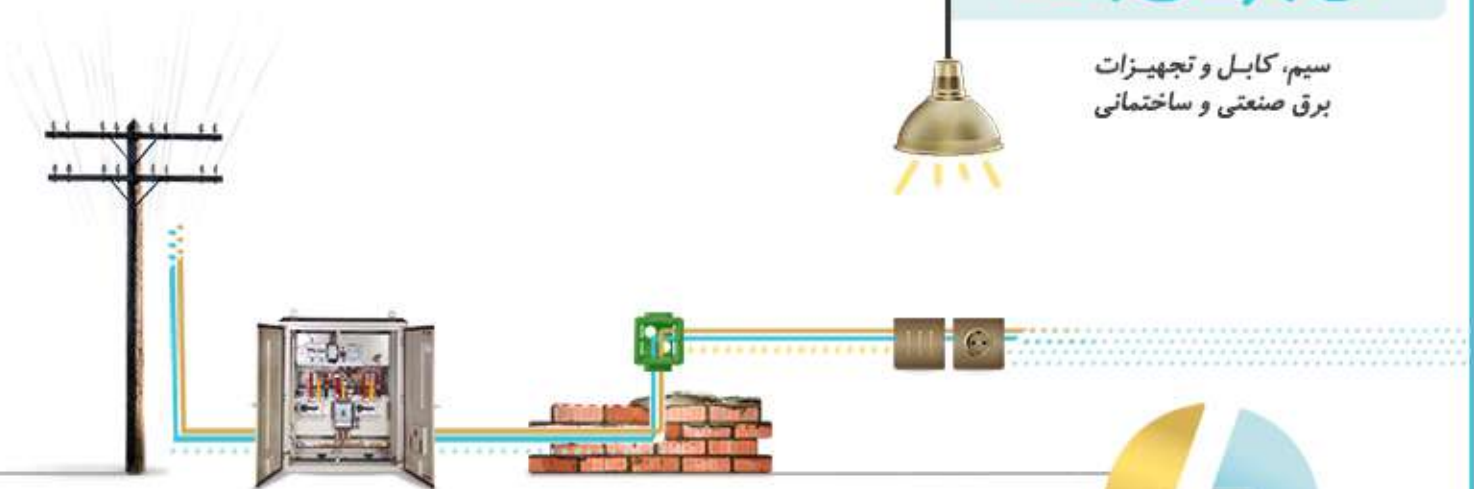


برق و صنعت سروین

کل جریان با ما

سیم، کابل و تجهیزات
برق صنعتی و ساختمانی



- ☎ ۰۲۱-۹۱۰ ۱۵ ۳۳۳ | ۰۲۱-۶۶ ۳۴۴۰ ۹۵
- 📍 دفتر مرکزی: تهران . لاله‌زار شمالی. پاساژ ایرانیان. طبقه دوم. واحد ۱۲۲
- ☎ ۰۸۶-۹۱۰ ۱۵ ۳۳۳
- 📍 اراک. خیابان شهید بهشتی. خیابان عضد. نبش عضد یک



w w w . b a r g h z o o m . c o m

Low voltage fuse-links

Fuse-link D

Rated current
2 - 200 A

Fusing characteristics
gG, TDZ, DZ

D fuse-links for use by unskilled persons for domestic and similar applications are used as the most reliable protection of electrical installation, control and signal circuits against overload and short-circuit currents.

The whole system D contains a complete range of five physical sizes DI, DII, DIII, DIV and DV fuse-links, standard ceramic and new plastic fuse bases and all necessary accessories. It is dimensioned for rated voltages 500 V, 690 V, 750 V and 1200 V a.c. resp. 500 V or 600 V d.c. with AC 50 kA and DC 8 kA rated breaking capacity.

The system D is intended to be used in residential, business and similar buildings. When it is used in industrial installations, it is necessary to take into account the requirements of the standard IEC 60664-1 concerning the insulation coordination for equipment within low-voltage systems.

All fuse-links have blown-fuse indicators which are visible through the screw cap when mounted. Fuse-links, fusebases, caps and fuse-disconnectors are tested and certified according to IEC 60269-3-1, DIN EN 60269-3, DIN VDE 0636-301, HD 630.3.1 and DIN EN 60269-1.



DI for fuse base E 16

I_n [A]	colour	code No. DZ	code No. gG, TDZ	weight [g]	packaging [pcs]
2	pink	002311101	002311401	12	10/500
4	brown	002311102	002311402	12	10/500
6	green	002311103	002311403	12	10/500
10	red	002311104	002311404	13	10/500
16	gray	002311105	002311405	14	10/500
20	blue	002311106	002311406	15	10/500
25	yellow	002311107	002311407	16	10/500



DII for fuse base E 27

I_n [A]	colour	code No. DZ	code No. gG, TDZ	weight [g]	packaging [pcs]
2	pink	002312101	002312401	27	5/500
4	brown	002312102	002312402	27	5/500
6	green	002312103	002312403	27	5/500
10	red	002312104	002312404	27	5/500
13	black		002311409	27	5/500
16	gray	002312105	002312405	28	5/500
20	blue	002312106	002312406	29	5/500
25	yellow	002312107	002312407	30	5/500



DIII for fuse base E 33

I_n [A]	colour	code No. DZ	code No. gG, TDZ	weight [g]	packaging [pcs]
32	black		002313404	48	5/500
35	black	002313101	002313401	48	5/500
40	black		002313405	48	5/500
50	white	002313102	002313402	49	5/500
63	copper	002313103	002313403	52	5/500

**DIII AC 690V, DC 600V**

I _n [A]	colour	code No. gG	weight [g]	packaging [pcs]
2	pink	002313501	68	5/200
4	brown	002313502	68	5/200
6	green	002313503	68	5/200
10	red	002313504	69	5/200
16	gray	002313505	69	5/200
20	blue	002313506	71	5/200
25	yellow	002313507	72	5/200
35	black	002313508	78	5/200
50	white	002313509	80	5/200
63	copper	002313510	80	5/200

DIII 750V gF

I _n [A]	colour	code No. gF	weight [g]	packaging [pcs]
2	pink	002313601	68	5/200
4	brown	002313602	68	5/200
6	green	002313603	68	5/200
10	red	002313604	69	5/200
16	gray	002313605	69	5/200
20	blue	002313606	71	5/200
25	yellow	002313607	72	5/200
35	black	002313608	78	5/200
50	white	002313609	80	5/200
63	copper	002313610	80	5/200

DIII AC 1200V 3-channel

I _n [A]	colour	code No. gF	weight [g]	packaging [pcs]
2	pink	002313620	68	5/200
4	brown	002313621	68	5/200
6	green	002313622	68	5/200
10	red	002313623	69	5/200
16	gray	002313624	69	5/200
20	blue	002313625	71	5/200
25	yellow	002313626	72	5/200
35	black	002313627	78	5/200

DIV for fuse base R1 1/4"

I _n [A]	colour	code No. DZ	code No. gG, TDZ	weight [g]	packaging [pcs]
80	silver	002314101	002314401	105	3/48
100	red	002314102	002314402	110	3/48

DV for fuse base R 2"

I _n [A]	colour	code No. DZ	code No. gG, TDZ	weight [g]	packaging [pcs]
125	yellow	002315101	002315401	185	10/60
160	copper	002315102	002315402	210	10/60
200	blue	002315103	002315403	215	10/60



Fuse bases

1-pole fuse base

Rated current
25, 63 A



Fuse base DI

type	I_n [A]	code No.	screw	weight [g]	packaging [pcs]
EZV 25	25	002321001	E16	63	5/250
EZN 25	25	002321002	E16	66	5/250



Fuse base EZ

type	I_n [A]	code No.	screw	weight [g]	packaging [pcs]
EZ	25	002322001	E 27	122	36/288
EZ	63	002323001	E 33	175	15/180



Fuse base TZ

type	I_n [A]	code No.	screw	weight [g]	packaging [pcs]
TZ	25	002322003	E 27	185	24/192
TZ	63	002323002	E 33	368	6/84



Fuse base UZ, UZN

type	I_n [A]	code No.	screw	weight [g]	packaging [pcs]
UZ	25	002322015	E 27	200	10/200
UZN	25	002322024	E 27	202	10/180
UZ	63	002323004	E 33	300	6/60
UZN	63	002323007	E 33	302	6/60

* UZ - for mounting with screws

* UZN - for mounting on DIN rail



Fuse base EZR

type	I_n [A]	code No.	screw	weight [g]	packaging [pcs]
EZR	25	002322006	E 27	97	15/195
EZR	63	002323005	E 33	132	15/180

* EZR - for direct mounting on EZR busbar

**Fuse base EZN, EZV**

type	I _n [A]	code No.	screw	weight [g]	packaging [psc]
EZN 25°	25	002322009	E 27	104	15/195
EZN 63°	63	002323008	E33	148	15/180
EZN 63-M6°	63	002323013	E33	148	15/180
EZV 25	25	002322011	E27	102	15/195
EZV 63	63	002323010	E33	146	15/180
EZV 63-M6	63	002323020	E33	146	15/180
EZN 25-ZP*	25	002322016	E27	120	10/130
EZN 63-ZP*	63	002323028	E33	163	10/120
EZV 25-ZP*	25	002322017	E27	112	10/130
EZV 63-ZP*	63	002323029	E33	153	10/120

* EZV - for mounting with screws

* EZN - for mounting on rail

* ZP - base with protection cover

At request, vibration-tested EZN 25, 63, 63-M6 fuse bases are available according to the LRS-Lloyd's register of Shipping 1961 Vibration Test 2.

Fuse base D Comfort

type	I _n [A]	code No.	weight [g]	packaging [pcs]
DII comfort	25	002322040	137	3/105

Fuse base for overhead lines

type	I _n [A]	code No.	screw	weight [g]	packaging [pcs]
FZ	25	002322007	E 27	750	1/22
FZ	63	002323006	E 33	1050	1/16

**3-pole fuse base**Rated current
25, 63 A**Fuse base EZN/3, EZV/3 - DELTA**

type	I _n [A]	code No.	weight [g]	packaging [pcs]
EZN 25/3	25	002322036	410	8
EZV 25/3	25	002322037	400	8
EZN 63/3	63	002323043	590	8
EZV 63/3	63	002323044	580	8



**Fuse base EZN/3, EZV/3 - LINEAR**

type	I_n [A]	code No.	screw	weight [g]	packaging [pcs]
EZN 25/3	25	002322025	E 27	352	4/60
EZV 25/3	25	002322026	E 27	346	4/60
EZN 63/3	63	002323016	E33	488	6/42
EZV 63/3	63	002323017	E33	484	6/42

**Armoures fuse base**

type	code No.	weight [g]	packaging [pcs]
T 25/3N	002362003	460	4
T 63/3N	002363003	660	4
T 25/3V	002362004	450	4
T 63/3V	002363004	650	4



Gauge piece



VD II for fuse base E 27

I_n [A]	colour	code No.	weight [g]	packaging [pcs]
2	pink	002342001	13	25/1500
4	brown	002342002	13	25/1500
6	green	002342003	13	25/1500
10	red	002342004	11	25/1500
16	gray	002342005	11	25/1500
20	blue	002342006	11	25/1500
25	yellow	002342007	11	25/1500



VD III for fuse base E33

I_n [A]	colour	code No.	weight [g]	packaging [pcs]
35	black	002343001	19	25/850
50	white	002343002	18	25/850
63	copper	002343003	16	25/850



Fuse carrier D

Fuse carrier K DI

type	I _n [A]	code No.	screw	weight [g]	packaging [pcs]
K DI	25	002331001	E16	18	50/1300

Fuse carrier K DII

type	I _n [A]	code No.	screw	weight [g]	packaging [pcs]
K DII	25	002332003	E 27	35	50/600

Fuse carrier K DIII

type	I _n [A]	code No.	screw	weight [g]	packaging [pcs]
K DIII	63	002333002	E 33	59	30/360



Protection cover

1-pole protection cover for fuse base

type	I _n [A]	code No.	screw	weight [g]	packaging [pcs]
EZN, EZV	25	002352001	E 27	16	30/390
EZN, EZV	63	002353002	E 33	12	30/360

3-pole protection cover for fuse base

type	code No.	weight [g]	packaging [pcs]
EZN, EZV 25/3	002352003	40	12/120
EZN, EZV 63/3	002353004	40	12/120



Busbar system for 1-pole fuse base EZR



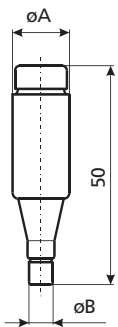
Busbar for fuse base EZR					
type	I_n [A]	code No.	screw	weight [g]	packaging [pcs]
EZR	25	002923032	E 27	380	50
EZR	63	002923033	E 33	380	50



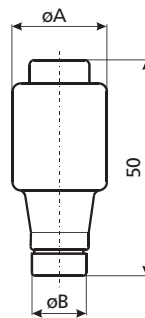
Terminal for neutral terminal and busbar EZR			
code No.	for cross section [mm ²]	weight [g]	packaging [pcs]
002923040	16	9	100/2200
002923041	35	21	100/2200

Fuse-link D

Technical data	
Rated voltage U_n	500 V a.c., 400 V d.c.
Rated current I_n	DI, DII 2 - 25 A, DIII 32 - 63 A DIV 80 - 100 A, DV 125 - 200 A
Breaking capacity at $1,1 U_n$	50 kAa.c. $\cos\phi=0,2$ 8 kAd.c. $T=15$ ms
Fusing characteristics	gG, TDZ, DZ
Insulating class	C - VDE 0110
Standards	DIN EN 60269-1, IEC 60269-1:2005-04 (VDE 0636 Teil 10): 1999-11 DIN EN 60269-3, IEC 60269-3:2003 (VDE 0636 Teil 30): 1995-12 DIN EN 60269-3-1, IEC 60269-3-1: 2004-07 (VDE 0636 Teil 301): 1998-01 DIN VDE 0635/02.84

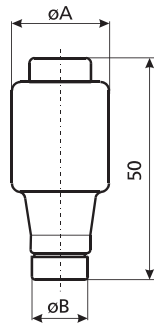


DI for fuse base E 16		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
2	13,2	6
4	13,2	6
6	13,2	6
10	13,2	8
16	13,2	10
20	13,2	12
25	13,2	14



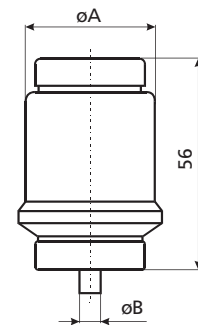
DII for fuse base E 27		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
2	21,5	6
4	21,5	6
6	21,5	6
10	21,5	8
13	21,5	8
16	21,5	10
20	21,5	12
25	21,5	14

DIII for fuse base E 33		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
32	27	16
35	27	16
40	27	16
50	27	18
63	27	20

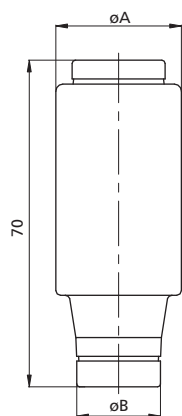


DIV for fuse base R1 1/4"		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
80	33	5
100	33	7

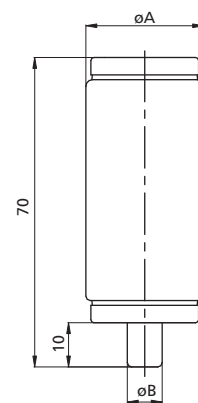
DV for fuse base R 2"		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
125	46	5
160	46	7
200	46	9

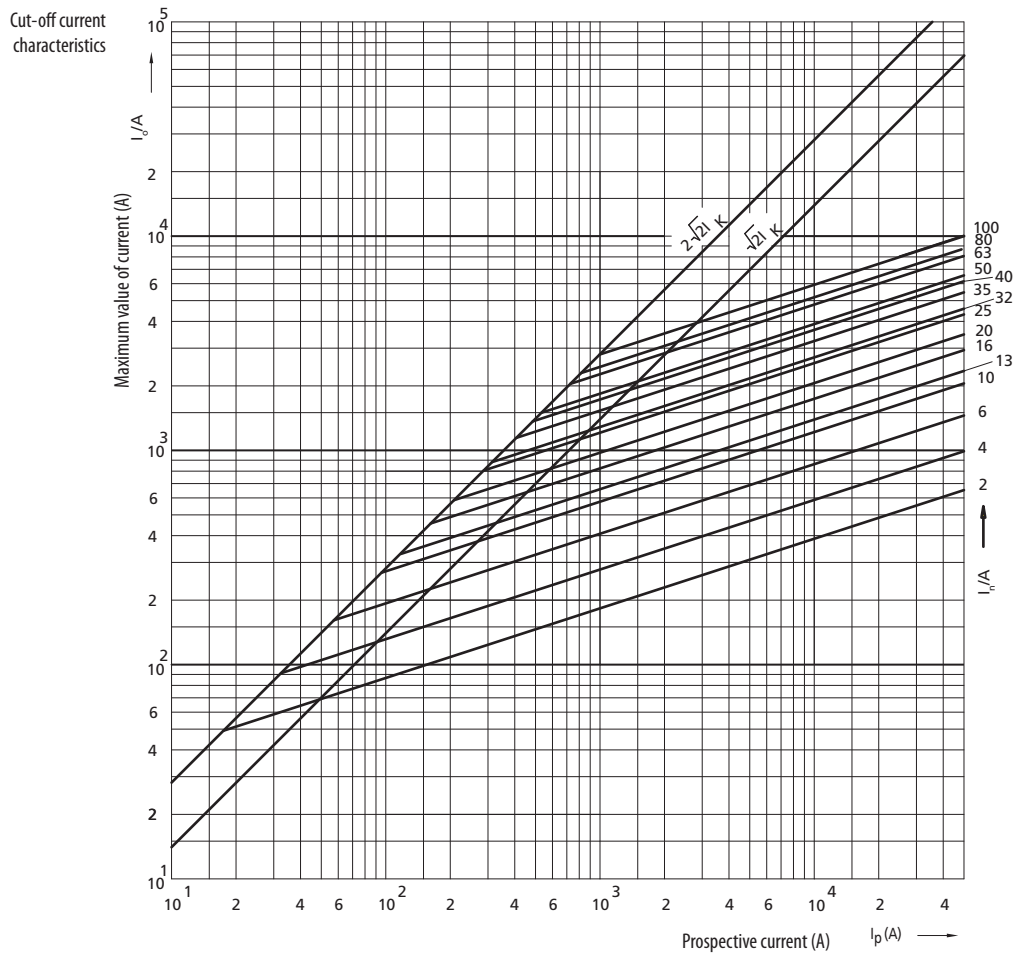
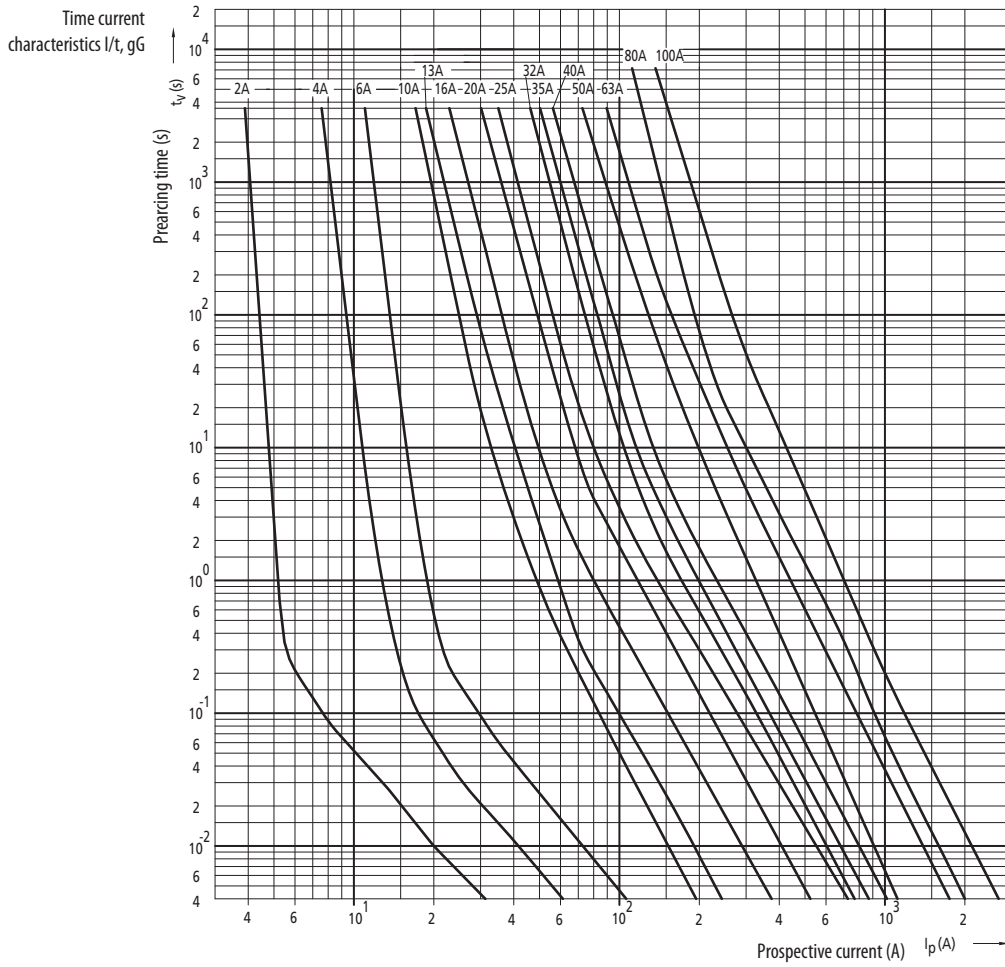


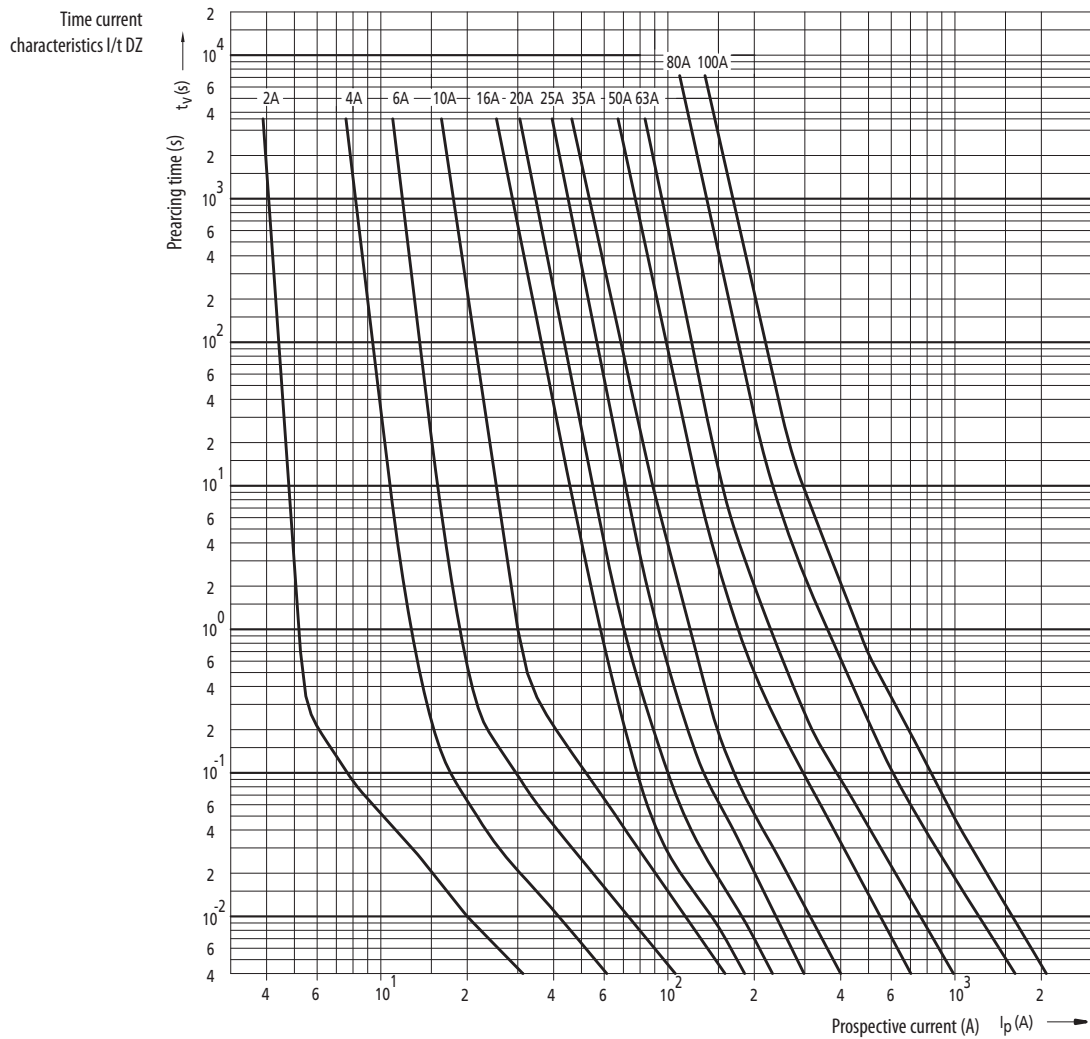
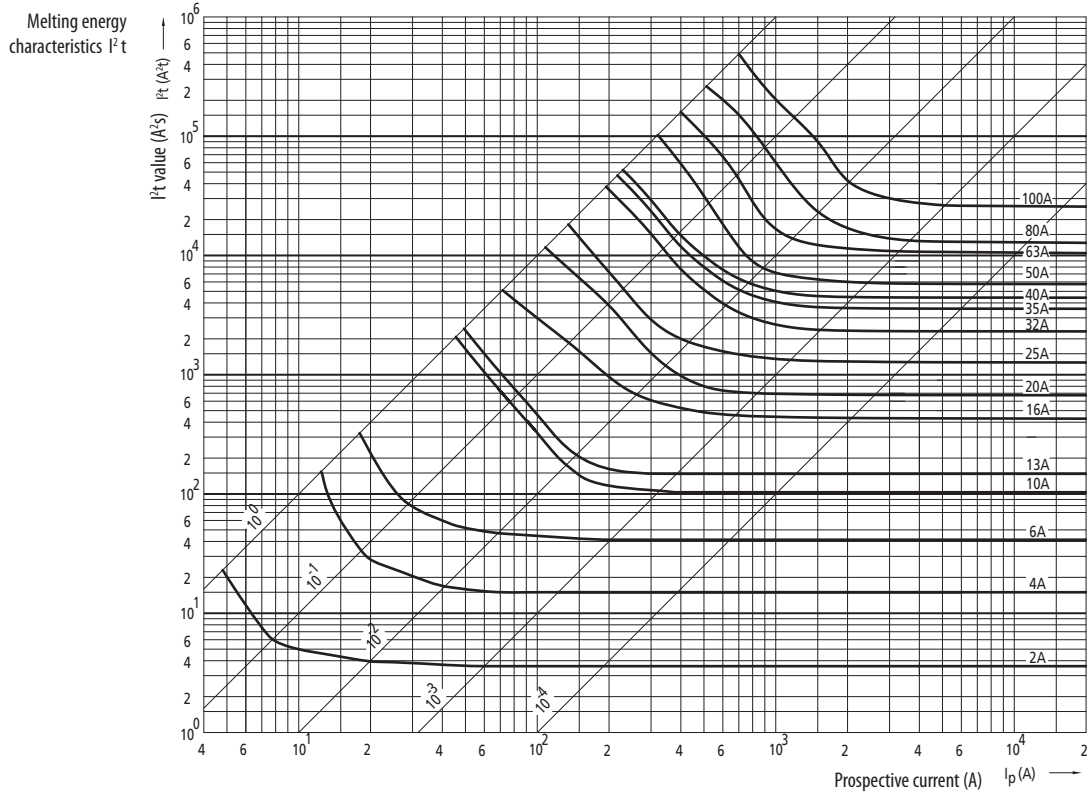
DIII gG, 690 V a.c., 600 V d.c.		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
2	27	6
4	27	6
6	27	6
10	27	8
16	27	10
20	27	12
25	27	14
35	27	16
50	27	18
63	27	20



DIII gF, 750 V a.c., 1200 V a.c.		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
2	27	6
4	27	6
6	27	6
10	27	8
16	27	10
20	27	12
25	27	14
35	27	16





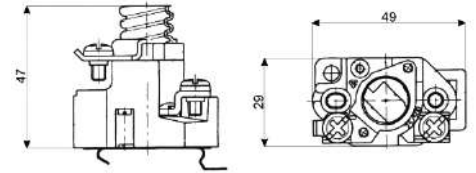




1-pole fuse base

Technical data:

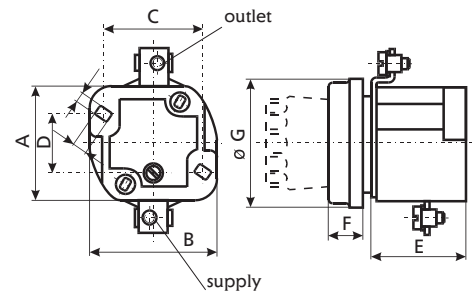
Rated voltage U_n	500 V, 690 V
Rated current I_n	DII 25 A, DIII 63 A
Insulating class	according to IEC 60664-1
Cross-section of connecting lead	DII 1 to 10 mm ² DIII 2,5 to 25 mm ²
Standards, publications	IEC 60269, EN 60269, DIN VDE 0636



Fuse base DI

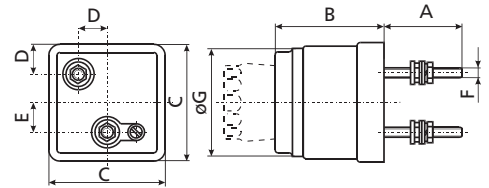
Fuse base EZ

type	I_n [A]	dimension						
		A	B	C	D	E	F	G
EZ	25	41	47	36	20	35	13	46
EZ	63	45	56	45	20	36	14	58



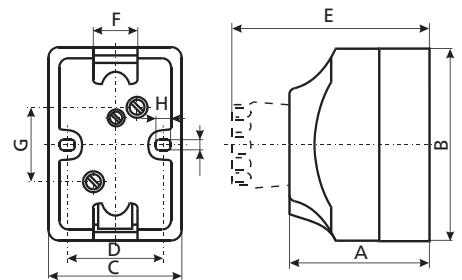
Fuse base TZ

type	I_n [A]	dimension						
		A	B	C	D	E	F	G
TZ	25	26	50	53	13,5	14	M	46
TZ	63	31	58	64	16	18	M	58



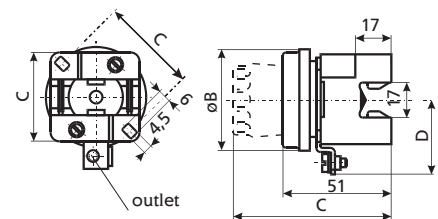
Fuse base UZ, UZN

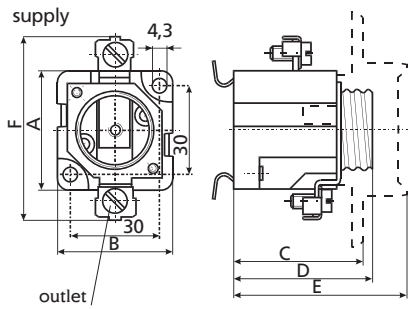
type	I_n [A]	dimension							
		A	B	C	D	E	F	H	I
UZ	25	56	80	41	33	82	20	4,5	4,5
UZN	25	56	80	41	33	82	20	4,5	4,5
UZ	63	56	90	52	41	82	28	4,5	4,5
UZN	63	56	90	52	41	82	28	4,5	4,5



