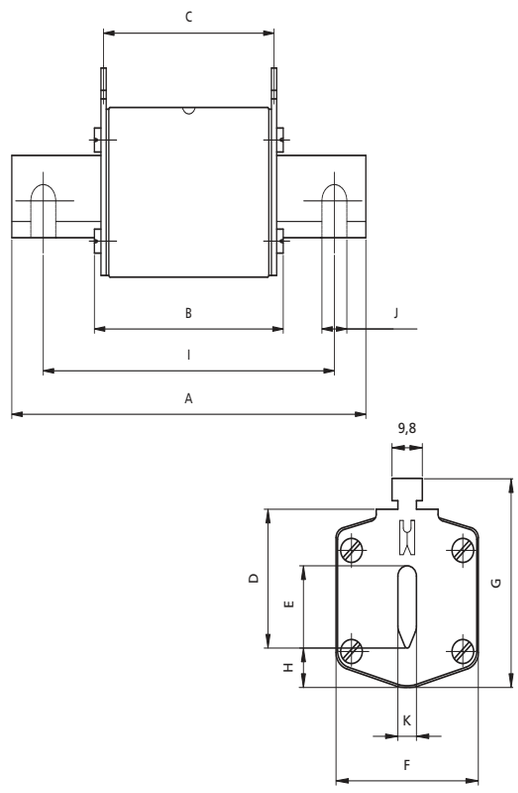
Low voltage NV/NH knife-blade fuse-links

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+A11995+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

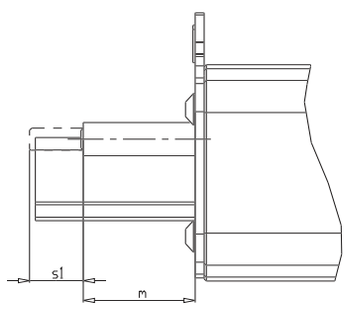
Fuse-link NV/NH gG

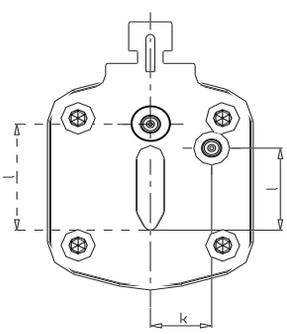
type	dimensions											
	A	B	C	D	E	F	G	H	I	J	K	
NV00 C	79	53	47	35	15	21	52	7,5			6	kombi
NV00 CI	79	53	47	35	15	21	52	7,5			6	kombi
NV00	79	53	47	35	15	28	56	12			6	kombi
NV00 I	79	53	47	35	15	28	56	12			6	kombi
NV0	125	68	65	35	15	28	56	12			6	kombi
NV1 C	135	68	65	40	15	28	61	12			6	kombi
NV1 CI	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

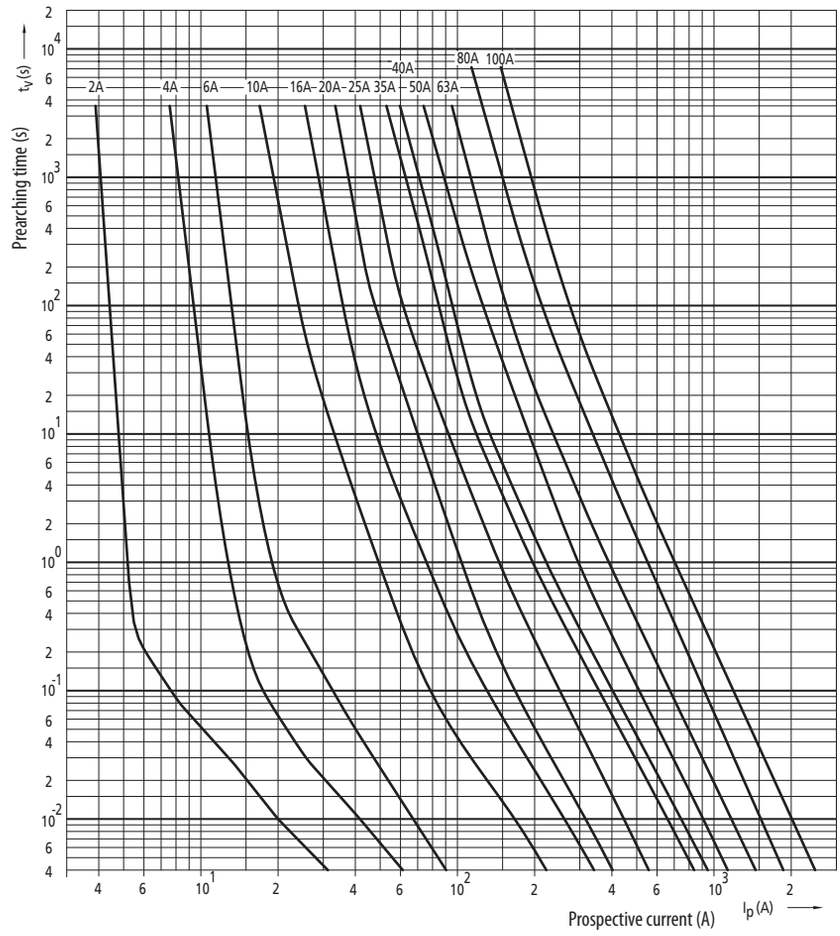
type	dimensions			
	k	l	m	s1
00C	150	72	65	48
00	150	72	65	48
1	150	72	65	48
2	150	72	65	60
3	150	72	65	60
4a	200	75	66	87



