

**HORUS**<sup>®</sup>  
PHOTOVOLTAIC  
PROTECTION



# PHOTOVOLTAIC

FUSE LINKS & FUSE HOLDERS FOR PHOTOVOLTAIC APPLICATIONS

## gG NH 800V AC fuse links



**PROTECTING  
THE WORLD**





RATED VOLTAGE  
800V AC

RATED CURRENT  
200A...400A

BREAKING CAPACITY  
80kA

STANDARDS

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

## NH 800V AC fuse links for output side of photovoltaic inverters

These knife type (NH) fuse links with high breaking capacity are intended for protection of the output side of new generation of photovoltaic inverters, with output voltage of 800V AC.

They are gG class and provide protection against overloads and short-circuits with rated voltages up to 800V +10%. The rated breaking capacity is 80 kA. They have a low values of power dissipations.

The range comprises the following fuse links:

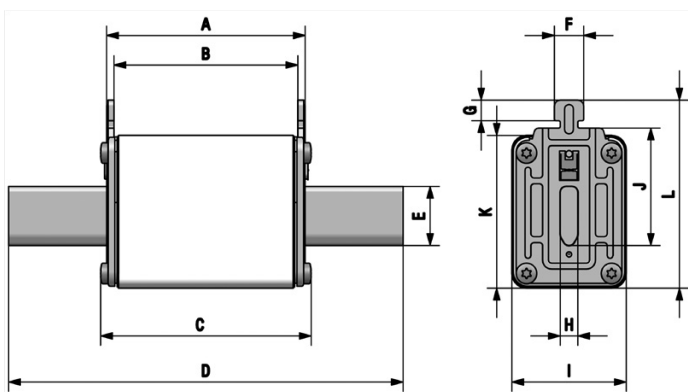
→ Size NH3 800V AC 200A to 400A

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



A	B	C	D	E	F	G	H	I	J	K	L
68	62	73	150	32	10	9,5	6	70	60	75	87

Weight 1,02kg

## Range

$I_n$ (A)	REFERENCE	PACKING Uni /BOX
200	<b>385425</b>	3/18
250	<b>385435</b>	3/18
315	<b>385445</b>	3/18
355	<b>385450</b>	3/18
400	<b>385455</b>	3/18



## Technical data

Rated voltage	800V AC +10%
Rated current	200A...400A
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



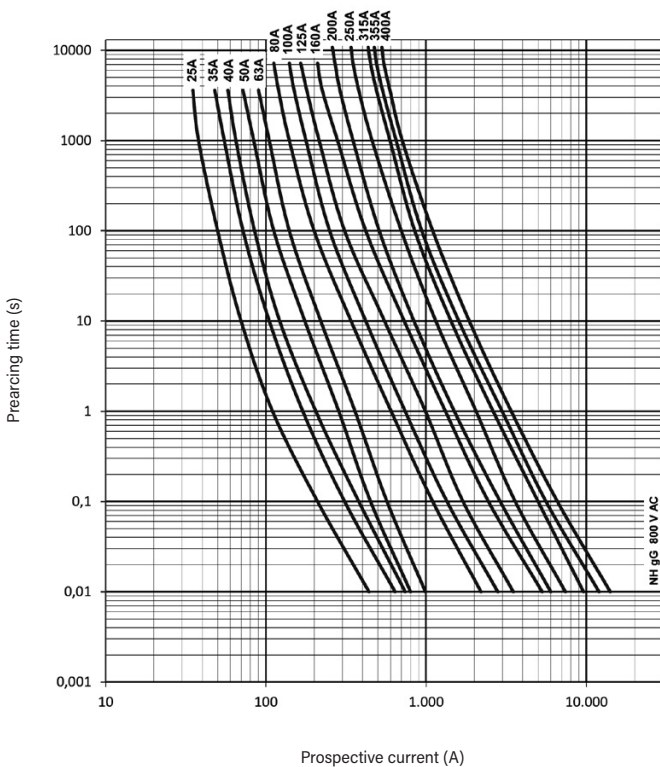
## Power dissipation

$I_n$ (A)	PREARCING $I_t^2$ (A <sup>2</sup> S)	OPERATING $I_t^2$ (A <sup>2</sup> S 800V ~)	POWER DISSIPATION (W)
200	140150	245000	21
250	241500	422000	25
315	395000	698000	34,5
355	539000	1230000	37
400	760000	1734000	43

