

NH KNIFE-BLADE

FLISE LINKS & FLISE BASES



aM NH 500V/690V fuse links























PROTECTING THE WORLD





aM NH 500V/690V









RATED VOLTAGE 690V AC 500V AC

RATED CURRENT 315A...630A

80kA @ 690V 120kA ^{@ 500V}

STANDARDSIEC/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 NHC3 aM 690V 315A and 355A
- → Size NH3 aM 500V/690V 400A to 630A
- → Size NH3 with striker aM 500V/690V 400A to 630A

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
NHC2	690V	80kA -	315	384445	3/18
NHC3	6907	8UKA -	355	384450	3/18
			400	384455	3/18
NH3	690V	80kA	425	384455	3/18
NH3			500	384465	3/18
	500V	120kA	630	383470	3/18

Un	BREAKING CAPACITY	In	REFERENCE	PACKING
		(A)		Uni /BOX
		400	398455	3/18
690V	80kA	425	398460	3/18
		500	398465	3/18
500V	120kA	630	397470	3/18
	690V	On CAPACITY 690V 80kA	On CAPACITY In (A) 690V 80kA 425 500	Un CAPACITY In REFERENCE (A) (A) 690V 80kA 400 398455 425 398460 500 398465

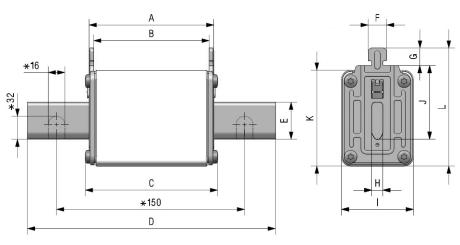








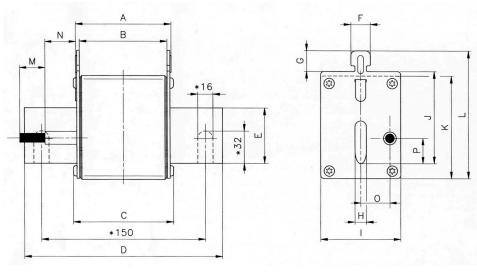
Dimensions



^{*} Only for NH4 fuse links

C Α В D Ε G Н Κ L NHC3 60 84 68 10 9,5 6 60 62 71,5 150 25 53 NH3 6 68 62 10 9,5 70 60 75 87 73 150 32

Weight NHC3: 630gr | NH3: 1,02kg



* Only for NH4 fuse links

C D Ε G Н Ρ 0 62 73 150 32 10 9,5 6 60 75 15 28 70 87 24 14,5

Weight 1,02kg









Technical data

Rated voltage	690V +5% 500V +10%		
Rated current	315A630A		
Rated breaking capacity	80kA @690V 120kA @500V		
Utilization category	аМ		
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 plated)		
Plates	Aluminium		
Screws	Zinc plated steel		

Power dissipation

	In	POWER DISSIPATION	PREARCING I2t	TOTAL I2t 230V	TOTAL I2t 400V	TOTAL I2t 500V
	(A)	(W)	$\approx 4 \text{ ms } (A^2 \text{s})$	(A ² s)	(A ² s)	(A ² s)
NHC3	315	20,5	463000	871728	1021130	1379149
	355	24,1	470000	884908	1036568	1400000
NH3	400	25,5	502000	1080129	1308183	1882500
	425	28,5	582000	1252261	1516658	2182500
	500	34,5	760000	1635254	1980516	2850000
	630	45,9	1423000	3061799	3708255	5336250

^{*} Same data for STRIKER range (400A up to 630A)



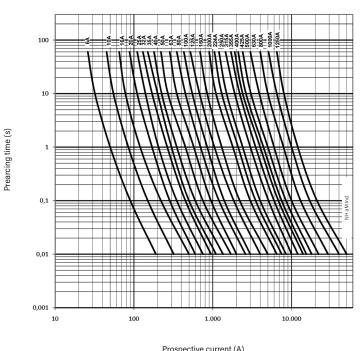


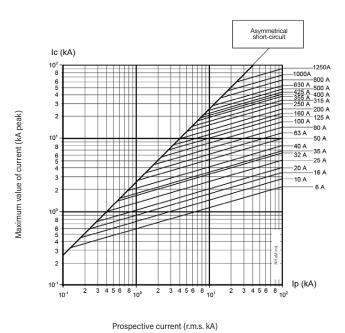




t-I characteristics

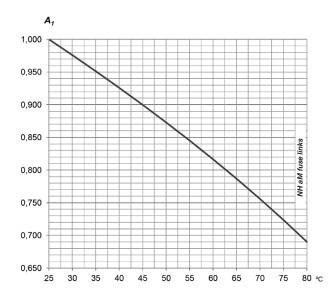
Cut-off characteristics





Prospective current (A)

Ambient temperature derating factor



ta	A 1
ча	Λ1
(°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

HEAD OFFICE AND FACTORY

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According to the waste of electrical and electronic equipment directive, electrical material should not be part of the usual waste. This symbol alerts users that these products should be recycled according to local environmental waste disposal regulations.



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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