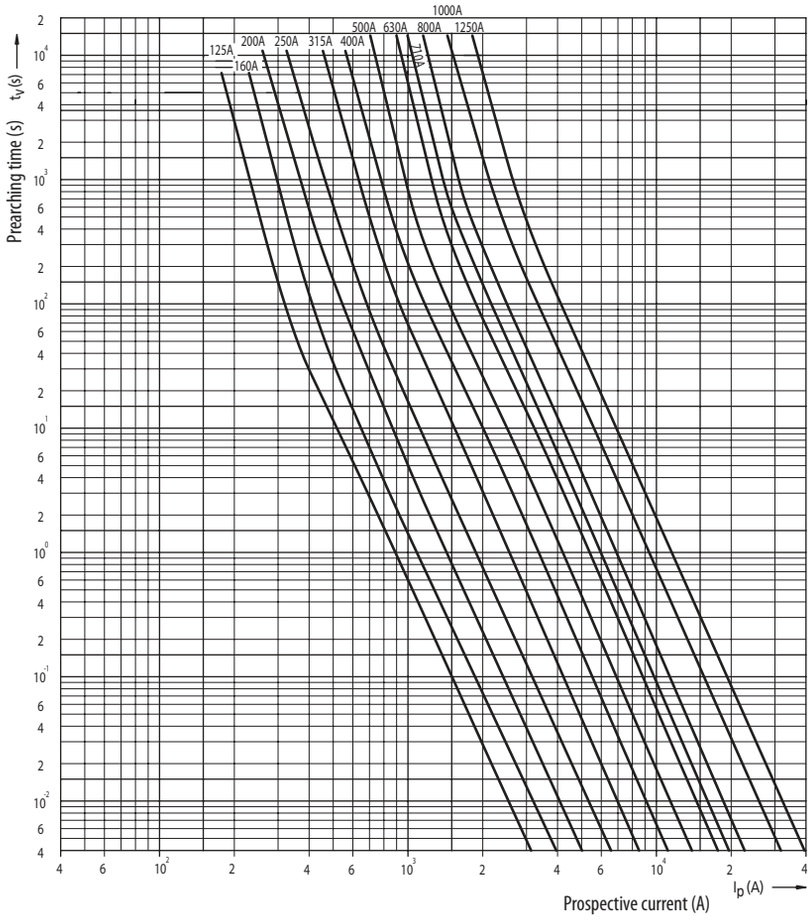


Fuse-link NV/NH gG characteristics

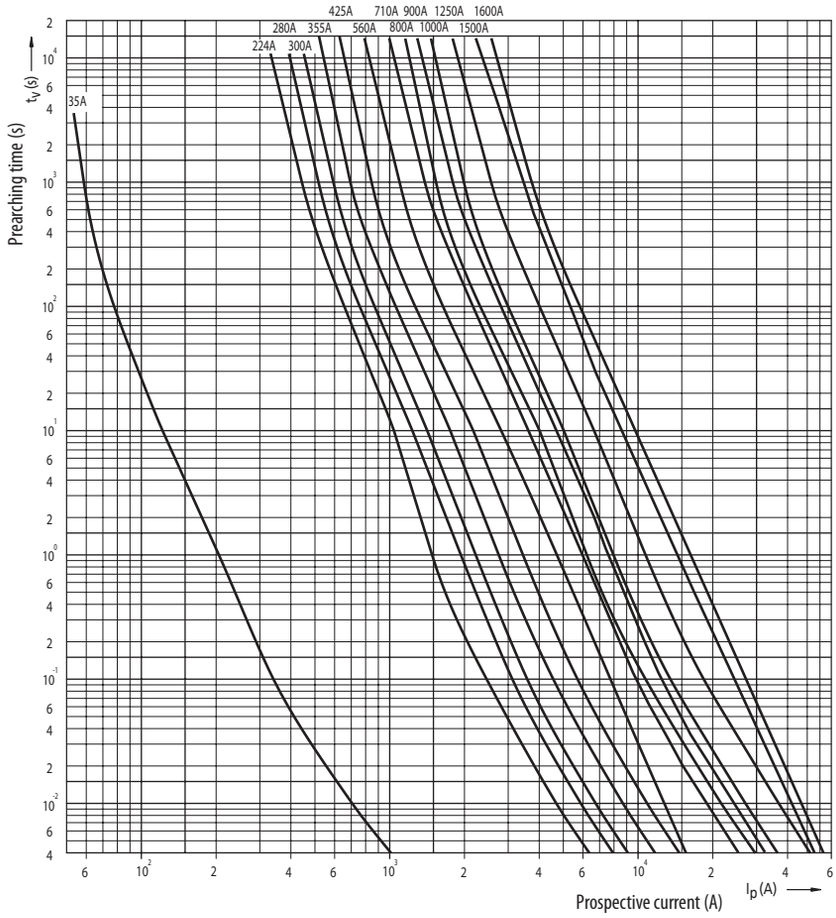
Time current characteristics I/t, gG



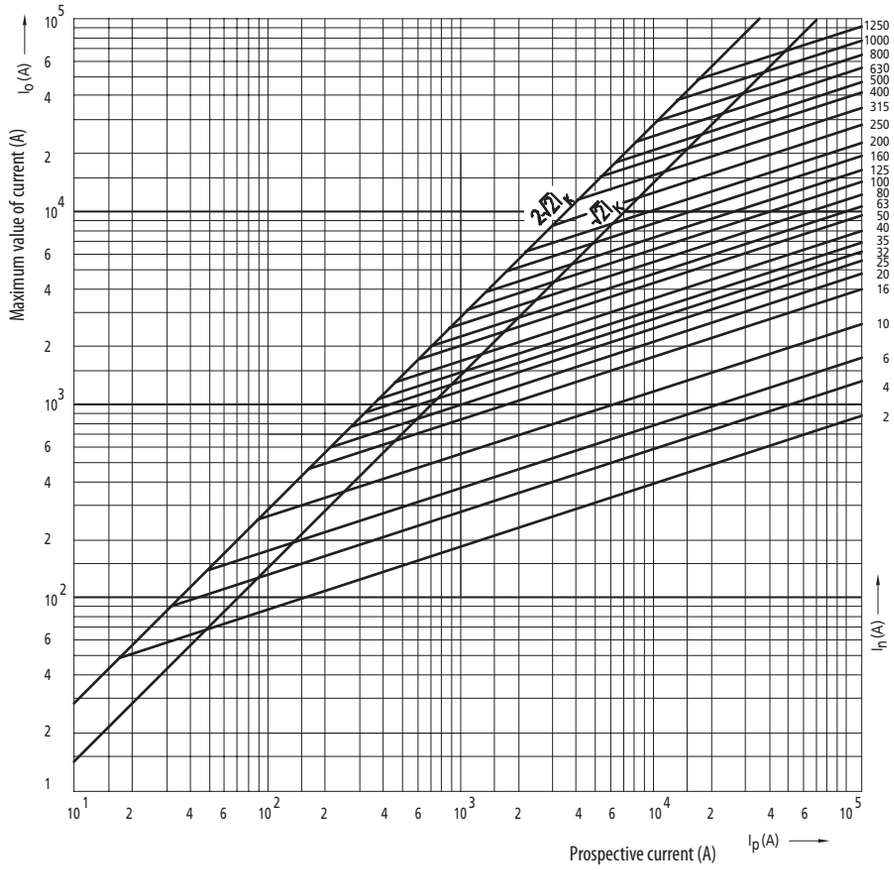
Time current characteristics I/t, gG



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



Cut-off current characteristics



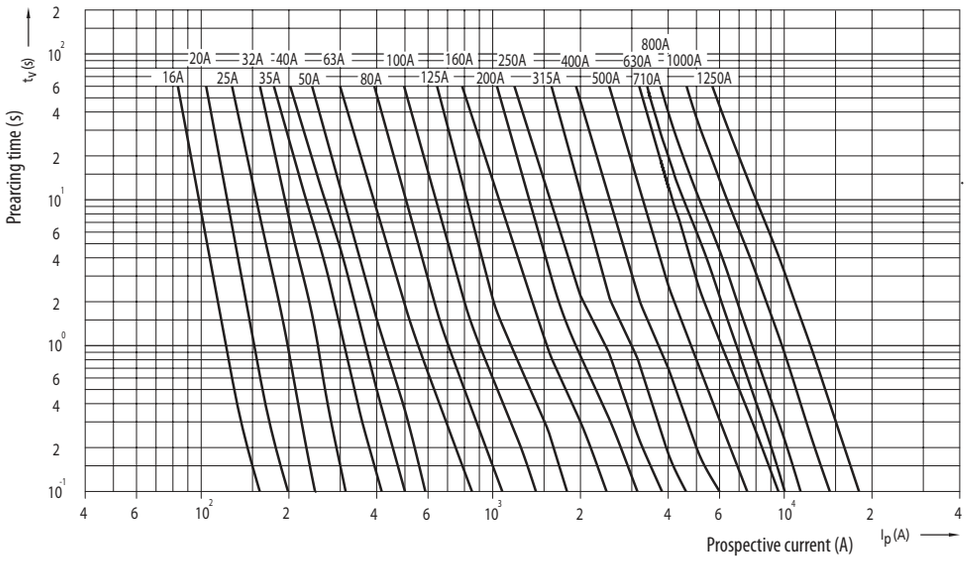
