

NH KNIFE-BLADE

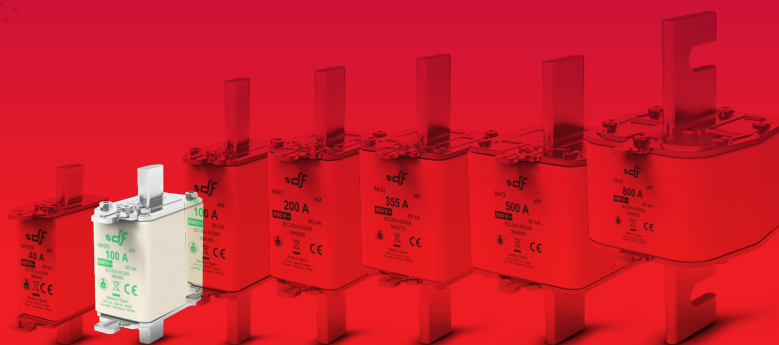
FUSE LINKS & FUSE BASES



aM

NH 500V/690V

fuse links



PROTECTING THE WORLD



RATED VOLTAGE

690V AC
500V AC

RATED CURRENT

50A...160A

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).

The range comprises the following fuse links:

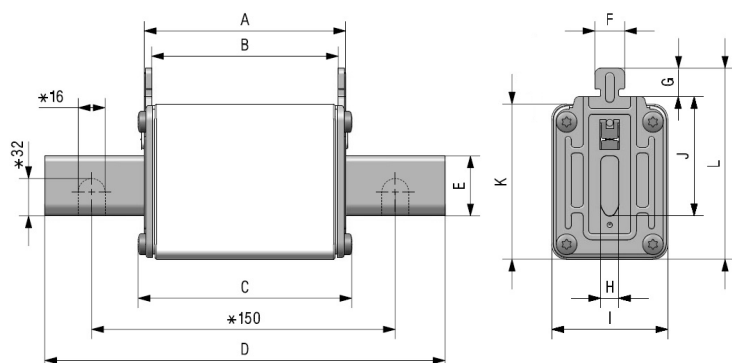
→ Size NH00 aM 500V/690V 50A to 160A

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

U _n	BREAKING CAPACITY	I _n (A)	REFERENCE	PACKING Uni /BOX
690V	80kA	50	384050	3/60
		63	384055	3/60
		80	384060	3/60
		100	384065	3/60
500V	120kA	125	383070	3/60
		160	383075	3/60



Technical data

Rated voltage	690V +5% 500V +10%
Rated current	50A...160A
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

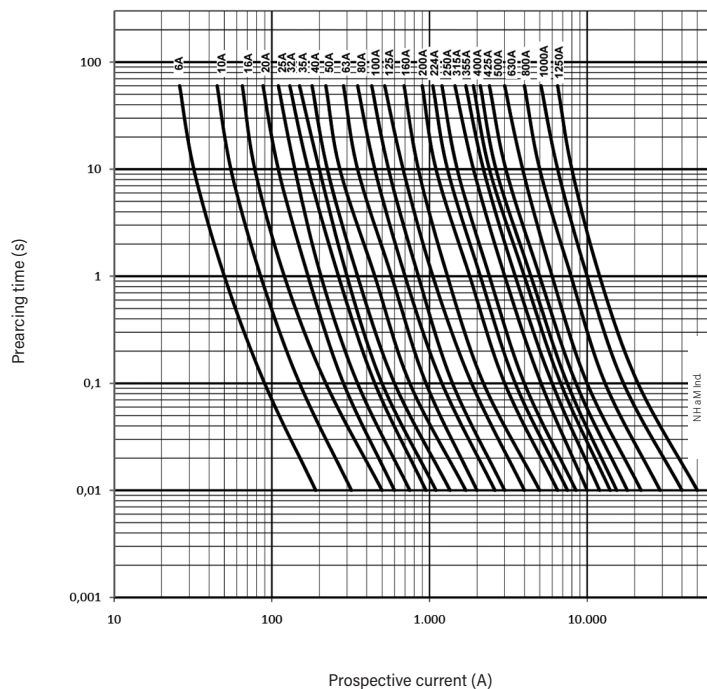
Body	Steatite C221
Contact blades	Copper or brass (silver plated)
Plates	Aluminium
Screws	Zinc plated steel

