



## gBat

### NH 1000V DC

fuse links

NH gBat

NH1



NH1



NH3

## PROTECTING THE WORLD



RATED VOLTAGE  
1000V DC

RATED CURRENT  
40A...160A

BREAKING CAPACITY  
100kA

STANDARDS  
IEC/EN 60269-1  
IEC 60269-7 DRAFT



## NH gBat 1000V DC fuse links for battery storage protection

NH gBat fuse links are specially designed to protect battery systems according to the draft of the new Standard IEC60269-7.

NH gBat fuse links are capable of clearing all types of overcurrents, overloads and short-circuits, thus the fuse links protect the batteries as well as cables and all switchgear of installation.

These fuse links are designed and manufactured with the same techniques that semiconductor fuse links, which makes them very fast of operation and gives a good performance under continuous charge/discharge cycles.

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 NH1 gBat 1000V DC 40A to 160A

These fuse links can be used also as a protection in other DC applications, but it is very important to take into account the kind of load and the time-constant of circuit in order to have a correct application (consult us).

They are manufactured according to IEC/EN60269 Standards and comply with RoHS directive.



## Range

$I_n$ (A)	REFERENCE	PACKING Uni /BOX
40	<b>367225</b>	1/30
50	<b>367230</b>	1/30
63	<b>367235</b>	1/30
80	<b>367240</b>	1/30
100	<b>367245</b>	1/30
125	<b>367250</b>	1/30
160	<b>367255</b>	1/30

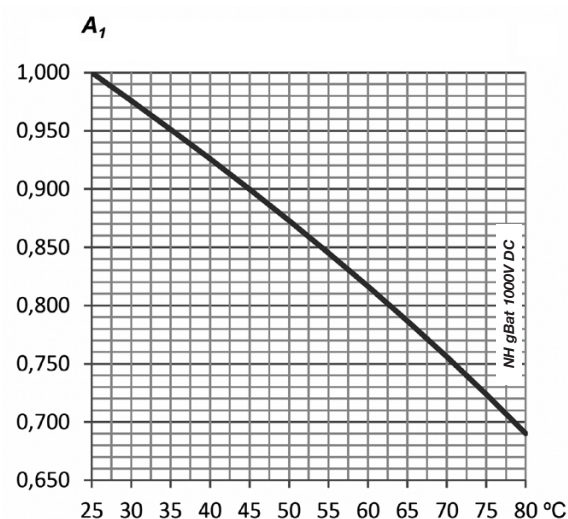


## Technical data

Rated voltage	1000V DC L/R ≤ 3ms
Rated current	40A...160A
Rated breaking capacity	100kA
Utilization category	gBat
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.

## Ambient temperature derating factor



## Materials

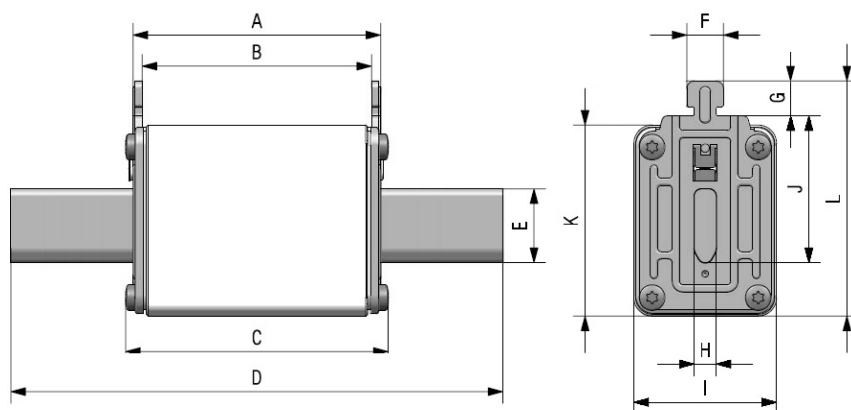
Body	Steatite C221
Contact blades	Copper or brass (silver plated)
Plates	Aluminium
Screws	Zinc plated steel