NV fuse-link aM

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

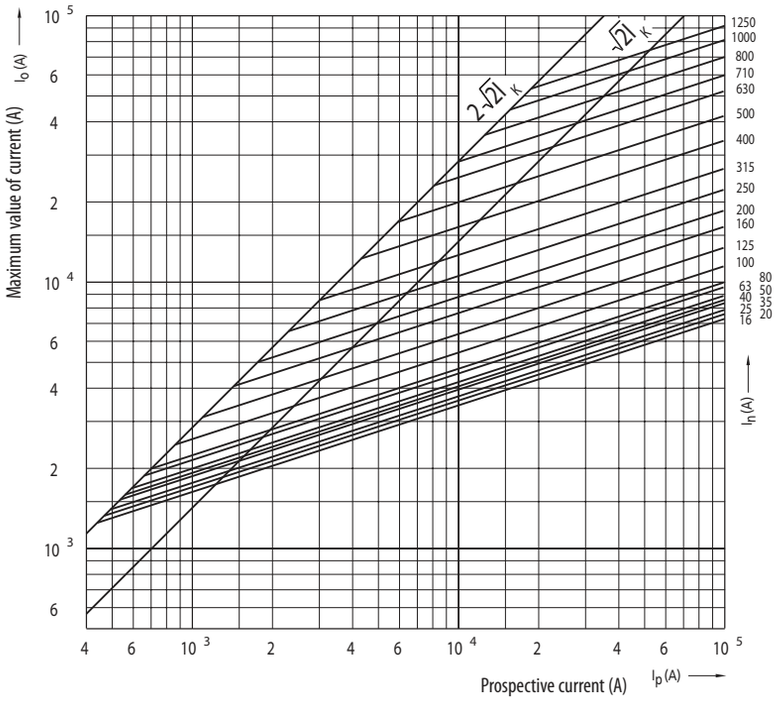
Power dissipation of fuse-links NV aM 690 V a.c.

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

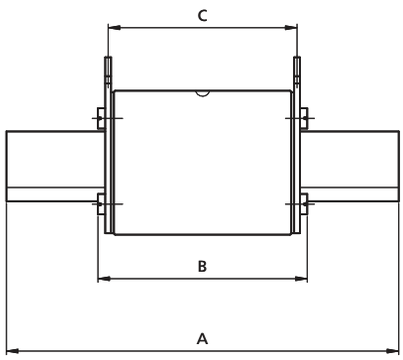
Time current characteristics I/t, aM

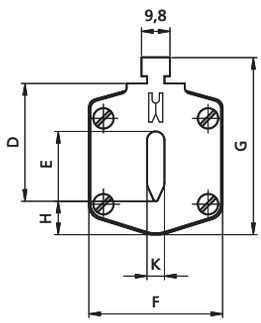