Power dissipation

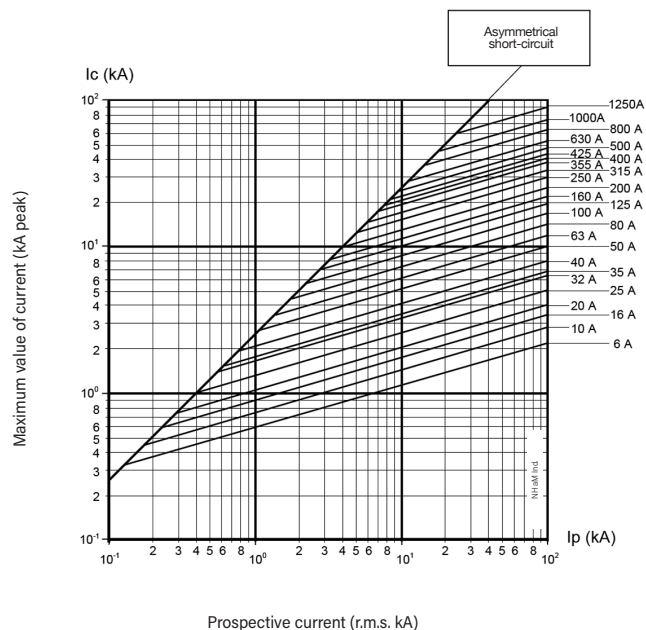
I_n	POWER DISSIPATION	PREARcing I^2t	TOTAL I^2t 230V	TOTAL I^2t 400V	TOTAL I^2t 500V
(A)	(W)	$\approx 4 \text{ ms (A}^2\text{s)}$	(A ² s)	(A ² s)	(A ² s)
50	2,4	9000	18820	22632	32130
63	3,2	16300	33697	40405	57050
80	4,3	19600	40519	48586	68600
100	5,2	36000	74423	89239	126000
125	6,7	53000	99787	116890	157872
160	9,0	82000	154388	180848	244255



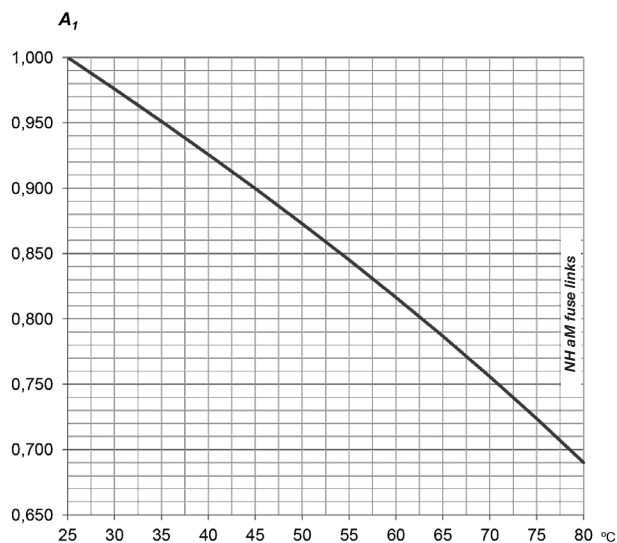
t-I characteristics



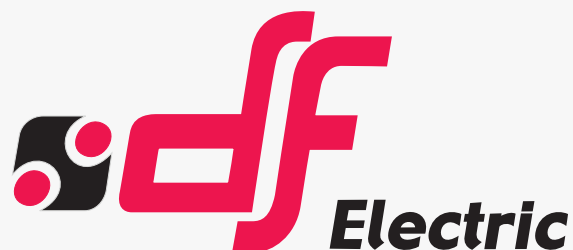
Cut-off characteristics



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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HEAD OFFICE AND FACTORY