Fuse base EZR

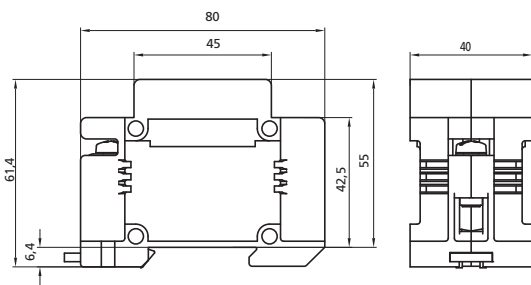
type	I_n [A]	dimension			
		A	B	C	D
EZR	25	42	46	45	35
EZR	63	47	58	48,5	38





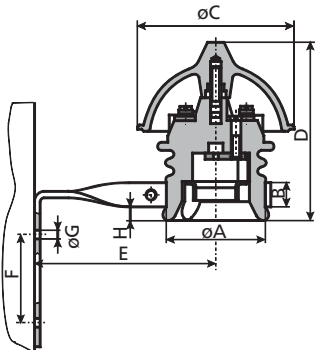
Fuse base EZN, EZV

type	I _n [A]	dimension					
		A	B	C	D	E	F
EZN 25°	25	41	39	44	47	60	62
EZN 63°	63	43	47	44	47	56	79
EZN 63-M6°	63	43	47	44	47	56	79
EZV 25	25	41	39	44	47	60	62
EZV 63	63	43	47	44	47	56	79
EZV 63-M6	63	43	47	44	47	56	79
EZN 25-ZP*	25	41	39	44	47	60	62
EZN 63-ZP*	63	43	47	44	47	56	79
EZV 25-ZP*	25	41	39	44	47	60	62
EZV 63-ZP*	63	43	47	44	47	56	79



Fuse base D Comfort

Rated voltage U _n	500 V
Rated current I _n	25 A
For fuse-links type DII	acc. to IEC/EN 60269-3
Gauge pieces VDII	acc. to IEC/EN 60269-3
Cross section of connecting leads	1,5 - 25 mm ²
Screws	with ±head
Mounting possibilities:	- with screws - mounting on the rail EN 60715



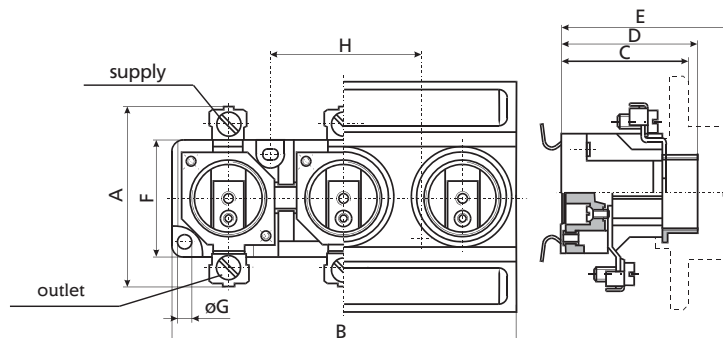
Fuse base for overhead lines

type	I _n [A]	dimension							
		ØA	B	ØC	D	E	F	ØG	H
FZ 25	25	61	14	104	118	90	50	7	20
FZ 65	65	70	21	114	120	130	58	7	21

3-pole fuse base

Fuse base EZN/3, EZV/3 - LINEAR

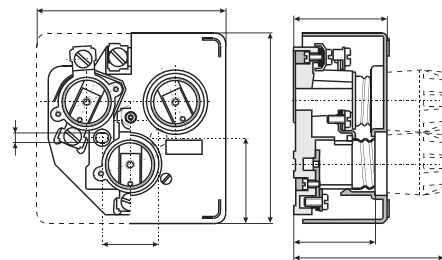
type	dimension							
	A	B	C	D	E	F	ØG	H
EZN 25/3	41	121	44	47	60	30	4,3	50
EZN 25/3	41	121	44	47	60	30	4,3	50
EZN 63/3	43	148	44	47	56	32	4,3	62
EZN 63/3	43	148	44	47	56	32	4,3	62





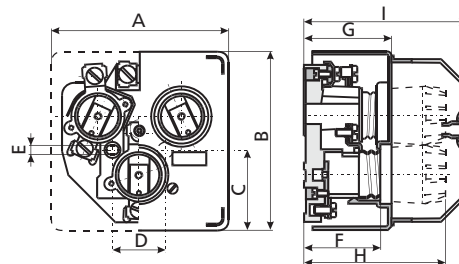
Fuse base EZN/3, EZV/3 - DELTA

type	dimension							
	A	B	C	D	E	F	G	H
EZN 25/3	106	106	48	/	/	45	52	86
EZV 25/3	106	106	48	32	5,2	45	52	86
EZN 63/3	127	130	54	/	/	45	52	85
EZV 63/3	127	130	54	32	5,2	45	52	85

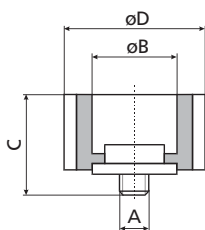


Armoured fuse base

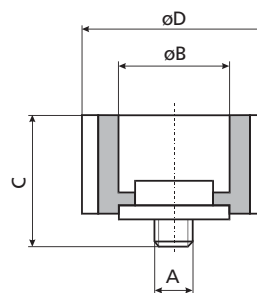
type	dimension								
	A	B	C	D	E	F	G	H	I
T 25/3N	106	106	48	/	/	45	52	86	97
T 63/3N	127	130	54	/	/	45	52	85	97
T 25/3V	106	106	48	32	5,2	45	52	86	97
T 63/3V	127	130	54	32	5,2	45	52	85	97



Gauge Piece



VD II for fuse base E 27



VD III for fuse base E 33

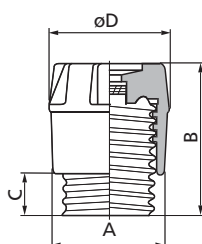
VD II for fuse base E 27

I _n [A]	dimension			
	A	B	C	D
2	3/16"	6,5	17	24
4	3/16"	6,5	17	24
6	3/16"	6,5	17	24
10	3/16"	8,5	17	24
16	3/16"	10,5	17	24
20	3/16"	12,5	17	24
25	3/16"	14,5	17	24

VD III for fuse base E 33

I _n [A]	dimension			
	A	B	C	D
35	3/16"	16,5	17	30
50	3/16"	18,5	17	30
63	3/16"	20,5	17	30

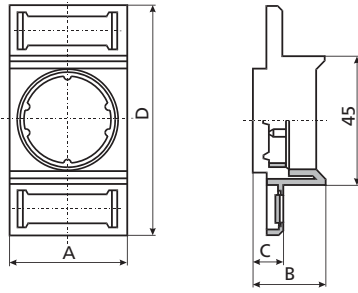
Fuse carrier D



Fuse carrier

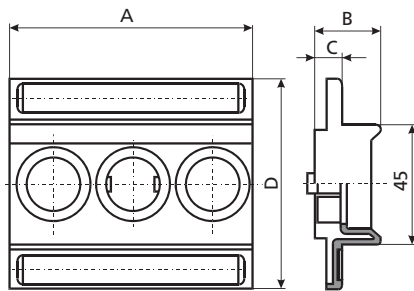
type	dimension			
	A	B	C	D
KDI	23	35	10	26
KDII	34	44	12	35
KDIII	43	44	12	43

Protection cover



1-pole protection for fuse base

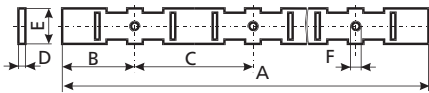
type	I _n [A]	dimension			
		A	B	C	D
EZN, EZV	25	40	24	10,8	80
EZN, EZV	63	49	21	9	80



3-pole protection cover for fuse base

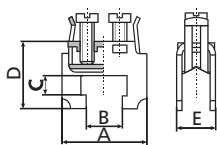
type	dimension			
	A	B	C	D
EZN, EZV 25/3	121	24	10,8	80
EZN, EZV 63/3	148	21	9	80

Busbar system for 1-pole fuse base EZR



Busbar for fuse base EZR

type	I _n [A]	dimension					
		A	B	C	D	E	F
EZR	25	1000	32	52	3	16	3/16"
EZR	63	1000	38	62	3	16	3/16"



Terminals for neutral terminals and busbars EZR

for cross section [mm ²]	dimension				
	A	B	C	D	E
16	25	12,5	3,5	17	7,3
35	28	12,5	6,5	21,5	12,6

Low voltage fuse-links

Fuse-link D0

Rated current
2 - 100 A

Fusing characteristics
gG

D0 fuse-links are used as the most reliable protection of electrical installation, control and signal circuits against overload and short-circuit currents.

The whole system D0 contains a complete range of three physical sizes D01, D02 and D03 fuse-links, standard ceramic and new plastic bases, fuse disconnectors and all necessary accessories. It is dimensioned for rated voltages 400 V a.c. resp. 250 V d.c. with AC 50kA and DC 8kA rated breaking capacity.

The system D0 is intended to be used in residential, business and similar buildings. When it is used in industrial installations, it is necessary to take into account the requirements of the standard IEC 60664-1 concerning the insulation coordination for equipment within low-voltage systems .

All fuse-links have blown-fuse indicators which are visible through the screw cap when mounted. Fuse-links, fuse-bases, caps and fuse-disconnectors are tested and certified according to IEC 60269-3-1, DIN EN 60269-3, DIN VDE 0636-301, HD 630.3.1, DIN EN 60269-1, EN 60947-1 and EN 60947-3.



D01 for fuse base E 14

I_n [A]	colour	code No. gG	weight [g]	packaging [pcs]
2	pink	002211001	6	10/500
4	brown	002211002	6	10/500
6	green	002211003	6	10/500
10	red	002211004	6	10/500
13	black	002211006	6	10/500
16	grey	002211005	6	10/500



D02 for fuse base E 18

I_n [A]	colour	code No. gG	weight [g]	packaging [pcs]
20	blue	002212001	11	10/500
25	yellow	002212002	12	10/500
32	black	002212006	13	10/500
35	black	002212003	13	10/500
40	black	002212007	13	10/500
50	white	002212004	13	10/500
63	copper	002212005	15	10/500



D03 for fuse base M 30 x 2

I_n [A]	colour	code No. gG	weight [g]	packaging [pcs]
80	silver	002213001	35	10/400
100	red	002213002	35	10/400



Fuse bases

Ceramic fuse base

Rated current
16, 63 A

The fuse bases D0 are planned to be built into distribution boxes in domestic and public installations. Total security against parts under voltage is achieved by installing D0 fuse bases into domestic or industrial distribution boards. Ceramic fuse-bases are tested and certified according to IEC 60269-3-1, DIN EN 60269-1, DIN EN 60269-3 and DIN VDE 0636-301.

Advantages

- modular construction-module 9 mm
- smaller weight and smaller height (66 mm) provide installation into the flush-mounting distribution boxes, the depth of which is 80 mm only
- by the use of gauge-piece key it is possible to change the gauge rings under voltage
- the possibility of simple substitution of base D0 1 with D0 2.

1-pole fuse base D0

type	I _n [A]	code No.	screw	with protection cover	without protection cover	click-on mounting	screw mounting	weight [g]	packaging [pcs]
D01N - K	16	002221011	E14	0		X		68	15/300
D01V - K	16	002221012	E14	0			X	66	15/300
D02N - K	63	002222011	E18	0		X		87	15/300
D02V - K	63	002222012	E18	0			X	80	15/300
D02N M5 - K	63	002222016	E18	0		X		82	15/300
D02V M5 - K	63	002222015	E18	0			X	80	15/300
D01N	16	002221001	E14		0	X		56	15/150
D01V	16	002221002	E14		0		X	59	15/150
D02N	63	002222001	E18		0	X		80	15/150
D02V	63	002222002	E18		0		X	77	15/150
D02N M5	63	002222006	E18		0	X		75	15/150
D02V M5	63	002222005	E18		0		X	72	15/150

1-pole fuse base D0 - U

type	I _n [A]	code No.	screw	with protection cover	without protection cover	click-on mounting	screw mounting	weight [g]	packaging [pcs]
D01NU - K	16	002221111	E14	0		X		80	15/210
D01VU - K	16	002221112	E14	0			X	80	15/210
D02NU - K	63	002222111	E18	0		X		90	15/210
D02VU - K	63	002222112	E18	0			X	90	15/210



**3-pole fuse base D0**

type	I_n [A]	code No.	screw	with protection cover	without protection cover	click-on mounting	screw mounting	weight [g]	packaging [pcs]
D01N/3 - K	16	002221021	E14	0		X		216	5/100
D01V/3 - K	16	002221020	E14	0			X	187	5/100
D02N/3 - K	63	002222021	E18	0		X		252	5/100
D02V/3 - K	63	002222020	E18	0			X	246	5/100
D02N/3 M5 - K	63	002222023	E18	0		X		237	5/100
D02V/3 M5 - K	63	002222022	E18	0			X	231	5/100
D01N/3	16	002221031	E14		0	X		176	5/50
D01V/3	16	002221030	E14		0		X	170	5/50
D02N/3	63	002222031	E18		0	X		235	5/50
D02V/3	63	002222030	E18		0		X	229	5/50
D02N/3 M5	63	002222033	E18		0	X		220	5/50
D02V/3 M5	63	002222032	E18		0		X	214	5/50

Plastic fuse base

Plastic fuse bases series PPD01 and PPD02 are mainly intended to be build into distribution boxes in domestic, office and schools installations.

Total security against parts under voltage is achieved by installing PPD0 fuse bases into domestic or industrial distribution boards. Plastic fuse bases are tested and certified according to IEC 60269-3-1, DIN EN 60269-1, DIN EN 60269-3 and DIN VDE 0636-301.

Advantages

- Connection at the input is possible with a clamp or with a screw, at the output it is possible to connect with a clamp
- Mounting is on a standard rail 35 mm (according to DIN EN 60715)
- Temperature resistant material
- Smaller weight of the product
- Layout is adjusted for modern build-in devices.

**Fuse base PPD01**

type	I_n [A]	code No.	number of poles	weight [g]	packaging [pcs]
PPD01-1	16	002221015	1	70	15
PPD01-3	16	002221022	3	220	3

**Fuse base PPD02**

type	I_n [A]	code No.	number of poles	weight [g]	packaging [pcs]
PPD02-1	63	002222018	1	86	15
PPD02-3	63	002222043	3	270	3



Fuse - switch disconnecter VLD01

Rated current
2 - 6, 10, 16 A

Utilization category
AC22

Fuse-switch disconnecter is a protection device with an exchangeable for D01 fuse link. This system enables the following protecting advantages, concerning the D0 fuse:

- Replacement of the fuse-link can be done with a movable holder, without danger of direct contact to the parts under voltage.
- The device can be switched on without screwing, contact pressure is applied automatically by a spring.
- Complete protection against touch by VBG 4.
- In position 1 and 0, the fuse-link operation indicator is visible through a transparent window.

**1-pole**

I_n [A]	U_n [V]	code No.	weight [g]	packaging [pcs]
6	230/400	002261001	67	12/108
10	230/400	002261002	67	12/108
16	230/400	002261003	67	12/108

1-pole + N

I_n [A]	U_n [V]	code No.	weight [g]	packaging [pcs]
6	230	002261016	135	6/54
10	230	002261017	135	6/54
16	230	002261018	135	6/54

2-pole

I_n [A]	U_n [V]	code No.	weight [g]	packaging [pcs]
6	400	002261006	135	6/54
10	400	002261007	135	6/54
16	400	002261008	135	6/54

3-pole

I_n [A]	U_n [V]	code No.	weight [g]	packaging [pcs]
6	400	002261011	203	4/36
10	400	002261012	203	4/36
16	400	002261013	203	4/36

3-pole + N

I_n [A]	U_n [V]	code No.	weight [g]	packaging [pcs]
6	400	002261021	270	3/27
10	400	002261022	270	3/27
16	400	002261023	270	3/27

**Accessories for fuse-switch disconnecter VLD01****Holder**

accessories	code No.	weight [g]	packaging [pcs]
holder/2-6A	002261028	6	15/600
holder/10A	002261029	6	15/600
holder/16A	002261030	6	15/600



Switch - disconnector - fuse STVD02

Rated current
63 A

Utilization category
AC22

Switch-disconnector-fuse is a device which combines the functions of the switch and of the fuse D0.

The system enables the following advantages of protection in comparison with the fuse D0:

- The changing of the fuse-link without danger of direct touch of parts under voltage.
- Snap-on mounting on rail according to EN 60715.
- The complete protection against touch according to VBG 4.
- The possibility of connecting supply from the upper or from the lower side.
- It can be used as a main switch and tariff fuse in a single device.
- Possibility of sealing in ON or OFF positions with or without fuse-link.



STVD02

type	I_n [A]	code No.	weight [g]	packaging [pcs]
STV D02-1	63	002271001	119	12/96
STV D02-1N	63	002271002	238	6/48
STV D02-2	63	002271003	238	6/48
STV D02-3	63	002271004	357	4/32
STV D02-3N	63	002271005	476	3/24

Accessories for switch - disconnector - fuse STVD02



Auxiliary switch PS STV

type	code No.	contacts	weight [g]
PS STV - MD	002279001	1 x b contacts, 1 x a contacts	50
PS STV - 2M	002279002	2 x b contacts	50
PS STV - 2D	002279003	2 x a contacts	50

a... make contact
b... breake contact

Auxiliary switch PS STV is intended to be mounted with switches of series STV D02. The width of apparatus is 9mm, other dimensions comply with STV D02 series switches.

Auxiliary switch PS STV D02 serves for distant signalization of the state of contacts (on/off) of STV D02 switch, or for circuit control.

**Gauge piece**

I_n [A]	colour	code No.	weight [g]	packaging [pcs]
20	blue	002243010	0,8	50/500
25	yellow	002243011	0,6	50/500
35	black	002243012	0,5	50/500
50	white	002243013	0,4	50/500

Their function is to limit the use of D0 fuse-links to user prescribed rated currents. The gauge piece can be inserted into the holder, when the fuse holder is extracted from the housing.

**Adapter**

I_n [A]	colour	code No.	weight [g]	packaging [pcs]
6	green	002243018	2,5	20/500
10	red	002243019	2,5	20/500
16	gray	002243020	2,5	20/500

Its function is to allow the use of D01 fuse-links (2-16A) with the fuse-switch-disconnector STV D02.





Accessories

Protection cover

1-pole protection cover for fuse base

type	code No.	weight [g]	packaging [pcs]
D01V, D01N	002251006	8	50/700
D02V, D02N	002251005	8	50/700

3-pole protection cover for fuse base

type	code No.	weight [g]	packaging [pcs]
D01V/3, D01N/3	002251004	17	14/280
D02V/3, D02N/3	002251002	16	14/280

Protection cover with sealing fuse carrier for fuse base D01

type	code No.	weight [g]	packaging [pcs]
D01 G	002251007	41	5/150

Protection cover D01 G is used for protection against touching of parts under voltage and has a sealing possibility. It is mounted on 1-pole fuse base type D01.



Gauge piece

V D01 for fuse base E 14

I _n [A]	colour	code No.	weight [g]	packaging [pcs]
2	pink	002241001	1	50/500
4	brown	002241002	1	50/500
6	green	002241003	1	50/500
10	red	002241004	1	50/500

V D02 for fuse base E 18

I _n [A]	colour	code No.	weight [g]	packaging [pcs]
2*	pink	002243001	1	50/500
4*	brown	002243002	1	50/500
6*	green	002243003	1	50/500
10*	red	002243004	1	50/500
16*	gray	002243005	1	50/500
20	blue	002242001	1	50/500
25	yellow	002242002	1	50/500
35	black	002242003	1	50/500
50	white	002242004	1	50/500

* For using fuse-links D01 and fuse bases D02.



**Gauge piece key**

code No.	weight [g]	packaging [pcs]
002241000	17	20/120

Fuse carrier D0**Fuse carrier D0**

type	code No.	screw	weight [g]	packaging [pcs]
KN D01	002231003	E 14	14	20/500
KN D02	002232003	E 18	17	20/500

Special holder**Special holder**

code No.	weight [g]	packaging [pcs]
002231000	1	25/300



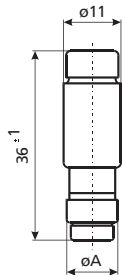
Fuse-link D0

Technical data

Rated voltage U_n	400 Va.c., 250 Vd.c.
Rated current I_n	D01 2 - 16 A, D02 20 - 63 A, D03 80 - 100 A
Breaking capacity at $1,1 U_n$	50 kA a.c. $\cos \phi = 0,1$ 8 kA d.c. $T = 15$ ms
Fusing characteristics	gG
Standards	DIN EN 60269-1, IEC 60269-1:2005-04 (VDE 0636 Teil 10): 1999-11 DIN EN 60269-3, IEC 60269-3:2003 (VDE 0636 Teil 30): 1995-12 DIN EN 60269-3-1, IEC 60269-3-1: 2004-07 (VDE 0636 Teil 301): 1998-01 DIN VDE 0635/02.84

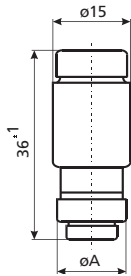
D01 gG for fuse base E 14

I_n [A]	dimension $\varnothing A$
2	7,3
4	7,3
6	7,3
10	8,5
13	8,5
16	9,7



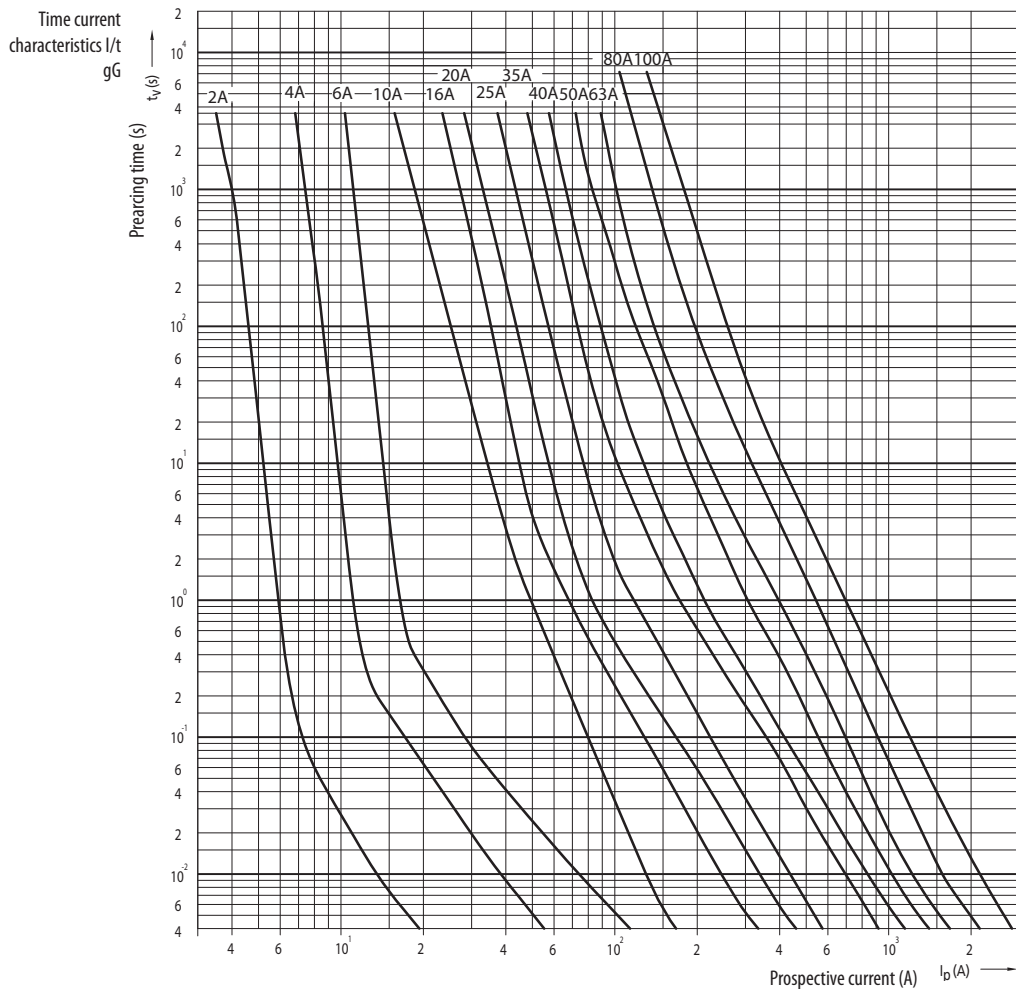
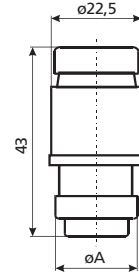
D02 gG for fuse base E 18

I_n [A]	dimension $\varnothing A$
20	10,9
25	12,1
32	13,3
35	13,3
40	13,3
50	14,5
63	15,9

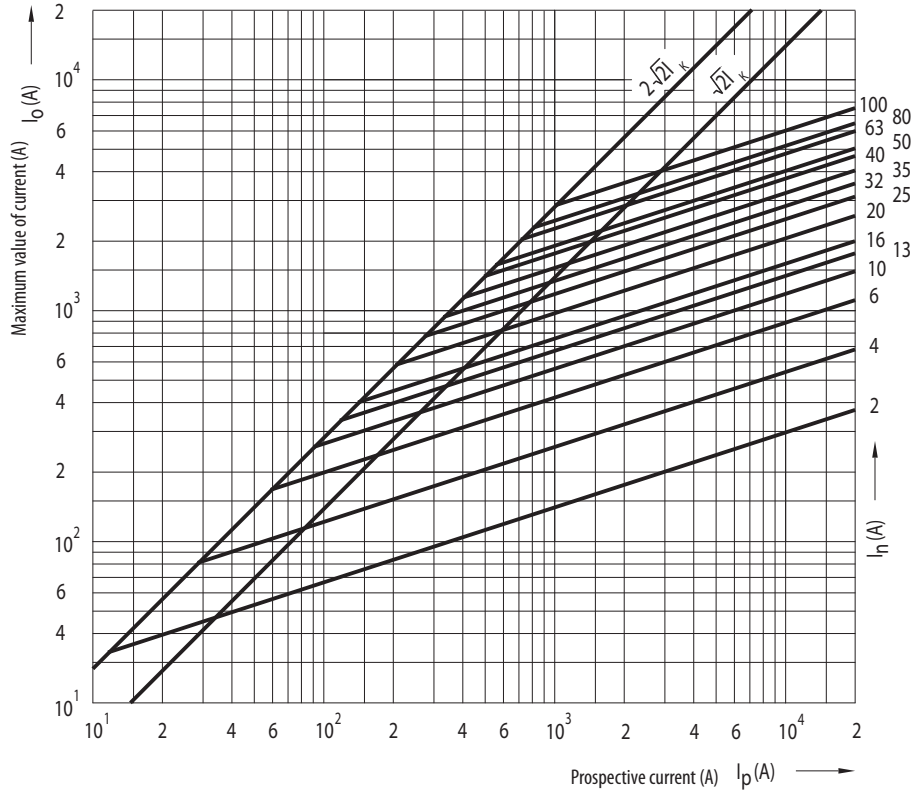


D03 gG for fuse base M 30 x 2

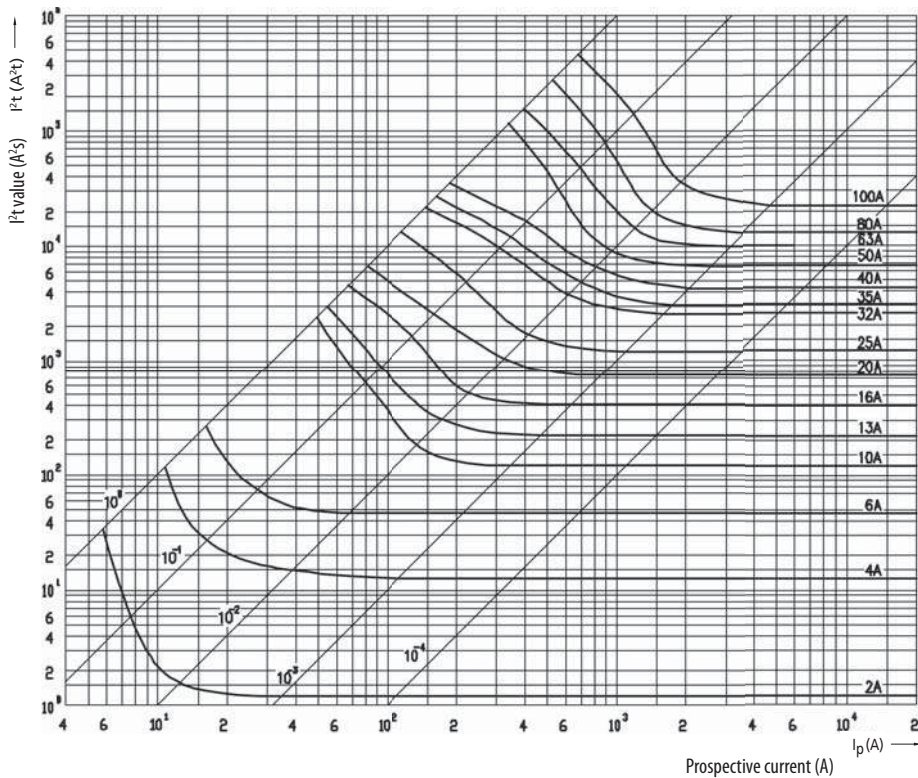
I_n [A]	dimension $\varnothing A$
80	21,4
100	21,4



Cut-off current characteristics



Melting energy characteristics I^2t





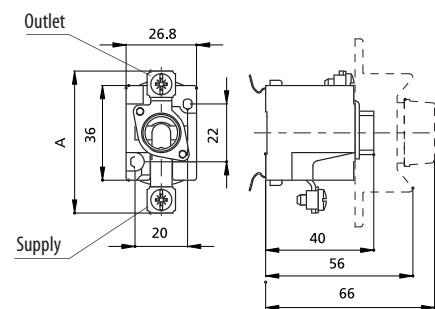
Ceramic fuse base

Technical data

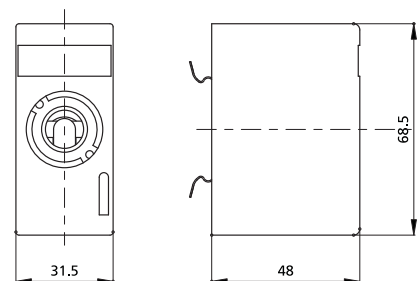
Rated voltage U_n	400 V a.c.
Rated current I_n	D01 16 A, D02 63 A
Cross-section of connecting lead	D01 1 - 4 mm ² D02 1,5 - 25 mm ²
Connection clamp	with screw +- PZ
Standards	IEC 60269, EN 60269, DIN VDE 0636, SIST EN 60269

1-pole fuse base D0

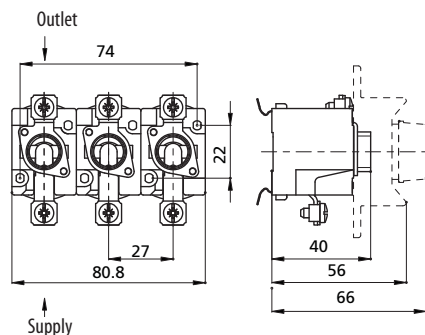
type	connections		cross-section of connecting lead [mm ²]	dimension A [mm]
	outlet	supply		
D01N - K			1,5 - 4	53
D01V - K			1,5 - 4	53
D02N - K			2,5 - 25	57
D02V - K			2,5 - 25	57
D02N M5 - K			2,5 - 25	57
D02V M5 - K			2,5 - 25	57
D01N			1,5 - 4	53
D01V			1,5 - 4	53
D02N			2,5 - 25	57
D02V			2,5 - 25	57
D02N M5			2,5 - 25	57
D02V M5			2,5 - 25	57