Cut-off current characteristics



Fuse-link NV/NH gF



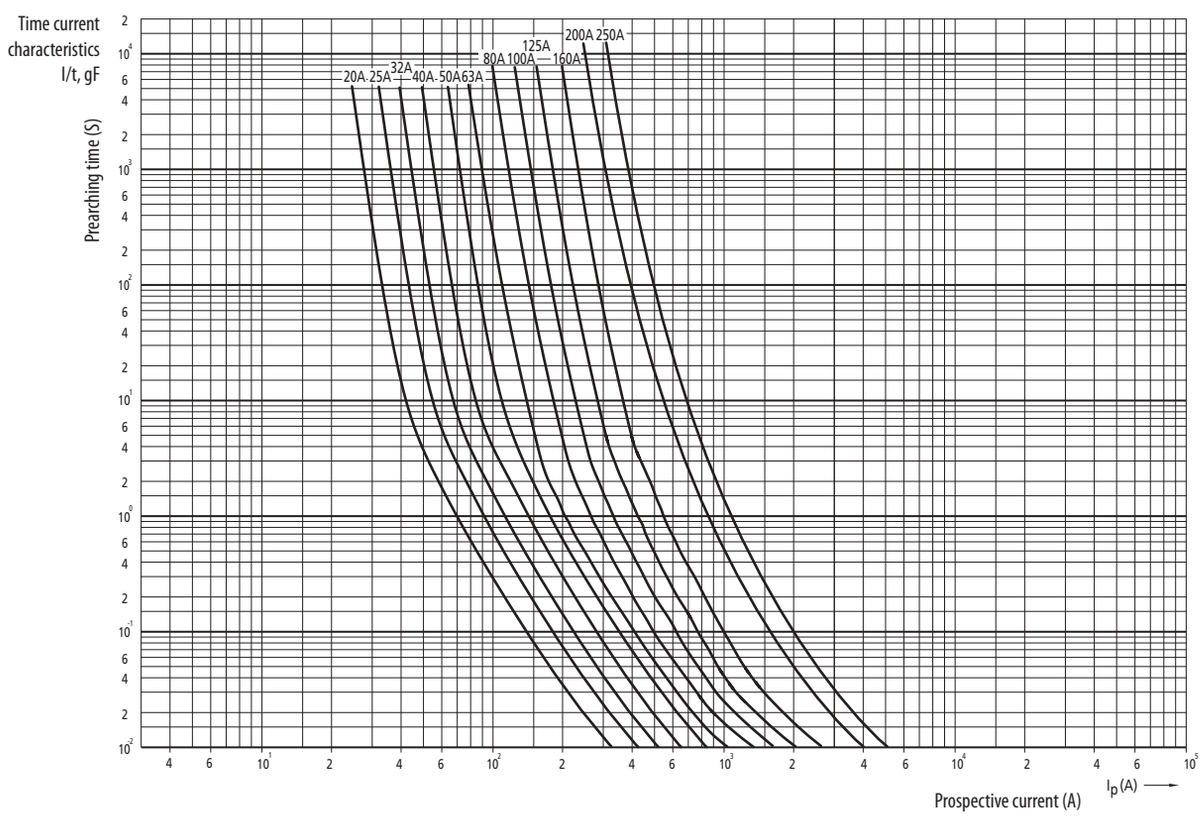


Technical data:	
Rated voltage U_n	400 V a.c.
Rated current I_n	20 - 250 A
Dimensions	DIN 43620, IEC 60269, EN 60269
Fusing characteristics	gF acc. to PN 91/E-06160/10 PN 91/E-06160/21
Breaking capacity I_n	100kA

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.

