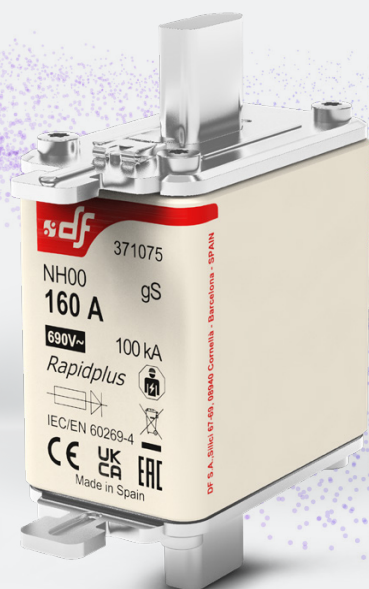


Rapidplus®



RAPIDPLUS

HIGH SPEED FUSE LINKS FOR SEMICONDUCTORS

gS NH 690V

semiconductor protection
fuse links



PROTECTING THE WORLD



RATED VOLTAGE

690V AC

RATED CURRENT

125A | 160A

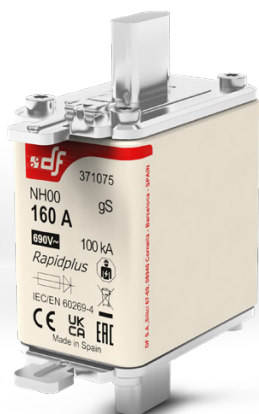
BREAKING CAPACITY

100kA

STANDARDS

IEC/EN 60269-1

IEC/EN 60269-4



Rapidplus® NH fuse links for semiconductors

RAPIDPLUS NH gS fuse links are capable of 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 disconnectors.

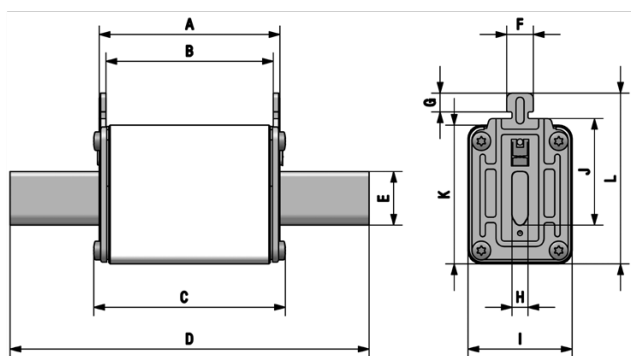
The range comprises the following fuse links:

→ 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.



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

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



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 25°C it is necessary to apply a derating in maximum current.