**1-pole fuse base D0 - U**

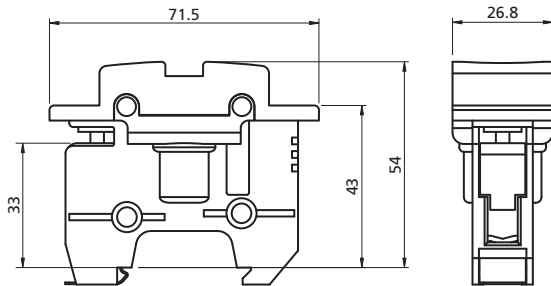
type	connections		cross-section of connecting lead [mm ²]
	outlet	supply	
D01 U			1,5 - 4
D02 U			2,5 - 25

**3-pole fuse base D0**

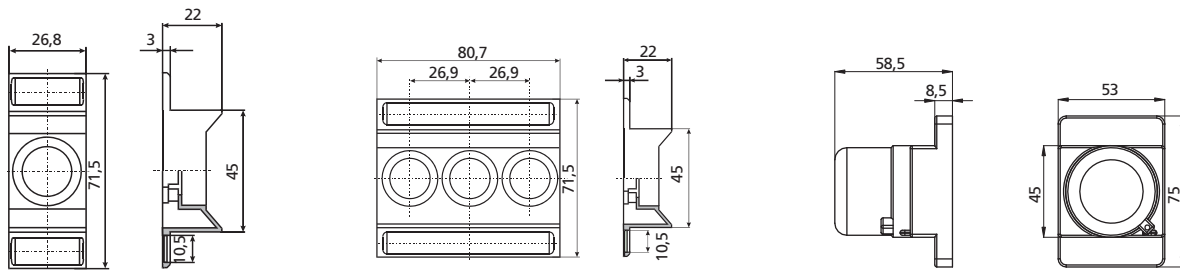
type	connections		cross-section of connecting lead [mm ²]	dimension A [mm]
	outlet	supply		
D01N/3 - K			1,5 - 4	53
D01V/3 - K			1,5 - 4	53
D02N/3 - K			2,5 - 25	57
D02V/3 - K			2,5 - 25	57
D02N/3 M5 - K			2,5 - 25	57
D02V/3 M5 - K			2,5 - 25	57
D01N/3			1,5 - 4	53
D01V/3			1,5 - 4	53
D02N/3			2,5 - 25	57
D02V/3			2,5 - 25	57
D02N/3 M5			2,5 - 25	57
D02V/3 M5			2,5 - 25	57



Plastic fuse base PPD01 and PPD02



Protection cover



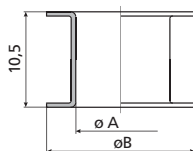
D01, D02

D01/3, D02/3

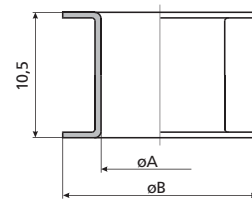
Protection cover with sealing fuse carrier for fuse base D01

Gauge piece

V D01 for fuse base E 14		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
2	7,9	12
4	7,9	12
6	7,9	12
10	9,1	12

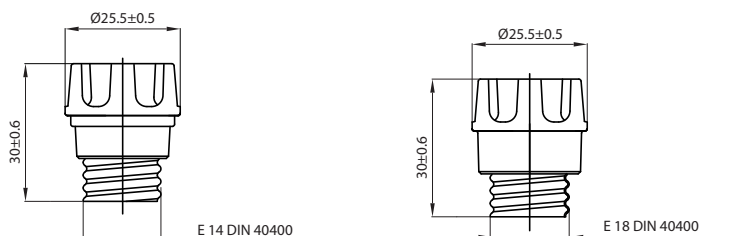


V D02 for fuse base E 18		
I_n [A]	dimension	
	$\varnothing A$	$\varnothing B$
2*	7,9	16,6
4*	7,9	16,6
6*	7,9	16,6
10*	9,1	16,6
16*	10,3	16,6
20	11,5	16,6
25	12,7	16,6
35	13,9	16,6
50	15,1	16,6

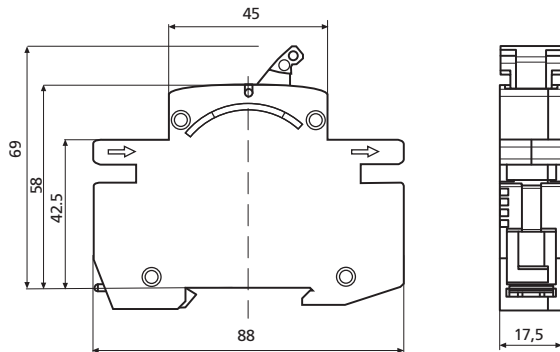


*For using fuse-links D01 and fuse bases D02.

Fuse carrier D0



Fuse - switch disconnecter VLD01



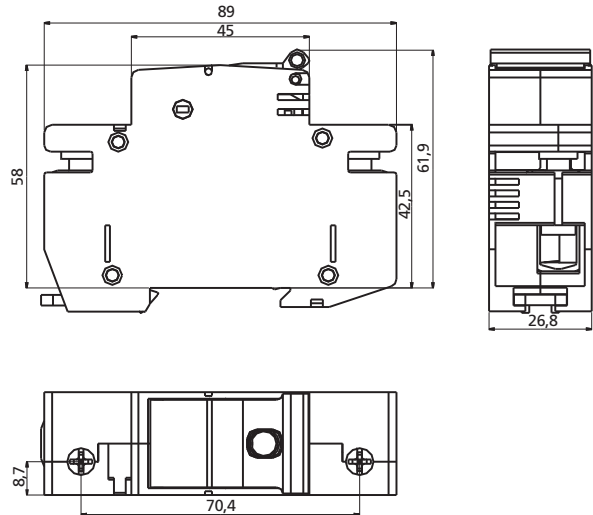
Technical data:

Rated voltage U_n	230 V, 230/400 V, 400 V a.c.
Rated current I_n	2-6 A, 10 A, 16 A
Rated frequency f_n	45-62 Hz
Utilization category	AC22
Mechanical life	10.000 cycles
Electrical life	5.000 cycles
Poles	1p, 1p+N, 2p, 3p, 3p+N
Standards	VDE 0638, DIN 43880
Connection	25 mm ²

Switch - disconnecter - fuse STVD02

Technical data:

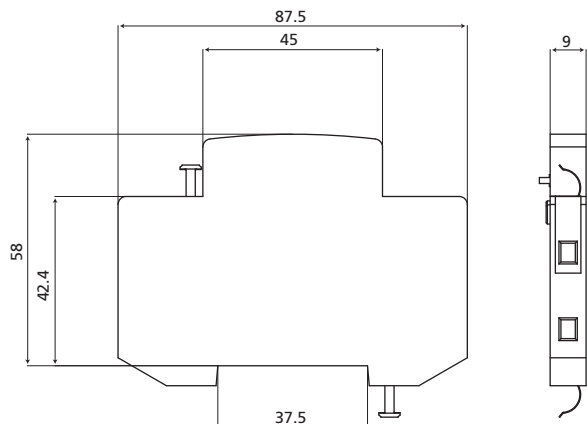
Standards	VDE 0638 EN 60 947-3, DIN VDE 0113, DIN VDE 0110
Number of poles	1p, 1p+N, 2p, 3p, 3p+N
Rated voltage	230/400 V a.c., 110 V (2p) d.c.
Rated breaking capacity	50 kA
Rated insulation voltage	400 V
Rated impulse resistance voltage	6000 V
Category of use according to DIN VDE 0638	AC 22(63 A), AC 23(35 A), DC 22 (63 A)
Category of use according to DIN E 60 947-3	AC-22A (63A/400V a.c.), AC-23A (35A/400V a.c.), DC-22B (63A/110V d.c.)
Mechanical life	1.500 cycles
Electrical life	8.000 cycles
Temperature of environment	-5°C to +40°C
Air humidity	90%
Degree of protection	IP 00 according to DIN 40 050
Connection clamps	Up to 35 mm ² (multiwire conductor) with screw +/-
Possibility of sealing	in ON or OFF position



Auxiliary switch PS STV

Technical data:

Rated current I_n	AC12 (6A/230V a.c.) DC12 (1A/110V d.c.)
Rated conditional short circuit current	1 kA at 20 A fuse link
Standards	EN 62019



Cylindrical fuse-links

Cylindrical fuse-link CH

Rated current
1-100 A

Fusing characteristics
gG, aM

Application: Cylindrical fuse-links are used as the most secure protection of electrical installations, control, and signal circuits against overloads and short circuit currents. Their dimensions comply with IEC 60269-1 and IEC 60269-2-1. They are used mainly in industrial areas, since their dimensions allow for voltages of up to 690V. The most common sizes are the following four: 8x32, 10x38, 14x51 and 22x58.



CH8				
rated current/rated voltage	code No. gG	code No. aM	weight [g]	packaging [pcs]
1A, 400V	002610000	002611000	4	10/860
2A, 400V	002610001	002611001		
4A, 400V	002610003	002611003		
6A, 400V	002610005	002611005		
8A, 400V	002610006	002611006		
10A, 400V	002610007	002611007		
12A, 400V	002610008	002611008		
16A, 400V	002610009	002611009		
20A, 400V	002610011	002611011		
25A, 400V	002610013	002611013		



CH10				
rated current/rated voltage	code No. gG	code No. aM	weight [g]	packaging [pcs]
0.5A, 500V	002620017	002621017	7,5	10/500
1A, 500V	002620000	002621000		
2A, 500V	002620001	002621001		
4A, 500V	002620003	002621003		
6A, 500V	002620005	002621005		
8A, 500V	002620006	002621006		
10A, 500V	002620007	002621007		
12A, 500V	002620008	002621008		
16A, 500V	002620009	002621009		
20A, 500V(400V aM)	002620011	002621011		
25A, 500V(400V aM)	002620013	002621013		
32A, 400V	002620015	002621015		

**CH14**

rated current/rated voltage	code No. gG	code No. aM	weight [g]	packaging [pcs]
2A, 690V	002630001	002631001	18,6	10/200
4A, 690V	002630003	002631003		
6A, 690V	002630005	002631005		
8A, 690V	002630006	002631006		
10A, 690V	002630007	002631007		
12A, 690V	002630008	002631008		
16A, 690V	002630009	002631009		
20A, 690V	002630011	002631011		
25A, 690V	002630013	002631013		
32A, 690V (500V aM)	002630015	002631015		
40A, 500V	002630017	002631017		
50A, 500V (400V aM)	002630019	002631019		

**CH14****NEW!**

type	code No.	Size	weight [g]	packaging [pcs]
SRF 10	002636004	14x51	18,6	10/200
SRF 20	002636005			
SRF 30	002636006			
SRF 40	002636007			

**CH22**

rated current/rated voltage	code No. gG	code No. aM	weight [g]	packaging [pcs]
16A, 690V	002640009	002641009	51	10/480
20A, 690V	002640011	002641011		
25A, 690V	002640013	002641013		
32A, 690V	002640015	002641015		
40A, 690V	002640017	002641017		
50A, 500V (690V aM)	002640019	002641019		
63A, 500V	002640021	002641021		
80A, 500V	002640023	002641023		
100A, 500V	002640025	002641025		



Fuse disconnectors for cylindrical fuse-links

Advantages of fuse disconnecter PCF

→ 1-pole + N in one module.



□ Double connection clamps.



→ New method of mounting on the DIN rail and simple replacement.



→ LED indicator version



→ Extraction of entire fuse-link when changing.

→ Chamber for spare fuse-link.



→ Sealing possibility.

**Fuse disconnecter PCF 8**Rated current
max. 20 ARated operational voltage
400 VUtilization category
AC 22B**1-pole**

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002530001	-	58	12/108
		002530011	LED		

1-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002530002	-	70	12/108
		002530012	LED		

2-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002530003	-	120	6/54
		002530013	LED		

3-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002530004	-	180	4/36
		002530014	LED		

3-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002530005	-	195	4/36
		002530015	LED		



Fuse disconnecter PCF 10

Rated current
max. 32 A

Rated operational voltage
690 V a.c., 1000 V d.c.

Utilization category
AC 22B



1-polni

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002550001	-	58	12/108
		002550011	LED		
1000*	20	002550201	-	58	12/108

NEW! * For use in photovoltaic systems

1-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002550002	-	70	12/108
		002550012	LED		

2-polni

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002550003	-	120	6/54
		002550013	LED		
1000*	32	002550203	-	120	6/54

NEW! * For use in photovoltaic systems

3-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002550004	-	180	4/36
		002550014	LED		

3-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002550005	-	195	4/36
		002550015	LED		

**Fuse disconnecter PCF CC**Rated current
max. 30 ARated operational voltage
600 VUtilization category
AC22B

1-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
600	30	002550101	-	58	12/108
		002550111	LED		

1-pole + N					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
600	30	002550102	-	70	12/108
		002550112	LED		

2-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
600	30	002550103	-	120	6/54
		002550113	LED		

3-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
600	30	002550104	-	180	4/36
		002550114	LED		

3-pole + N					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
600	30	002550105	-	195	4/36
		002550115	LED		

**Accessories**

Fuse disconnecter PS PCF						
U_n [V]	I_n [A]	code No. PCF8	code No. PCF10	weight [g]	packaging [pcs]	contact
230	6	002559001	002559001	35	1/10	1 x b 1 x a/b



General information about fuse disconnecter VLC

The main characteristics of ETI fuse disconnectors are:

- Compliance with IEC 60947-1, IEC 60947-3, UL 512 and UL 486 E.
- Plastic parts are made of material resistant to high temperatures.
- All contact surfaces are silver plated.
- Mounting on standard DIN 35mm rail (DIN EN60715). The sizes 14x51 and 22x58 can be also fixed with screws on a flat base.
- For all sizes a version with electronic indicator is available. There are two technical types of indicator:
 - a) L (LED) with built in LED diode which blinks after the fuse-link operates. The internal circuit resistance is $2M\Omega$, thus the total dissipation is minimal. The indicator is capable of operating in conditions of open circuit with minimum capacitance between connection cables. Operating voltage range spans from 50 V to 690 V a.c. and d.c.
 - b) I (NEON) with neon lamp which is constantly lit after the fuse-link operates. The internal circuit resistance is $570k\Omega$, thus it is necessary that the circuit be closed in order for the indicator to function. The operational voltage range is 100 V to 750 V a.c.
- Modular design-it is possible to assemble multi pole versions on customer's site for VLC 8, VLC 10, VLC 14 and VLC 22.

Fuse disconnecter VLC 8

Rated current
max. 20 A

Rated operational voltage
400 V

Utilization category
AC22B



1-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002521000	-	65	12/108
		002521100	L-LED		
		002521200	I-NEON		

1-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002522000	-	128	6/54
		002522100	L-LED		
		002522200	I-NEON		

2-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002523000	-	124	6/54
		002523100	L-LED		
		002523200	I-NEON		

3-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002524000	-	187	4/36
		002524100	L-LED		
		002524200	I-NEON		

3-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
400	20	002525000	-	270	3/27
		002525100	L-LED		
		002525200	I-NEON		

**Fuse disconnecter VLC 10**

Rated current max. 32 A	Rated operational voltage 690 V	Utilization category AC 22B
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1-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002541000	-	65	12/108
		002541100	L-LED		
		002541200	I-NEON		

1-pole + N					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002542000	-	128	6/54
		002542100	L-LED		
		002542200	I-NEON		

2-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002543000	-	124	6/54
		002543100	L-LED		
		002543200	I-NEON		

3-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002544000	-	187	4/36
		002544100	L-LED		
		002544200	I-NEON		

3-pole + N					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	32	002545000	-	270	3/27
		002545100	L-LED		
		002545200	I-NEON		

**Fuse disconnecter VLC CC**

Rated current max. 30 A	Rated operational voltage 600 V	Utilization category AC 22B
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1-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
600	30	002541300	-	65	12/108

2-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
600	30	002543300	-	124	6/45

3-pole					
U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
600	30	002544300	-	187	4/36



Fuse disconnecter VLC 14

Rated current
max. 50 A

Rated operational voltage
690 V

Utilization category
AC22B



1-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	50	002561000	-	100	12/96
		002561100	L-LED		

1-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	50	002562000	-	222	6/48
		002562100	L-LED		

2-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	50	002563000	-	201	6/48
		002563100	L-LED		

3-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	50	002564000	-	308	4/32
		002564100	L-LED		

3-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	50	002565000	-	437	3/24
		002565100	L-LED		

Fuse disconnecter VLC 22

Rated current
max. 100 A

Rated operational voltage
690 V

Utilization category
AC21B

1-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	100	002571000	-	160	3/105
		002571100	L-LED		

**1-pole + N**

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	100	002572000	-	355	2/48
		002572100	L-LED		

2-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	100	002573000	-	310	2/48
		002573100	L-LED		

3-pole

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	100	002574000	-	480	1/35
		002574100	L-LED		

3-pole + N

U_e/U_i [V]	I_{max} [A]	code No.	indicator	weight [g]	packaging [pcs]
690	100	002575000	-	680	1/24
		002575100	L-LED		

**Accessories****Auxiliary switch PS VLC**

U_n [V]	I_n [A]	code No.	code No.	weight [g]	packaging [pcs]	contact
250	5	VLC14	VLC22	50	1/10	1 x make 1 x break
		002569001	002579001			

Auxiliary switch PS VLC is intended to be mounted with disconnectors VLC 14 and VLC 22 for all versions (1p, 2p, 2p+N, 3p, 3p+N). The width of apparatus is 9 mm, other dimensions comply with VLC 14 and VLC 22 series switches. Auxiliary switch PS VLC signals the operation of CH 14 or CH 22 fuse-links only in the case a fuse-link is fitted with striking pin - see IEC 60 269-2-1 Figure 1a (III)“.

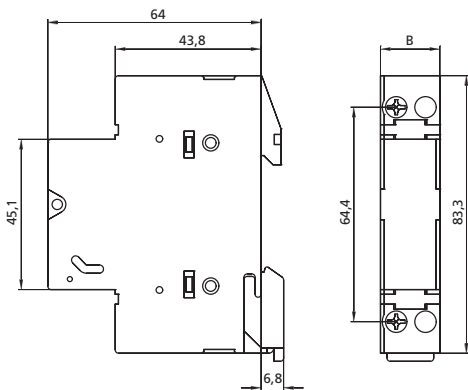


Fuse disconnectors for cylindrical fuse-links

Technical data

Type	VLC8	PCF8	VLC10	PCF10	VLC CC	PCF CC	VLC 14	VLC22	PCF DC
Number of poles	1p, 1p+N, 2p, 3p, 3p+N				1p, 2p, 3p		1p, 1p+N, 2p, 3p, 3p+N		1p, 2p
Type of current	a.c.								d.c.
Utilization category	AC-22B							AC21-B	DC20-B
Rated Operational voltage Ue (V)	400	400	690	690	600	600	690	690	1000
Rated frequency (Hz)					60		50		0
Rated impulse withstand voltage Uimp (kV)	8								
Rated operational current (A)	20	20	32	32	30	30	50	125	20
Rated short time withstand Icw (A)	240	240	390	390	360	360	600	1500	240
Rated conditional short circuit current (kA)	50	100		200		100		25	
Cage clamps (max mm ²)	25	10	25	10	25	10	35	50	10
Maximal power dissipation (W)	2,5	2,5	3	3	3	3	5	9,5	3
Test reports	UL	Int.	CCA/CB, UL, CSA	CCA/CB, UL	Int.	Int.	CCA/CB, UL, CSA	CCA/CB	Int.

Fuse disconnecter PCF



Fuse disconnecter PCF 8

type	dimension B
PCF 8 1p	17,5
PCF 8 1p+N	17,5
PCF 8 2p	35
PCF 8 3p	52,5
PCF 8 3p+N	52,5

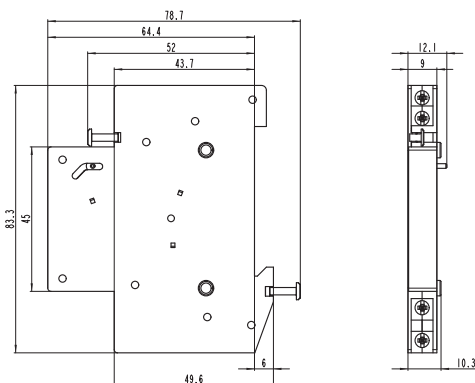
Fuse disconnecter PCF 10

type	dimension B
PCF 10 1p	17,5
PCF 10 1p+N	17,5
PCF 10 2p	35
PCF 10 3p	52,5
PCF 10 3p+N	52,5

Fuse disconnecter PCF CC

type	dimension B
PCF 10 1p	17,5
PCF 10 1p+N	17,5
PCF 10 2p	35
PCF 10 3p	52,5
PCF 10 3p+N	52,5

Auxiliary switch PS PCF

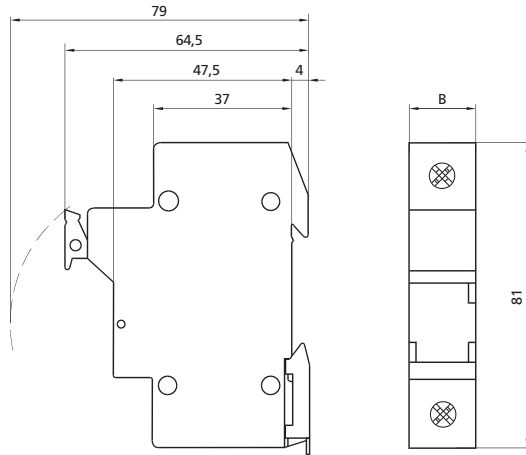




Fuse disconnecter VLC

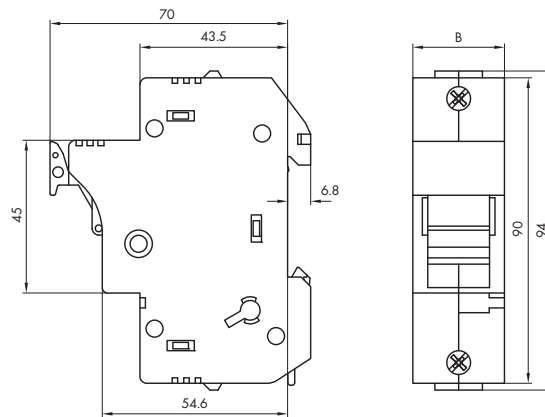
Fuse disconnecter VLC 8, VLC 10

type	dimension B
VLC 8, 10 1p	17,5
VLC 8, 10 1p+N	35
VLC 8, 10 2p	35
VLC 8, 10 3p	52,5
VLC 8, 10 3p+N	70



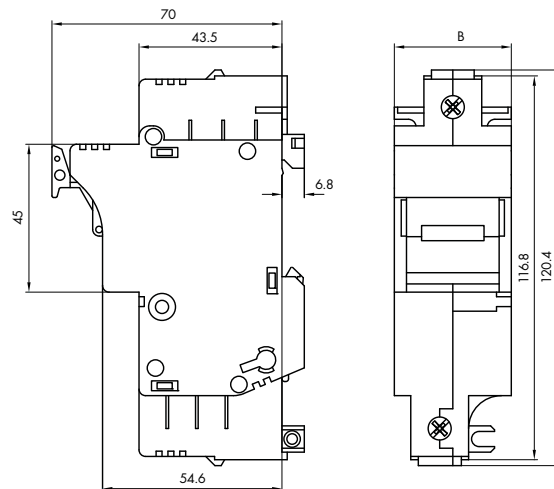
Fuse disconnecter VLC 14

type	dimension B
VLC 14 1p	27
VLC 14 1p+N	54
VLC 14 2p	54
VLC 14 3p	81
VLC 14 3p+N	108

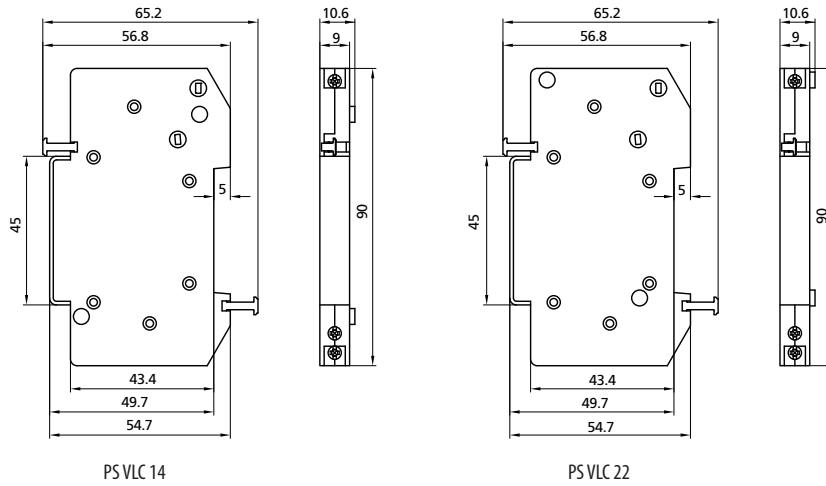


Fuse disconnecter VLC 22

type	dimension B
VLC 22 1p	35,6
VLC 22 1p+N	71,2
VLC 22 2p	71,2
VLC 22 3p	106,8
VLC 22 3p+N	142,4



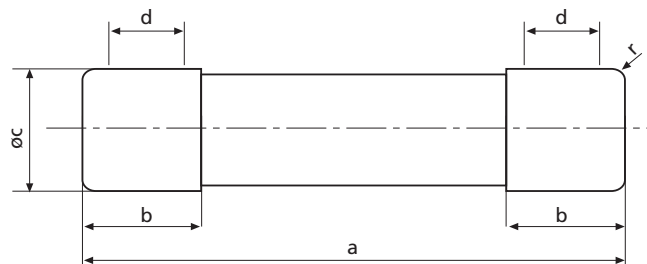
Auxiliary switch VLC



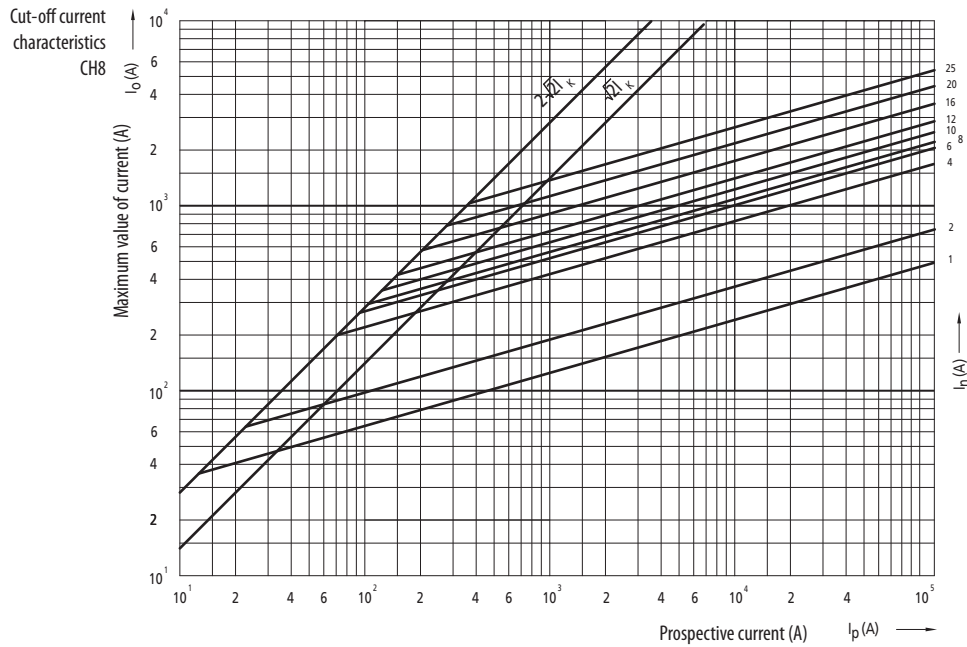
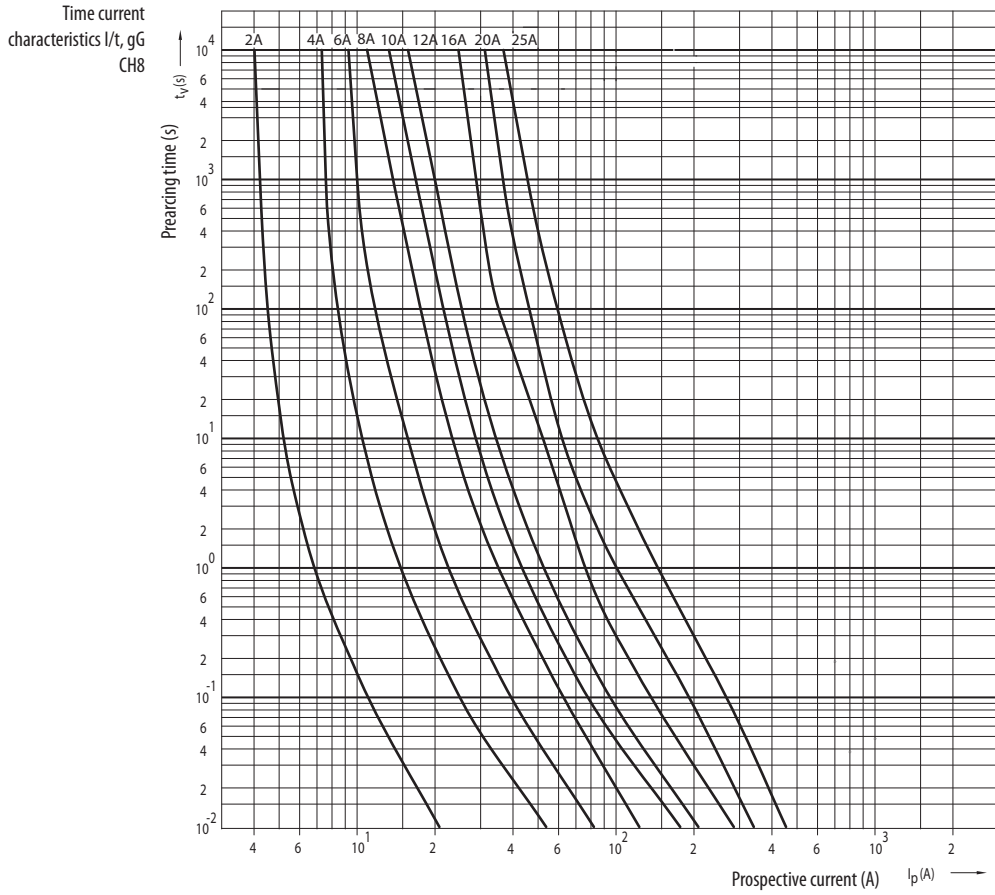
Cylindrical fuse-link

