df Electric

RAPIDPLUS

HIGH SPEED FUSE LINKS FOR SEMICONDUCTORS

Rapidplus®

gS
NH 690V

semiconductor protection
fuse links

NH NH000

NH000 NH00 NH1 NH2 NH3

PROTECTING
THE WORLD

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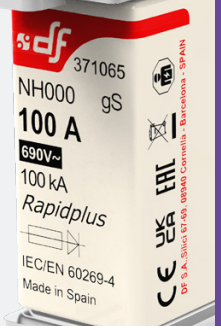

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RAPIDPLUS

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NH000

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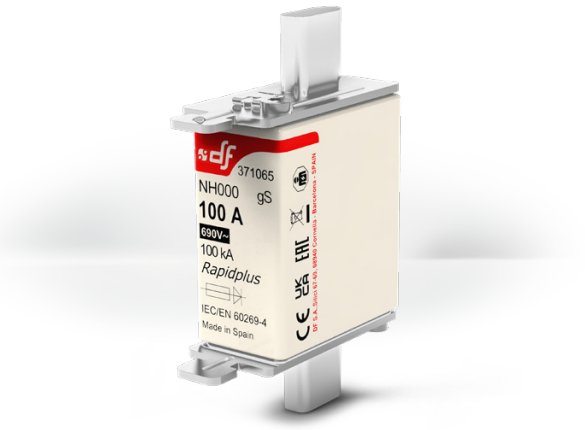
RATED VOLTAGE
690V AC

RATED CURRENT
20A...100A

BREAKING CAPACITY
100kA

STANDARDS
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 switches.

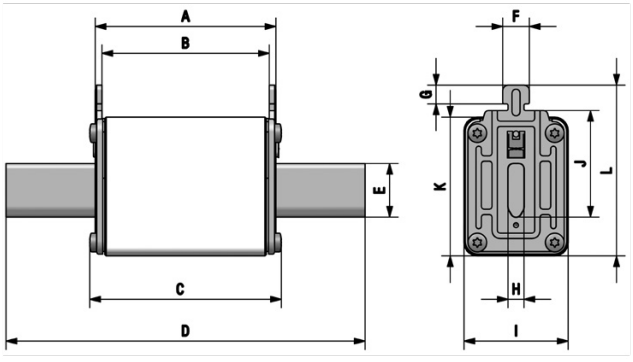
The range comprises the following fuse links:

→ **Size NH000 690V AC 20A to 100A**

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.

RoHS COMPLIANT

Dimensions

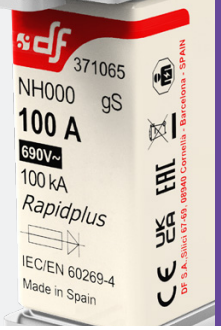


A	B	C	D	E	F	G	H	I	J	K	L
49	45	52	78,5	15	10	9,5	6	21	35	40	53

Weight 120gr

Range

In (A)	REFERENCE	PACKING Uni /BOX
20	**371025**	3/90
25	**371030**	3/90
32	**371035**	3/90
40	**371045**	3/90
50	**371050**	3/90
63	**371055**	3/90
80	**371060**	3/90
100	**371065**	3/90



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semiconductor protection fuse links

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Technical data

Rated voltage	690V AC 440V DC (L/R=10ms)
Rated current	20A...100A
Rated breaking capacity	100kA @690V AC 30kA @440V DC
Utilization category	gS
Storage temperature	-40°C ... 80°C
Operating temperature *	-25°C ... 60°C

* For ambient temperatures higher than 25ºC it is necessary to apply a derating in maximum current.