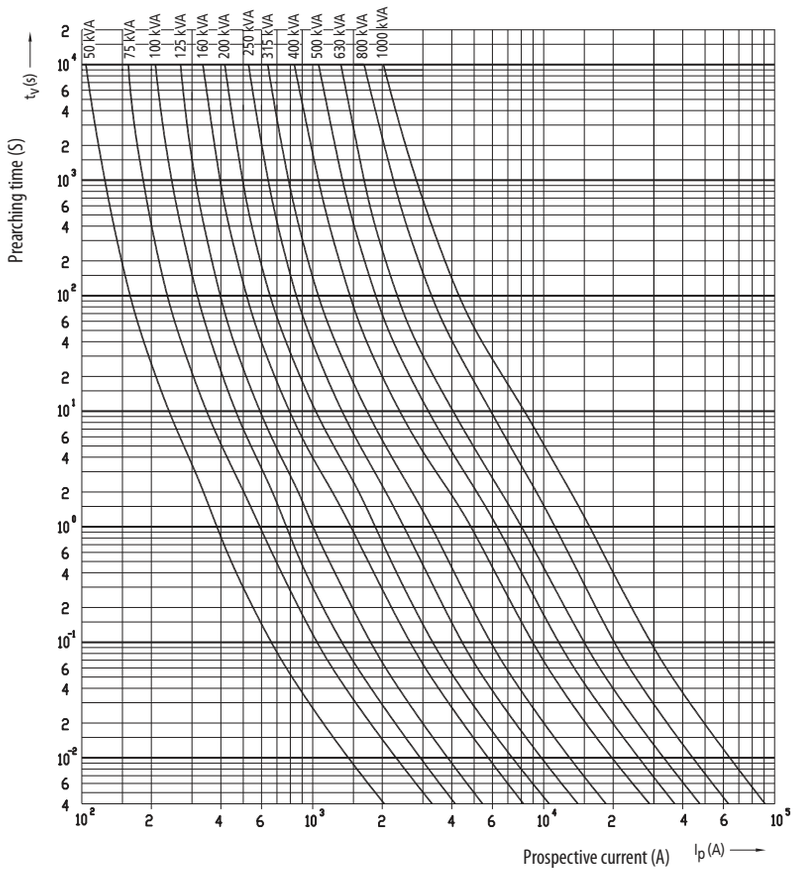
size	the highest rated current at according to PN-IEC 60269-2 (A)	the maximal power dissipation (W)	real power dissipation of fuse-links (W)
NV 00 C	100	12	7,2
NV 00	160	16	15,1
NV 1 C	160	23	21,9
NV 1	250	32	31,3



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

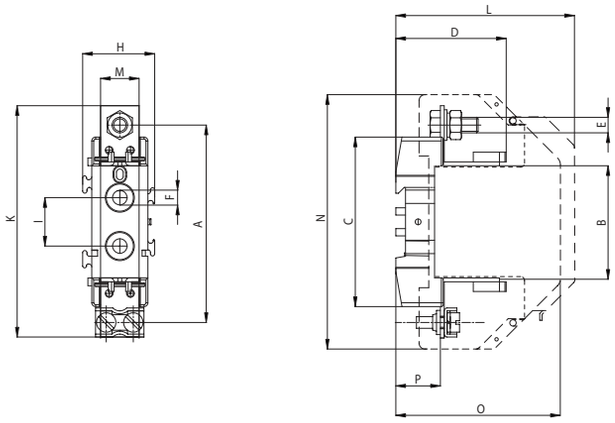


Fuse base

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

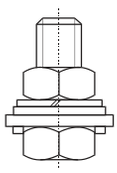
type	dimension													
	A	B	C	D	E	F	H	I	K	L	M	N	O	P
NVPP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120		20			23
NVPP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120		20			23
NVPP 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120		20			23
NVPPI 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120		20	132	84,5	23
NVPPI 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120		20	132	84,5	23
NVPPI 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
NVPPIP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120	90	20	132	84,5	23
NVPPIP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120	90	20	132	84,5	23
NVPPIP 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
NVPPN 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120		20			23
NVPPN 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120		20			23
NVPPN 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120		20			23
NVPPNI 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120		20	132	84,5	23
NVPPNI 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120		20	132	84,5	23
NVPPNI 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
NVPPNIP 00 M8-2M6	100	56,5	87,5	57	M8-2 x M6	7,5	37	25	120	90	20	132	84,5	23
NVPPNIP 00 M8-M8	100	56,5	87,5	57	M8-M8	7,5	37	25	120	90	20	132	84,5	23
NVPPNIP 00 2M6-2M6	100	56,5	87,5	57	2 x M6-2 x M6	7,5	37	25	120	90	20	132	845	23