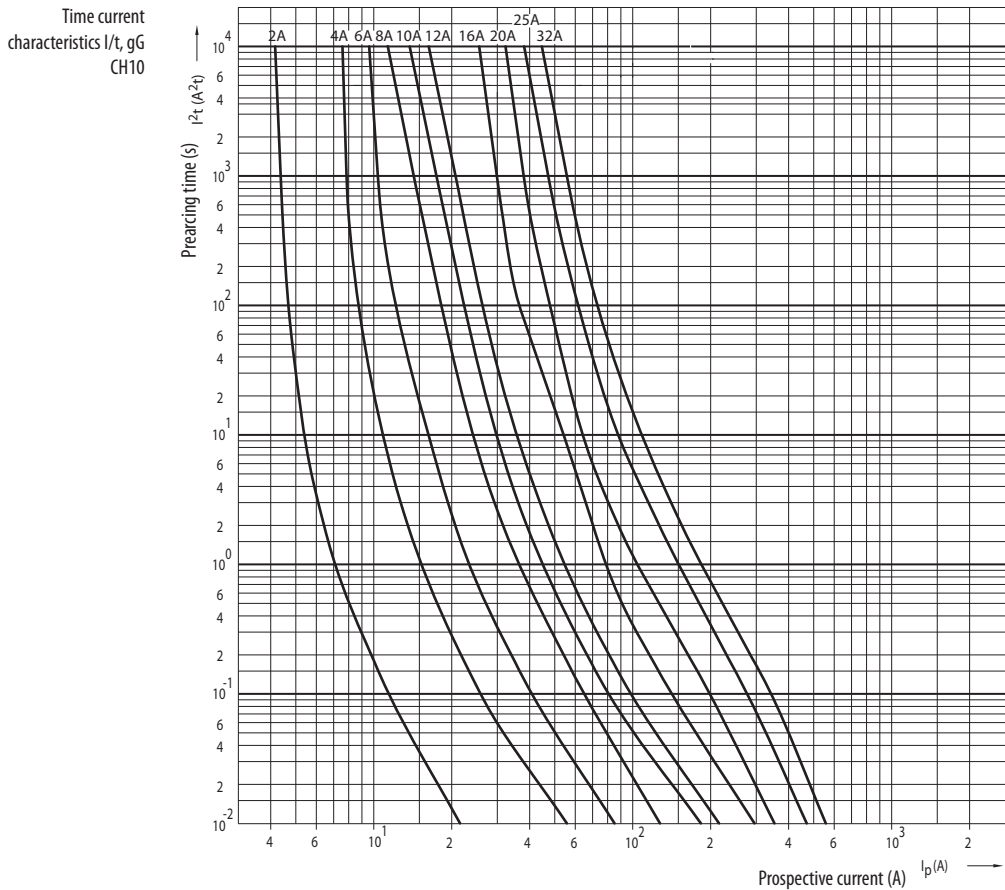
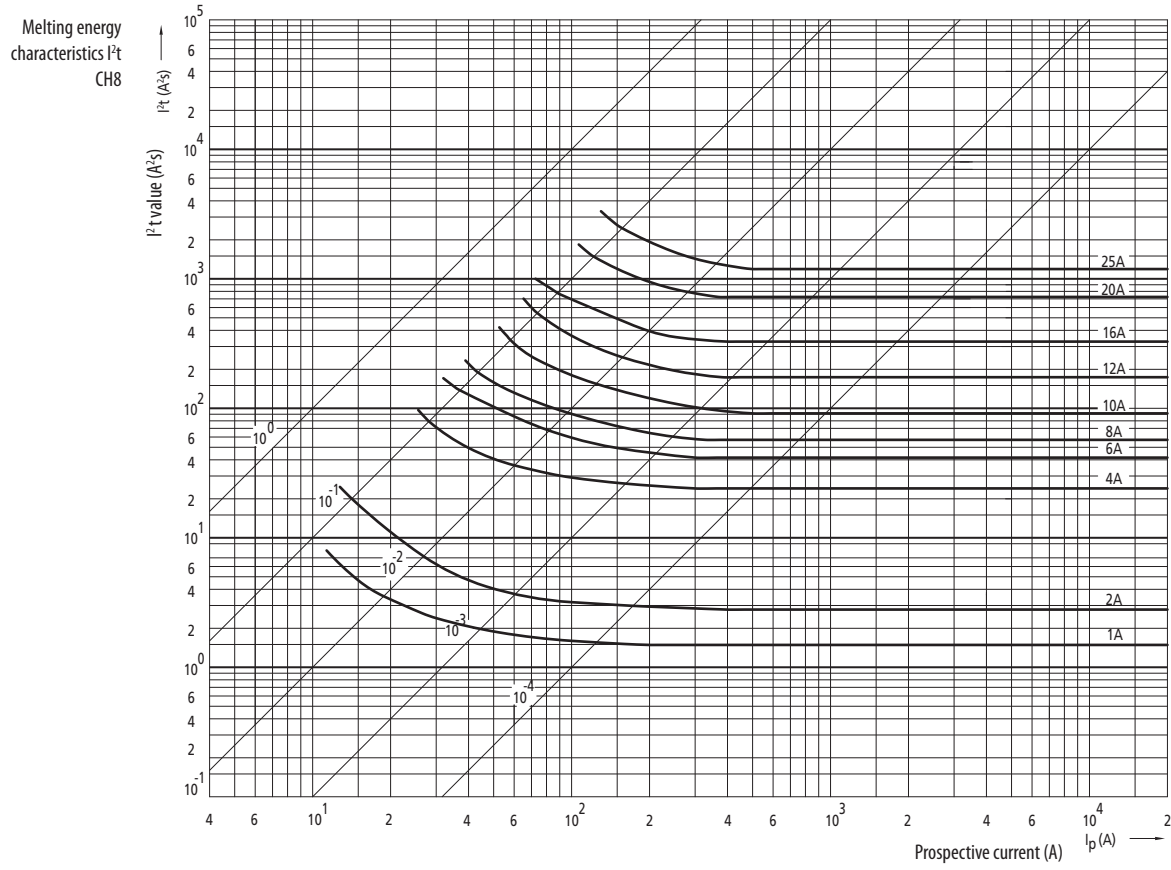
Technical data	
Rated voltage	400 V a.c., 500 V a.c., 690 V a.c.
Rated current	CH 8 1-25 A/400 V
	CH 10 0,5-25 A/500 V (20-25 A/400 A aM), 32 A/400 V
	CH 14 2-32 A/690 V (32 A/500 V aM), 40-50 A/500 V (50 A/400 V aM)
	CH 22 16-40 A/690 V, 50-100 A/500 V (50 A/690 V aM)
Rated frequency	50 Hz
Rated breaking capacity	100 kA
Characteristics	gG, aM
Body material	ceramic
Material of contact parts	CuZn28, gal.Ni, gal.Ag

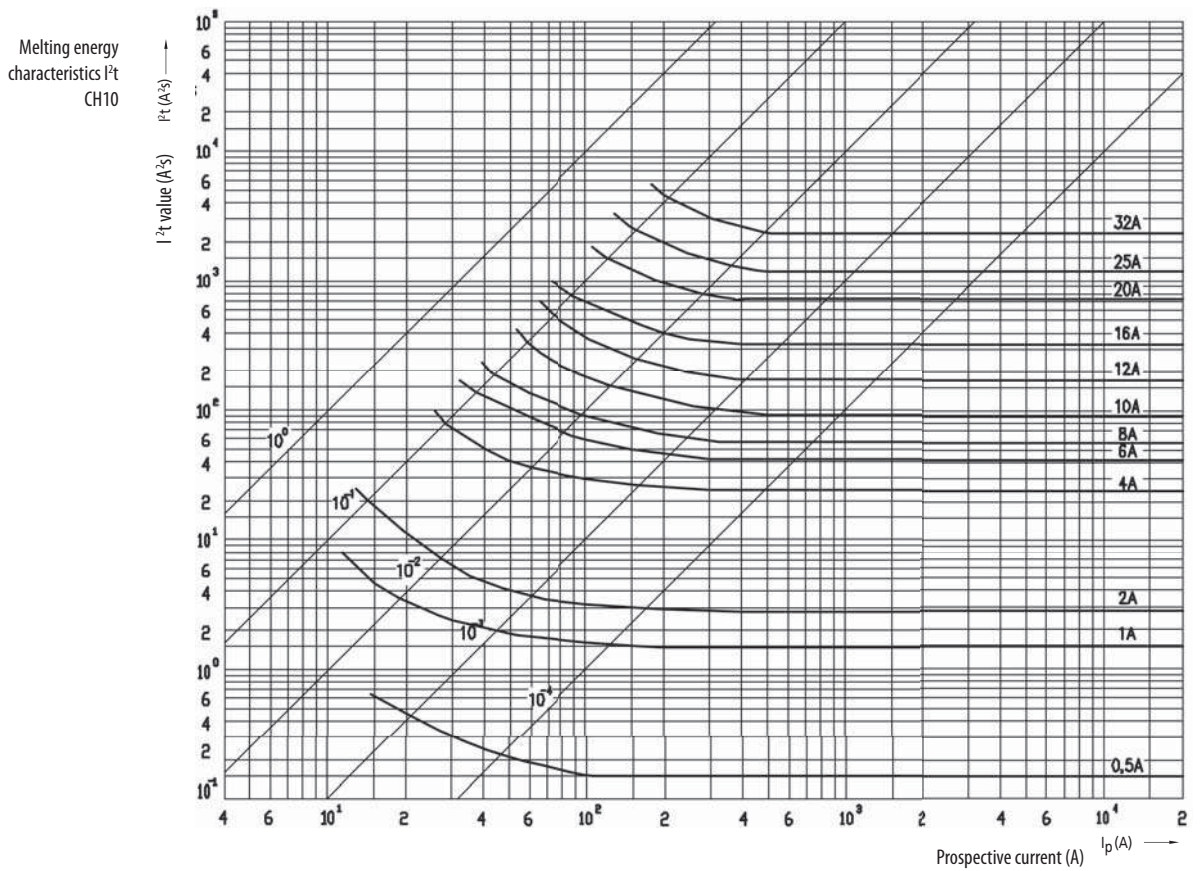
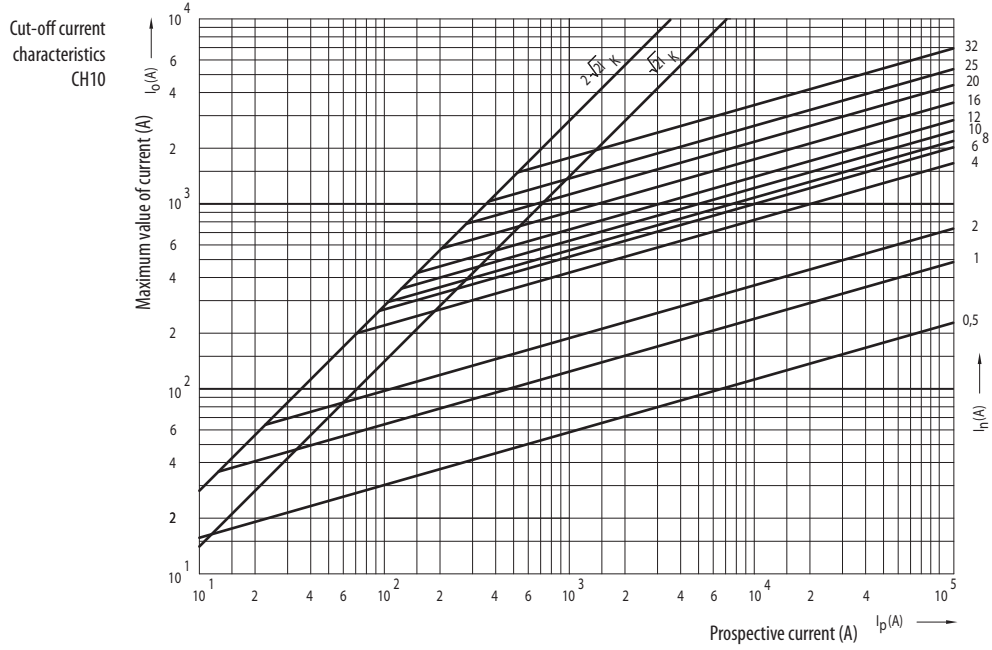
size	a	b _{max}	c	d _{min}	r
8 x 32	31,5±0,5	6,7	8,5±0,1	4	1±0,5
10 x 38	38,0±0,6	10,5	10,3±0,1	6	1,5±0,5
14 x 51	51,0±0,6/-1	13,8	14,3±0,1	7,5	±1
22 x 58	58,0±0,1	16,2	22,2±0,1	11	±1



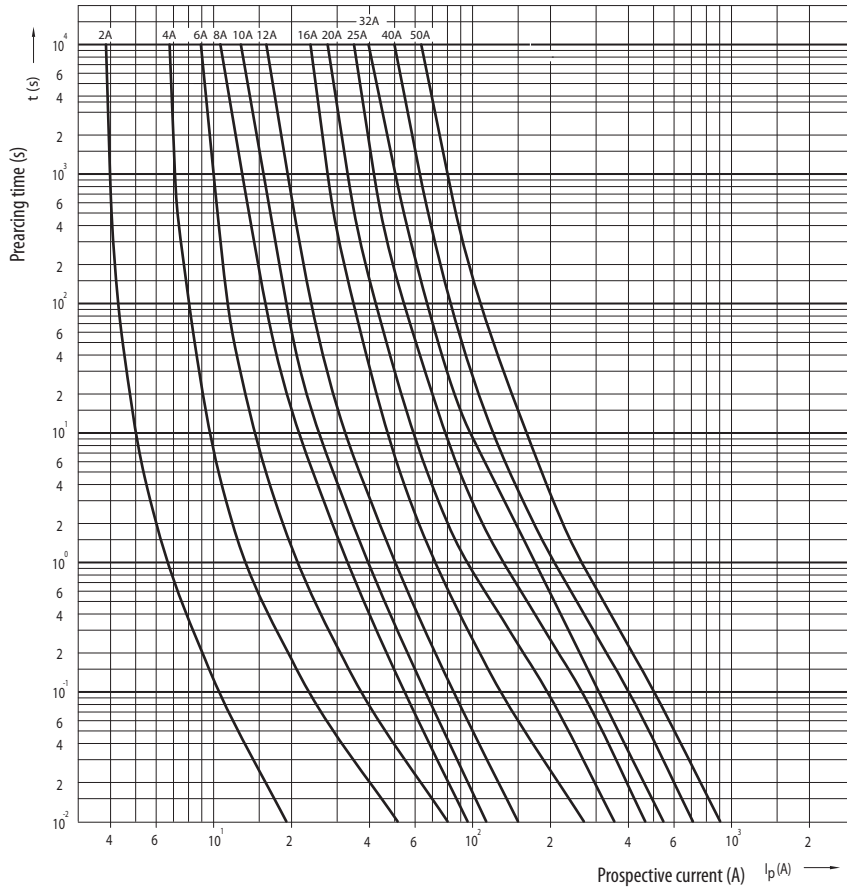
Technical data CH14 -SRF				
type	8/20 μsec surge rating (A)	Melting I ² t (A ² s)	Total I ² t (A ² s)	I _{peak} at 130 kA
SRF 10	10.000	2.360	10.370	8.320
SRF 20	20.000	5.490	17.700	10.430
SRF 30	30.000	16.750	39.880	13.540
SRF 40	40.000	33.680	72.800	17.480



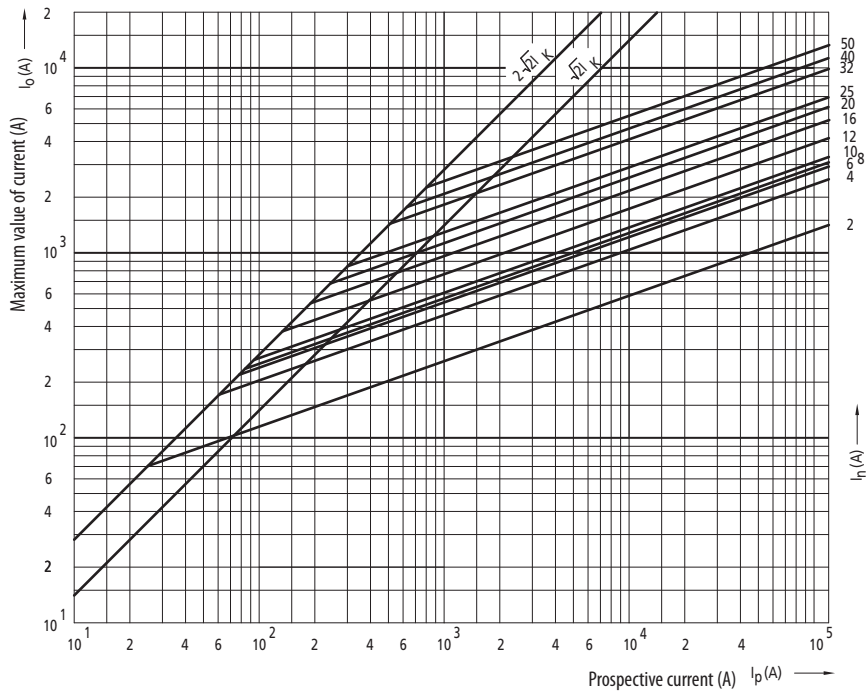


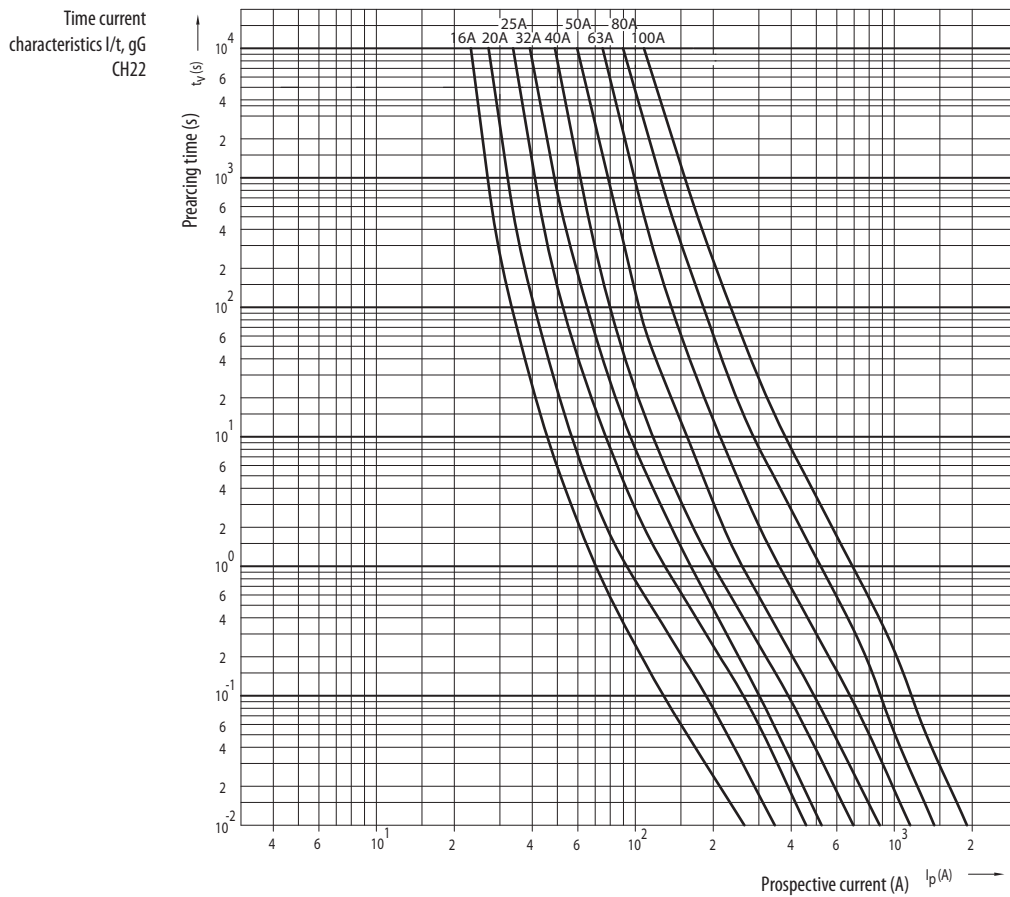
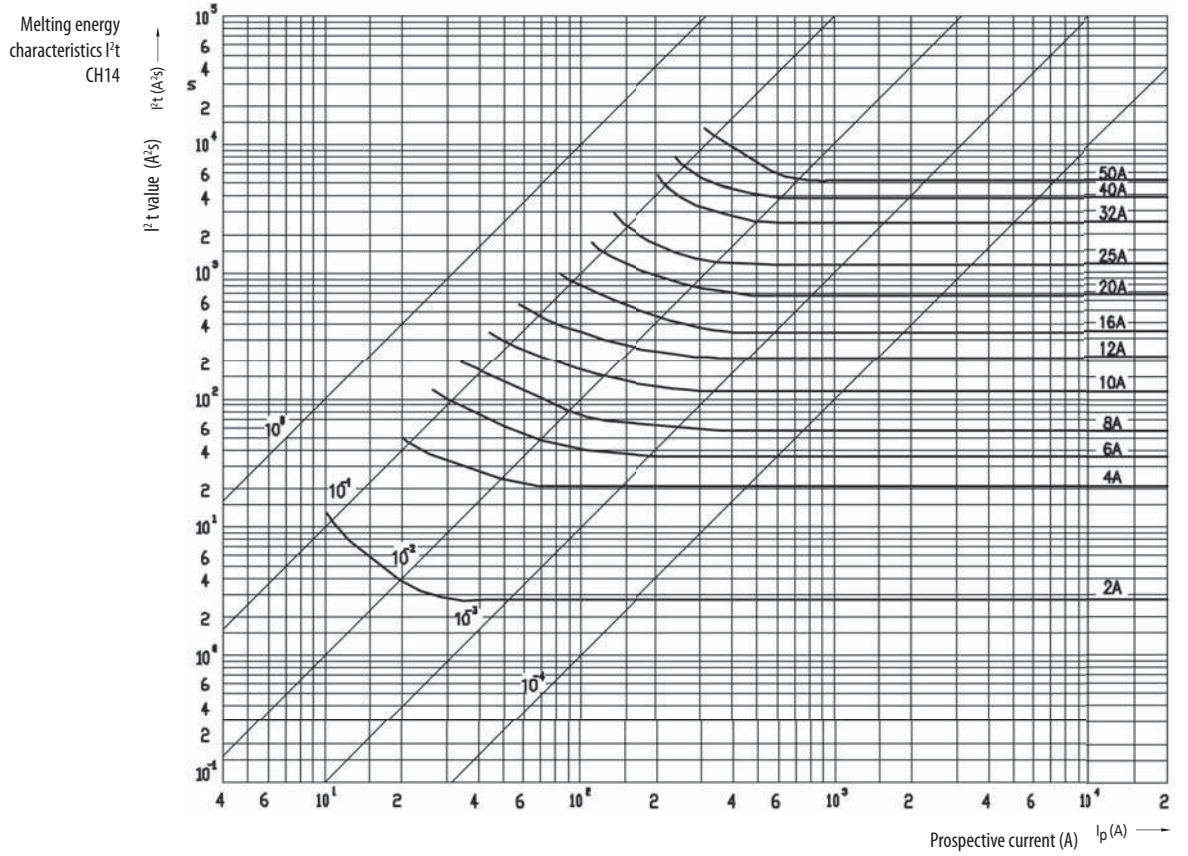


Time current characteristics I/t, gG CH14

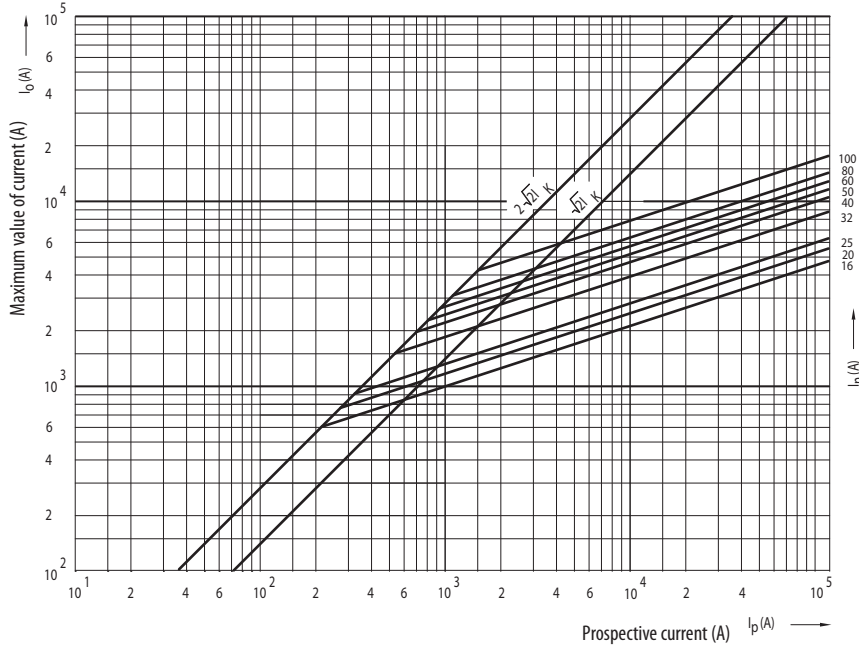


Cut-off current characteristics CH14

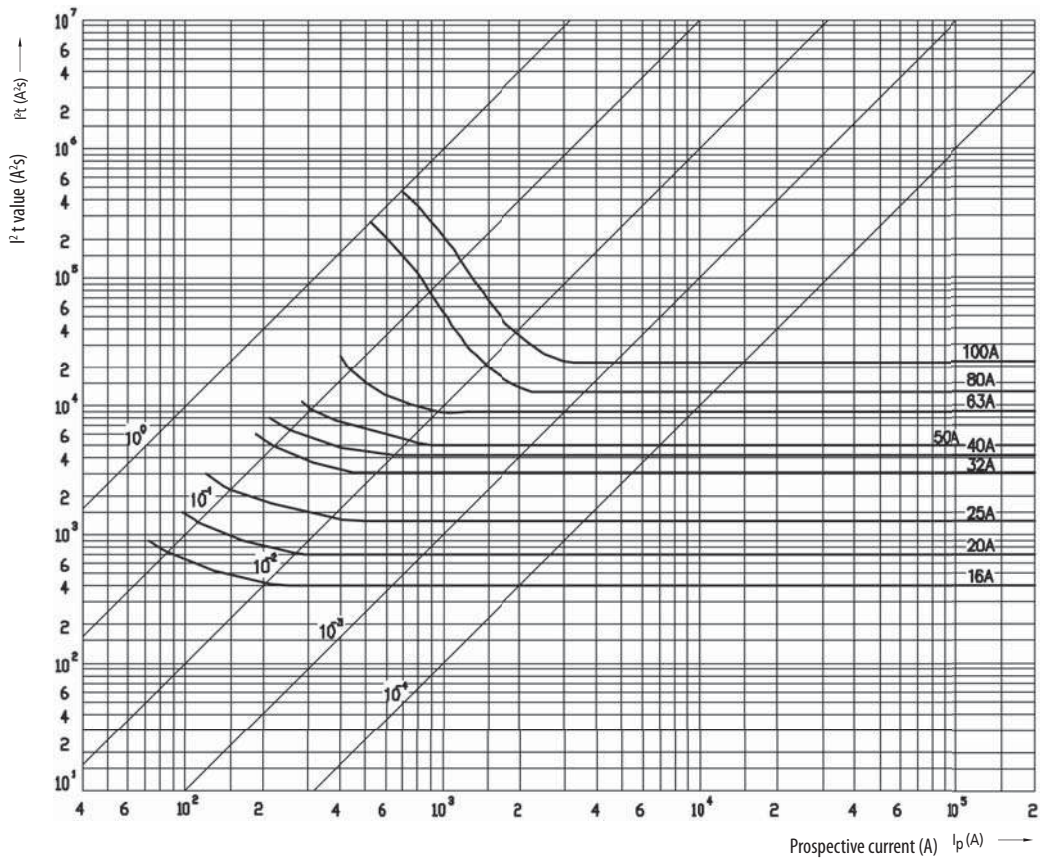




Cut-off current characteristics CH22



Melting energy characteristics I²t CH22



Low voltage NH knife-blade fuse-links

NV 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
- Rated voltages: 400V a.c., 500 Va.c., 690V a.c. and 1000V a.c and up to 440V d.c. In case of use in d.c. voltages, consultation with ETI technical team is recommended.
- 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/gL: IEC 60269-1:2005 / EN 60269-1:1998+A1:2005 IEC 60269-2:1986+Corr.1:1996+A11995+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 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 placed 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/gL

Rated current
2-1600 A

Breaking capacity
120 kA

Rated voltage
400, 500, 690 V



rated current [A]	NV/NH 00 C KOMBI gG			NV/NH 00 CI KOMBI gG*			weight [g]	packaging [pcs]
	code No.			code No.				
	~ 400V	~ 500V	~ 690V	~ 400V	~ 500V	~ 690V		
2	004181101	004181201	004181301	004191101	004191201	004191301	125	3/120
4	004181102	004181202	004181302	004191102	004191202	004191302	125	3/120
6	004181103	004181203	004181303	004191103	004191203	004191303	125	3/120
10	004181104	004181204	004181304	004191104	004191204	004191304	125	3/120
16	004181105	004181205	004181305	004191105	004191205	004191305	125	3/120
20	004181106	004181206	004181306	004191106	004191206	004191306	125	3/120
25	004181107	004181207	004181307	004191107	004191207	004191307	125	3/120
32	004181108	004181208	004181308	004191108	004191208	004191308	125	3/120
35	004181109	004181209	004181309	004191109	004191209	004191309	125	3/120
40	004181110	004181210	004181310	004191110	004191210	004191310	125	3/120
50	004181111	004181211	004181311	004191111	004191211	004191311	125	3/120
63	004181112	004181212		004191112	004191212		125	3/120
80	004181113	004181213		004191113	004191213		125	3/120
100	004181114	004181214		004191114	004191214		125	3/120

* INSULATED

**NEW!****NV/NH 00 C gG with striker pin**

rated current [A]	code No.		weight [g]	packaging [pcs]
	~ 690 V			
2	004111172		135	3
4	004111173		135	3
6	004111174		135	3
10	004111175		135	3
16	004111176		135	3
20	004111177		135	3
25	004111178		135	3
32	004111179		135	3
35	004111180		135	3
40	004111181		135	3

rated current [A]	NV/NH 00 KOMBI gG			NV/NH 00 I KOMBI gG*			weight [g]	packaging [pcs]
	code No.							
	~ 400 V	~ 500 V	~ 690 V	~ 400 V	~ 500 V	~ 690 V		
63			004182312			004192312	173	3/90
80			004182313			004192313	173	3/90
100			004182314			004192314	173	3/90
125	004182115	004182215	004182315	004192115	004192215	004192315	173	3/90
160	004182116	004182216		004192116	004192216		173	3/90

* INSULATED

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

rated current [A]	code No.		weight [g]	packaging [pcs]
	~ 690 V			
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	~ 690 V		
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





rated current [A]	NV/NH 1 C KOMBI gG			NV/NH 1 CI KOMBI gG*			weight [g]	packaging [pcs]
	code No.			code No.				
	~ 400V	~ 500V	~ 690V	~ 400V	~ 500V	~ 690V		
25	004184107	004184207	004184307	004194107	004194207	004194307	233	3/45
32	004184108	004184208	004184308	004194108	004194208	004194308	233	3/45
35	004184109	004184209	004184309	004194109	004194209	004194309	233	3/45
40	004184110	004184210	004184310	004194110	004194210	004194310	233	3/45
50	004184111	004184211	004184311	004194111	004194211	004194311	233	3/45
63	004184112	004184212	004184312	004194112	004194212	004194312	233	3/45
80	004184113	004184213	004184313	004194113	004194213	004194313	233	3/45
100	004184114	004184214	004184314	004194114	004194214	004194314	233	3/45
125	004184115	004184215	004184315	004194115	004194215	004194315	233	3/45
160	004184116	004184216		004194116	004194216		233	3/45

* INSULATED

rated current [A]	NV/NH 1 KOMBI gG/gL			NV/NH 1 I KOMBI gG/gL*			weight [g]	packaging [pcs]
	code No.			code No.				
	~ 400 V	~ 500 V	~ 690 V	~ 400 V	~ 500 V	~ 690 V		
63	004184120	004184220	004184320	004194120	004194220	004194320	430	3/24
80	004184121	004184221	004184321	004194121	004194221	004194321	430	3/24
100	004184122	004184222	004184322	004194122	004194222	004194322	430	3/24
125	004184123	004184223	004184323	004194123	004194223	004194323	430	3/24
160	004184124	004184224	004184324	004194124	004194224	004194324	430	3/24
200	004184117	004184217	004184317	004194117	004194217	004194317	430	3/24
224	004184118	004184218	004184318	004194118	004194218	004194318	430	3/24
250	004184119	004184219	004184319	004194119	004194219	004194319	430	3/24

* INSULATED

NEW!

