

Low voltage NH knife-blade fuse-links

NV/NH KOMBI advantages

ETI is introducing a new generation of low-voltage fuse-links from size NV00C up to NV3 with new, dual indication of fuse-link operation, called KOMBI. The indicator is easily visible on the top and centre of the fuse-link, whether it is situated in a standard fuse base or vertical fuse rail or in fuse-switch disconnecter.

The most important advantages of NV/NH KOMBI fuse-links:

- High breaking capacity, 120 kA (400 V gG - except NV00C and NV00CI, and 500 V gG) and 100 kA (400 V gG NV00C and NV00CI, 690 V gG, 400 V gTR, 400 V gF and 690 V aM)
- Rated voltages: 400 V a.c., 500 V a.c., 690 V a.c.
- Two versions of covers: aluminium, when the removal tag is under voltage and plastic, when insulated metal removal tag is incorporated into the plastic cover
- VDE certificates and CCA/CB test reports

General about NV/NH fuse-links

Their dimensions correspond with DIN 43620, other technical characteristics correspond with the requirements of the following standards:

- Rated voltage 400V/500V/690V/gG: IEC 60269-1:2005 / EN 60269-1:1998+A1:2005 IEC 60269-2:1986+Corr.1:1996+A1:1995+A2:2001 / EN 60269-2:1995+A1:1998+A2:2002 IEC 60269-2-1:2004 / HD 60269-2-1:2005
- Rated voltage 690V/aM: VDE 0636-2011
- Rated voltage 400V/gF: PN-IEC 60269-2
- Rated voltage 400V/gTr: VDE 0636-2011

Short description of constituent parts for NV/NH fuse-links

The body of the fuse-link is made of quality steatite which is highly resistant against temperature overloads.

In the inner part of the steatite body there is a copper melting element which is welded on a specially shaped inner part of the contact knife by spot welding. By careful shaping of this part we achieved that during assembly the melting element is placed exactly into the middle of the inner place. The remaining inside place of the ceramic body is filled up with precisely determined granulation and chemical structure quartz sand. All contact knives are additionally protected with a layer of silver or on special order of nickel. On the base of cyclic tests we have proved that the fusing characteristics are very stable and the tolerance on the current axis can be up to $\pm 10\%$.

Fuse-link NV/NH gG

Rated current
2-1600 A

Breaking capacity
120 kA / 100 kA

Rated voltage
400, 500, 690 V



NV/NH 00C KOMBI gG

Rated current [A]	~ 400V 100 kA	Code No. ~ 500V 120 kA	~ 690V 100 kA	Korrosionsfest ~ 400V 100 kA	Weight [g]	Packaging [pcs]
2	004181101	004181201	004181301	004181118	125	3/120
4	004181102	004181202	004181302	004181119	125	3/120
6	004181103	004181203	004181303	004181120	125	3/120
10	004181104	004181204	004181304	004181121	125	3/120
16	004181105	004181205	004181305	004181122	125	3/120
20	004181106	004181206	004181306	004181123	125	3/120
25	004181107	004181207	004181307	004181138	125	3/120
32	004181108	004181208	004181308	004181139	125	3/120
35	004181109	004181209	004181309	004181140	125	3/120
40	004181110	004181210	004181310	004181141	125	3/120
50	004181111	004181211	004181311	004181142	125	3/120
63	004181112	004181212		004181143	125	3/120
80	004181113	004181213		004181130	125	3/120
100	004181114	004181214		004181131	125	3/120
125		004181215			125	3/120
160	004181216				125	3/120

**NV/NH 00 gG with striker pin**

Rated current [A]	Code No. ~ 690 V 100 kA	Weight [g]	Packaging [pcs]
50	004111182	205	3
63	004111183	205	3
80	004111184	205	3
100	004111185	205	3
125	004111186	205	3

**NV/NH 0 KOMBI gG**

Rated current [A]	Code No.		Weight [g]	Packaging [pcs]
	~ 500 V 120 kA	~ 690 V 100 kA		
6	004183203	004183303	226	3/45
10	004183204	004183304	226	3/45
16	004183205	004183305	226	3/45
20	004183206	004183306	226	3/45
25	004183207	004183307	226	3/45
32	004183208	004183308	226	3/45
35	004183209	004183309	226	3/45
40	004183210	004183310	226	3/45
50	004183211	004183311	226	3/45
63	004183212	004183312	226	3/45
80	004183213	004183313	226	3/45
100	004183214	004183314	226	3/45
125	004183215	004183315	226	3/45
160	004183216		226	3/45

NV/NH 1 C KOMBI gG

Rated current [A]	Code No.			Korrosionsfest ~ 400V 120 kA	Weight [g]	Packaging [pcs]
	~ 400V 120 kA	~ 500V 120 kA	~ 690V 100 kA			
25	004184107	004184207	004184307	004184131	233	3/45
32	004184108	004184208	004184308	004184130	233	3/45
35	004184109	004184209	004184309	004184129	233	3/45
40	004184110	004184210	004184310	004184128	233	3/45
50	004184111	004184211	004184311	004184127	233	3/45
63	004184112	004184212	004184312	004184138	233	3/45
80	004184113	004184213	004184313	004184139	233	3/45
100	004184114	004184214	004184314	004184132	233	3/45
125	004184115	004184215	004184315	004184133	233	3/45
160	004184116	004184216		004184134	233	3/45