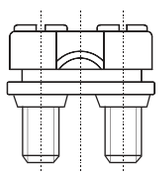
1-pole bases PK and PKI

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

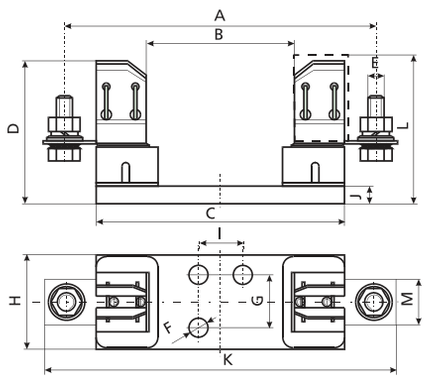
Insulating sleeves are installed with bases PKI, PPI; their purpose is an additional protection against shock hazard.



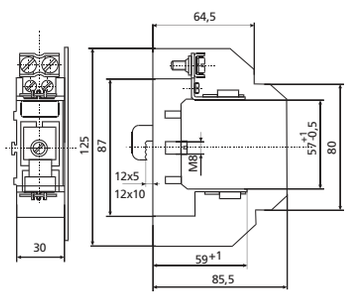
Connection M8
(6 - 50 mm^2Cu)



Connection 2 X M6
(6 - 70 mm^2Cu)

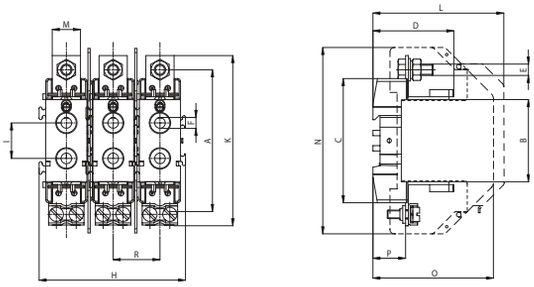


1-pole base PPR



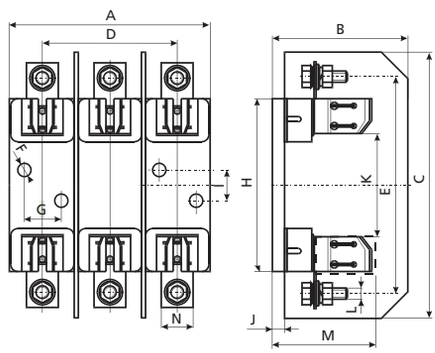
3-pole base NVPP 00

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
NVPPI 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
NVPPI 00/3 M8-M8	100	56,5	87,5	57	M8-M8	7,5	104	25	120		20	132	84,5	23	33
NVPPI 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



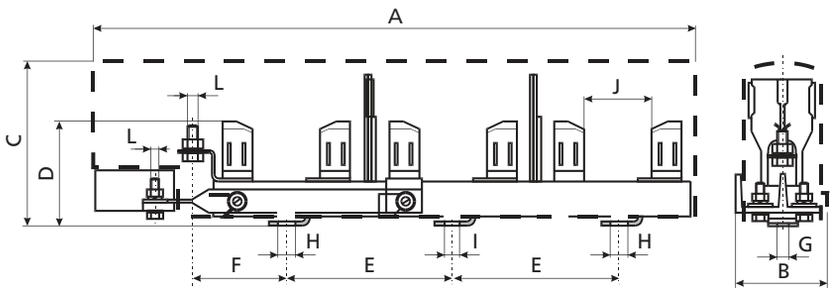
3-pole base PK and PKI

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

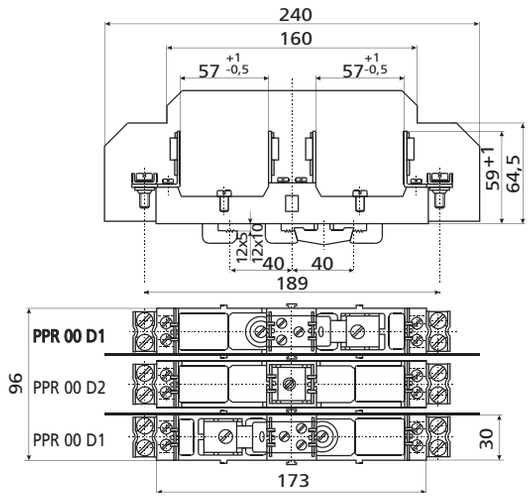


3-pole base Z

type	dimension											
	A	B	C	D	E	F	G	H	I	J	K	L
PPI 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