NV/NH 1 gG with striker pin			
rated current [A]	code No.	weight [g]	packaging [pcs]
	~ 690 V		
63	004113340	452	3
80	004113341	452	3
100	004113342	452	3
125	004113343	452	3
160	004113344	452	3
200	004113345	452	3
224	004113346	452	3
250	004113347	452	3



rated current [A]	NV/NH 2 C KOMBI gG			NV/NH 2 CI KOMBI gG*			weight [g]	packaging [pcs]
	code No.			code No.				
	~ 400 V	~ 500 V	~ 690 V	~ 400 V	~ 500 V	~ 690 V		
63	004185112	004185212	004185312	004195112	004195212	004195312	430	3/15
80	004185113	004185213	004185313	004195113	004195213	004195313	430	3/15
100	004185114	004185214	004185314	004195114	004195214	004195314	430	3/15
125	004185115	004185215	004185315	004195115	004195215	004195315	430	3/15
160	004185116	004185216	004185316	004195116	004195216	004195316	430	3/15
200	004185117	004185217	004185317	004195117	004195217	004195317	430	3/15
224	004185118	004185218	004185318	004195118	004195218	004195318	430	3/15
250	004185119	004185219	004185319	004195119	004195219	004195319	430	3/15

* INSULATED

rated current [A]	NV/NH 2 KOMBI gG			NV/NH 2 I KOMBI gG*			weight [g]	packaging [pcs]
	code No.			code No.				
	~ 400 V	~ 500 V	~ 690 V	~ 400 V	~ 500 V	~ 690 V		
280	004185120	004185220	004185320	004195120	004195220	004195320	500	3/15
300	004185121	004185221	004185321	004195121	004195221	004195321	500	3/15
315	004185122	004185222	004185322	004195122	004195222	004195322	500	3/15
355	004185123	004185223		004195123	004195223		500	3/15
400	004185124	004185224		004195124	004195224		500	3/15

* INSULATED

NEW!

NV/NH 2 gG with striker pin

rated current [A]	code No.	weight	packaging
	~ 690 V	[g]	[pcs]
160	004114345	593	3
200	004114346	593	3
224	004114347	593	3
250	004114348	593	3
300	004114349	593	3
315	004114350	593	3





NV/NH 3 C KOMBI gG					
rated current [A]	code No.			weight [g]	packaging [pcs]
	~ 400 V	~ 500 V	~ 690 V		
250	004186119	004186219	004186319	510	3/12
280	004186120	004186220	004186320	510	3/12
300	004186121	004186221	004186321	510	3/12
315	004186122	004186222	004186322	510	3/12
355	004186123	004186223		510	3/12
400	004186124	004186224		510	3/12



NV/NH 3 KOMBI gG					
rated current [A]	code No.			weight [g]	packaging [pcs]
	~ 400 V	~ 500 V	~ 690 V		
355			004186328	923	3/12
400			004186329	923	3/12
425	004186130	004186230	004186330	923	3/12
500	004186131	004186231	004186331	923	3/12
560	004186132	004186232		923	3/12
630	004186133	004186233		923	3/12



NEW!

NV/NH 3 gG with striker pin			
rated current [A]	code No.	weight [g]	packaging [pcs]
	~ 690 V		
250	004115120	895	3
300	004115121	895	3
315	004115122	895	3
400	004115123	895	3
425	004115124	895	3
500	004115125	895	3



NV/NH 4 gG			
rated current [A]	code No.	weight [g]	packaging [pcs]
	500 V		
630	004116101	2130	1/12
710	004116102	2130	1/12
800	004116103	2130	1/12
900	004116105	2130	1/12
1000	004116104	2130	1/12
1250	004116106	2130	1/12

**NV/NH 4a gG**

rated current [A]	code No.			weight [g]	packaging [pcs]
	500 V	SI	690 V		
630	004116108	004176026	004176105	2170	1/12
710	004116109	004176027	004176106	2170	1/12
800	004116110	004176028	004176107	2170	1/12
900	004116111	004176029	004176108	2170	1/12
1000	004116112	004176030	004176109	2170	1/12
1250	004116113	004176031	004176110	2170	1/12
1500	004116119	004176032		2170	1/12
1600	004116120	004176033		2170	1/12

NV/NH 4a gG with striker pin**NEW!**

rated current [A]	code No.	weight	packaging
	~ 690 V	[g]	[pcs]
500	004116186	2835	1
630	004116187	2835	1
800	004116188	2835	1
1000	004116189	2835	1
1250	004116190	2835	1

NV/NH 1 1000 V a.c. gG

rated current [A]	code No.	weight	packaging
		[g]	[pcs]
10	004113703	487	3/24
16	004113704	487	3/24
20	004113705	487	3/24
25	004113706	487	3/24
32	004113707	487	3/24
35	004113708	487	3/24
40	004113710	487	3/24
50	004113711	487	3/24
63	004113712	487	3/24
80	004113713	487	3/24
100	004113714	487	3/24
125	004113715	487	3/24
160	004113716	487	3/24
200	004113717	487	3/24



Fuse-link NV/NH aM

Rated current **2-1250 A** Breaking capacity **100 kA** Rated voltage **690 V**

Fuse-links with aM characteristics are intended for protection of switchgears and controlgears as well as motors in motor drives where gG characteristics do not comply with all requirements of successful protection of these devices. They are made in all standard NV sizes from 00 to 4a for all standard rated currents and for voltages to 690 V. Their main duty is to enable a full usage of switchgears and controlgears in the region of starting currents and to prevent sparking or destruction of protective contacts in case of short-circuit currents. It should be noted that these fuse-links are intended only for protection in the limited region (in the region of short-circuit currents).



NV/NH fuse-link aM

rated current [A]	code No. 690 V							
	NV 00 C kombi	NV 00 kombi	NV 0	NV 1 kombi	NV 2 C kombi	NV 2 kombi	NV3 kombi	NV4a
2	004181401							
4	004181402							
6	004181403							
10	004181404			004184425				
16	004181405		004112125**	004184426				
20	004181406		004112126**	004184427				
25	004181407		004112127**	004184428				
32	004181408		004112128**					
35	004181409		004112129**	004184429	004185429			
40	004181410		004112130**	004184430	004185430			
50	004181411	004182411	004112131**	004184431	004185431			
63	004181412	004182412	004112132**	004184420	004185412			
80	004181413*	004182413	004112133**	004184421	004185413			
100	004181414*	004182414	004112134**	004184422	004185414			
125		004111735**	004112135**	004184423	004185415			
160		004111736**	004112136**	004184424	004185416	004185425		
200				004184417	004185417	004185426		
224				004184418	004185418	004185427		
250				004184419	004185419	004185428		
280						004185420		
300						004185421		
315						004185422		
355						004185423	004186428	
400						004185424	004186429	
425							004186430	
500							004186431	
630								004187432**
710								004187433**
800								004187434**
900								004187435**
1000								004187436**
1250								004187437**

Weight and packaging the same as for gG fuse-links.

* 500 V

** NOT in KOMBI version



Fuse-link NV/NH gF

Rated current **20-250 A** Breaking capacity **100 kA** Rated voltage **400 V**

Fuse-links with gF current characteristics are intended for protection of low voltage installations and energy lines, where expected short circuit currents are low. We offer all standard rated currents in sizes NV00C, NV00, NV1 C and NV1 for voltages of up to 400V.

NV/NH fuse-link gF

rated current [A]	code No. 400 V				weight [g]	packaging [pcs]
	NV/NH 00 C	NV/NH 00	NV/NH 1 C	NV/NH 1		
20	004119200		004139200		the same as for gG fuse-links	the same as for gG fuse-links
25	004119201		004139201			
32	004119202		004139202			
40	004119203		004139203			
50	004119204		004139204			
63		004119100	004139205			
80		004119101	004139206			
100		004119102	004139207			
125		004119103	004139208			
160		004119104	004139209			
200				004139100		
250				004139101		



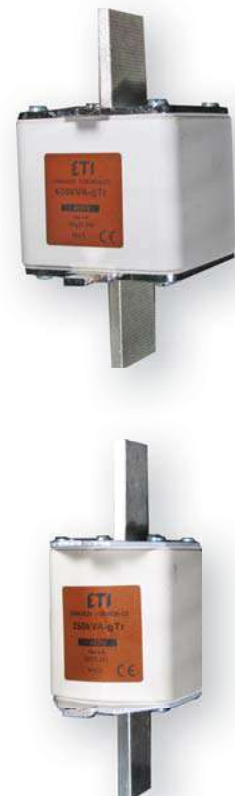
Fuse-link NV/NH gTr

Rated transformer power **50-1000 kVA** Breaking capacity **100 kA**

NV/NH fuse-link gTr

rated transformer power [kVA]	code No.			weight [g]	packaging [pcs]
	NV/NH 2	NV/NH 3	NV/NH 4a		
50	004114400*	004115400*	004116400	the same as for gG fuse-links	the same as for gG fuse-links
75	004114401*	004115401*	004116401		
100	004114402*	004115402*	004116402		
125	004114403*	004115403*	004116403		
160	004114404*	004115404*	004116404		
200	004114405*	004115405*	004116405		
250	004114406*	004115406*	004116406		
315		004115407*	004116407		
400		004115408*	004116408		
500		004115409	004116409		
630		004115410	004116410		
800			004116411		
1000			004116412		

* KOMBI version



NV/NH

Rated 400

Fuse bases

Fuse base for NV/NH knife-blade fuse-links

Rated current
125-1250 A

Rated voltage
690 V



1-pole fuse base NVPP 00

type	I_n [A]	code No.	weight [g]	packaging [pcs]
NVPP 00 M8-2M6	160	004121101	147	3/111
NVPP 00 M8-M8	160	004121102	147	3/111
NVPP 00 2M6-2M6	160	004121103	147	3/111
NVPP 00 M8-2M6	160	004121115	187	3/75
NVPP 00 M8-M8	160	004121116	187	3/75
NVPP 00 2M6-2M6	160	004121117	187	3/75
NVPP 00 M8-2M6	160	004121130	204	3/75
NVPP 00 M8-M8	160	004121131	204	3/75
NVPP 00 2M6-2M6	160	004121132	204	3/75
NVPP 00 M8-2M6	160	004121106	147	3/111
NVPP 00 M8-M8	160	004121107	147	3/111
NVPP 00 2M6-2M6	160	004121108	147	3/111
NVPP 00 M8-2M6	160	004121121	187	3/75
NVPP 00 M8-M8	160	004121122	187	3/75
NVPP 00 2M6-2M6	160	004121123	187	3/75
NVPP 00 M8-2M6	160	004121136	204	3/75
NVPP 00 M8-M8	160	004121137	204	3/75
NVPP 00 2M6-2M6	160	004121138	204	3/75

NVPP basic version of the fuse base.

NVPP 00 fuse base with insulating sleeves.

NVPP 00 fuse base with insulating sleeves and protection cover.

NVPP 00 basic version of the fuse base with possibility of fastening on mounting rail.

NVPP 00 fuse base with insulating sleeves with possibility of fastening on mounting rail.

NVPP 00 fuse base with insulating sleeves, protection cover and with possibility of fastening on mounting rail.

1-pole fuse base PK and PKI

type	I_n [A]	code No.	weight [g]	packaging [pcs]
PK 00 M8 - 2 x M6	160	004122001	170	3/120
PK 00 M8 - M8	160	004121007	170	3/120
PK 00 2 x M6 - 2xM6	160	004122007	170	3/120
PK 0 M8 - 2 x M6	160	004122009	258	3/90
PK 0 M8 - M8	160	004122002	258	3/90
PK 02 x M6 - 2 x M6	160	004122008	258	3/90
PK 1	250	004122003	598	3/42
PK 2	400	004122004	995	3/30
PK 3	630	004122005	1202	3/24
PK 4	1250	004122006	3030	1/7
PKI 1	250	004122010	624	3/42
PKI 2	400	004122011	1033	3/30
PKI 3	630	004122012	1241	3/24
PK 1/1000V	250	004132014	665	3/30



**1-pole fuse base PPR**

type	I_n [A]	code No.	weight [g]	packaging [pcs]
PPR 00	125	004121003	137	3/75
PPR 00 D1	125	004121008	265	3/42

3-pole fuse base NVPP 00

type	I_n [A]	code No.	weight [g]	packaging [pcs]
NVPP 00/3 M8-2M6	160	004131101	490	1/25
NVPP 00/3 M8-M8	160	004131102	490	1/25
NVPP 00/3 2M6-2M6	160	004131103	490	1/25
NVPP1 00/3 M8-2M6	160	004131115	560	1/25
NVPP1 00/3 M8-M8	160	004131116	560	1/25
NVPP1 00/3 2M6-2M6	160	004131117	560	1/25
NVPP1P 00/3 M8-2M6	160	004131130	610	1/25
NVPP1P 00/3 M8-M8	160	004131131	610	1/25
NVPP1P 00/3 2M6-2M6	160	004131132	610	1/25
NVPPN 00/3 M8-2M6	160	004131106	490	1/25
NVPPN 00/3 M8-M8	160	004131107	490	1/25
NVPPN 00/3 2M6-2M6	160	004131108	490	1/25
NVPPNI 00/3 M8-2M6	160	004131121	560	1/25
NVPPNI 00/3 M8-M8	160	004131122	560	1/25
NVPPNI 00/3 2M6-2M6	160	004131123	560	1/25
NVPPNIP 00/3 M8-2M6	160	004131136	610	1/25
NVPPNIP 00/3 M8-M8	160	004131137	610	1/25
NVPPNIP 00/3 2M6-2M6	160	004131138	610	1/25

NVPP basic version of the fuse base.

NVPP1 fuse base with insulating sleeves.

NVPP1P fuse base with insulating sleeves and protection cover.

NVPPN basic version of the fuse base with possibility of fastening on mounting rail.

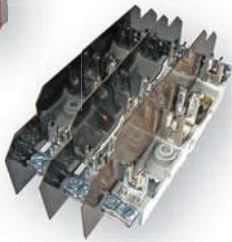
NVPPNI fuse base with insulating sleeves with possibility of fastening on mounting rail.

NVPPNIP fuse base with insulating sleeves, protection cover and with possibility of fastening on mounting rail.

3-pole fuse base PK and PKI

type	I_n [A]	code No.	weight [g]	packaging [pcs]
PK 00/3 M8 - 2 x M6	160	004132001	555	1/25
PK 00/3 M8 - M8	160	004132008	555	1/25
PK 00/3 2xM6 - 2xM6	160	004132015	555	1/25
PK 0/3 M8 - 2 x M6	160	004132007	650	1/18
PK 0/3 M8 - M8	160	004132002	650	1/18
PK 0/3 2xM6 - 2xM6	160	004132016	650	1/18
PK 1/3	250	004132003	1900	1/10
PK 2/3	400	004132004	3035	1/6
PK 3/3	630	004132005	3800	1/6
PK I 1/3	250	004132009	1990	1/10
PK I 2/3	400	004132010	2990	1/6
PK I 3/3	630	004132011	3890	1/10



**3-pole fuse base Z**

type	I_n [A]	code No.	weight [g]	packaging [pcs]
PPI 00Z	160	004121012	830	2
PK2Z	400	004132006	3360	2
PK12Z	400	004132012	3480	2

3-pole fuse base PPR D

type	I_n [A]	code No.	weight [g]	packaging [pcs]
PPR 00 D	125	004121004	776	1/15

Earth clamp

type	I_n [A]	code No.	weight [g]	packaging [pcs]
NVPP 00/0 M8-2M6	160	004941501	140	3/111
NVPPN 00/0 M8-2M6	160	004941510	140	3/111
PP 00/0 M8-2M6	160	004941401	224	3/120
PK 00/0 M8-2M6	160	004941402	224	3/120
PK 1/0	250	004941404	590	3/42
PK 2/0	400	004941405	920	3/30
PK 3/0	630	004941406	920	3/24

Low voltage fuse-rails

NV fuse-rail sizes 00, 1, 2, 3

Characteristics of LV NV fuse-rails

The LV NV fuse-rails are three-pole bases of LV fuse-links, intended for busbar mounting. The LV NV fuse-rails comprises three single-pole connections in one unit. Each contact at an individual phase is connected to the phase on the busbar system. The other contacts are fitted with cable connecting terminals or intended for attachment of the following busbar system.

Use

The LV NV fuse-rails are mainly used for cable distribution and power supply systems.

Principle of operation

The LV NV fuse-rails are intended for insertion of LV fuse-links that are inserted and removed from the LV NV fuse-rails by means of a special handle (refer to Catalogue ETI - LV fuse-links, code number 4941111 and 4941100).

Design of LV NV fuse-rails

The insulated supporting body is made of one piece, the material is polyester reinforced with glass fibres. A silver-plated contact system, fitted with tinned extinction chambers, ensures a low power dissipation, optimum thermal characteristics, and a high breaking capacity. The contact derived parts are intended for cable connections or for attachment of the next busbar system. All the live parts are protected against accidental contacts - in conformity with BVG A2. A special form of the contact part cover provides for safe insertion and removal of the LV fuse-links.

Short description

The LV NV fuse-rails are manufactured in compliance with the DIN 43623 standard, and are mostly used for installation into cable distribution cabinets and power supply systems.

They are available in sizes of 00/160 A to 3/630 A. Covers provide insulation protection for all live parts.

All the LV NV fuse-rails are fitted with new, modern Delta contact systems allowing optimum pressure contact between the fuse cartridge and the LV NV fuse-rails, resulting in extremely low level of power dissipation and heating-up.

All standard insulated LV NV fuse-rails shown in the Catalogue are intended for general usage.

By the customer's request can be designed and made, indeed, appropriate individual configurations - in such cases please contact our sales engineers, or call us to the factory.

Advantages

- upper or lower cable connection - as required
- optimum pull contact
- simple installation
- modular design

General LV NV fuse-rail table

size	code No.	busbar system	product designation	connection description	protection cover	weight [kg]	packaging [pcs]
00	001691015	100	VL00/100 M8-2	flat connection - screw M8	/	0,8	1/1
00	001691016	100	VL00/100 SP.95-2	prism 35 - 95 mm ²	/	0,8	1/1
00	001691020	185	VL00 M8	flat connection - screw M8	/	1,5	1/1
00	001691021	185	VL00 SP.95	V-clip 10-95 mm ²	/	1,5	1/1
1	001691024	185	VL1 M10	screw M10	terminal compartment cover	3,5	1/1
1	001693024	185	VL1G M10	screw M10	terminal compartment cover	3,5	1/1
1	001691025	185	VL1 SP.300	V-clip 25-300 mm ²	terminal compartment cover	3,5	1/1
1	001693025	185	VL1G SP.300	V-clip 25-300 mm ²	terminal compartment cover	3,5	1/1
2	001691022	185	VL2 M12	screw M12	terminal compartment cover	3,8	1/1
2	001693022	185	VL2G M12	screw M12	terminal compartment cover	3,8	1/1
2	001691023	185	VL2 SP.300 P	V-clip 25-300 mm ²	terminal cover	3,8	1/1
2	001693031	185	VL2G SP.300	V-clip 25-300 mm ²	terminal compartment cover	3,8	1/1
2	001691026	185	VL2 SP.240	V-clip 25-240 mm ²	terminal compartment cover	3,8	1/1
2	001693026	185	VL2G SP.240	V-clip 25-240 mm ²	terminal compartment cover	3,8	1/1
2	001691029	185	VL2 M12x35	screw M12x35	terminal compartment cover	3,8	1/1
2	001693029	185	VL2G M12x35	screw M12x35	terminal compartment cover	3,8	1/1
2	001691030	185	VL2 SP.240 P	V-clip 25-240 mm ²	terminal cover	3,8	1/1
2	001691031	185	VL2 SP.300	V-clip 25-300 mm ²	terminal compartment cover	3,8	1/1
3	001691027	185	VL3 M12	screw M12	terminal compartment cover	4,3	1/1
3	001691028	185	VL3 SP.300	V-clip 25-300 mm ²	terminal compartment cover	4,3	1/1



**Table of accessories for LV NV fuse-rails**

type	code No.	description	packaging [pcs]
busbar connection KS 00/5-10	001691040	busbar thickness 5-10mm	1/3
busbar connection KS 00/10-15	001691041	busbar thickness 10-15mm	1/3
protection covering of contact connections ZP 123/10HA	001691045	for sizes 1,2,3	1/1
busbar covering PZ 00/185	001691046	mounting thread M8	1/1
busbar covering PZ 00/100	001691047	mounting thread M8	1/1
busbar covering PZ 123/185	001691048	mounting thread M12	1/1
busbar support PP 100/185	001691055	for busbar system 100 mm and 185 mm	1/1

Busbar connection

Busbar connections are used for drill-free direct contacting of the strip-fuseways on the busbars.

Protection cover

The terminal compartment and terminal covers provide probe-safe frontal protective covering of the terminal compartment.

Busbarcover, screw-type

The screw-type covers of 100 mm width are fixed at busbars with M 12 thread or stud. The covers of 50mm width are fixed on busbars or adapters with M8 thread.

Busbar support

The 3-polebusbar support is used for the fixing of flat bars at 100 mm and 185 mm distances.



busbar support



busbar connection



busbar covering



protection covering of contact connections



NV strip type fuse-switch-disconnector sizes 00, 1, 2, 3

Characteristics of the NV strip type fuse-switch-disconnectors

The NV strip type fuse-switch-disconnectors are three-pole bases of NV fuse cartridges, intended for busbar mounting. A NV strip type fuse-switch-disconnectors comprises three single-pole connections in one unit. Each contact at an individual phase is connected to the phase on the busbar system. The other contacts are fitted with cable connecting terminals or intended for attachment of the following busbar system.

Use

The NV strip type fuse-switch-disconnectors are mainly used for cable distribution and power supply systems, transformer systems, where they are connected when electric energy transmission is required. The following rated currents are available: 160 A, 250 A, 400 A, 630 A.

Principle of operation

The NV strip type fuse-switch-disconnectors are used in combination with NV fuse cartridges protecting the circuit against shorts. The upper part of the NV strip type fuse-switch-disconnectors with insulation class IP3X is provided with a separate test opening through which the live state can be tested according to DIN VDE 0680, part 5.

Design of the NV strip type fuse-switch-disconnectors

The insulated supporting body is made of one piece, the material is polyester reinforced with glass fibres. A silver-plated contact system, fitted with tinned extinction chambers, ensures a low power dissipation, optimum thermal characteristics, and a high breaking capacity. The contact derived parts are intended for cable connections or for attachment of the next busbar system. All the live parts are protected against accidental contacts - in conformity with BVG A2. A special form of the contact part cover provides for safe insertion and removal of the NV fuse cartridges.

Short description

The NV strip type fuse-switch-disconnectors are mostly used for installation into cable distribution cabinets and power supply systems - in accordance with IEC/EN 60439-1. The NV strip type fuse-switch-disconnectors have been tested in accordance with IEC/EN 60947-3. They are available for the sizes of fuse cartridges from 00 to 3, with both single-pole and three-pole switching-on.

Advantages

- upper or lower cable connection - as required
- optimum pull contact
- direct connection
- double strip connection up to 1250 A
- universal cover
- high breaking capacity
- low power dissipation
- use of standard earthing connections
- modular construction

Main types of the NV strip type fuse-switch-disconnectors - characteristics

Basically, as shown, there are several types of the NV strip type fuse-switch-disconnectors:

- for a three-pole switching-in
- for a single-pole switching-in
- for attachment directly to a busbar system
- with side contacts for a busbar system

All the NV strip type fuse-switch-disconnectors are fitted with new, modern Delta contact systems allowing optimum pressure contact between the fuse cartridge and the NV strip type fuse-switch-disconnectors, resulting in extremely low level of power dissipation and heating-up. All the standard NV strip type fuse-switch-disconnectors shown in the catalogue are intended for general usage. By the customer's request can be designed and made, indeed, appropriate individual configurations - in such cases please contact our sales engineers, or call us to the factory.



General table of NV strip type fuse-switch-disconnector-single-pole switching-in

size	code No	busbar system	product designation	product designation	switch lever	weight [kg]	packaging [pcs]
00	001692010	185	SL00 1P M8	flat connection - screw M8	standard	2,4	1/1
00	001692011	185	SL00 1P M8 P	flat connection - screw M8	retractable handle	2,4	1/1
00	001692012	185	SL00 1P SP.95	V-clip 10-95 mm ²	standard	2,4	1/1
1	001692110	185	SL1 1P M10	screw M10	standard	4,9	1/1
1	001694110	185	SL1G 1P M10	screw M10	standard	4,9	1/1
1	001692111	185	SL1 1P SP.300	V-clip 25-300 mm ²	standard	4,9	1/1
1	001694111	185	SL1G 1P SP.300	V-clip 25-300 mm ²	standard	4,9	1/1
1	001692112	185	SL1 1P SP.240	V-clip 25-240 mm ²	standard	4,9	1/1
1	001694112	185	SL1G 1P SP.240	V-clip 25-240 mm ²	standard	4,9	1/1
2	001692210	185	SL2 1P M12	screw M12	standard	4,9	1/1
2	001694210	185	SL2G 1P M12	screw M12	standard	4,9	1/1
2	001692211	185	SL2 1P SP.300	V-clip 25-300 mm ²	standard	4,9	1/1
2	001694211	185	SL2G 1P SP.300	V-clip 25-300 mm ²	standard	4,9	1/1
2	001692212	185	SL2 1P SP.240	V-clip 25-240 mm ²	standard	4,9	1/1
2	001694212	185	SL2G 1P SP.240	v-CLIP 25-240 mm ²	standard	4,9	1/1
3	001692310	185	SL3 1P M12	screw M12	standard	5,6	1/1
3	001692311	185	SL3 1P SP.300	V-clip 25-300 mm ²	standard	5,6	1/1
3	001692312	185	SL3 1P SP.240	V-clip 25-240 mm ²	standard	5,6	1/1

General tabel of NV strip type fuse-switch-disconnector-three-pole switching-in

size	code No	busbar system	product designation	connection description	weight [kg]	packaging [pcs]
00	001692034	100	SL00/100 3P M8-2	flat connection - screw M8	1	1/1
00	001692035	100	SL00/100 3P SP.70-2	V-clip 10-70 mm ²	1	1/1
00	001692032	185	SL00 3P M8	flat connection - screw M8	2,4	1/1
00	001692033	185	SL00 3P SP.95	V-clip 10-95 mm ²	2,4	1/1
1	001692130	185	SL1 3P M10	screw M10	4,9	1/1
1	001694130	185	SL1G 3P M10 *	screw M10	4,9	1/1
1	001692131	185	SL1 3P SP.300	V-clip 25-300 mm ²	4,9	1/1
1	001694131	185	SL1G 3P SP.300 *	V-clip 25-300 mm ²	4,9	1/1
1	001692132	185	SL1 3P SP.240	V-clip 25-240 mm ²	4,9	1/1
2	001692000	185	SL2 3P SP.300	V-clip 25-300 mm ²	4,9	1/1
2	001694000	185	SL2G 3P SP.300 *	V-clip 25-300 mm ²	4,9	1/1
2	001692230	185	SL2 3P M12	screw M12	4,9	1/1
2	001694230	185	SL2G M12 *	screw M12	4,9	1/1
2	001692231	185	SL2 3P SP.240	V-clip 25-240 mm ²	4,9	1/1
3	001692330	185	SL3 3P M12	screw M12	5,6	1/1
3	001692331	185	SL3 3P SP.300	V-clip 25-300 mm ²	5,6	1/1
3	001692332	185	SL3 3P SP.240	V-clip 25-240 mm ²	5,6	1/1

**"Gamma" contact (make short - circuit current 80 kA)

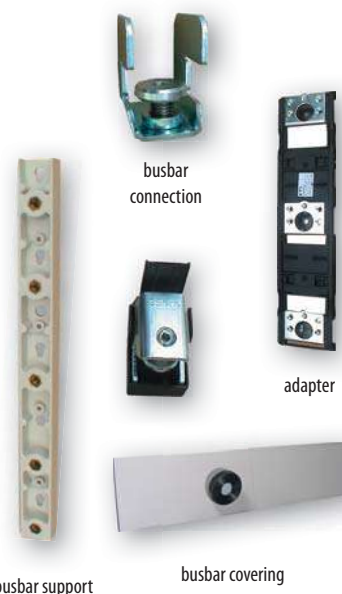
**NV strip type fuse-switch-disconnector with current transformer**

size	code No	busbar system	product designation	product designation	tokovni transformator	weight [kg]	packaging [pcs]
00	001693000	100	SL00/100 3P M8 150/5 Kl.1	flat connection, M8	150/5 class 1	1,7	1/1
1	001693010	185	SL1 3P M10 250/5 Kl.1	screw M10	250/5 class 1	3,1	1/1
2	001693020	185	SL2 3P M12 400/5 Kl.1	screw M12	400/5 class 1	4,6	1/1
3	001693030	185	SL3 3P M12 600/5 Kl.1	screw M12	600/5 class 1	4,6	1/1
00	001693040	100	SL00/100 3P SP.70 150/5 Kl.1	V-clip 10-70mm ²	150/5 class 1	1,7	1/1
1	001693050	185	SL1 3P SP.300 250/5 Kl.1	V-clip 25-300mm ²	250/5 class 1	3,1	1/1
2	001693060	185	SL2 3P SP.300 400/5 Kl.1	V-clip 25-300mm ²	400/5 class 1	4,6	1/1
3	001693070	185	SL3 3P SP.300 600/5 Kl.1	V-clip 25-300mm ²	600/5 class 1	4,6	1/1

Table of accessories for NV strip type fuse-switch-disconnector

type	code No.	description	packaging [pcs]
busbar connection KS 00/5-10	001691040	busbar thickness 5-10mm	1/3
busbar connection KS 00/10-15	001691041	busbar thickness 10-15mm	1/3
busbar connection KS 123/10	001692460	for size 1,2,3	1/1
adapter DA 185/185 42	001692411	for system 185 mm height 42 mm	1/1
adapter DA 185/100 52	001692412	for system 185/100mm, height 52 mm, for 2 x SL00	1/1
protection covering of contact connections ZP 00 HA	001692420	for size 00	1/1
protection covering of contact connections ZP 123/10HA	001692421	for size 1,2,3	1/1
busbar covering PZ 00/185	001691046	mounting thread M8	1/1
busbar covering PZ 00/100	001691047	mounting thread M8	1/1
busbar covering PZ 123/185	001691048	mounting thread M12	1/1
nameplate NP 00	001692430	for size 00	1/1
nameplate NP 123	001692431	for size 1,2,3	1/1
busbar support PP 100/185	001691055	for systems 100 mm and 185 mm	1/1
Deriv. connection OP L	001692440	for size 1,2,3	1/1
double connection DP 3x2 (6)*	001692450	for size 1,2,3	1/1
double protection cover 3x2/10HA*	001692422	for size 1,2,3	1/1
double terminal connections VS3/1250*	001692423	for size 1,2,3	1/1

* accessories for assembling: SL 1250 (2 paralel connected fuse-switch-disconnector)



busbar support

busbar covering



protection covering of contact connections

BUSBAR CONNECTION

Busbar connections are used for drill-free direct contacting of the strip-fuseways on the busbars.

