

NH KNIFE-BLADE

FUSE LINKS & FUSE BASES



gG

NH 690V

fuse links



**PROTECTING
THE WORLD**





RATED VOLTAGE
690V

RATED CURRENT
50A...100A

BREAKING CAPACITY
80kA

STANDARDS

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



Knife type NH gG 690V fuse links with top indicator

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 690V (+5%).

The rated breaking capacity is 80kA.

Compact versions in low rated currents of every size.

The range comprises the following fuse links:

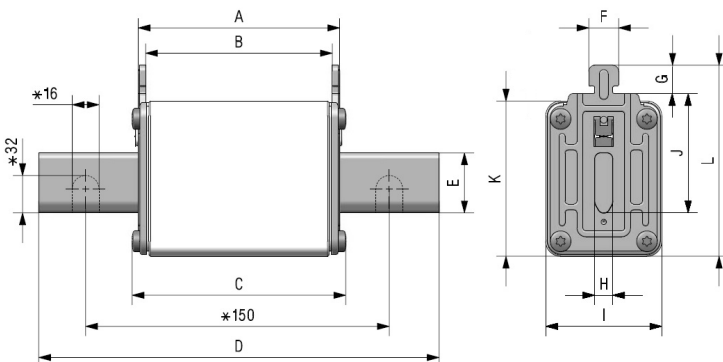
→ Size NH00 gG 690V 50A and 100A

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

I_n (A)	REFERENCE	PACKING Uni /BOX
50	382050	3/60
63	382055	3/60
80	382060	3/60
100	382065	3/60



Technical data

Rated voltage	690V AC +50%
Rated current	50A...100A
Rated breaking capacity	80kA
Utilization category	gG
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.

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

DC Application

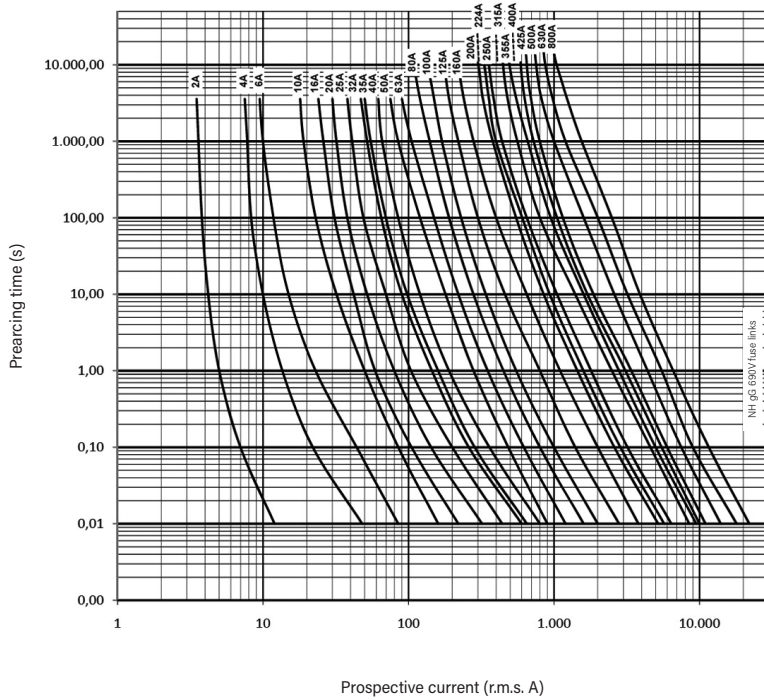
MAX DC VOLTAGE	DC BREAKING CAPACITY
250V DC	25kA

Power dissipation

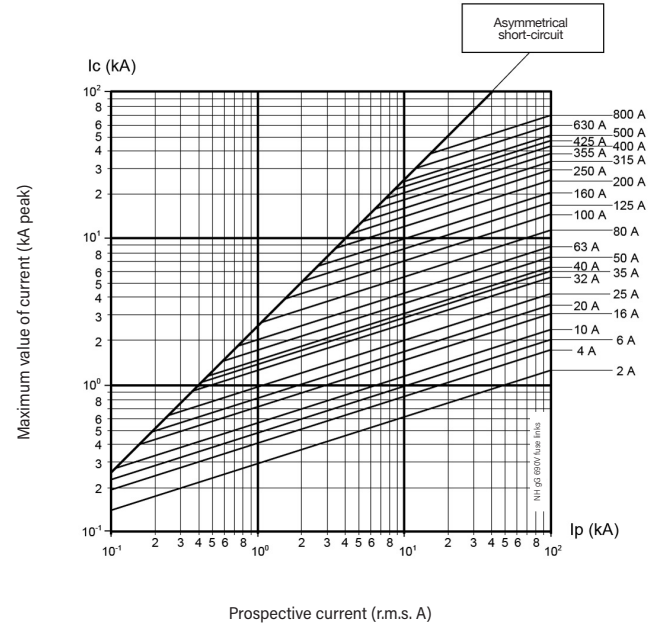
I_n	POWER DISSIPATION	PREARcing I_t^2	TOTAL I_t^2 230V	TOTAL I_t^2 400V	TOTAL I_t^2 500V
(A)	(W)	≈ 4 ms (A ² s)	(A ² s)	(A ² s)	(A ² s)
50	4,7	4800	8574	10310	14630
63	6,1	6600	13805	16602	23571
80	7,0	11700	24472	29430	41786
100	9,0	21000	43925	52824	75000



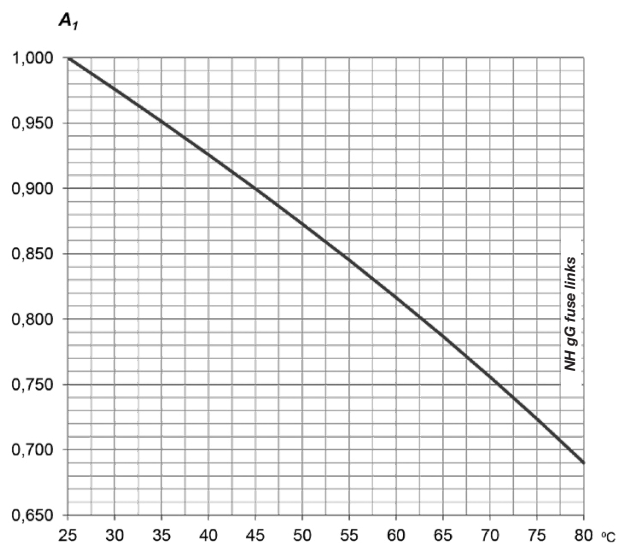
t-I characteristics



Cut-off characteristics



Ambient temperature derating factor



ta (°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