## Standards

IEC/EN 60269-1  
IEC 60269-7 (draft)  
RoHS Compliant

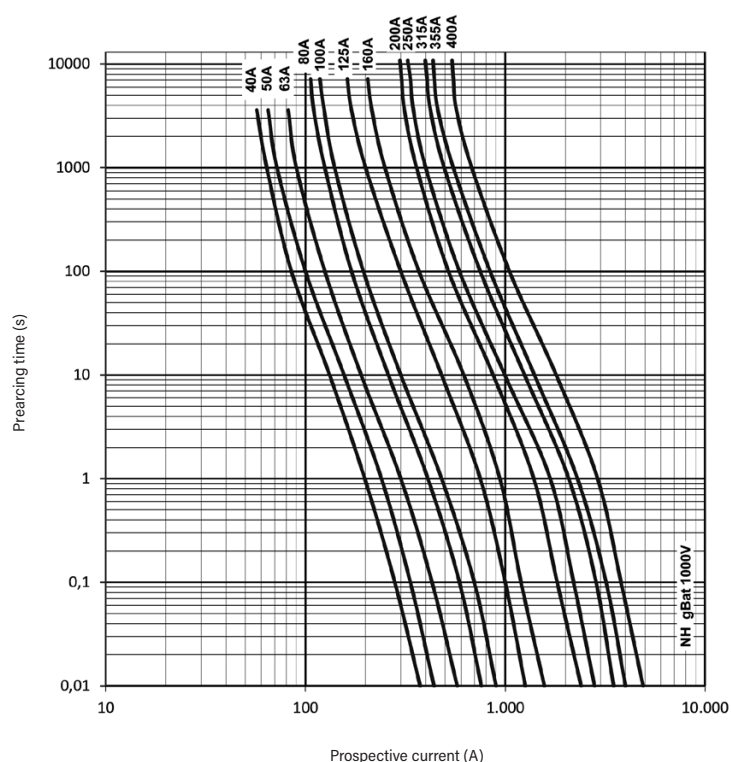


## Dimensions

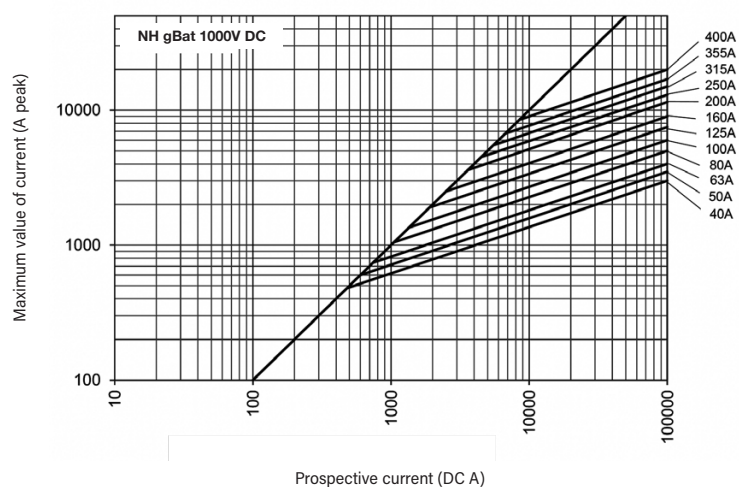


A	B	C	D	E	F	G	H	I	J	K	L	Weight
68	62	71,5	135	20	10	9,5	6	39	40	52	64	380 gr

## t-I characteristics



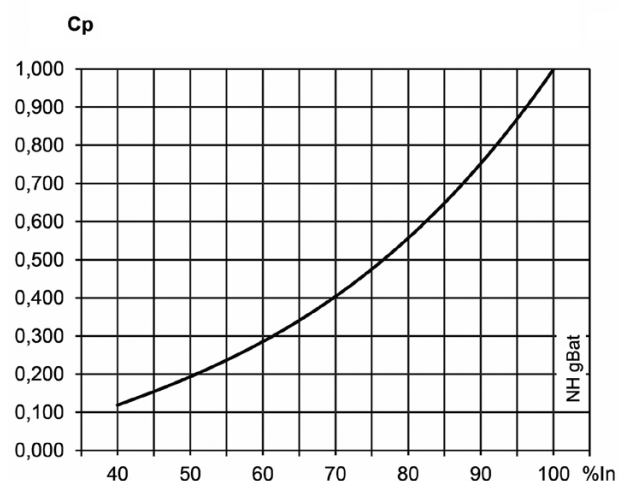
## Cut-off characteristics



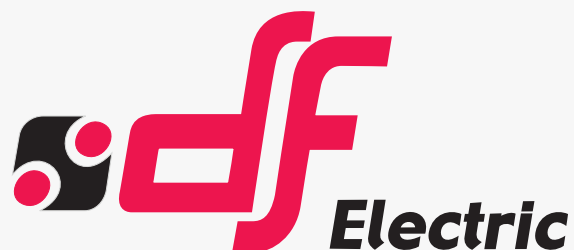
## Power dissipation

RATED CURRENT	POWER LOSS $0,8 \cdot I_n$	POWER LOSS $I_n$	PREARcing $I^2t$	OPERATING $I^2t$ at $U_n$
(A)	(W)	(W)	(A <sup>2</sup> s)	(A <sup>2</sup> s)
40	4	7	340	715
50	4,9	8,6	560	1180
63	6,2	11	995	2100
80	7,4	13	1770	3720
100	9,9	17,8	2770	5820
125	10,2	18	5420	11400
160	12,9	22,9	11070	23260