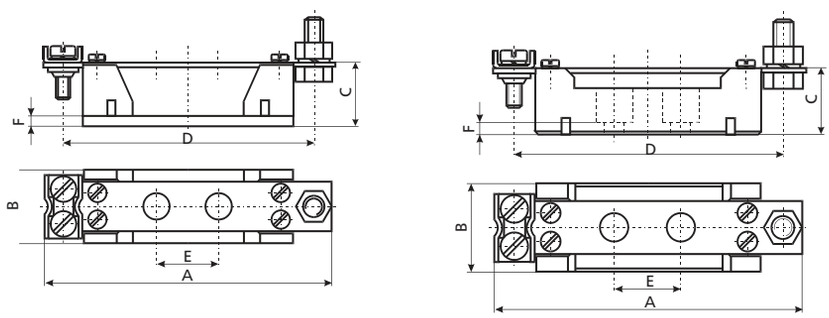


3 - pole bases PPR

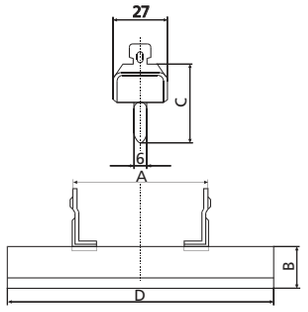


Earth clamp

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

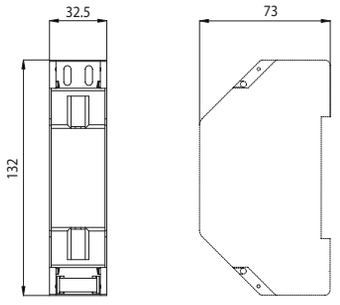


Accessories

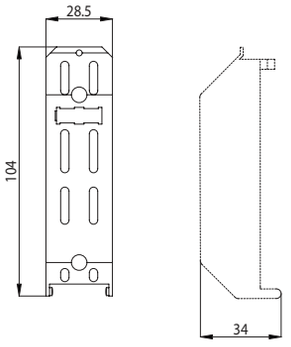


NV separator

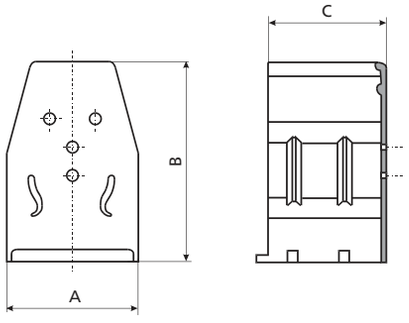
type	dimension			
	A	B	C	D
NV L 00	49	15	35	78,5
NV L 0	68	15	35	125
NV L 1	68	20	40	135
NV L 2	68	26	46	150
NV L 3	68	36	56	150



Insulating sleeves of contact spring NVPP 00



Protection cover NVPP 00

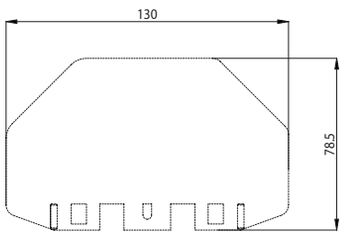


Insulating sleeve of contact spring PK and PP

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

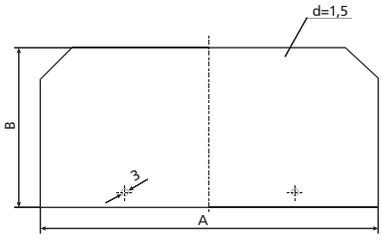
Base separating element

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-rails

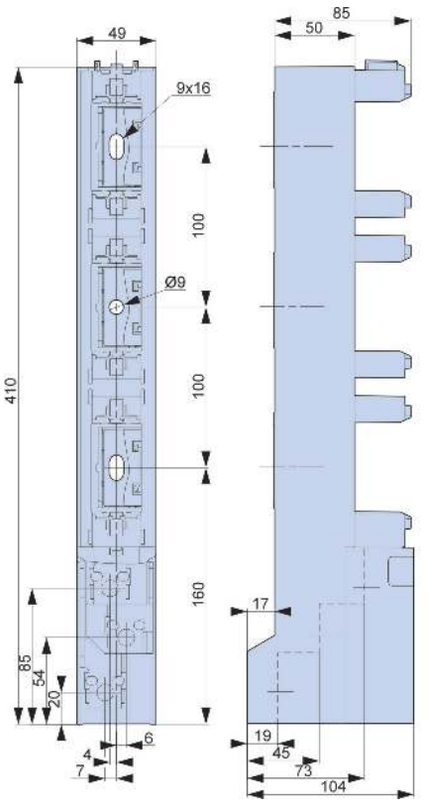
Technical data of insulated fuse-rails (in accordance with VDE 0636, part 201, IEC 60269-2-1)

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_{th} (without fuse)	Pv	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	Ma	Nm	12-15				30-35			
V-clip	-	mm^2	10-95				25-300			
Torque	Ma	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			