PROTECTION COVER

The terminal compartment and terminal covers provide probe-safe frontal protective covering of the terminal compartment.

BUSBARCOVER, SCREW-TYPE

The screw-type covers of 100 mm width are fixed at busbars with M12 thread or stud. The covers of 50 mm width are fixed on busbars or adapters with M8 thread.

BUSBAR SUPPORT

The 3-pole busbar support is used for the fixing of flat bars at 100 mm and 185 mm distances.

DOUBLE CONNECTOR

The connector kits are used for parallel switching of 2 strips.

DOUBLE TERMINAL CONNECTION

The kit for 1250 A allows 2 strips to be connected at the terminal and 3 or 4 cables per phase to be connected.

NAMEPLATE

The designation plate mount is plugged on the strips at the end face. It allows fitting of an additional designation plate. When fitted in switch boards, it can also be used as support for a system cover.

BUSBAR ADAPTERS

The adapters are required for combining different strip sizes, e.g. size 00 with sizes 1 to 3.

DERIVED CONNECTION

The derived connection enables fuse-protected temporary connections (worksite electrical supply) to size 1 to 3 LV NV strip-fuseways.

NV disconnectors with fuses

NV disconnectors with fuses, sizes 00, 1, 2, 3, 4a

Disconnectors with fuses are intended for power distribution and protection of electric equipment and cords from undesired effects of overloads and short-circuits. Naturally, these benefits apply when the disconnectors are used with appropriate NV fuse-links with characteristics that are suited for the protection of cords or motors.

We offer a wide array of disconnectors with fuses, sizes 00, 1, 2, 3, and 4a, that are suitable for installation onto mounting brackets and DIN rails. You can choose from various sizes of 1-pole and 3-pole version; 2-pole and 4-pole versions will be supplied upon special request.



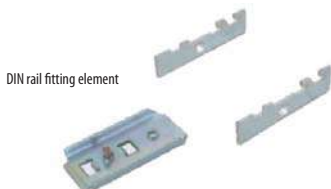
terminal strip



micro switch



cover



DIN rail fitting element

1-pole

size	code No.	type	weight [kg]	packaging [pcs]
00	001692492	HVL 00 1-p M8-M8	0,45	1/1
1	001692494	HVL 1 1-p M10-M10	1,5	1/1
3	001692496	HVL 3 1-p M10-M10	1,9	1/1
4a	001692498	HVL 4a 1-p M16 1250	5,3	1/1
4a	001692499	HVL 4a 1-p M16 1600	5,3	1/1

3-pole

size	code No.	type	weight [kg]	packaging [pcs]
00	001692550	HVL 00 3-p M8-M8 P	0,72	1/1
00	001692555	HVL 00 3-p SP70 P	0,72	1/1
00	001692556	HVL 00 3-p M8-SP70P	0,72	1/1
1	001692560	HVL 1 3-p M10-M10	2,5	1/1
2	001692570	HVL 2 3-p M10-M10	3,1	1/1
3	001692580	HVL 3 3-p M10-M10	4,8	1/1
4a	001692620	HVL 4a 3-p M16 1250	15,7	1/1
4a	001692630	HVL 4a 3-p M16 1600	15,7	1/1

Accessories

type	code No.	description	packaging [pcs]
1,5-70 mm ² SP HVL00	001692701	Terminal strip	3
SP HVL1	001692702	Terminal strip	3
SP HVL2	001692703	Terminal strip	3
SP HVL3	001692704	Terminal strip	3
MST 00	001692711	Micro switch	1
MST 1-3 1-p	001692712	Micro switch	1
MST 1-3 3-p	001692713	Micro switch	1
MST 4a 1p + 3p	001692714	Micro switch	1
PRS 00	001692721	Additional terminal strip cover	1
PRS 1 TOP	001692722	Additional terminal strip cover	1
PRS 2 TOP	001692723	Additional terminal strip cover	1
PRS 3 TOP	001692724	Additional terminal strip cover	1
PRS 1 BOTTOM	001692725	Additional terminal strip cover	1
PRS 2 BOTTOM	001692726	Additional terminal strip cover	1
PRS 3 BOTTOM	001692727	Additional terminal strip cover	1
DIN 00 100-150 mm	001692731	Element for fitting onto DIN rail	1



Universal earthing and short circuiting devices

Description

Earthing and short circuiting device is assembled from highly flexible copper leads with a transparent plastic insulation. Connection pieces are compressed and additionally bolted. Joints from the connection piece or cable lug to the cable insulation are enclosed by a stabilized tenacious elastic and transparent sleeve. Mechanical kinking protection guarantees reliable sealing against moisture ingress. Transparent insulation of the copper cables allows permanent visual inspection. Any damaged strands are recognized immediately. In order to protect the cable lugs against torsion and to reduce the dynamic forces in case of a short circuit, each cable lug sleeve is equipped with a share pin. The light-weight construction of the connection piece together with the soft kinking protection offers an improved protection for persons and installation. The device is rated for a temperature range of -25 °C up to +70 °C.

Universal earthing and short circuiting device

code No.	Standard
004589100	DIN VDE 0683 T1/03.88

3-phase earthing and short circuiting device

Cables made of highly flexible copper leads, cross section 35sqmm, with PVC-insulation. Connection piece compressed, bolted and equipped with a moulded, transparent and waterproof protection cover. Fully insulated screw-in connection coupling to be fixed with the earthing handle.

Short circuiting cables supplied in lengths:

320 / 520 / 720 mm

Length of the earthing cable: 1000mm.

Rated current ant time (I_r/t_r): 10kA/0.5s.



Plug-in blades for DIN-fuse holders

Plug-in blades made of red plastic material, metal part with threaded hole for torison-safe connection to fully-insulated connection coupling, fitted using the earthing handle



Earth connection clamp

Insulated earth connection clamp with flexible handle for screwing onto flat bars (width 3-6 mm), to be clam-ped from the top side. The flexible handle allows connections to be made when depth is limited.



Earthing handle

Earthing handle, one end is used to insert the plug-in blades and on the other end to fix the earthing and short circuiting device.



Accessories



NV separator uninsulated

type	I_N [A]	code No.	weight [g]	packaging [pcs]
NV L 00	160	004941201	82	5/60
NV L 0	160	004941202	115	5/40
NV L 1	250	004941203	137	5/40
NV L 2	400	004941204	208	5/40
NV L 3	630	004941205	294	5/40

NV separator insulated

tip	I_N [A]	code No.	weight [g]	packaging [pcs]
NVLI 0	160	004941215	70	5/60
NVLI 0	160	004941216	120	5/40
NVLI 1	250	004941217	145	5/40
NVLI 2	400	004941218	215	5/40
NVLI 3	630	004941219	315	5/40

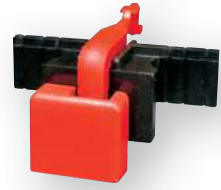
Handle

type	I_N [A]	code No.	weight [g]	packaging [pcs]
R 00-3	2-630	004941111	276	10
VR 00-3	2-630	004941100	420	30

**Signal Switch NVS 5**

type	code No.	weight [g]	packaging [pcs]
NVS 5	004117001	11,5	10/340

NVS 5 is used for signaling of interruption of fuse-links of the type NV / NH of the size NV / NH 00 C to NV / NH 3 (except NV / NH 1 ultra with knives for fastening with screws). NVS is activated through the indicator spring.

**Insulating sleeve of contact spring NVPP 00**

type	code No.	weight [g]	packaging [pcs]
NVPP 00	004129301	33	24/168

**Insulating sleeve of contact spring PK and PP**

type	code No.	weight [g]	packaging [pcs]
PP 00	004129201	15	24/168
PK 1	004129001	13	42/504
PK 2	004129002	19	18/216
PK 3	004129003	19	21/315

**Protection cover NVPP 00**

type	code No.	weight [g]	packaging [pcs]
NVPP 00	004129310	16	24/168

**Protection fuse-link**

type	code No.	weight [g]	packaging [pcs]
NVL00	004941206	30	10
NVL 1-3	004941207	78	10

**Base separating element**

type	code No.	weight [g]	packaging [pcs]
NVPP 00	004941310	18	40/1000

**Base separating elements**

type	code No.	weight [g]	packaging [pcs]
PP 00, PK 00	004941301	50	20/100
PK 0	004941302	50	20/100
PK 1	004941303	50	20/100
PK 2	004941304	50	20/100
PK 3	004941305	50	20/100



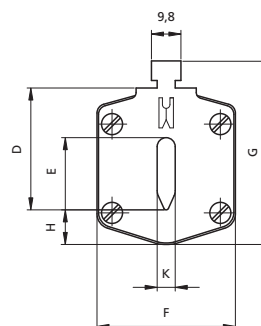
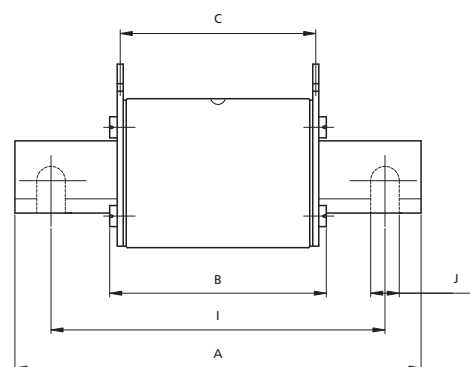


Low voltage NV/NH knife-blade fuse-links

Electrical characteristics	
Rated voltage U_n	400 Va.c., 500 Va.c., 690 V a.c.
Rated current I_n	2 - 1600 A
Breaking capacity at $1,1 U_n$	120 kA
Fusing characteristics	gG, aM, gF, gTr
Certified according to	DIN VDE0636-201 (1998-06)
Comply 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 comply with the standard	DIN43620 Parts 1 to 4
Two versions of covers	aluminium and plastic

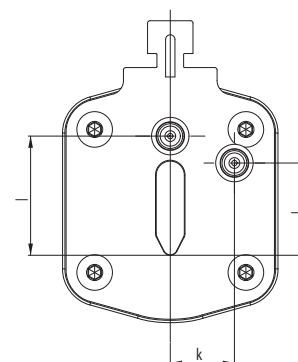
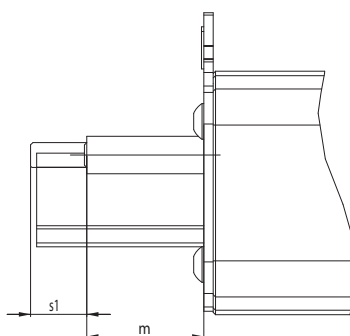
Fuse-link NV/NH gG

type	dimensions											
	A	B	C	D	E	F	G	H	I	J	K	
NV00 C	79	53	47	35	15	21	52	7,5			6	kombi
NV00 CI	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
NV1 C	135	68	65	40	15	28	61	12			6	kombi
NV1 CI	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
NV2 C	150	72	65	48	20	46	73	14			6	kombi
NV2 CI	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
NV3 C	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	
NV1/1000V	155	90	87	40	20	45	59	9			6	



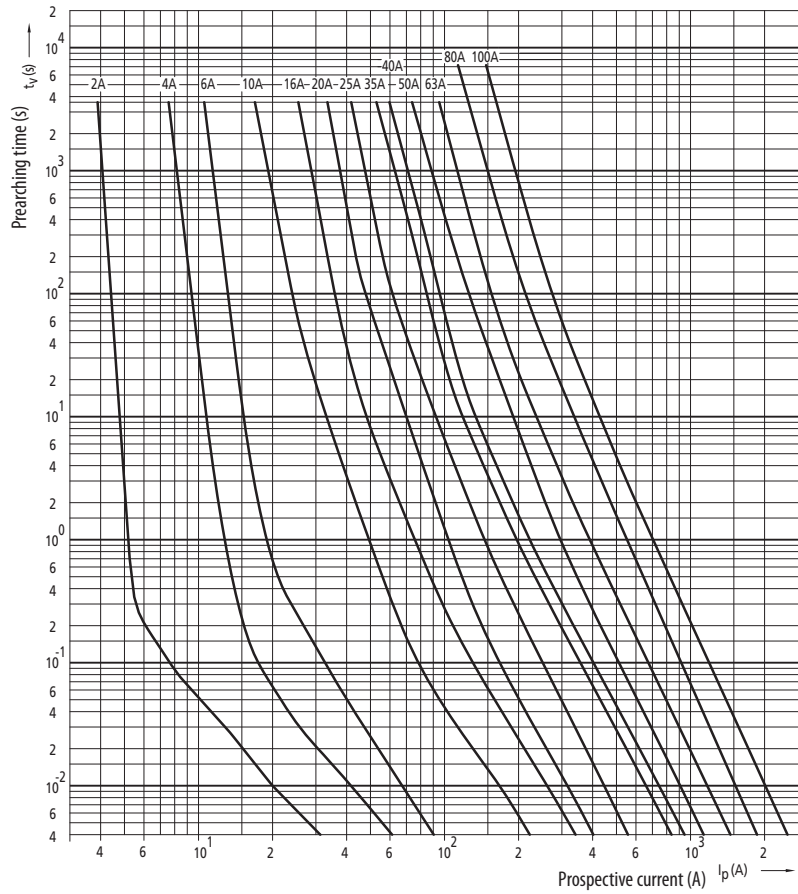
Fuse link NV/NH gG with striker pin

tip	dimenzije			
	k	l	m	sl
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

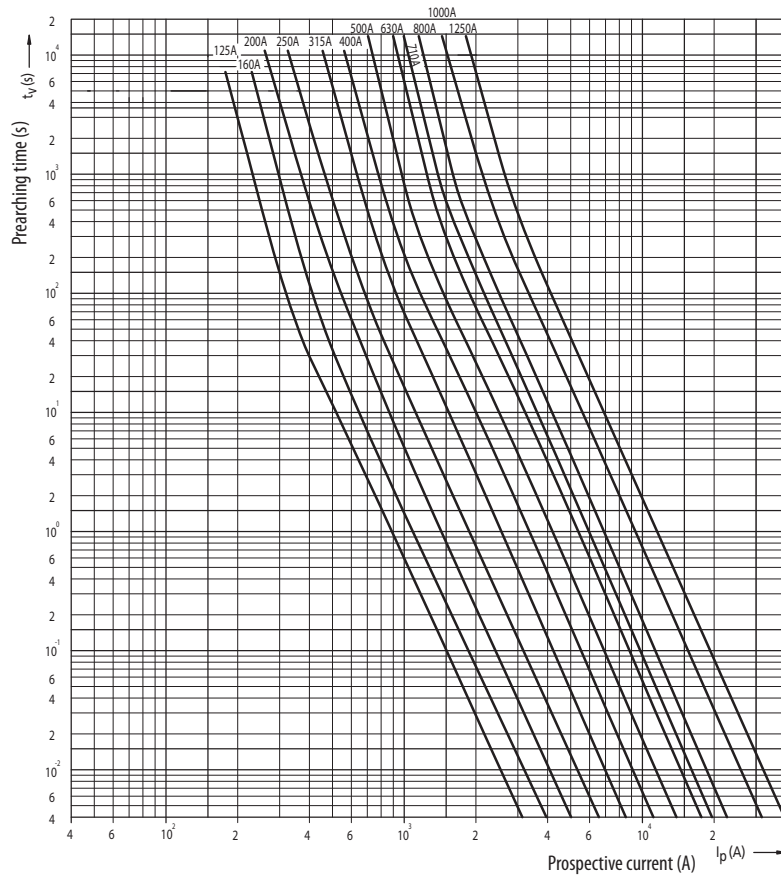


Fuse-link NV/NH gG characteristics

Time current characteristics
I/t, gG

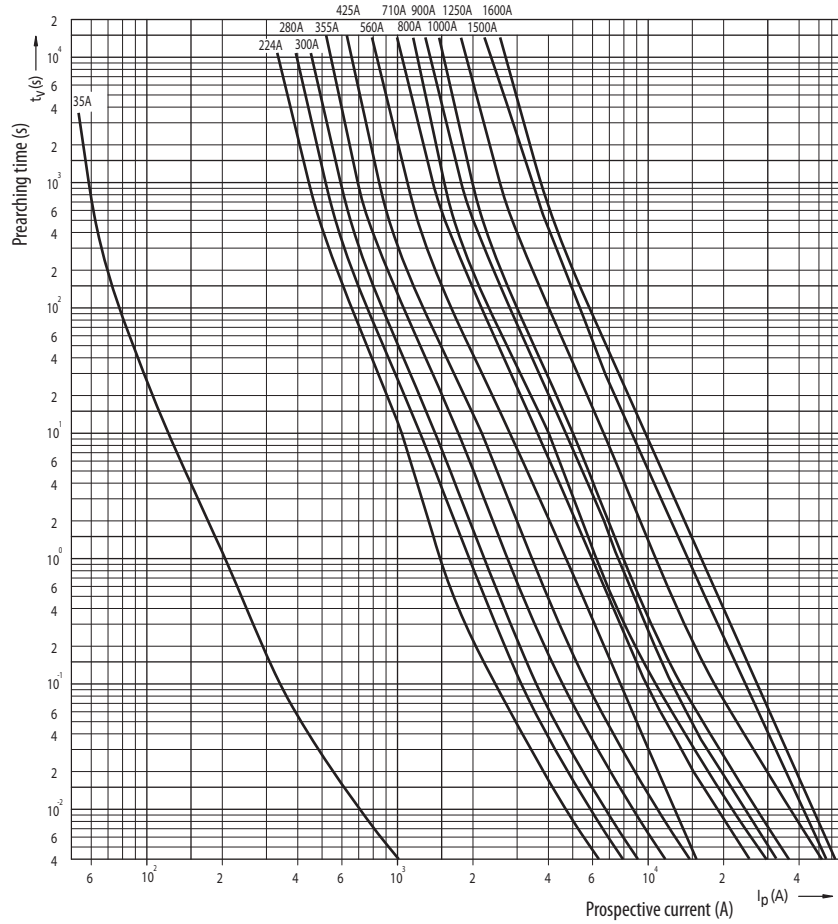


Time current characteristics
I/t, gG

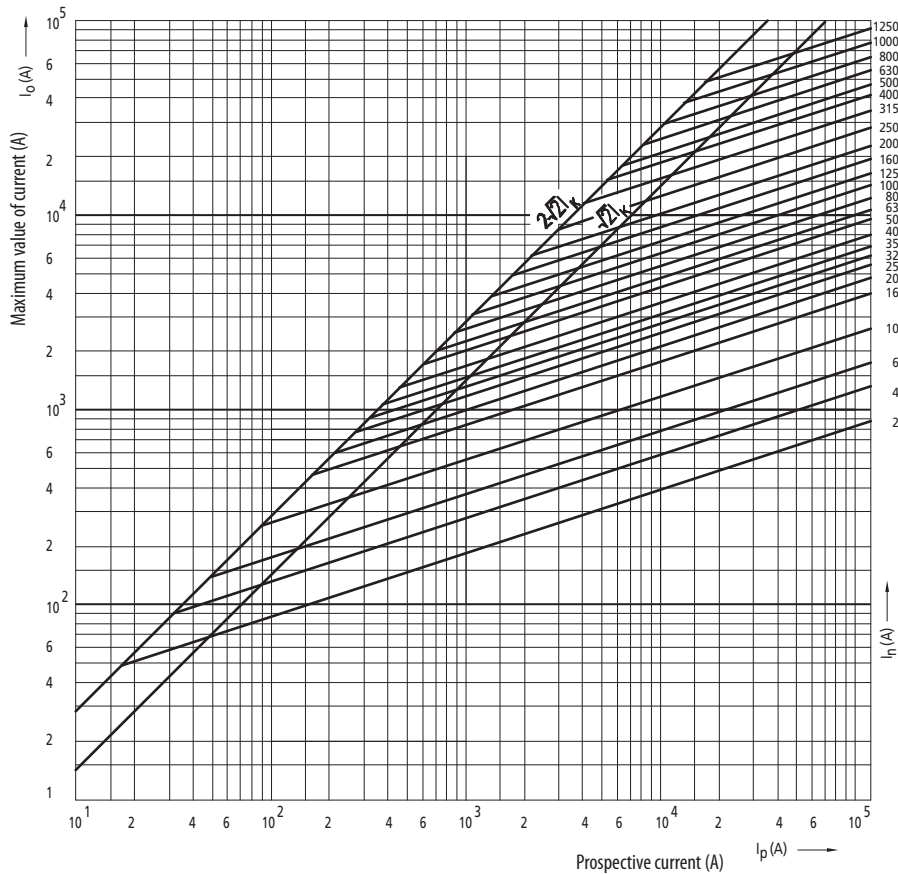




Time current characteristics I/t, gG (nonstandard rated currents)



Cut-off current characteristics

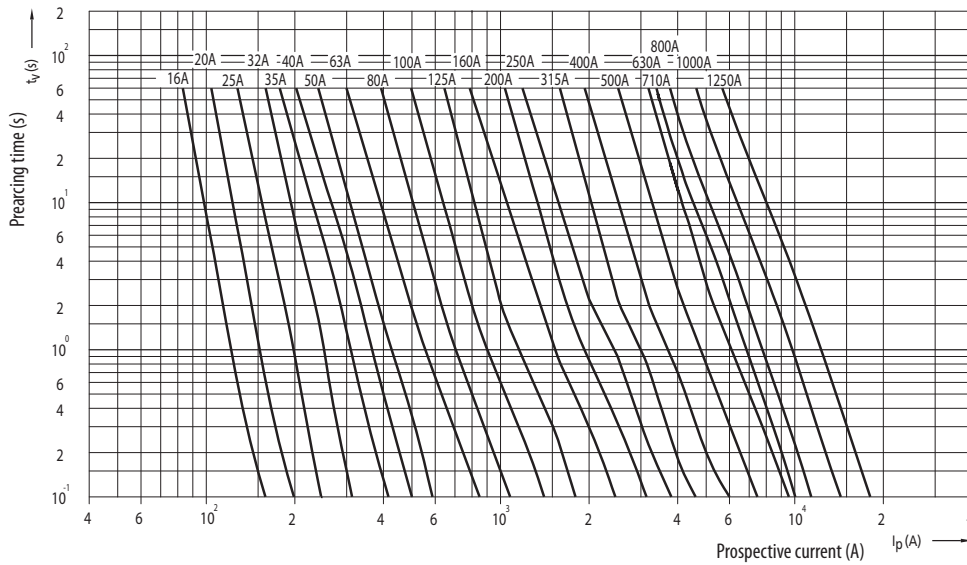


NV fuse-link aM

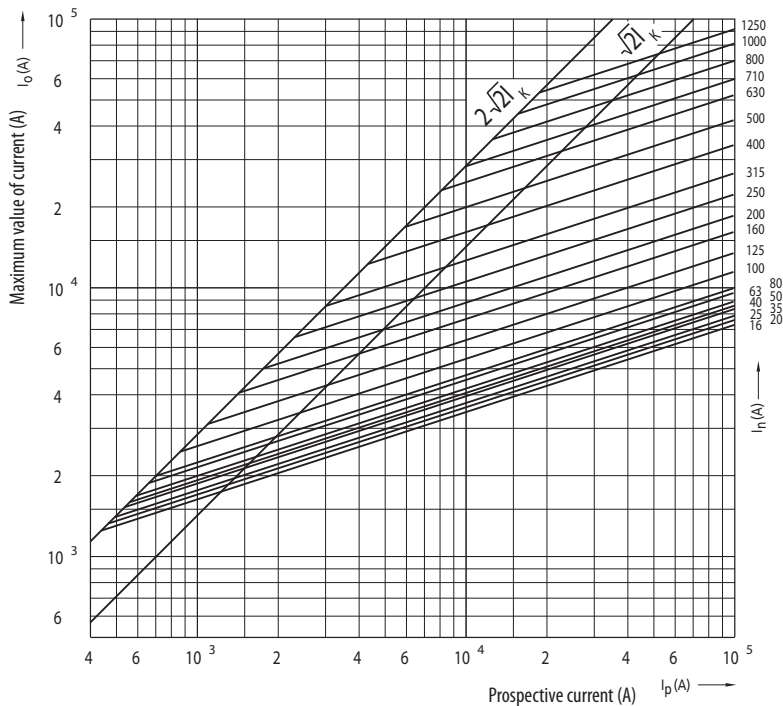
Technical data:	
Rated voltage U_n	690 V a.c.
Rated current I_n	2-1250 A
Dimensions	DIN 43620, IEC 60269, EN 60269
Fusing characteristics	aM acc. to VDE 0636-2011, DIN VDE 0636
Breaking capacity at $1,1 U_n$	100 kA

Power dissipation of fuse-links NV aM 690 V a.c.			
size	the highest rated current at according to VDE 0636-2011 690 V a.c. (A)	the maximal power dissipation 690 V a.c. (W)	real power dissipation of fuse-links 690 V a.c. (W)
NV 00	160	9	12
NV 1	250	28	32
NV 2	400	41	45
NV 3	630	58	60
NV 4a	1250	110	105

Time current characteristics
 $I/t, aM$

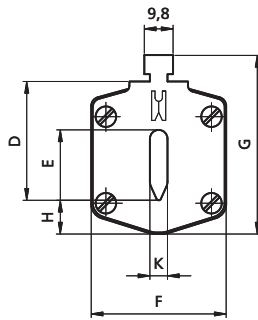
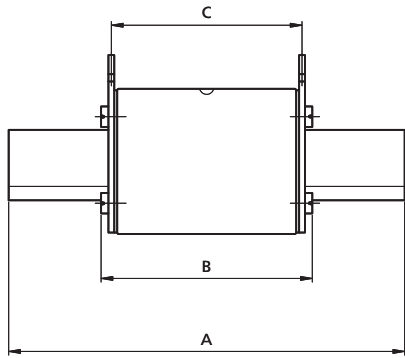


Cut-off current characteristics





Fuse-link NV/NH gF

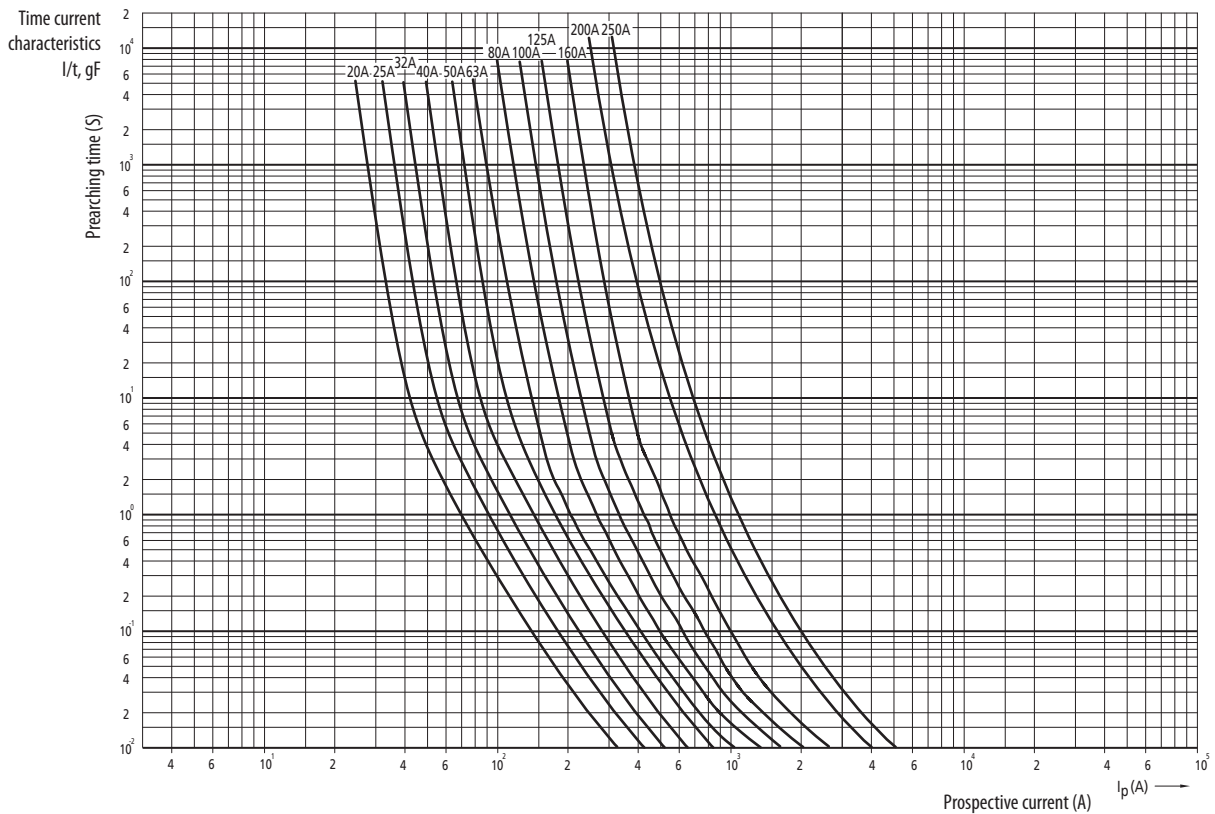


Technical data:	
Rated voltage U_n	400 V a.c.
Rated current I_n	20 - 250 A
Dimensions	DIN 43620, IEC 60269, EN 60269
Fusing characteristics	gF acc. to PN 91/E-06160/10 PN 91/E-06160/21
Breaking capacity I_b	100kA

type	dimensions										
	A	B	C	D	E	F	G	H	I	J	K
NV00 C	79	53	47	35	15	21	52	7,5			6
NV00	79	53	47	35	15	28	56	12			6
NV1 C	135	68	65	40	15	28	61	12			6
NV1	135	72	65	40	20	46	65	14			6

Power dissipation of fuse-links gF 400 V a.c.

size	the highest rated current at according to PN-IEC 60269-2 (A)	the maximal power dissipation (W)	real power dissipation of fuse-links (W)
NV 00 C	100	12	7,2
NV 00	160	16	15,1
NV 1 C	160	23	21,9
NV 1	250	32	31,3

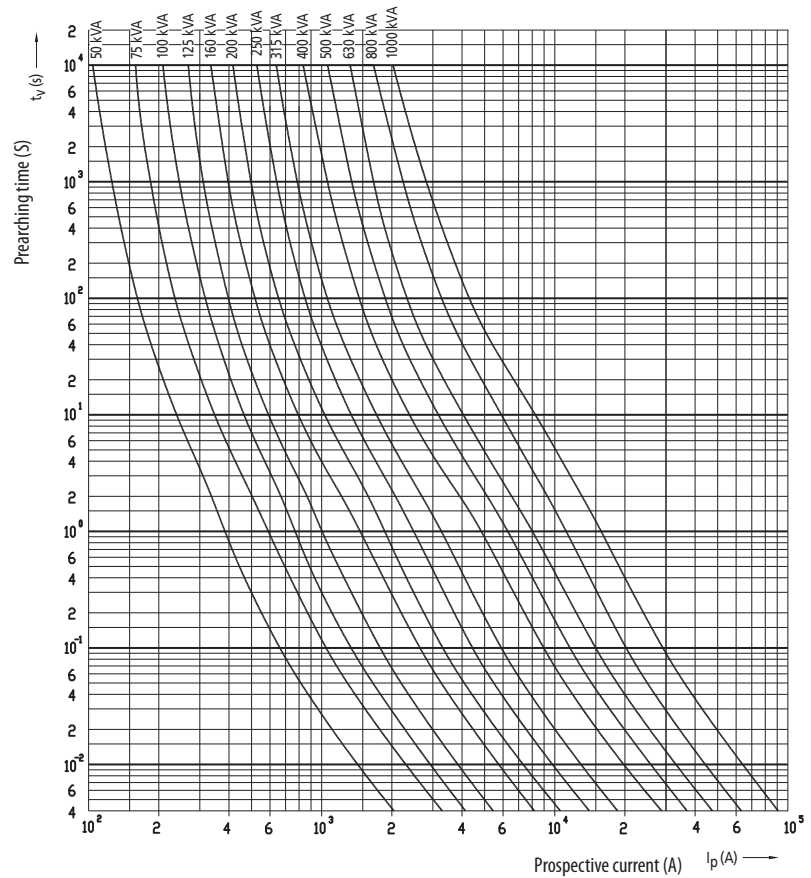


Fuse-link NV/NH gTr

Technical data:

Rated voltage	400 V a.c.
Rated transformal power	50-100 kVA
Breaking capacity	100 kA

Time current characteristics
I/t, gTr



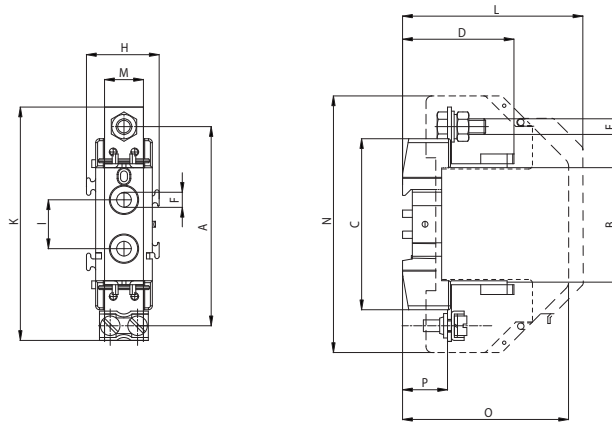
Fuse base

Technical data:

Rated voltage U _n	690 V a.c.
Rated current I _n	125 - 1250 A
Insulation class	C - VDE 0110
Standards	EN 60269, IEC 60269, DIN VDE 0636, DIN 43620, DIN 43623

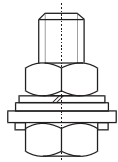
1-pole base NVPP 00

type	dimension													
	A	B	C	D	E	F	H	I	K	L	M	N	O	P
NVPP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120		20			23
NVPP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120		20			23
NVPP 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120		20			23
NVPP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120		20	132	84,5	23
NVPP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120		20	132	84,5	23
NVPP 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120		20	132	84,5	23
NVPP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120	90	20	132	84,5	23
NVPP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120	90	20	132	84,5	23
NVPP 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120	90	20	132	84,5	23
NVPP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120		20			23
NVPP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120		20			23
NVPP 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120		20			23
NVPP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120		20	132	84,5	23
NVPP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120		20	132	84,5	23
NVPP 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120		20	132	84,5	23
NVPP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120	90	20	132	84,5	23
NVPP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120	90	20	132	84,5	23
NVPP 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120	90	20	132	84,5	23

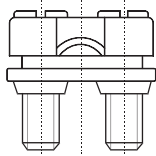

1-pole bases PK and PKI

type	dimension												
	A	B	C	D	E	F	G	H	I	J	K	L	M
PK 00 M8 - 2 x M6	100	57	84	60	M8 - 2 x M6	Ø7,5			25	4,5	115		20
PK 00 M8 - M8	100	57	84	60	M8 - M8	Ø7,5			25	4,5	115		20
PK 00 2 x M6 - 2xM6	100	57	84	60	2 x M6 - 2 x M6	Ø7,5			25	4,5	115		20
PK 0 M8 - 2 x M6	150	74	130	60	M8 - 2 x M6	Ø7,5		33	25	4,5	170		20
PK 0 M8 - M8	150	74	130	60	M8 - M8	Ø7,5		33	25	4,5	170		20
PK 02 x M6 - 2 x M6	150	74	130	60	M8 - 2 x M6	Ø7,5		33	25	4,5	170		20
PK 1	175	80	141	81	M10	Ø10,5	30	55	25	10	200		26
PK 2	200	80	166	102	M10	Ø10,5	30	65	25	10	225		30
PK 3	210	80	166	102	M12	Ø10,5	30	65	25	10	240		30
PK 4	270	100	220	143	M12	Ø13	30	102	25	12	310		50
PKI 1	175	80	141	81	M10	Ø10,5	30	55	25	10	200	87	26
PKI 2	200	80	166	102	M10	Ø10,5	30	65	25	10	225	98	30
PKI 3	210	80	166	102	M12	Ø10,5	30	65	25	10	240	108	30
PK 1/1000V	193	100	160	81	M10	Ø10,5	30	55	25	10	220		26

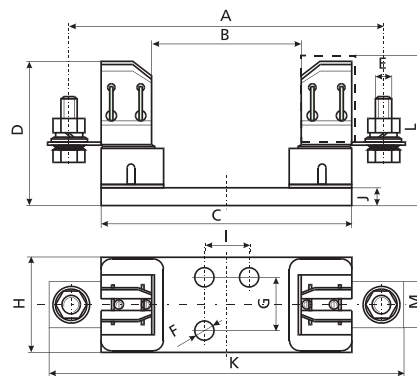
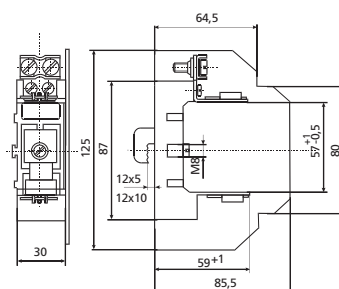
Insulating sleeves are installed with bases PKI, PPI; their purpose is an additional protection against shock hazard.



Connection M8
(6 - 50 mm²Cu)

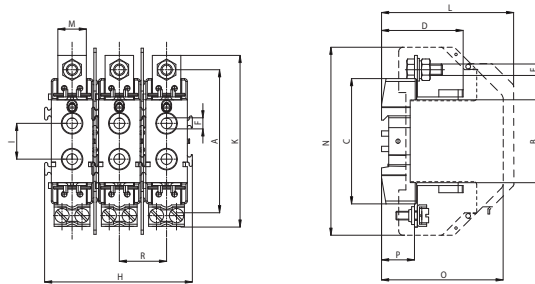


Connection 2 X M6
(6 - 70 mm²Cu)


1-pole base PPR


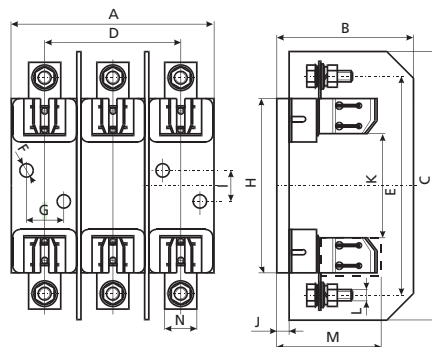
3-pole base NVPP 00

type	dimension															
	A	B	C	D	E	F	H	I	K	L	M	N	O	P	R	
NVPP 00/3 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	104	25	120		20	130		23	33	
NVPP 00/3 M8-M8	100	56,5	87,5	57	M8-M8	7,5	104	25	120		20	130		23	33	
NVPP 00/3 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	104	25	120		20	130		23	33	
NVPP1 00/3 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	104	25	120		20	130	84,5	23	33	
NVPP1 00/3 M8-M8	100	56,5	87,5	57	M8-M8	7,5	104	25	120		20	132	84,5	23	33	
NVPP1 00/3 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	104	25	120		20	132	84,5	23	33	
NVPPIP 00/3 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	104	25	120	90	20	132	84,5	23	33	
NVPPIP 00/3 M8-M8	100	56,5	87,5	57	M8-M8	7,5	104	25	120	90	20	132	84,5	23	33	
NVPPIP 00/3 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	104	25	120	90	20	132	84,5	23	33	
NVPPN 00/3 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	104	25	120		20	130		23	33	
NVPPN 00/3 M8-M8	100	56,5	87,5	57	M8-M8	7,5	104	25	120		20	130		23	33	
NVPPN 00/3 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	104	25	120		20	130		23	33	
NVPPNI 00/3 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	104	25	120		20	132	84,5	23	33	
NVPPNI 00/3 M8-M8	100	56,5	87,5	57	M8-M8	7,5	104	25	120		20	132	84,5	23	33	
NVPPNI 00/3 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	104	25	120		20	132	84,5	23	33	
NVPPNIP 00/3 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	104	25	120	90	20	132	84,5	23	33	
NVPPNIP 00/3 M8-M8	100	56,5	87,5	57	M8-M8	7,5	104	25	120	90	20	132	84,5	23	33	
NVPPNIP 00/3 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	104	25	120	90	20	132	84,5	23	33	



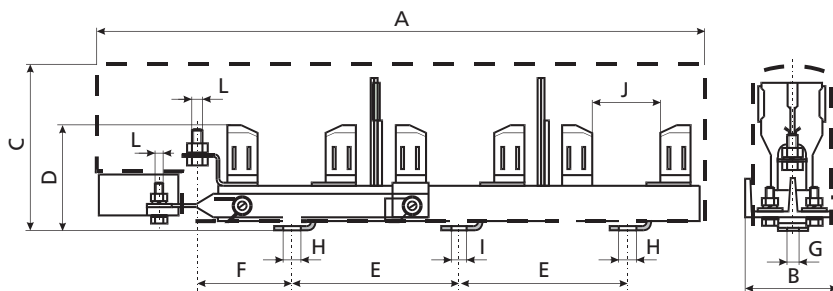
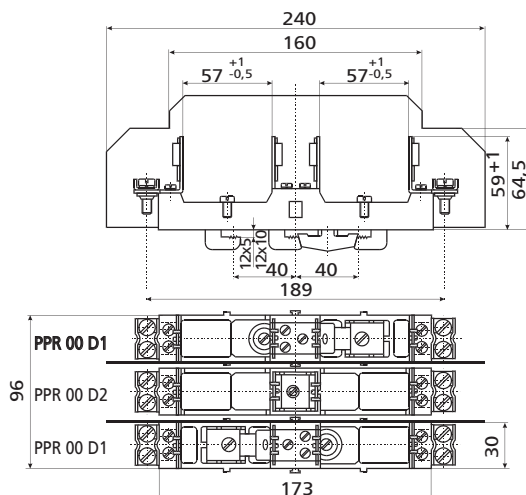
3-pole base PK and PKI

type	dimension													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
PK 00/3 M8 - 2 x M6	96	91,5	125	61	100	Ø7,5		84	25	4,5	57	M8 - 2 x M6		20
PK 00/3 M8 - M8	96	91,5	125	61	100	Ø7,5		84	25	4,5	57	M8 - M8		20
PK 00/3 2xM6 - 2xM6	96	91,5	125	61	100	Ø7,5		84	25	4,5	57	2 x M6 - 2 x M6		20
PK 0/3 M8 - 2 x M6	104	91,5	175	70	150	Ø7,5		130	25	4,5	47	M8 - 2 x M6		20
PK 0/3 M8 - M8	104	91,5	175	70	150	Ø7,5		130	25	4,5	47	M8 - M8		20
PK 0/3 2xM6 - 2xM6	104	91,5	175	70	150	Ø7,5		130	25	4,5	47	2 x M6 - 2 x M6		20
PK 1/3	160	110	210	106	175	Ø10,5	30	141	25	10	80	M10		26
PK 2/3	184	120	240	122,5	200	Ø10,5	30	166	25	10	80	M10		30
PK 3/3	208	120	240	148	210	Ø10,5	30	166	25	10	80	M12		30
PK I 1/3	160	110	210	106	175	Ø10,5	30	141	25	10	80	M10	87	26
PKI 2/3	184	120	240	122,5	200	Ø10,5	30	166	25	10	80	M10	98	30
PKI 3/3	208	120	240	148	210	Ø10,5	30	166	25	10	80	M12	108	30

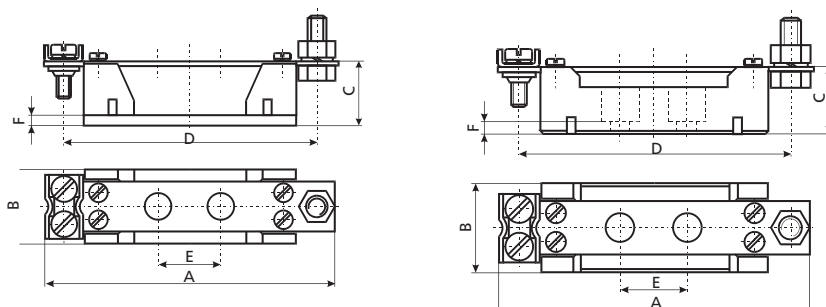


3-pole base Z

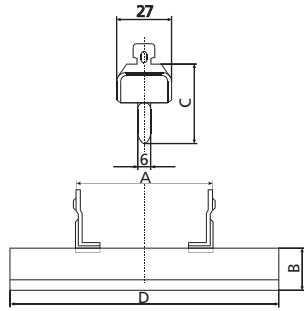
type	dimension											
	A	B	C	D	E	F	G	H	I	J	K	L
PP1 00Z	360	58	71	-	100	55	-	-	-	56	-	M8
PK 2Z	670	98	111	63,5	185	100	14	22	22	80	-	M10
PKI 2Z	670	98	111	63,5	185	100	14	22	22	80	115	M10


3 - pole bases PPR

Earth clamp

type	dimension					
	A	B	C	D	E	F
NVPP 00/0 M8-2M6	115	37	25	100	25	8
NVPPN 00/0 M8-2M6	115	37	25	100	25	8
PP 00/0 M8-2M6	115	33	26	100	25	5
PK 00/0 M8-2M6	115	30	26,5	100	25	4,5
PK 1/0	200	55	38	175	25	10
PK 2/0	225	65	40	200	25	10
PK 3/0	240	65	40	210	25	10

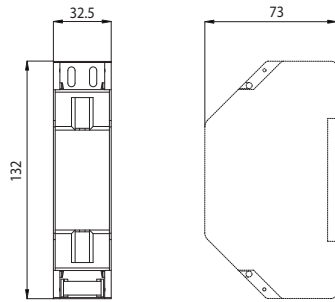


Accessories

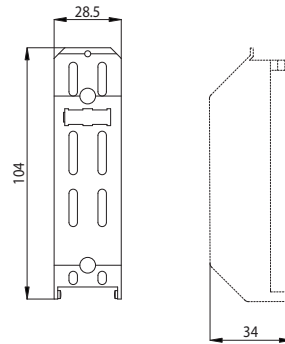


NV separator

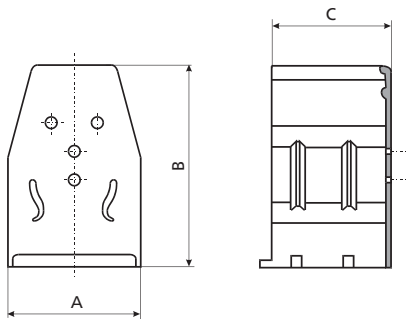
type	dimension			
	A	B	C	D
NV L 00	49	15	35	78,5
NV L 0	68	15	35	125
NV L 1	68	20	40	135
NV L 2	68	26	46	150
NV L 3	68	36	56	150



Insulating sleeves of contact spring NVPP 00



Protection cover NVPP 00

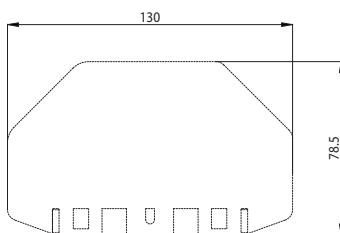


Insulating sleeve of contact spring PK and PP

type	dimension		
	A	B	C
PP 00	32	68	41
PK 1	40	52	33
PK 2	44	63	40
PK 3	44	67	40

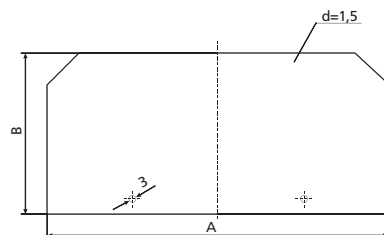
Base separating element

type	dimension	
	A	B
NVPP 00	130	78,5



Base separating element

type	dimension	
	A	B
PP 00, PK 00	125	83
PK 0	175	82
PK 1	210	100
PK 2	240	110
PK 3	250	110



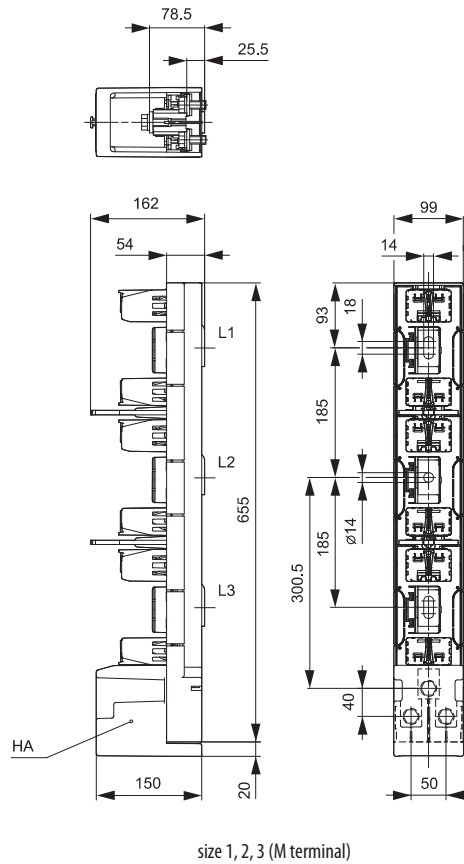
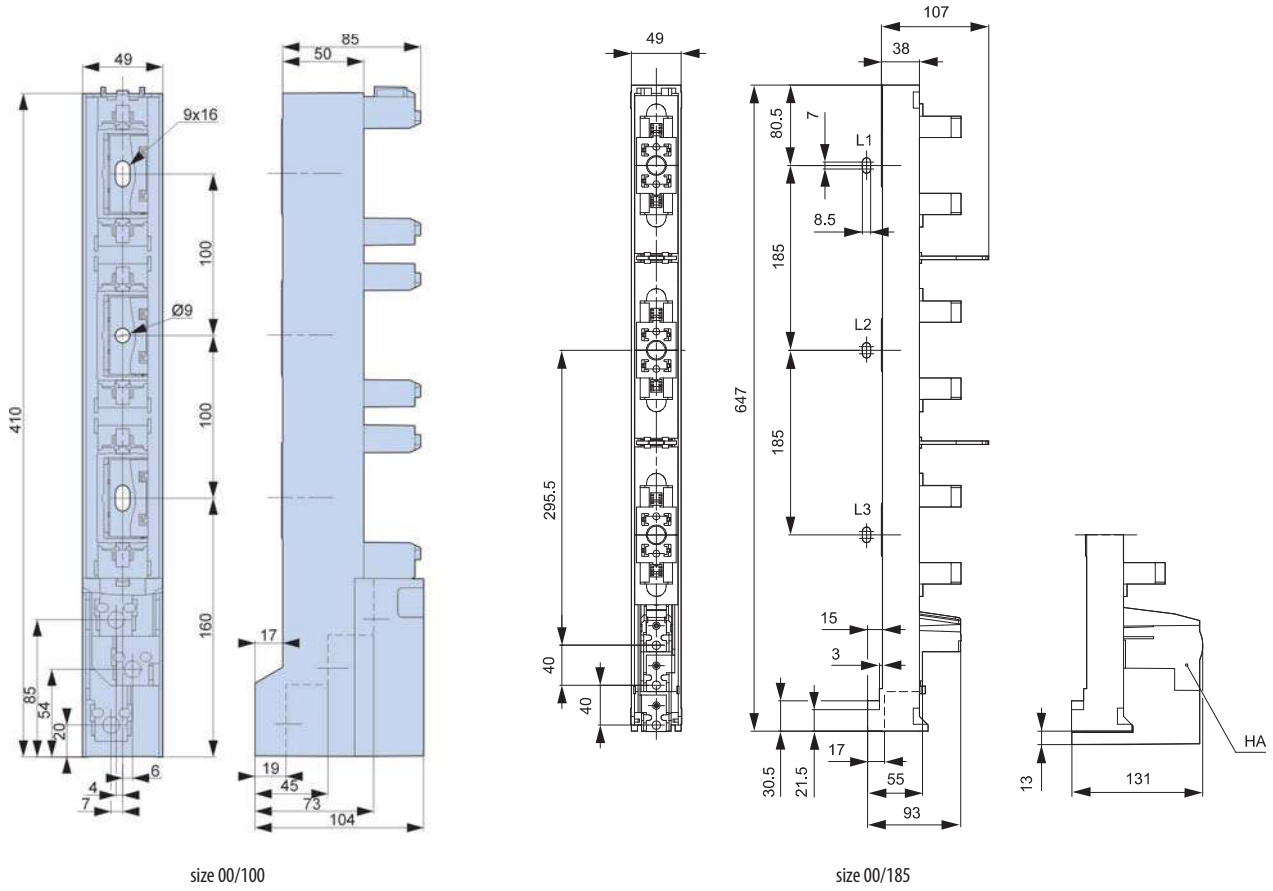


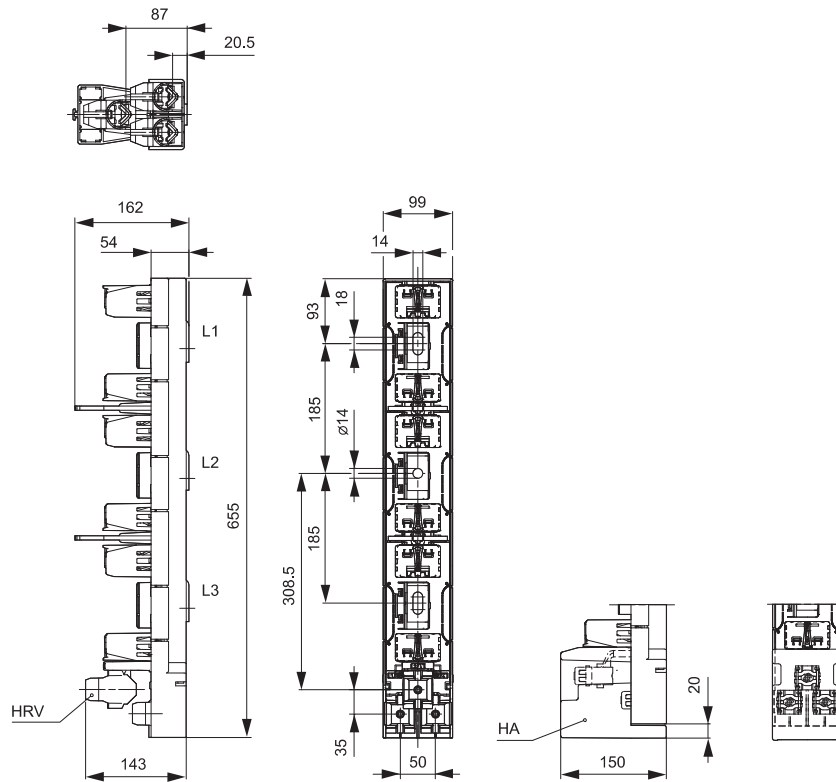
Low voltage fuse-rail

Technical data of insulated fuse-rails (in accordance with VDE 0636, part 201, IEC 60269-2-1)										
Technical Specifications			Size 00				Size 1			
Electrical Characteristics										
Rated operational voltage	U_e	V	AC500	AC690	DC220	DC440	AC500	AC690	DC220	DC440
Rated operational current	I_e	A	160	100	160	100	250	200	250	200
Rated frequency	-	Hz	40-60	40-60	-	-	40-60	40-60	-	-
Rated insulation voltage	U_i	V	AC750				AC1000			
Total power loss at I_n (without fuse)	P_v	W	23	15	16	11	23	15	16	11
Fuse links										
Size - DIN 43 620	-	-	00				1			
Max. rated current (gG)	I_n	A	160	100	160	100	250	200	250	200
Max. permissible power loss per fuse link	P_v	W	12				32			
Dimensions										
Mass	-	kg	100 mm = 0,8		185mm=1,5		3,5			
Busbars (distance)	-	mm	100 mm/185 mm				185			
Cable connection										
Screw	-	-	M8				M10			
Torque	M_a	Nm	12-15				30-35			
V-clip	-	mm ²	10-95				25-300			
Torque	M_a	Nm	10				40			
Protection										
Operational state	-	-	IP10				IP10			
Operating conditions										
Ambient temperature	T_u	°C	-25 to +55				-25 to +55			
Operating condition	-	-	Continuous operation							
Mounting	-	-	vertical, horizontal							
Altitude	-	m	Up to 2000							
Pollution degree	-	-	3							
Overvoltage category	-	-	III				III			

Technical data of insulated fuse-rails (in accordance with VDE 0636, part 201, IEC 60269-2-1)										
Technical Specifications			Size 2				Size 3			
Electrical Characteristics										
Rated operational voltage	U_e	V	AC500	AC690	DC220	DC440	AC500	AC690	DC220	DC440
Rated operational current	I_e	A	400	315	400	315	630	500	630	500
Rated frequency	-	Hz	40-60	40-60	-	-	40-60	40-60	-	-
Rated insulation voltage	U_i	V	AC1000				AC1000			
Total power loss at I_n (without fuse)	P_v	W	49	30	33	21	110	70	74	47
Fuse links										
Size - DIN 43 620	-	-	2				3			
Max. rated current (gG)	I_n	A	400	315	400	315	630	500	630	500
Max. permissible power loss per fuse link	P_v	W	45				48			
Dimensions										
Mass	-	kg	3,8				4,3			
Busbars (distance)	-	mm	185							
Cable connection										
Screw	-	-	M12				M12			
Torque	M_a	Nm	35-40				35-40			
V-clip	-	mm ²	25-300				25-300			
Torque	M_a	Nm	40				40			
Protection										
Operational state	-	-	IP10				IP10			
Operating conditions										
Ambient temperature	T_u	°C	-25 to +55				-25 to +55			
Operating condition	-	-	Continuous operation							
Mounting	-	-	vertical, horizontal							
Altitude	-	m	Up to 2000							
Pollution degree	-	-	3							
Overvoltage category	-	-	IV				IV			

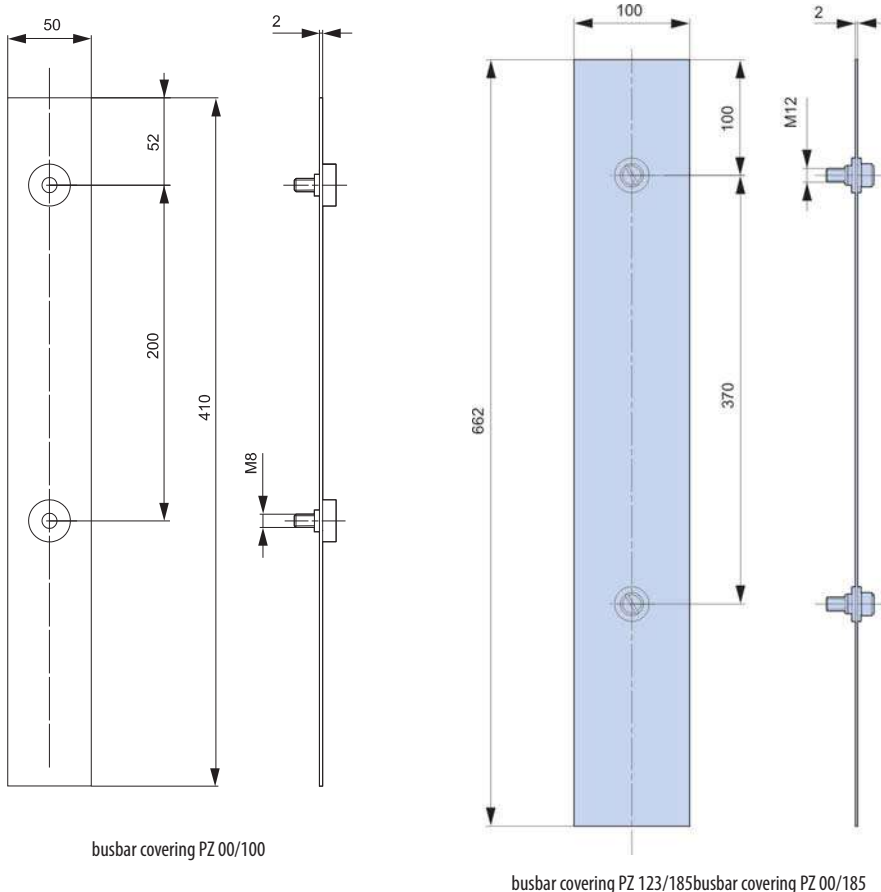
Dimensional overview of LV NV fuse-rails

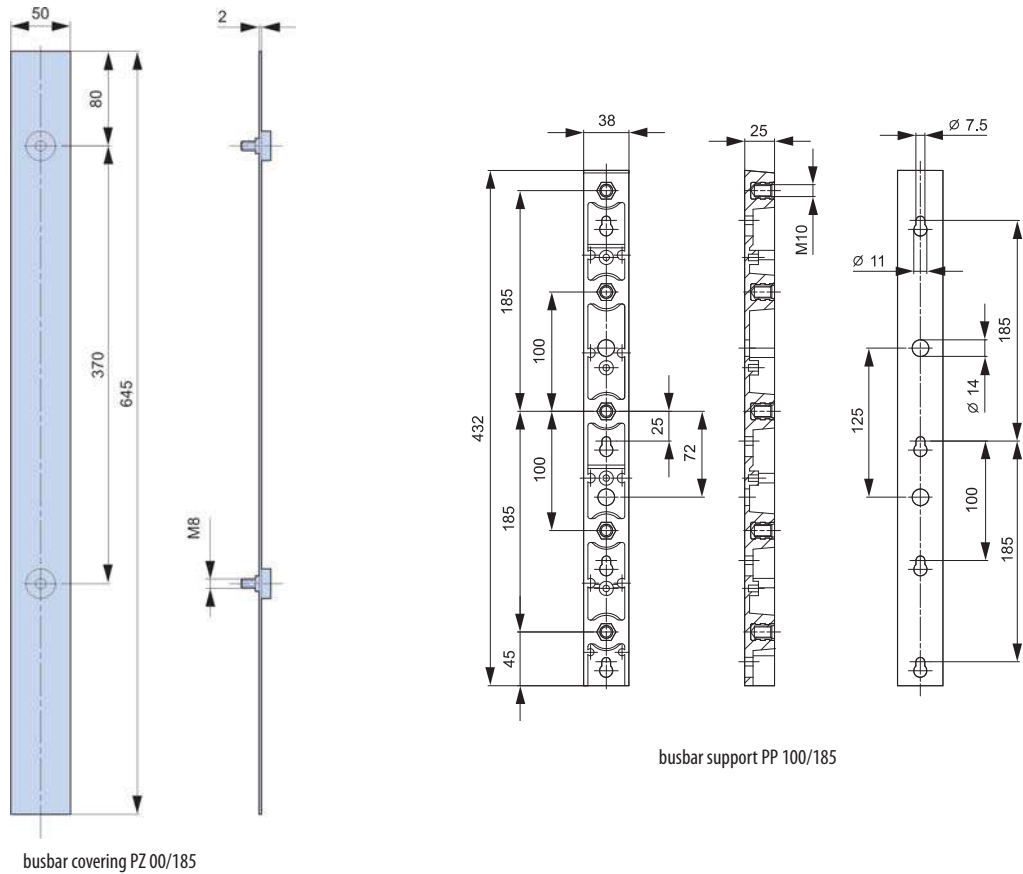




size 1, 2, 3 (SP terminal)