Standards

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



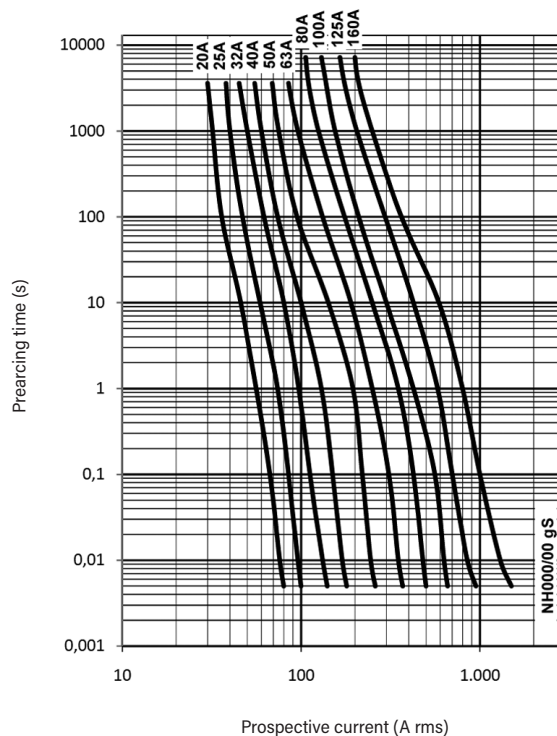
Materials

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

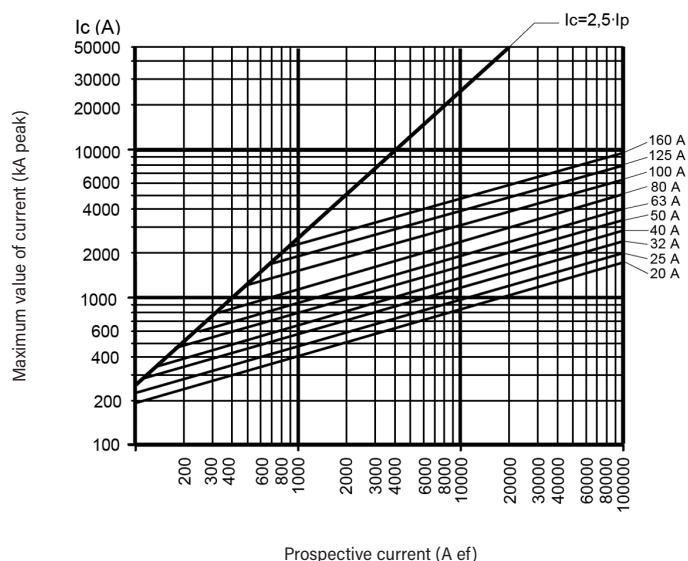
Power dissipation

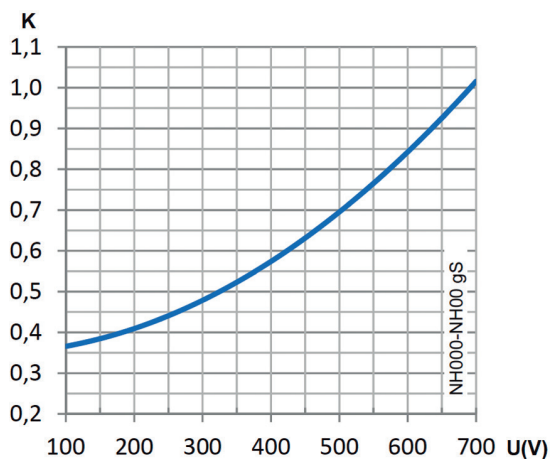
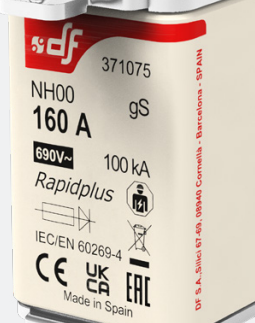
I_n	POWER DISSIPATION I_n	POWER DISSIPATION $0,8 \cdot I_n$	PREARCING I_t^2	OPERATING I_t^2 @ 800V
(A)	(W)	(A²S)	(A²S)	(A²S)
125	14,7	8,3	3380	6400
160	18,2	10,5	6400	21840

t-I characteristics



Cut-off characteristics

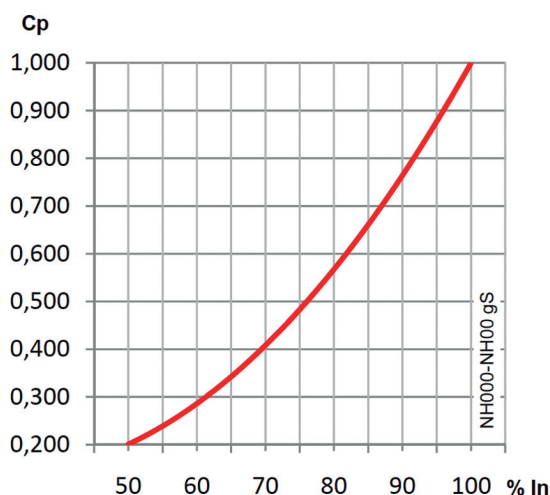




I²t Correction factor

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

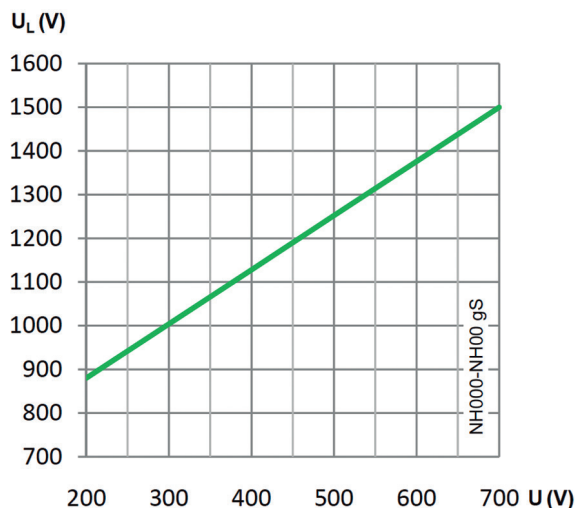
For other voltages, the clearing I²t is found by multiplying by correction factor, K.



