df Electric

RAPIDPLUS

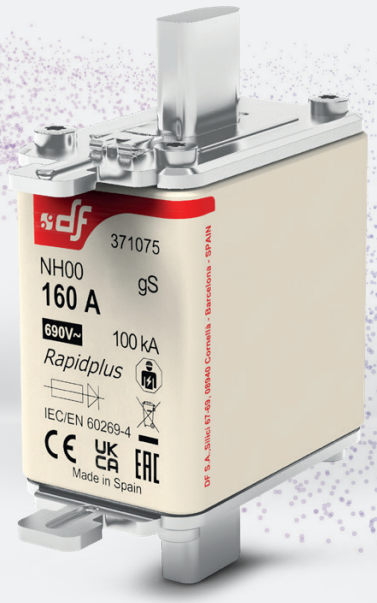
HIGH SPEED FUSE LINKS FOR SEMICONDUCTORS

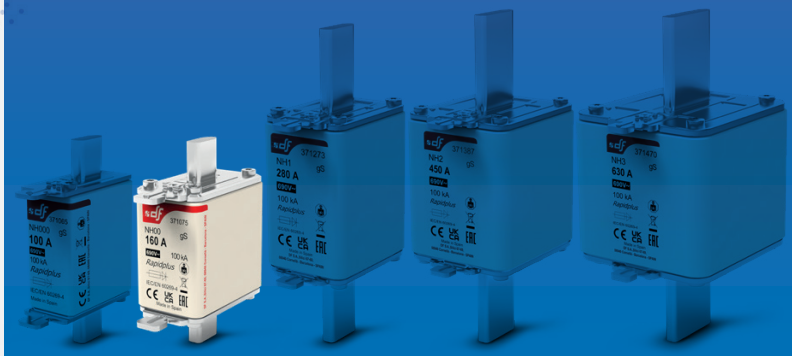
Rapidplus®

gS
NH 690V

semiconductor protection
fuse links

NH NH00





NH000 NH00 NH1 NH2 NH3

PROTECTING
THE WORLD

dfelectric.es

gS
NH 690V
semiconductor protection fuse links

RAPIDPLUS

Rapidplus®

NH00

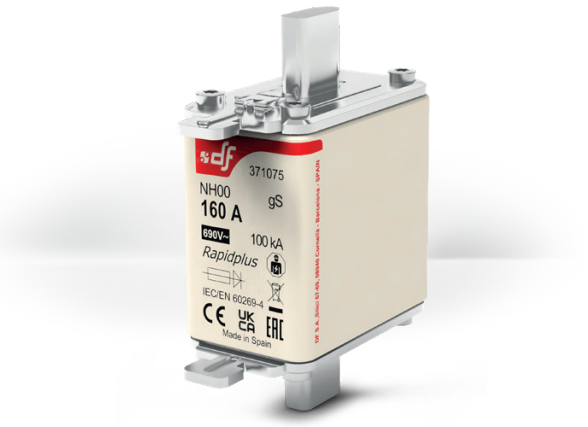
NH00

RATED VOLTAGE
690V AC

RATED CURRENT
125A | 160A

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-switch diconnectors.

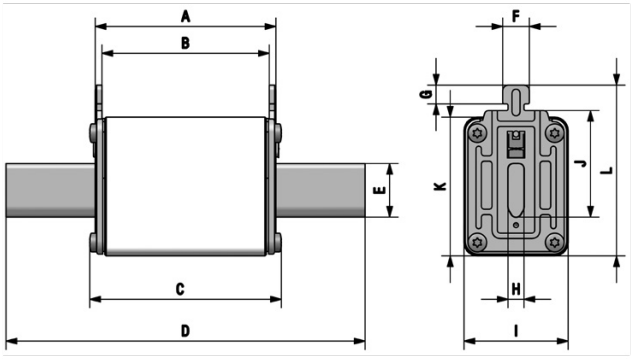
The range comprises the following fuse links:

→ **Size NH00 690V AC 125A and 160A**

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	44	52	78,5	15	10	9,5	6	29	35	47	59

Weight 180gr

Range

In (A)	REFERENCE	PACKING Uni /BOX
125	**371070**	3/60
160	**371075**	3/60

gS
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semiconductor protection fuse links

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NH00

Technical data

Rated voltage	690V AC 440V DC (L/R=10ms)
Rated current	125A | 160A
Rated breaking capacity	100kA
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