Dimensional overview of accessories for LV NV fuse-rails





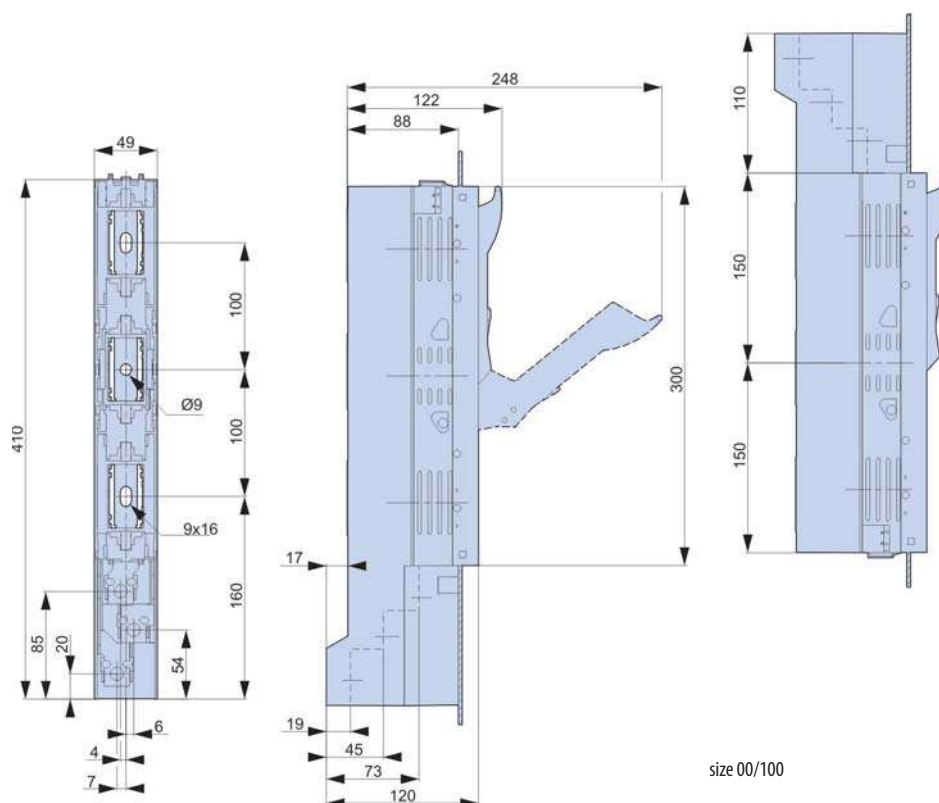
NV strip type fuse-switch-disconnector sizes 00, 1, 2, 3

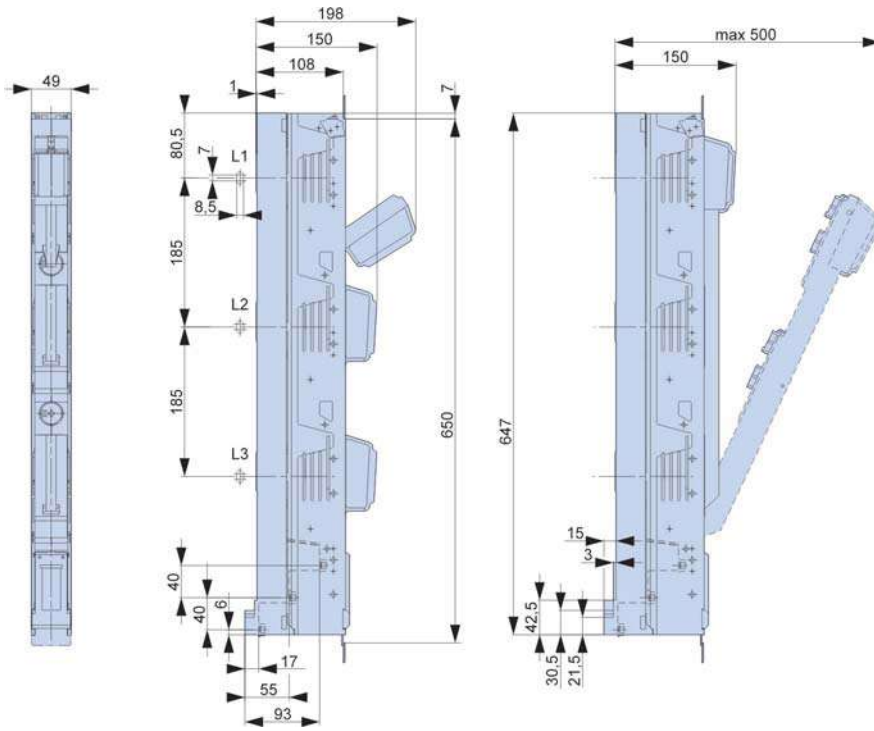
Technical data of NV strip type fuse-switch-disconnectors (in accordance with IEC/EN 60947-3 and VDE 0660, part 107)

Technical Specifications			Size 00					Size 1				
Electrical Characteristics												
Rated operational voltage	U_e	V	AC500	AC690	AC400	DC220	DC440	AC500	AC690	AC400	DC220	DC440
Rated operational current	I_e	A	160	100	160	160	100	250	200	250	250	200
Rated frequency	-	Hz	40-60	40-60	40-60	-	-	40-60	40-60	40-60	-	-
Rated insulation voltage	U_i	V	AC750					AC1000				
Total power loss at I_m (without fuse)	P_v	W	18	7	18	12	5	23	15	23*	16	11
Utilization category	-	-	AC22B	AC22B	AC22B	DC21B	DC21B	AC22B	AC22B	AC23B	DC1B	DC21B
Fuse links												
Size - DIN 43 620	-	-	00					1				
Max. rated current (gG)	I_n	A	160	100	160	160	100	250	200	250	250	200
Max. permissible power loss per fuse link	P_v	W	12					32				
Dimensions												
Mass	-	kg	100 mm = 1,40 185mm=2,4					4,9				
Busbars (distance)	-	mm	100 mm/185 mm					185				
Cable connection												
Screw	-	-	M8					M10				
Torque	M_a	Nm	12-15					30-35				
V-clip	-	mm ²	10-95					25-300				
Torque	M_a	Nm	15					40				
Protection												
Operational state	-	-	IP30					IP30				
Cover open	-	-	IP10					IP10				
Operating conditions												
Ambient temperature	T_u	°C	-25 to +55					-25 to +55				
Operating condition	-	-	Continuous operation					Continuous operation				
Mounting	-	-	vertical, horizontal					vertical, horizontal				
Altitude	-	m	Up to 2000					Up to 2000				
Pollution degree	-	-	3					3				
Overvoltage category	-	-	III					III				

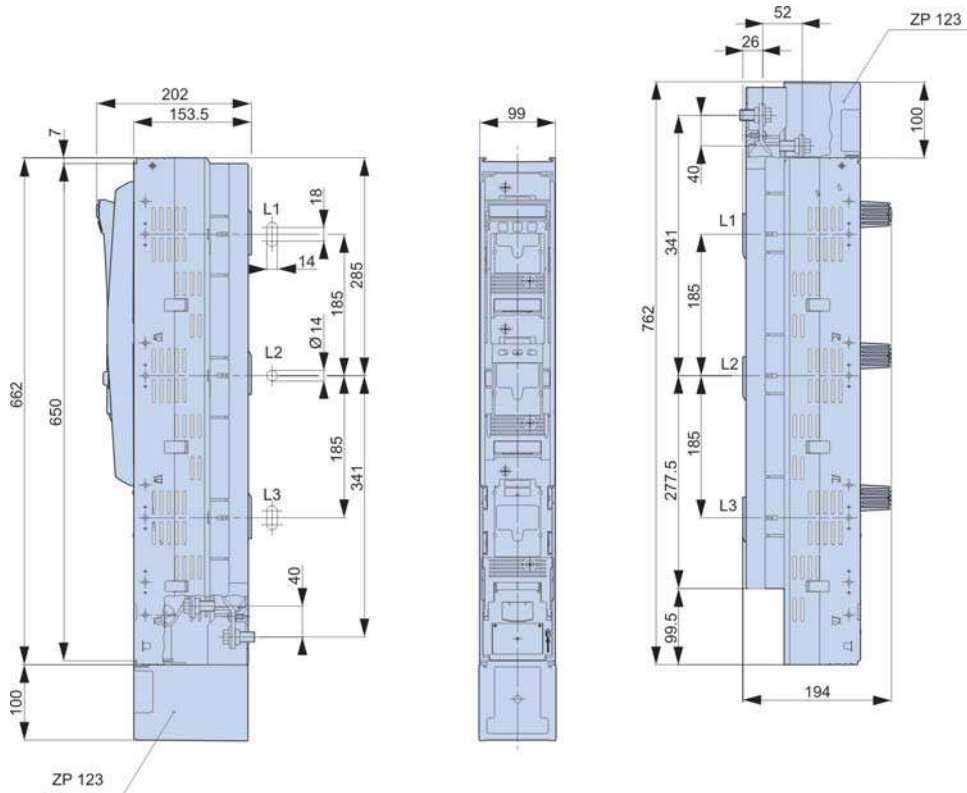
Technical data of NV strip type fuse-switch-disconnectors (in accordance with IEC/EN 60947-3 and VDE 0660, part 107)

Technical Specifications			Size 2					Size 3				
Electrical Characteristics												
Rated operational voltage	U_e	V	AC500	AC690	AC400	DC220	DC440	AC500	AC690	AC400	DC220	DC440
Rated operational current	I_e	A	400	315	400	400	315	630	500	630	630	500
Rated frequency	-	Hz	40-60	40-60	40-60	-	-	40-60	40-60	40-60	-	-
Rated insulation voltage	U_i	V	AC1000					AC1000				
Total power loss at I_{th} (without fuse)	P_v	W	49	30	49*	33	21	110	70	110*	74	47
Utilization category	-	-	AC22B	AC22B	AC23B	DC21B	DC21B	AC22B	AC22B	AC23B	DC1B	DC21B
Fuse links												
Size - DIN 43 620	-	-	2					3				
Max. rated current (gG)	I_n	A	400	315	400	400	315	630	500	630	630	500
Max. permissible power loss per fuse link	P_v	W	45					48				
Dimensions												
Mass	-	kg	4,9					5,6				
Busbars (distance)	-	mm	185					185				
Cable connection												
Screw	-	-	M12					M12				
Torque	M_a	Nm	35-40					35-40				
V-clip	-	mm ²	25-300					25-300				
Torque	M_a	Nm	40					40				
Protection												
Operational state	-	-	IP30					IP30				
Front cover open	-	-	IP10					IP10				
Operating conditions												
Ambient temperature	T_u	°C	-25 to +55					-25 to +55				
Operating condition	-	-	Continuous operation					Continuous operation				
Mounting	-	-	vertical, horizontal					vertical, horizontal				
Altitude	-	m	Up to 2000					Up to 2000				
Pollution degree	-	-	3					3				
Overvoltage category	-	-	IV					IV				

Dimensional overview of NV strip type fuse-switch-disconnectors


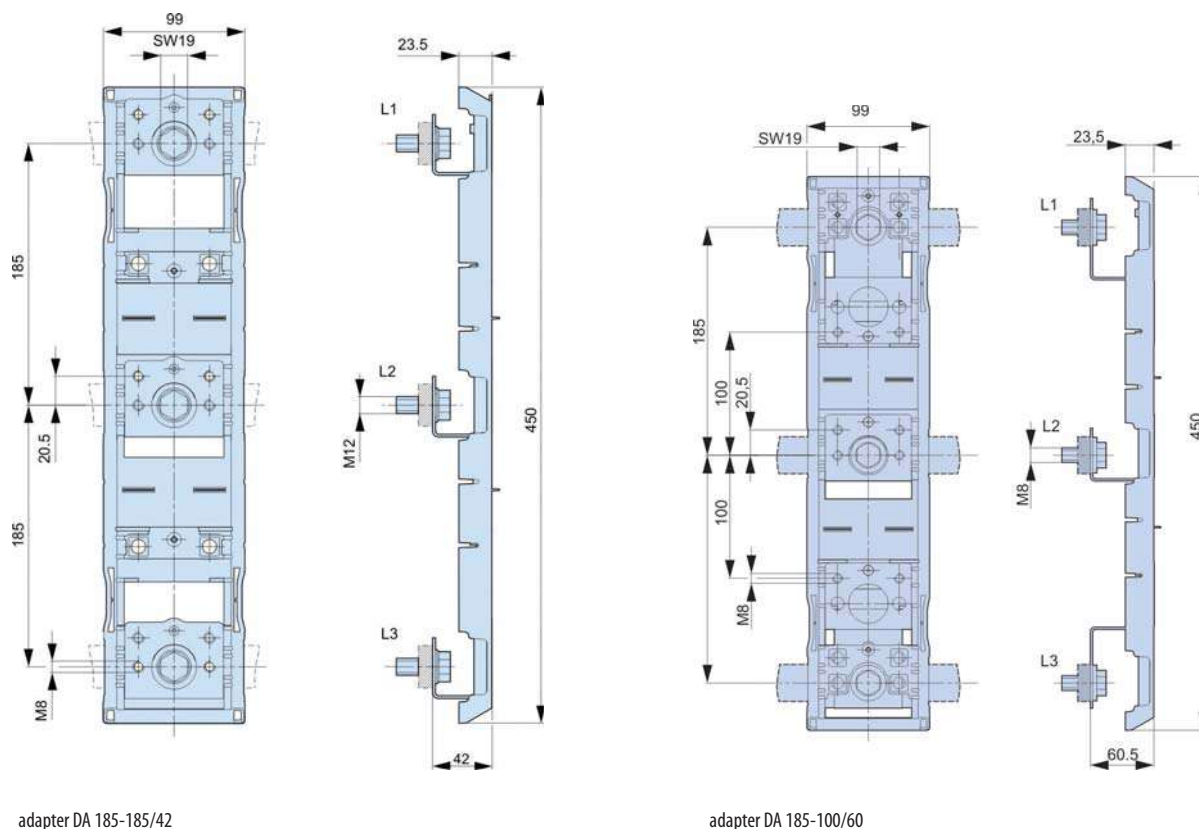


size 00/185



size 1, 2, 3

Dimensional overview of accessories for NV strip type fuse-switch-disconnectors



NV disconnectors with fuses, sizes 00,1,2,3,4a

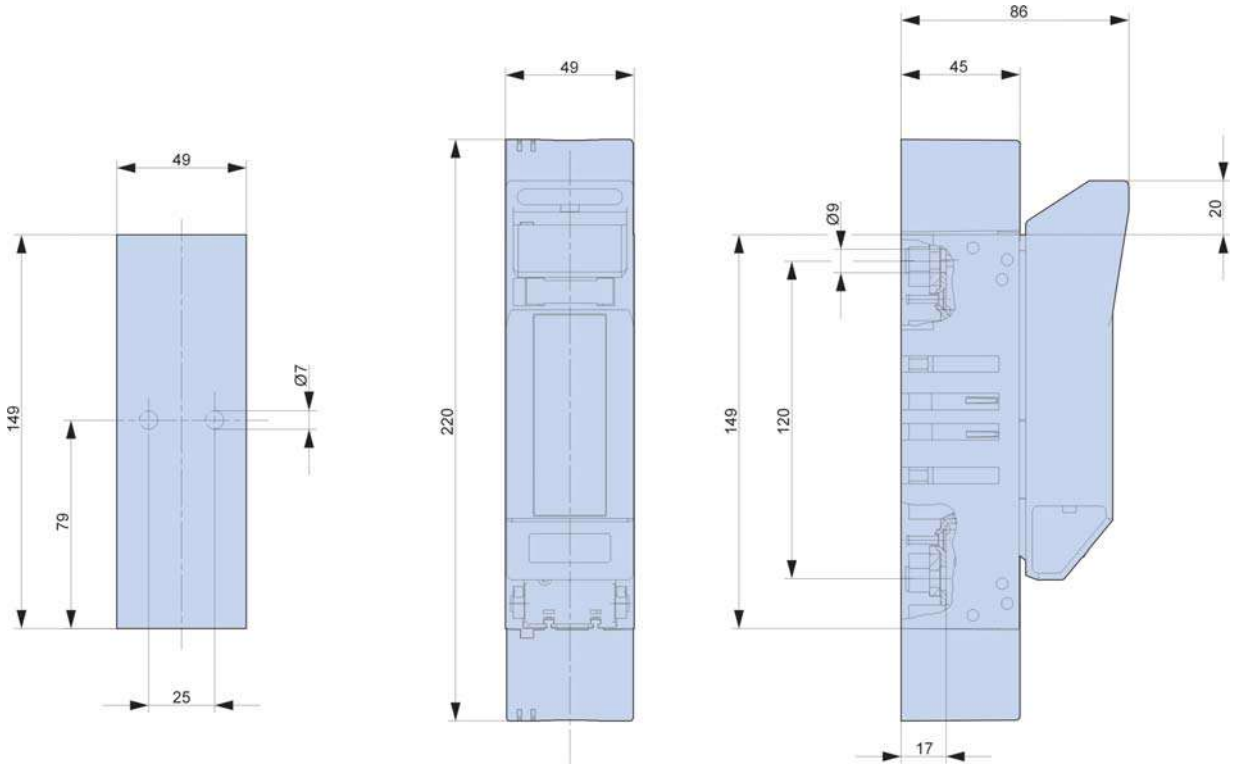
Technical data (in accordance with IEC/EN 60947-3 and VDE 0660, part 107)										
Technical Specifications			Size 00				Size 1			
Technical Characteristics										
Rated operational voltage	U_e	V	AC500	AC690	DC220	DC440	AC500	AC690	DC220	DC440
Rated operational current	I_e	A	160	100	160	100	250	200	250	200
Rated frequency	-	Hz	40-60	40-60	-	-	40-60	40-60	-	-
Rated insulation voltage	U_i	V	AC750				AC750			
Total power loss (without fuse)	P_v	W	6,9	2,7	6,2	2,7	12,9	8,3	8,6	5,5
Utilisation category	-	-	AC22B	AC22B	DC22B	DC21B	AC22B	AC22B	DC22B	DC21B
Fuse links										
Size - DIN 43 620	-	-	00				1			
Max. rated current (gG)	I_n	A	160	100	160	100	250	200	250	200
Max. permissible power loss per fuse link	P_v	W	12				23			
Screw	-	-	M8				M10			
Torque	M_a	Nm	12-15				30-35			
V-clip	-	mm ²	1,5-70				25-150			
Torque	M_a	Nm	2,6				9,5			
Protection										
Front cover close	-	-	IP20				IP20			
Front cover open	-	-	IP10				IP10			
Operating condition										
Ambient temperature	T_u	°C	-25 to +55				-25 to +55			
Operating condition	-	-	Continuous operation							
Mounting	-	-	vertical, horizontal							
Altitude	-	m	Up to 2000							
Pollution degree	-	-	3							
Overvoltage category	-	-	III				III			

Technical data (in accordance with IEC/EN 60947-3 and VDE 0660, part 107)

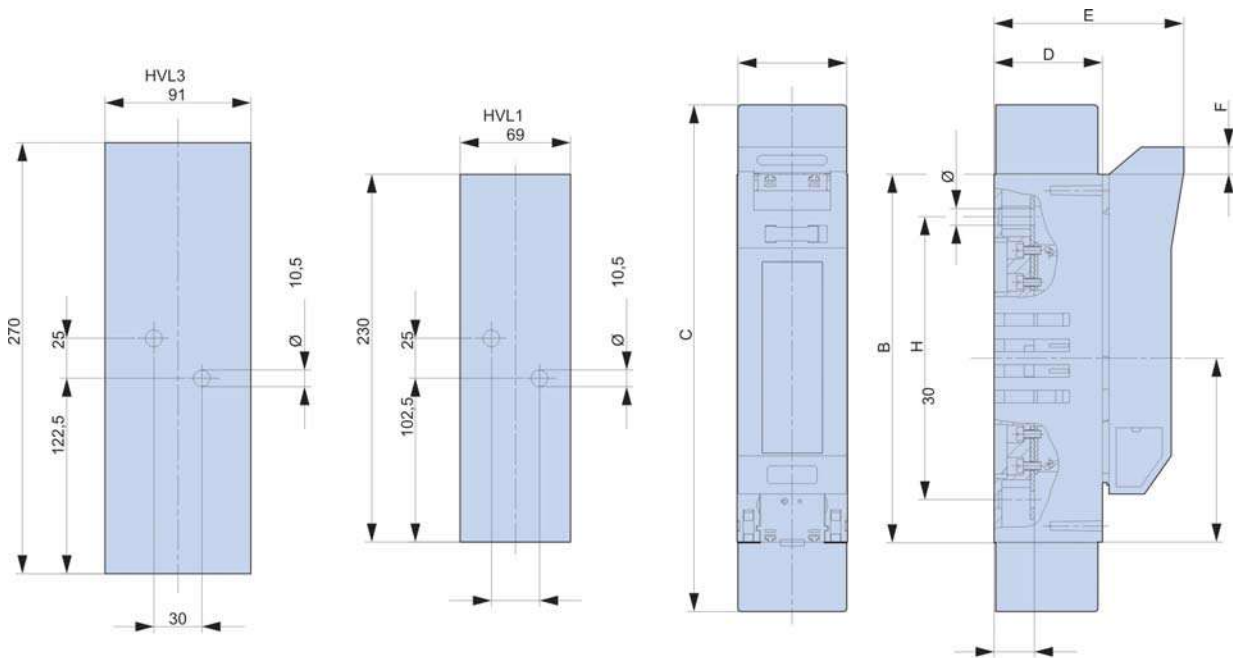
Technical Specifications			Size 2				Size 3			
Technical Characteristics										
Rated operational voltage	U_e	V	AC500	AC690	DC220	DC440	AC500	AC690	DC220	DC440
Rated operational current	I_e	A	400	315	400	315	630	500	630	500
Rated frequency	-	Hz	40-60	40-60	-	-	40-60	40-60	-	-
Rated insulation voltage	U_i	V	AC750				AC750			
Total power loss (without fuse)	P_v	W	27	16,7	18	11,2	52	32,8	34,6	21,8
Utilisation category	-	-	AC22B	AC22B	DC22B	DC21B	AC22B	AC22B	DC22B	DC21B
Fuse links										
Size - DIN 43 620	-	-	00				1			
Max. rated current (gG/gL)	I_n	A	400	315	400	315	630	500	630	500
Max. permissible power lose per fuse link	P_v	W	34				48			
Screw	-	-	M10				M10			
Torque	M_a	Nm	30-35				30-35			
V-clip	-	mm ²	25-240				25-240			
Torque	M_a	Nm	23				23			
Protection										
Front cover close	-	-	IP20				IP20			
Front cover open	-	-	IP10				IP10			
Operating condition										
Ambient temperature	T_u	°C	-25 to +55				-25 to +55			
Operating condition	-	-	Continuous operation							
Mounting	-	-	vertical, horizontal							
Altitude	-	m	Up to 2000							
Pollution degree	-	-	3							
Overvoltage category	-	-	III				III			

Technical data (in accordance with IEC/EN 60947-3 and VDE 0660, part 107)

Technical Specifications			Size 4a/1250		Size 4a/1600	
Technical Characteristics						
Rated operational voltage	U_e	V	AC500	AC690	AC500	AC690
Rated operational current	I_e	A	1250	1000	250	200
Rated frequency	-	Hz	40-60	40-60	40-60	40-60
Rated insulation voltage	U_i	V	AC800		AC800	
Total power loss (without fuse)	P_v	W	32	20,5	52	33,3
Utilisation category	-	-	AC22B	AC21B	AC22B	AC21B
Fuse links						
Size - DIN 43 620	-	-	4a		4a	
Max. rated current (gG)	I_n	A	1250	1000	1600	1000
Max. permissible power lose per fuse link	P_v	W	110		164	
Screw	-	-	1xM16		2xM12	
Torque	M_a	Nm	50-60		35-40	
Protection						
Front cover close	-	-	IP20		IP20	
Front cover open	-	-	IP10		IP10	
Operating condition						
Ambient temperature	T_u	°C	-25 to +55		-25 to +55	
Operating condition	-	-	Continuous operation			
Mounting	-	-	vertical, horizontal			
Altitude	-	m	Up to 2000			
Pollution degree	-	-	3			
Overvoltage category	-	-	III		III	

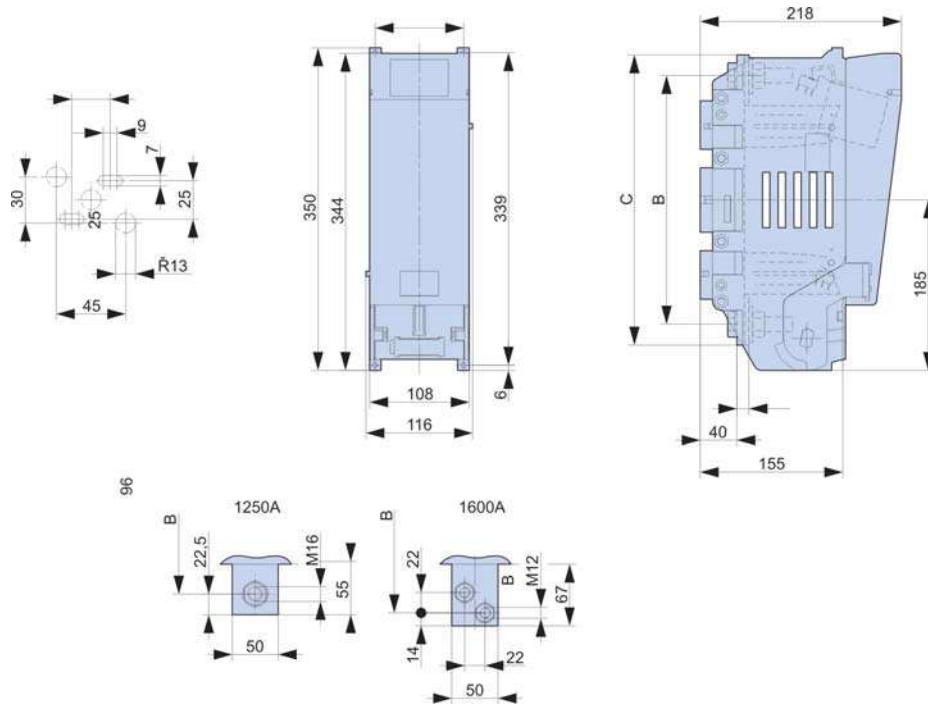


HVL 001-p



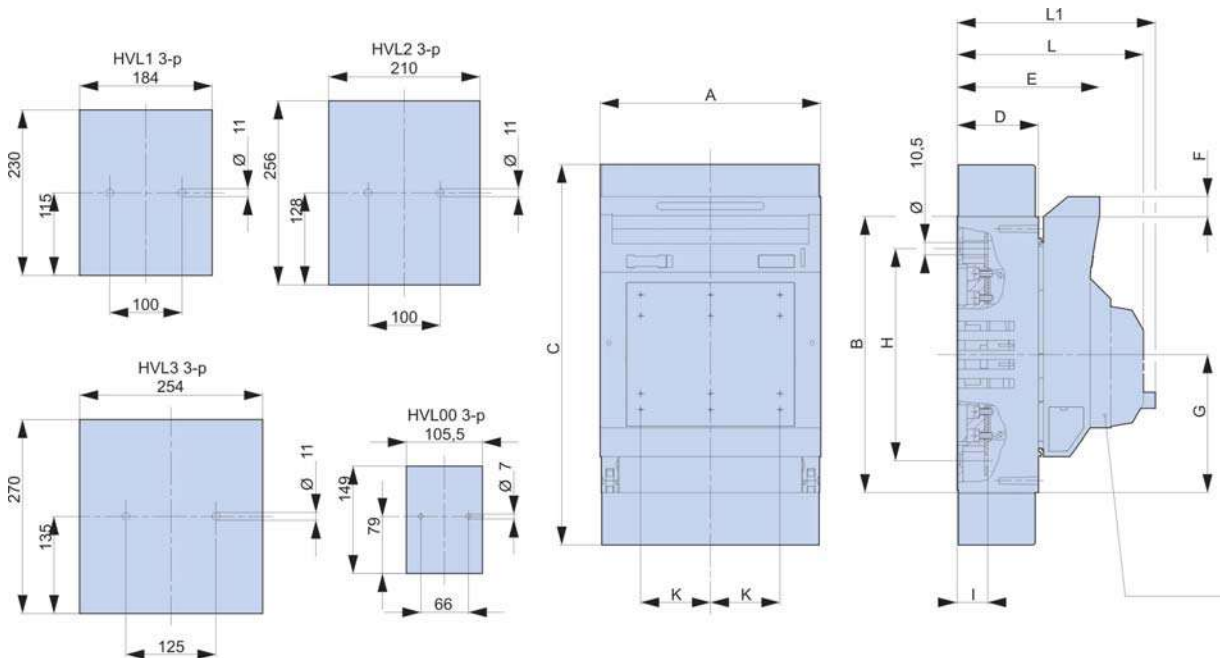
Typ	A	B	C	D	E	F	G	H	I
HVL1 1-p	69	230	317	68	119	16,5	115	177	25
HVL 3 1-p	91	270	430	96	147	9	135	220,5	30,5

HVL 1 and HVL 3



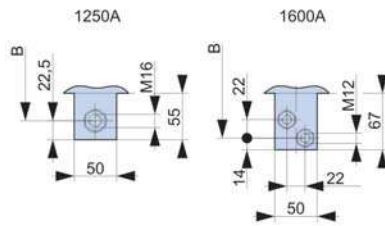
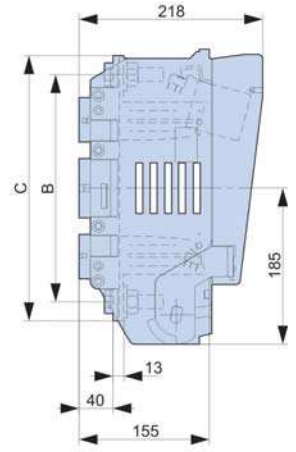
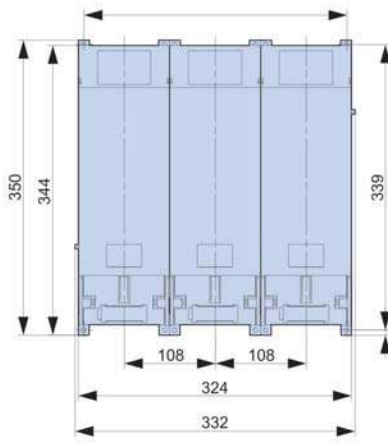
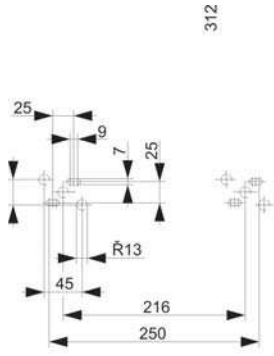
		C
1250A	270	315
1600A	311	339

HVL 4a-1-p



Typ	A	B	C	D	E	F	G	H	I	K	L	L1
HVL00 3-p	105,5	149	220	45	86	20,5	74,5	120	17	33	116	126
HVL1 3-p	184	230	317	68	119	16,5	115	177	25	58	149	159
HVL2 3-p	210	256	397	81	133	16,5	128	205	25	66	163	173
HVL3 3-p	254	270	430	96	147	9	135	220,5	30,5	82	177	187

HVL 00,1,2,3 - 3p



		C
1250A	270	315
1600A	311	339

HVL 4a - 3p