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, UL, which 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.



PROTECTING THE WORLD

HEAD OFFICE AND FACTORY

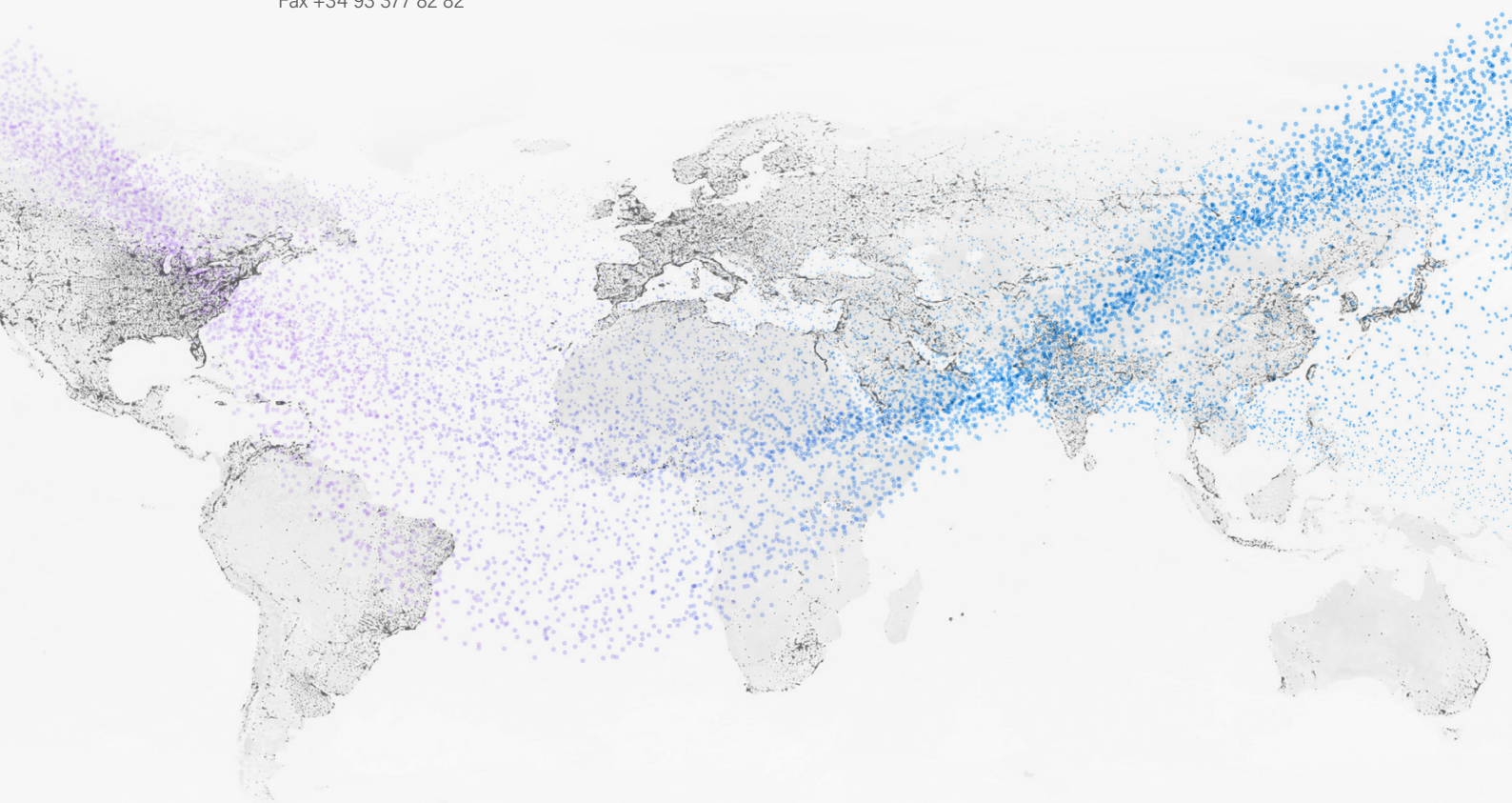
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According to the waste of electrical and electronic equipment directive, electrical material should not be part of the usual waste. This symbol alerts users that these products should be recycled according to local environmental waste disposal regulations.



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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