Standards

IEC/EN 60269-1
IEC/EN 60269-4
RoHS Compliant

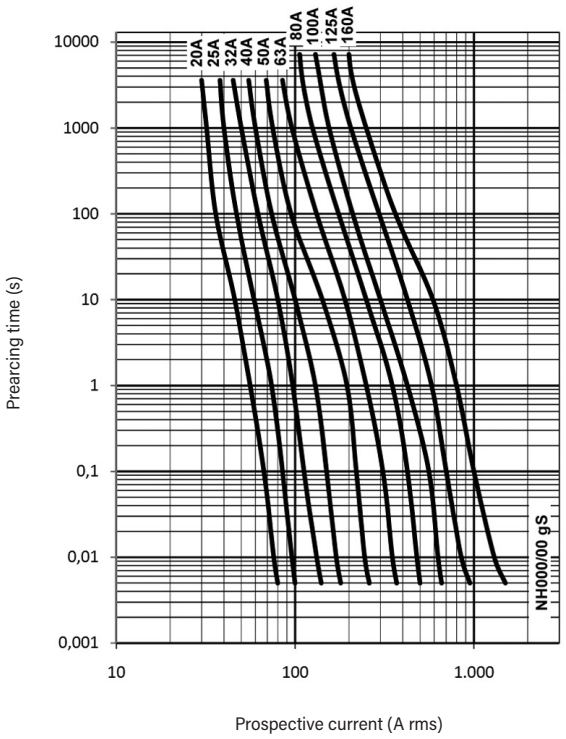
Materials

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

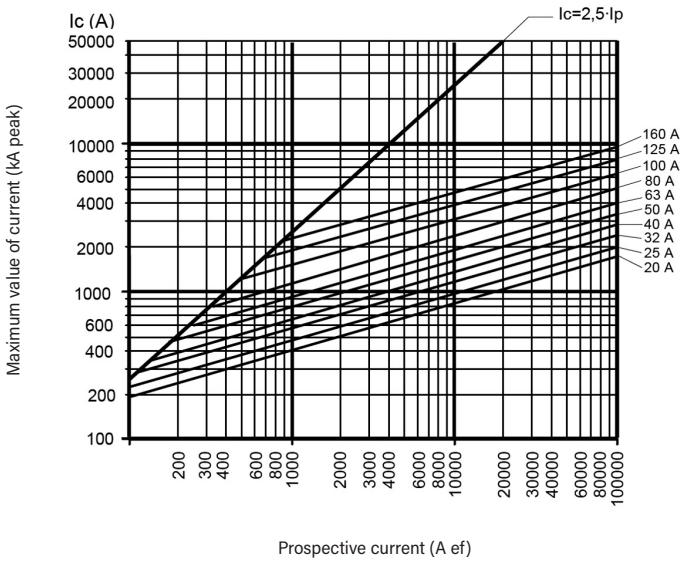
Power dissipation

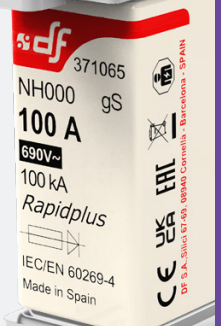
I_n (A)	POWER DISSIPATION In (W)	POWER DISSIPATION 0,8 · In (A^2S)	PREARCING I^2t (A^2S)	OPERATING I^2t (A^2S)
20	5,1	2,9	31	116
25	5,6	3,2	49	181
32	6,6	3,9	96	355
40	7,2	4,2	196	724
50	8,5	5,1	331	1224
63	9,1	5,3	782	2897
80	11	6,3	1420	5270
100	12,5	7,1	2400	8880

t-I characteristics



Cut-off characteristics





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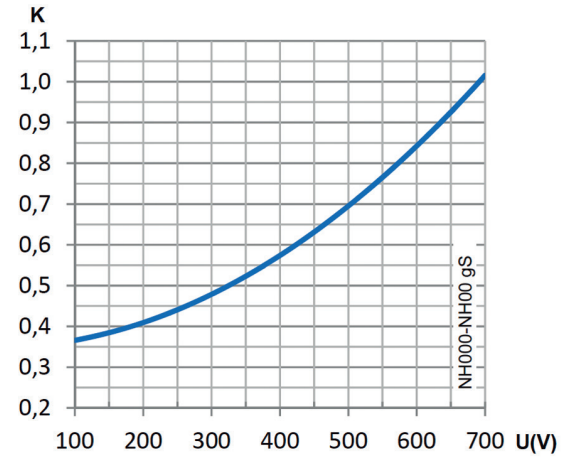
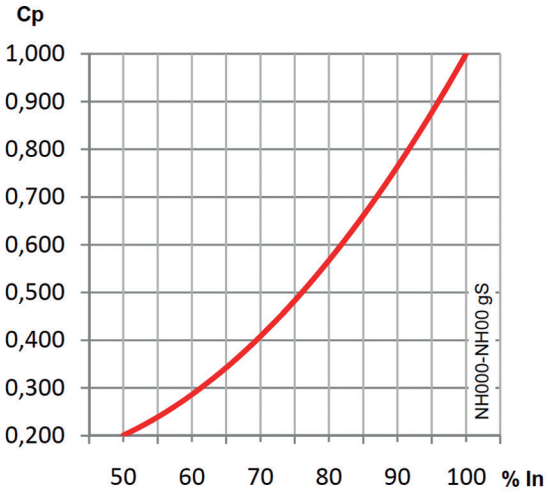


I^2t Correction factor

The total clearing I^2t at rated voltage and at power factor of 0,15 are given in the electrical characteristics.