Low voltage NH knife-blade fuse-links

NV/NH 1C I KOMBI gG*

Rated current [A]	Code No.			Weight [g]	Packaging [pcs]
	~ 400V 120 kA	~ 500V 120 kA	~ 690V 100 kA		
25	004194107	004194207	004194307	233	3/45
32	004194108	004194208	004194308	233	3/45
35	004194109	004194209	004194309	233	3/45
40	004194110	004194210	004194310	233	3/45
50	004194111	004194211	004194311	233	3/45
63	004194112	004194212	004194312	233	3/45
80	004194113	004194213	004194313	233	3/45
100	004194114	004194214	004194314	233	3/45
125	004194115	004194215	004194315	233	3/45
160	004194116	004194216		233	3/45

* INSULATED

NV/NH 1 KOMBI gG

Rated current [A]	Code No.			Korrosionsfest ~ 400V 120 kA	Weight [g]	Packaging [pcs]
	~ 400V 120 kA	~ 500V 120 kA	~ 690V 100 kA			
63	004184120	004184220	004184320		430	3/24
80	004184121	004184221	004184321		430	3/24
100	004184122	004184222	004184322		430	3/24
125	004184123	004184223	004184323		430	3/24
160	004184124	004184224	004184324		430	3/24
200	004184117	004184217	004184317	004184135	430	3/24
224	004184118	004184218	004184318	004184136	430	3/24
250	004184119	004184219	004184319	004184137	430	3/24

NV/NH 1 I KOMBI gG*

Rated current [A]	Code No.			Weight [g]	Packaging [pcs]
	~ 400V 120 kA	~ 500V 120 kA	~ 690V 100 kA		
63	004194120	004194220	004194320	430	3/24
80	004194121	004194221	004194321	430	3/24
100	004194122	004194222	004194322	430	3/24
125	004194123	004194223	004194323	430	3/24
160	004194124	004194224	004194324	430	3/24
200	004194117	004194217	004194317	430	3/24
224	004194118	004194218	004194318	430	3/24
250	004194119	004194219	004194319	430	3/24

* INSULATED



Technical data

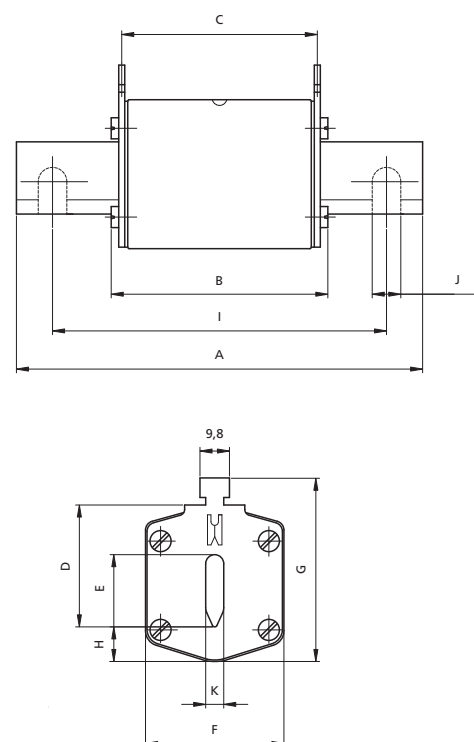
Fuse Links NV/NH

Electrical characteristics

Rated voltage U_n	400 V AC, 500 V AC, 690 V AC
Rated current I_n	2 - 1600 A
Breaking capacity U_n	120 kA, 100 kA, 50 kA
Melting characteristic	gG, aM, gF, gTr
Certified	DIN VDE0636-201 (1998-06)
In accordance with	IEC 60269-1:2005 / EN 60269-1:1998+A1:2005 IEC 60269-2:1986+Corr.1:1996+A1:1995+A2:2001 / EN 60269-2:1995+A1:1998+A2:2002 IEC 60269-2-1:2004 / HD 60269-2-1:2005
Dimensions according to	DIN43620 Part: 1 - 4
Two versions of covers	aluminium and plastic

Fuse Links NV/NH gG Dimensions

Type	Dimensions											
	A	B	C	D	E	F	G	H	I	J	K	
NV00C	79	53	47	35	15	21	52	7,5			6	kombi
NV00C I	79	53	47	35	15	21	52	7,5			6	kombi
NV00	79	53	47	35	15	28	56	12			6	kombi
NV00 I	79	53	47	35	15	28	56	12			6	kombi
NV0	125	68	65	35	15	28	56	12			6	kombi
NV1C	135	68	65	40	15	28	61	12			6	kombi
NV1C I	135	68	65	40	15	28	61	12			6	kombi
NV1	135	72	65	40	20	46	65	14			6	kombi
NV1 I	135	72	65	40	20	46	65	14			6	kombi
NV2C	150	72	65	48	20	46	73	14			6	kombi
NV2C I	150	72	65	48	20	46	73	14			6	kombi
NV2	150	72	65	48	26	54	73	14			6	kombi
NV2 I	150	72	65	48	26	54	73	14			6	kombi
NV3C	150	72	65	60	26	54	84	14			6	kombi
NV3	150	72	65	60	33	65	84	14			6	kombi
NV4	200	75	66	87	50	100	121	24	150	16	8	
NV4a	200	99	87	85	50	95	121	27			6	
NV4a SI*	200	99	87	85	50	95	121	27			6	



Fuse Links NV/NH gG with Striker Pin Dimensions

Type	Dimensions			
	K	L	M	S1
00C	0	20.7	16.7	7.5
00	0	20.7	16.7	7.5
1	13.7	19.7	25	12
2	16.2	27.4	25	12
3	17	35.6	25	12
4a	24	49	25	12

