







250 A V~ 120 KA ECEN 60060 30 1270 CE

NH1



dfelectric.es







NH KNIFE-BLADE



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:

- \rightarrow Size NHC1 gG 500V 50A to 160A
- \rightarrow Size NH1 gG 500V 200A to 355A

ightarrow Size NH1 with striker gG 500V 63A to 355A

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.



	In (A)	REFERENCE	Uni /BOX
	63	395235	3/30
	80	395240	3/30
	100	395245	3/30
	125	395250	3/30
NH1 WITH STRIKER	160	395255	3/30
	200	395260	3/30
	250	395270	3/30
	315*	395280	3/30
	355*	395285	3/30
* Overrating fuse links			

DACKING

NH1 NHC1

rated voltage 500V

rated current 50A...355A

breaking capacity 120kA

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



Range

	In (A)	REFERENCE	PACKING Uni /BOX
	50	381230	3/30
	63	381235	3/30
NHC1	80	381240	3/30
NHCI	100	381245	3/30
	125	381250	3/30
	160	381255	3/30
	200	381260	3/30
	224	381265	3/30
NH1	250	381270	3/30
	315*	381280	3/30
	355*	381285	3/30

* Overrating fuse links



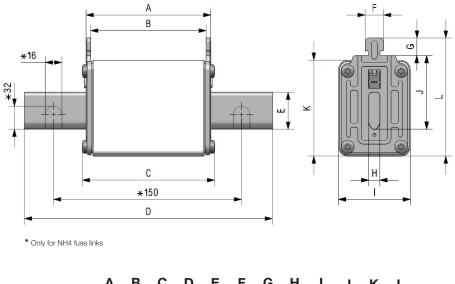




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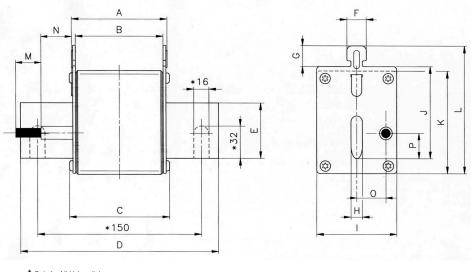
NH KNIFE-BLADE

Dimensions



	Α	В	С	D	Е	F	G	н	I	J	Κ	L
NHC1	68	62	70,5	135	15	10	9,5	6	29	40	47	64
NH1	68	62	71,5	135	20	10	9,5	6	39	40	52	64

Weight NHC1: 270gr | NH1: 380gr



* Only for NH4 fuse links

Α В С D Е F G Н I Ρ J Κ L Μ Ν 0 68 62 71,5 135 20 10 9,5 6 39 40 52 64 15 28,5 16 14,5

Weight 380gr







Technical data

Rated voltage	500V AC +10%		
Rated current	50A355A		
Rated breaking capacity	120kA		
Utilization category	gG		
Rated frequency	4262Hz		
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 plate	
Plates	Aluminium
Screws	Zinc plated steel

DC Application

RATED CURRENT	MAX DC VOLTAGE	DC BREAKING CAPACITY
50A250A	250V DC	80kA
315A355A	80V DC	80kA

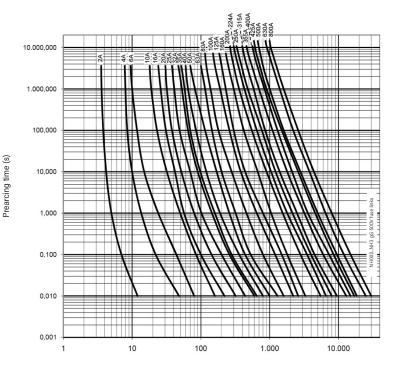
Power dissipation

	In	POWER DISSIPATION	PREARCING I2t	TOTAL I2t 230V	TOTAL I ² t 400V	TOTAL I ² t 500V
	(A)	(VV)	$\approx 4 \text{ ms} (\text{A}^2\text{s})$	(A ² s)	(A ² s)	(A²s)
	50	5,5	5600	11075	14772	17500
	63	6,6	5700	16600	15800	22000
NUC	80	7,7	9838	18600	29823	39350
NHC1	100	8,5	20400	38600	61692	81800
	125	10,9	40500	70900	107301	136895
	160	12,6	78400	137000	207711	265000
	200	17,0	98100	159600	228666	282540
	224	17,5	138300	225000	322455	398400
NH1	250	20,2	169000	274700	393447	486000
	315	27,4	236700	435300	682917	890000
	355	35,8	290960	535100	839445	1094000

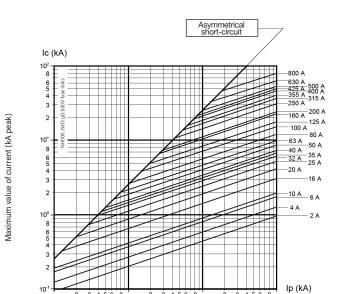
* Same data for STRIKER range (63A up to 355A)



t-I characteristics



Prospective current (r.m.s. A)



Cut-off characteristics

Prospective current (r.m.s. A)

2 3 4 5 6 8 101

2 3 4 5 6 8 102

3 4 5 6 8 100

10

A₁

1,00

0,98

0,95

0,93

0,90

0,87

0,84

0,82

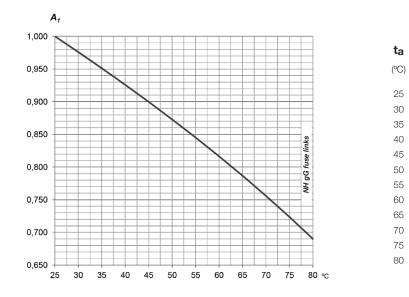
0,79

0,76

0,72

0,69

Ambient temperature derating factor



NH1 gG 500V fuse link Ed 02 2020.02.25





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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