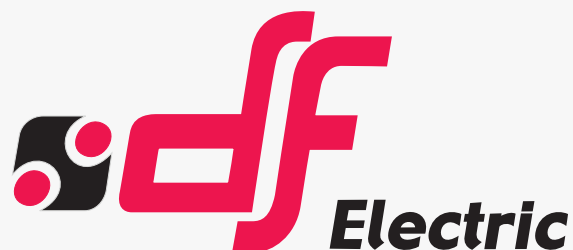
## Cut-off characteristics



## 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

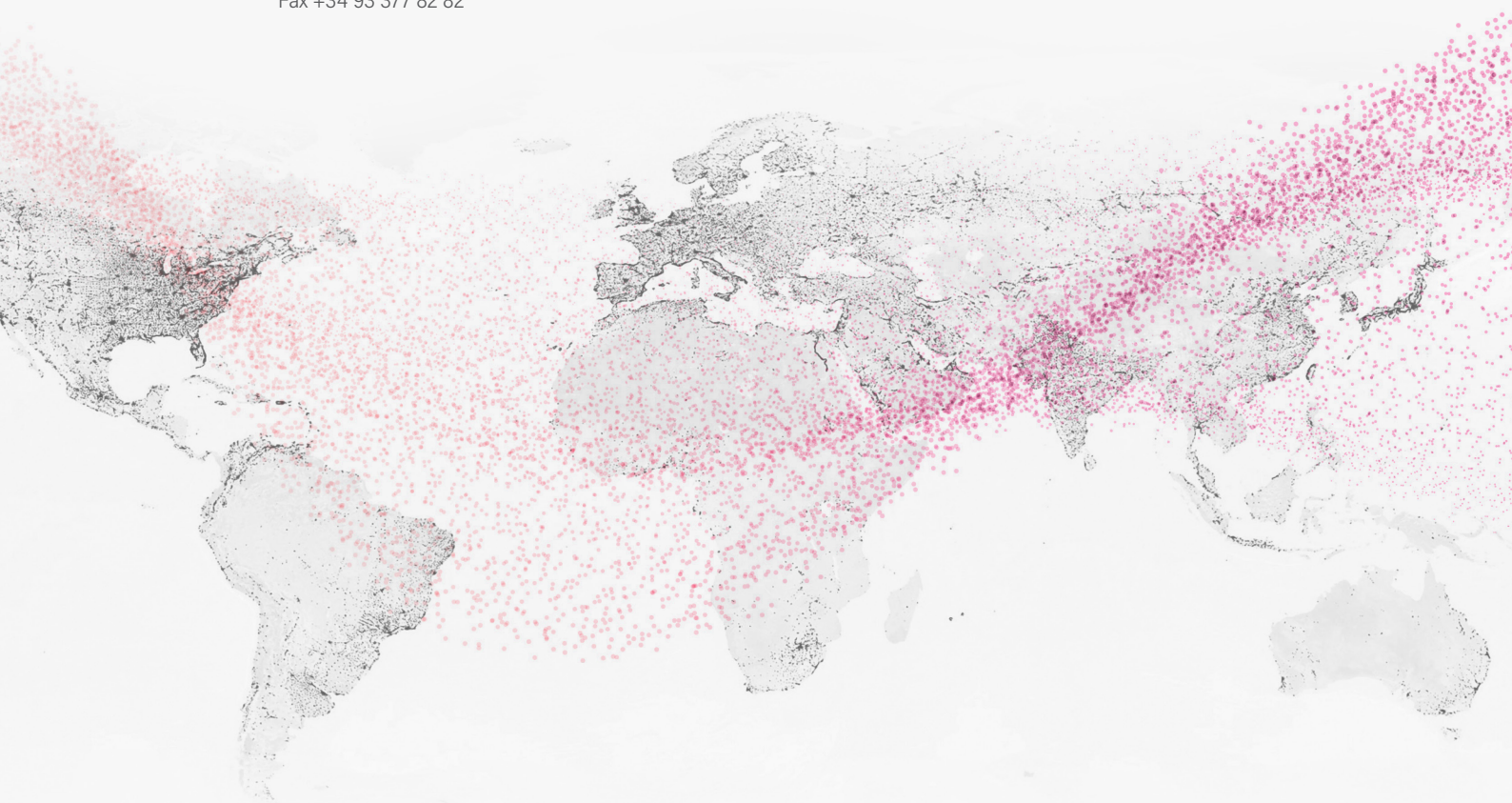
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The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.



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.



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