

# NH KNIFE-BLADE



aM NH 500V/690V fuse links





































RATED VOLTAGE 690V AC 500V AC

RATED CURRENT 63A...250A

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  $\rm l^2t$  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 NHC1 aM 690V 63A to 100A
- → Size NH1 gG 500V/690V 125A to 250A
- → Size NH1 with striker aM 500V/690V 80A to 250A

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

	Un	BREAKING CAPACITY	In	REFERENCE	PACKING
			(A)		Uni /BOX
			63	384235	3/30
NHC1	690V	80kA	80	384240	3/30
			100	384245	3/30
			125	384250	3/30
	690V	80kA	160	384255	3/30
NH1		-	200	384260	3/30
	500V	120kA -	224	383265	3/30
			250	383270	3/30

	Un	BREAKING CAPACITY	In	REFERENCE	PACKING
			(A)		Uni /BOX
			80	398240	3/30
			100	398245	3/30
NH1 WITH	690V	80kA	125	398250	3/30
STRIKER			160	398255	3/30
			200	398260	3/30
	500V	120kA	250	397270	3/30

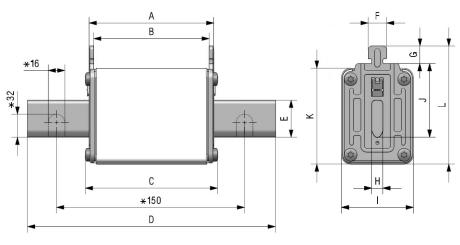








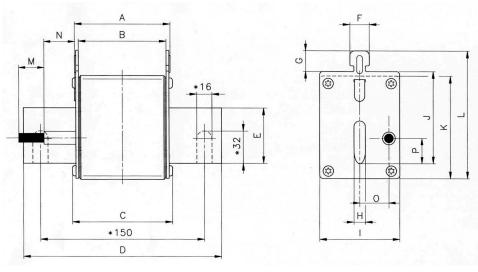
### **Dimensions**



\* Only for NH4 fuse links

Α В C D Ε G Н Κ L NHC1 6 40 47 64 68 62 70,5 135 15 10 9,5 29 NH1 6 68 62 71,5 135 20 10 9,5 40 52 64

Weight NHC1: 270gr | NH1: 380gr



<sup>\*</sup> Only for NH4 fuse links

**A B C D E F G H I J K L M N O P** 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	690V +5% 500V +10%
Rated current	63A250A
Rated breaking capacity	80kA @690V 120kA @500V
Operating class	аМ
Rated frequency	4262Hz
Storage temperature	-40°C 90°C
Operating temperature *	-40°C 80°C

<sup>\*</sup> 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		

## **Power dissipation**

	In	POWER DISSIPATION	PREARCING I2t	TOTAL I2t 230V	TOTAL I2t 400V	TOTAL I2t 500V
	(A)	(VV)	$\approx$ 4 ms (A <sup>2</sup> s)	$(A^2s)$	(A <sup>2</sup> s)	(A <sup>2</sup> s)
	63	4,1	16300	33697	40405	57050
NHC1	80	5,1	19600	40519	48586	68600
	100	6,8	36000	74423	89239	126000
	125	8,7	53000	99787	116890	157872
	160	9,7	82000	154388	180848	244255
NH1	200	13,8	167000	314425	368313	497447
	224	14,6	240000	451868	529312	714894
	250	18,1	291000	547890	641790	866809

<sup>\*</sup> Same data for STRIKER range (80A up to 250A)



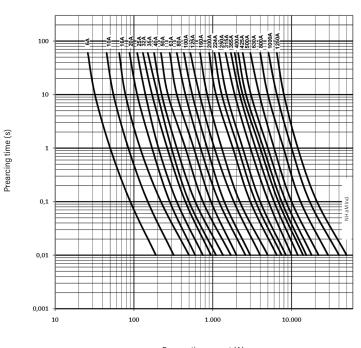


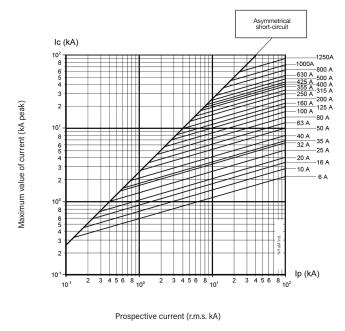




#### t-I characteristics

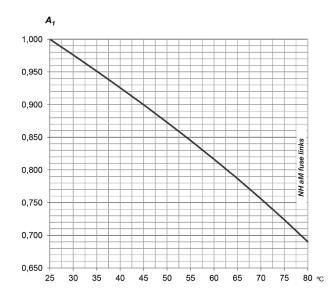
### **Cut-off characteristics**





Prospective current (A)

## **Ambient temperature derating factor**



ta	<b>A</b> 1
(°C)	
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

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To prevent electrical hazards, carry out the installation without voltage.



Safety notice
Please capture the following QR code
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