## Correction factor for power loss







# PROTECTING THE WORLD

## HEAD OFFICE AND FACTORY

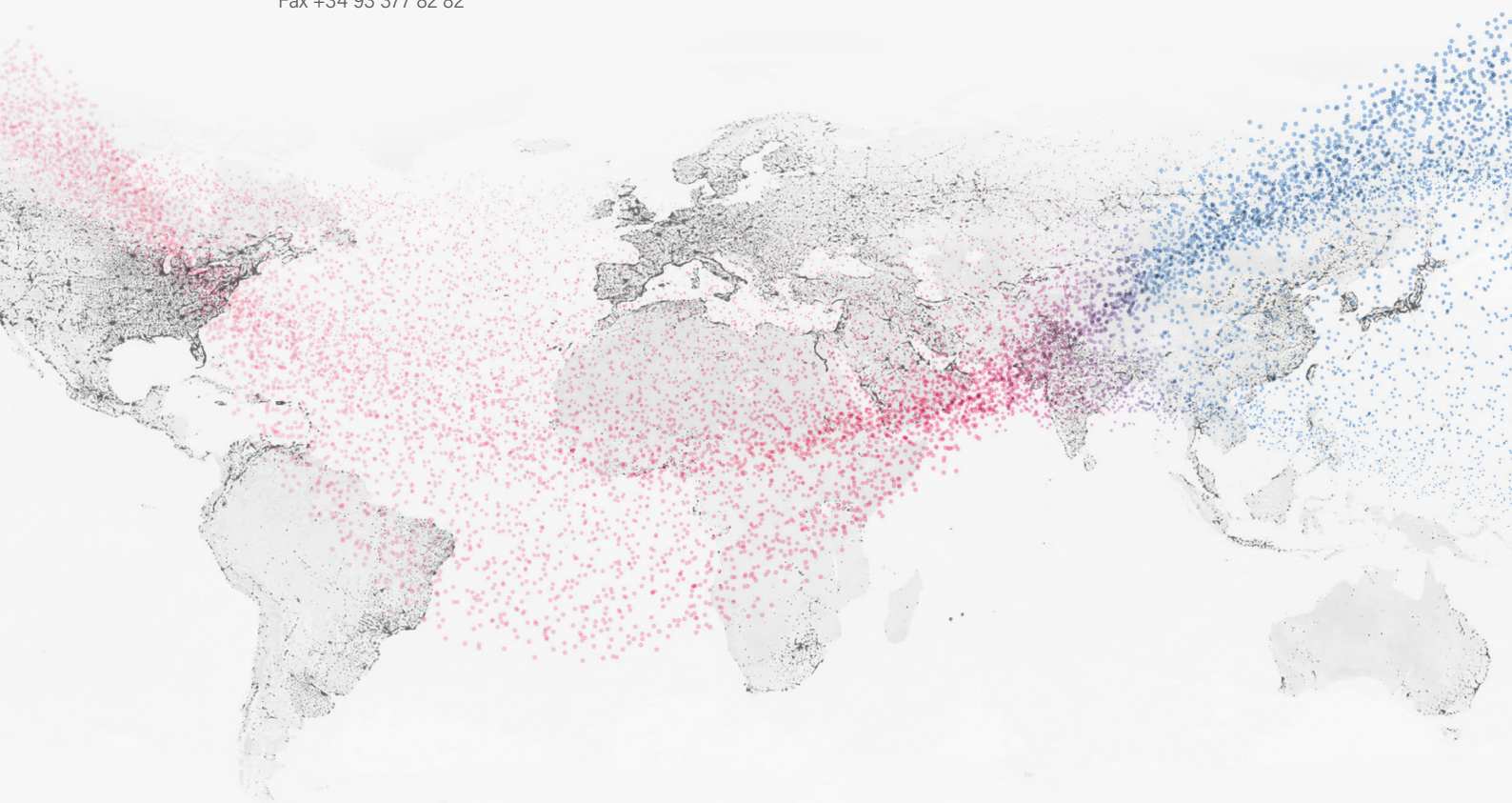
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The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.



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.



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.

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