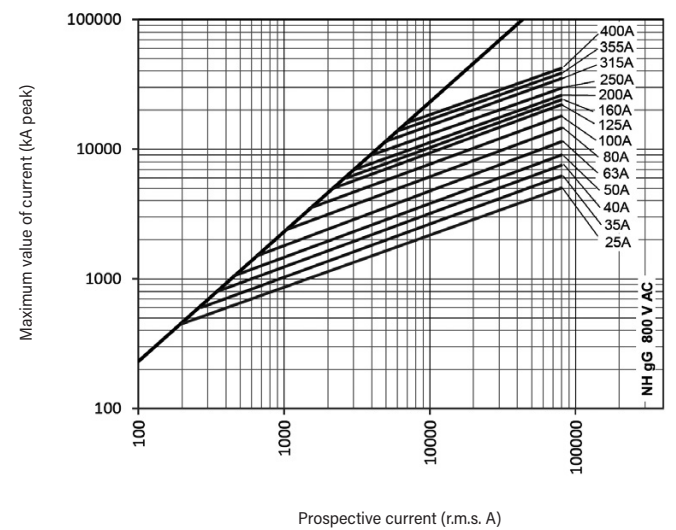
## Materials

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

## t-I characteristics

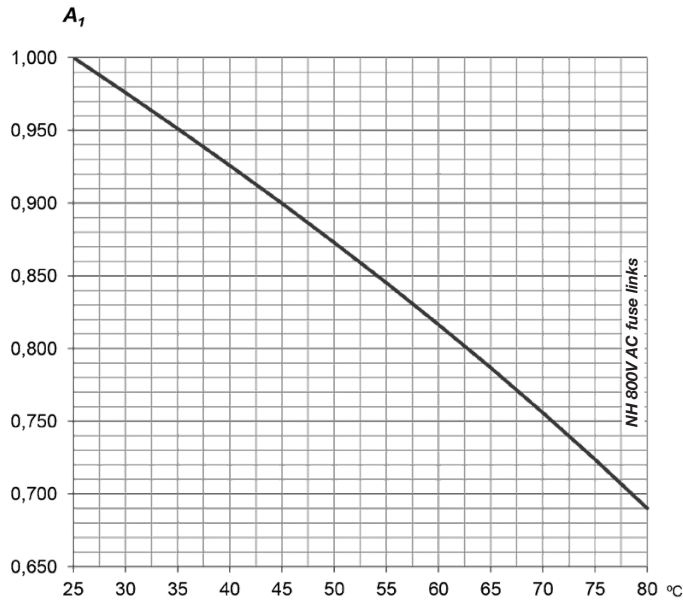


## Cut-off characteristics





# 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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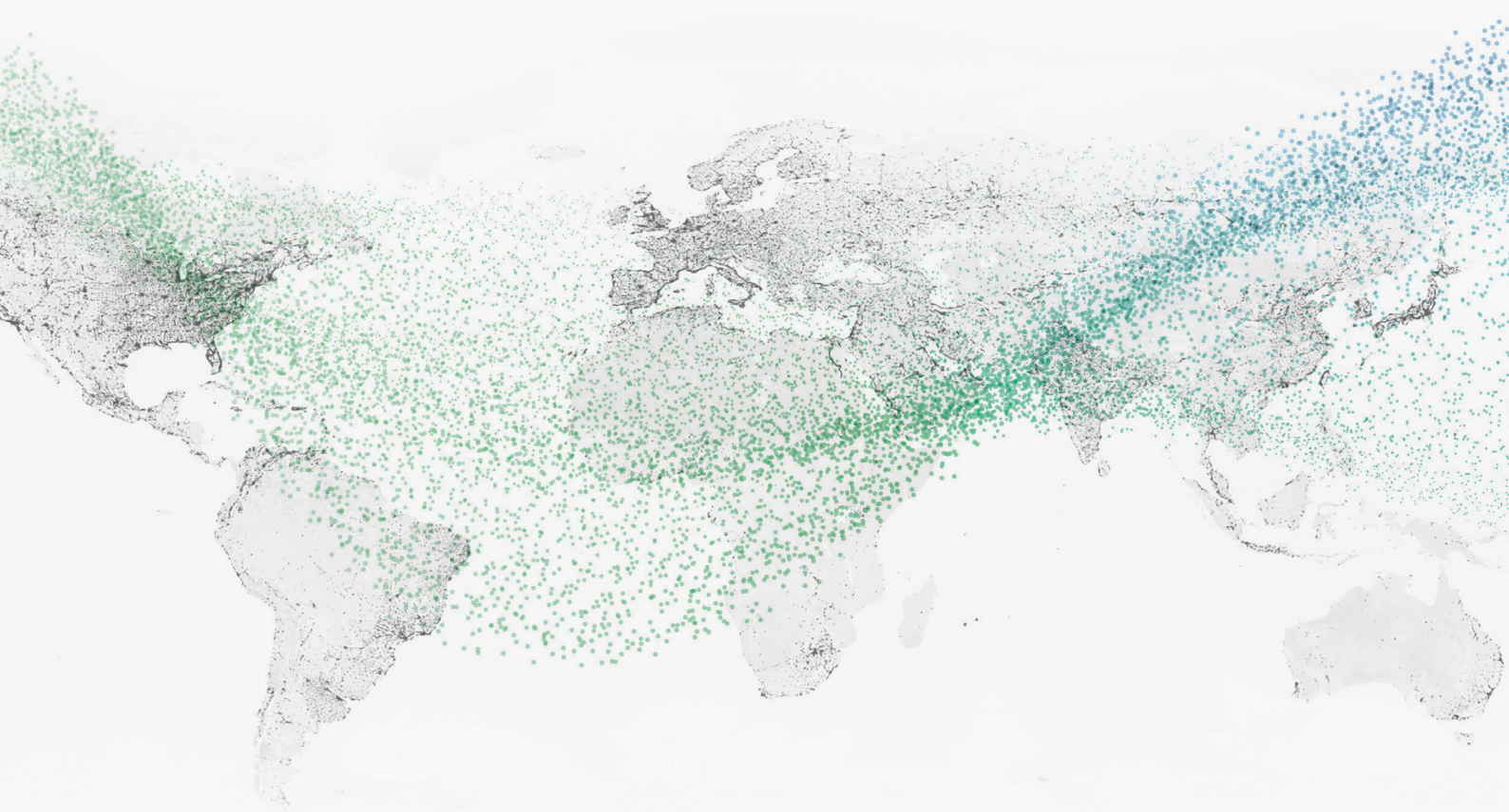
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The data reflected in this technical record are subject to the correct installation of the product in accordance with manufacturer's instructions, relevant installation standards and professional practices, maintained and used in applications for which 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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