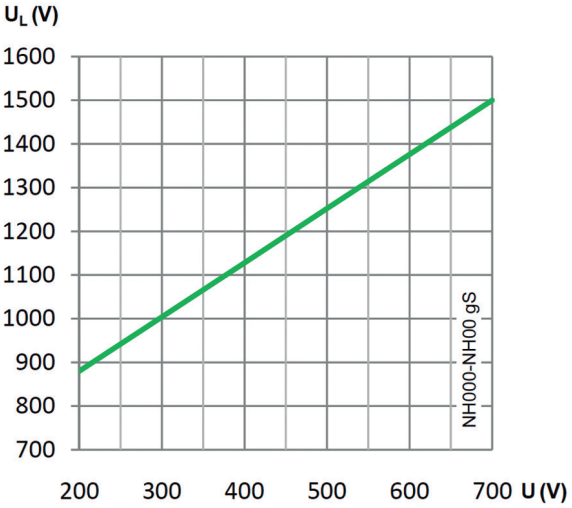
For other voltages, the clearing I^2t is found by multipliying by correction factor, K.



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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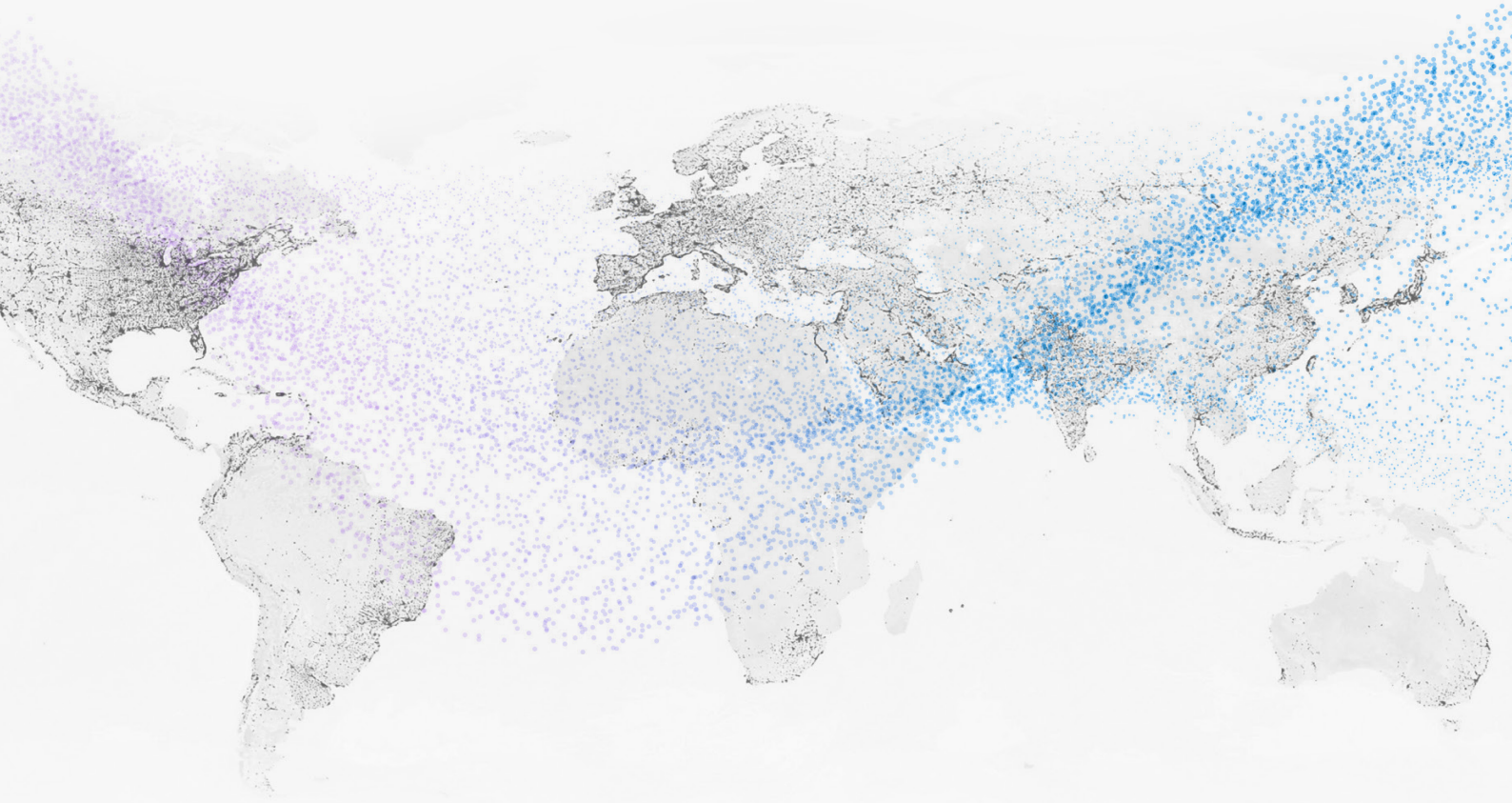

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FABRICADO EN ESPAÑA
MADE IN SPAIN

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.

DF ELECTRIC cannot guarantee the characteristics of an installation, machine or equipment that has been designed by a third party. Once a product has been selected, the user must verify that it is appropriate for its application, through the verifications and/or tests that it deems appropriate.

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