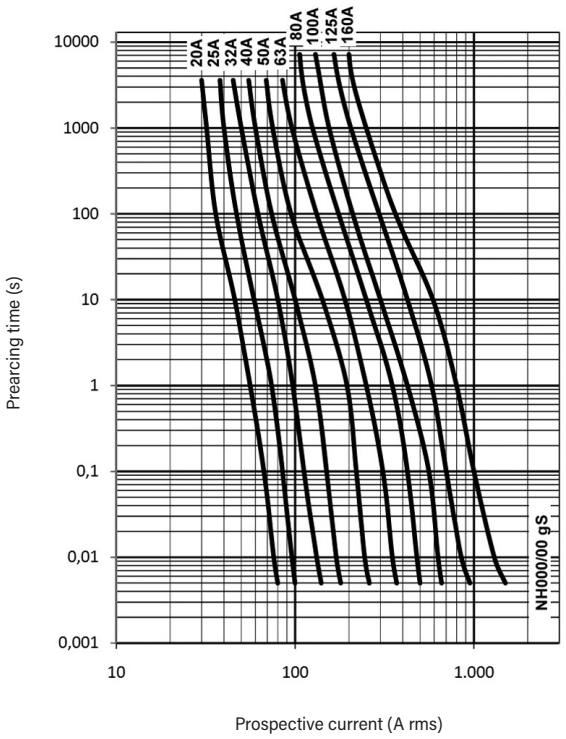
Materials

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

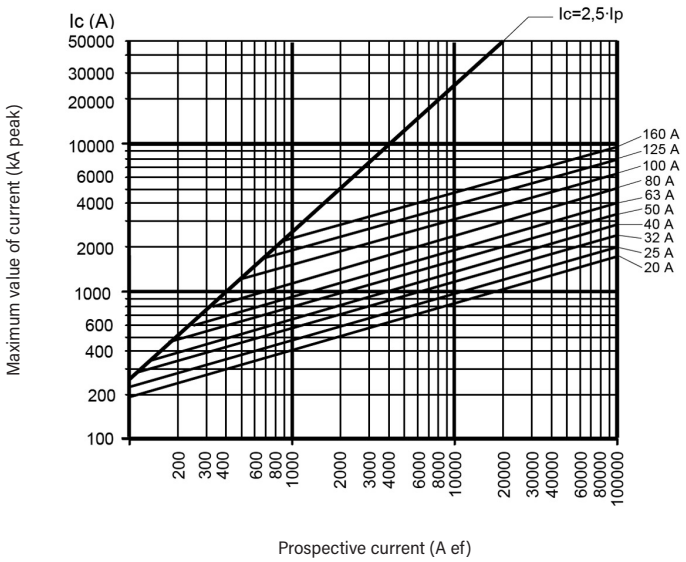
Power dissipation

I_n	POWER DISSIPATION In	POWER DISSIPATION 0,8 · In	PREARCING I^2t	OPERATING I^2t @ 800V
(A)	(W)	(A^2S)	(A^2S)	(A^2S)
125	14,7	8,3	3380	6400
160	18,2	10,5	6400	21840

t-I characteristics



Cut-off characteristics



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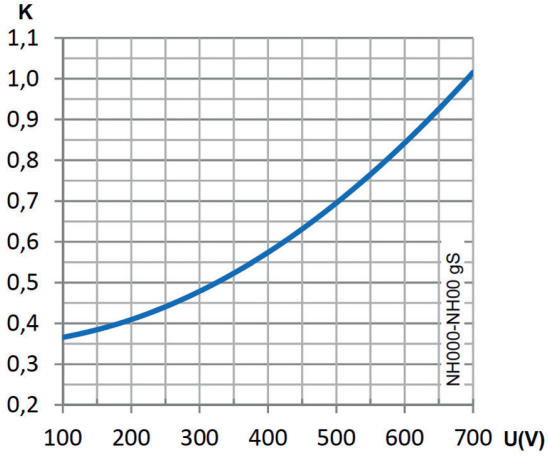
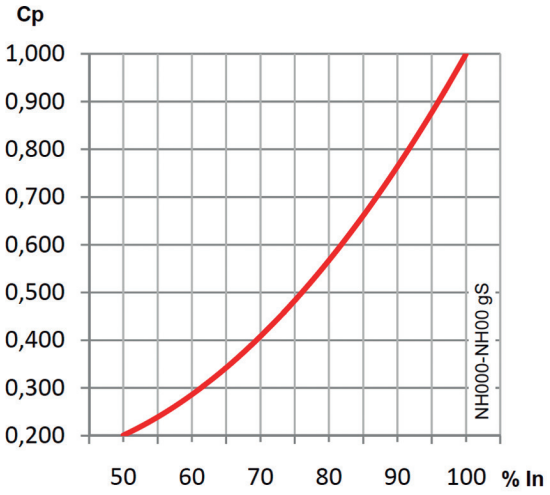


I²t Correction factor

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

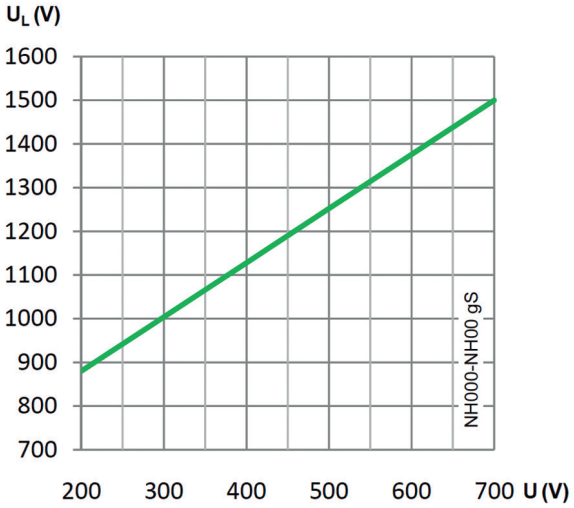
For other voltages, the clearing I²t is found by multipliying by correction factor, K.



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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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.

DF ELECTRIC retains the right to change the dimensions, specifications, materials or design of its products at any time with or without notice.

PROTECTING THE WORLD

FABRICADO EN ESPAÑA
MADE IN SPAIN