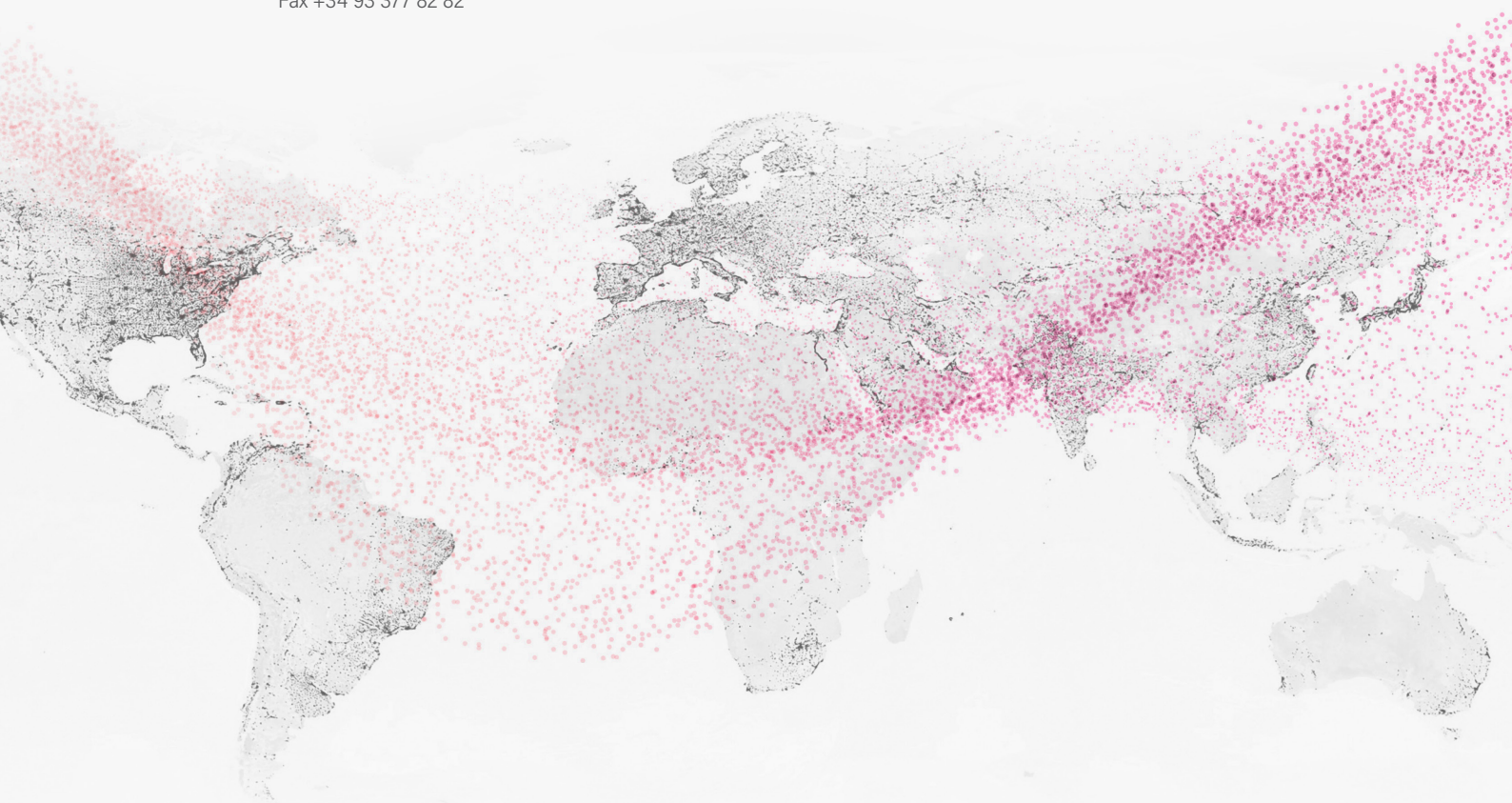
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The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.



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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