

RAPIDPLUS

Rapidplus®



GS NH 800V semiconductor protection fuse links











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RATED VOLTAGE 800V AC

RATED CURRENT 100A...200A

BREAKING CAPACITY 120kA

IEC/EN 60269-1 IEC/EN 60269-4



Rapidplus® NH fuse links for semiconductors

RAPIDPLUS NH gS fuse links are capable to clearing all types of overcurrents, overloads as well as shortcircuits, thus the fuse links protect semiconductors as well as cables and all switchgear of installation.

They are optimized to have reduced power dissipations that allow the utilization of a wide range of fuse bases, disconnectors and fuse-switch diconnectors.

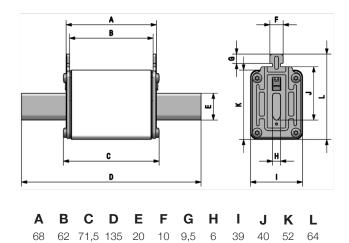
The range comprises the following fuse links:

→ Size NH1 800V AC 100A to 200A

Typical application comprise protection of semiconductors (diodes, thyristors, triacs, etc) used in power rectifiers, UPS, converters, motor drives (AC and DC), soft starters, solid state relays, photovoltaic inverters, welding inverters and any application where it is necessary to protect semiconductor devices.



Dimensions



Weight 380gr

Range

In (A)	REFERENCE	PACKING Uni /BOX
100	369245	3/30
125	369250	3/30
160	369255	3/30
200	369260	3/30





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Technical data

Rated voltage	800V AC +10%	
Rated current	100A 200A	
Rated breaking capacity	120kA	
Utilization category	gS	
Rated frequency	42Hz 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 60269-4 RoHS Compliant



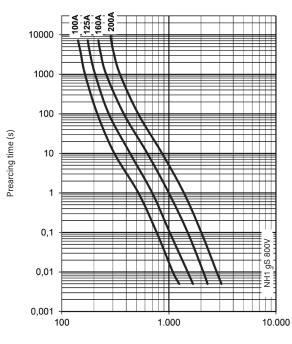
Materials

Body	Ceramic - Steatite C221	
Contact blades	Silver plated copper or brass	
Plates	Aluminium	
Screws	Zinc plated steel	

Power dissipation

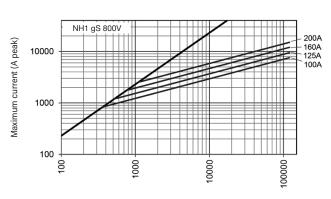
In	POWER DISSIPATION In	POWER DISSIPATION 0,8 · In	PREARCING I2t	OPERATING I ² t @ 800V
(A)	(VV)	(A ² S)	(A ² S)	(A ² S)
100	14,5	8,5	2300	7900
125	16	9,4	4600	15400
160	18,5	10,8	9400	31500
200	20,5	12	18400	61800

t-I characteristics



Prospective current (A rms)

Cut-off characteristics



Prospective current (r.m.s. A)

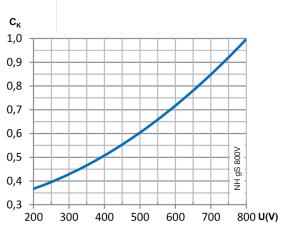




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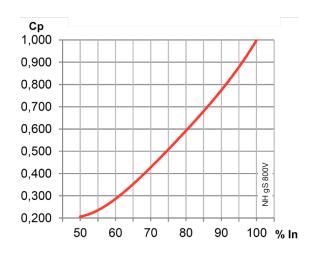




I²t Correction factor

The total clearing I²t at rated voltage and at power factor of 0,15 are given in the electrical characteristics.

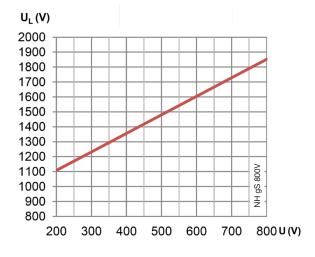
For other voltages, the clearing I²t is found by multipliying by correction factor, K.



Correction factor for power loss

Watts loss at rated current are given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated value.

The correction factor Cp, is given as a function of the RMS load current Ib in % of the rated current.



Peak arc voltage

This curve gives the peak arc voltage, U_L , wich may appear across the fuse during its operation as a function of the applied working voltage, Eg (RMS) at a power factor of 0,15.







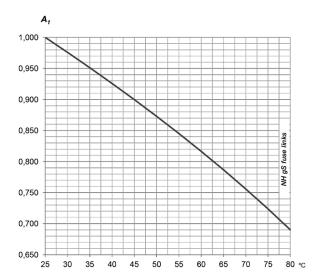
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Ambient temperature correction coefficient

Fuse current ratings are established by type tests with an ambient temperature of 25°C. When the utilization ambient temperature is higher than this reference value, the fuse-link must be "de-rated". The rated current of fuse link must be multiplied by a derating factor ${\bf A_1}$ to find the maximum operating current.





PROTECTING THE WORLD

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.



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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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