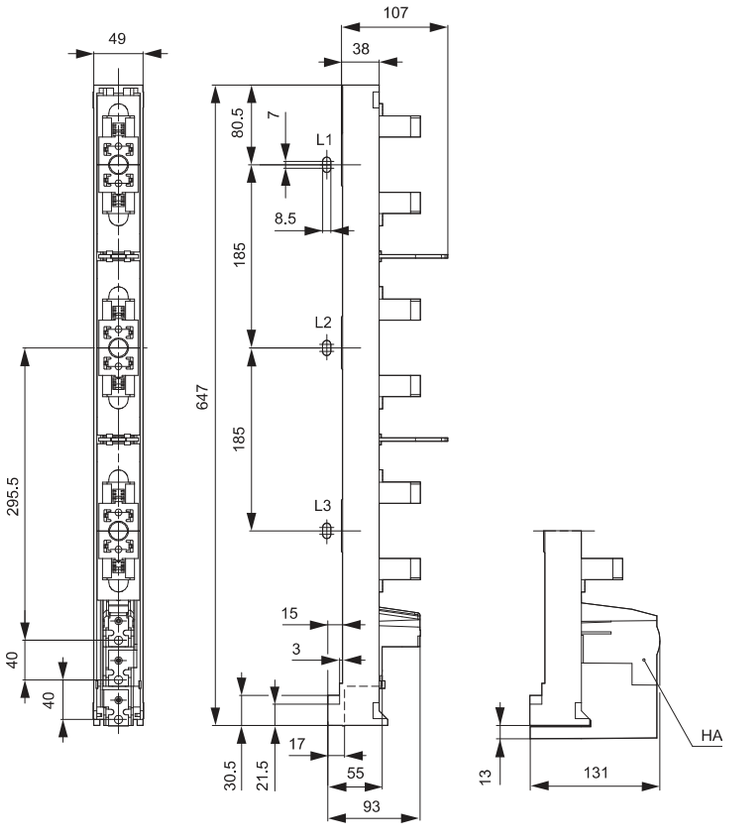
Technical data of insulated fuse-rails (in accordance with VDE 0636, part 201, IEC 60269-2-1)

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_{th} (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	Ma	Nm	35-40				35-40			
V-clip	-	mm^2	25-300				25-300			
Torque	Ma	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			

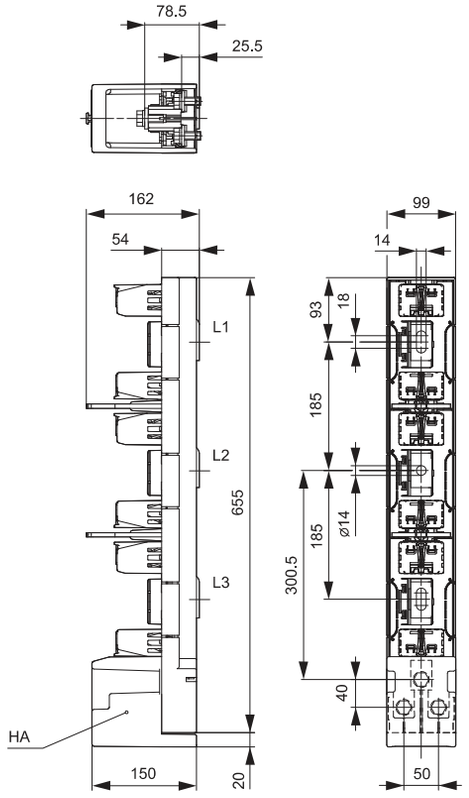
Dimensional overview of LV NV fuse-rails



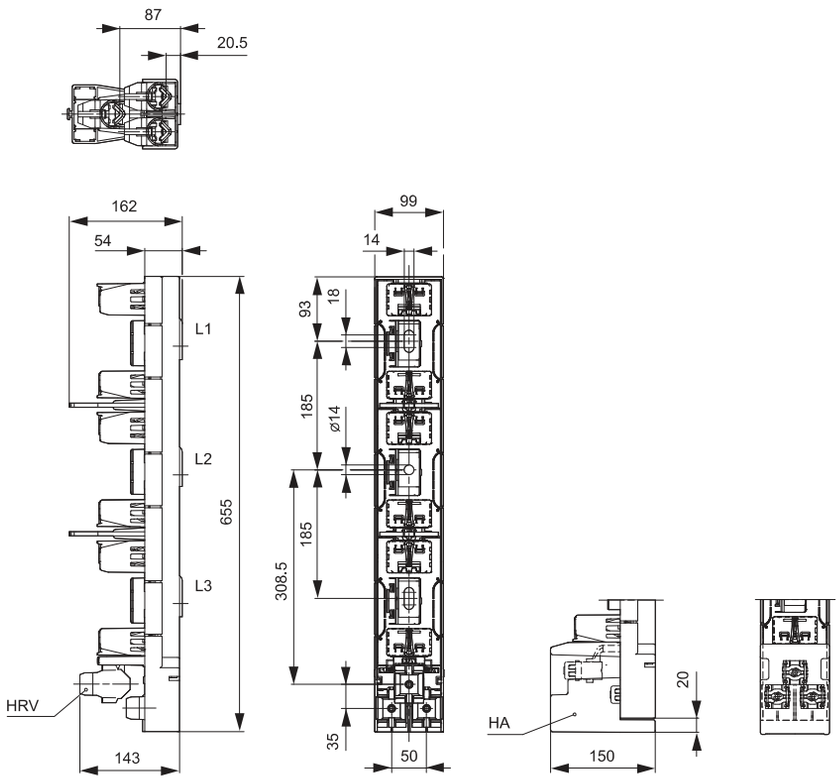
size 00/100



size 00/185

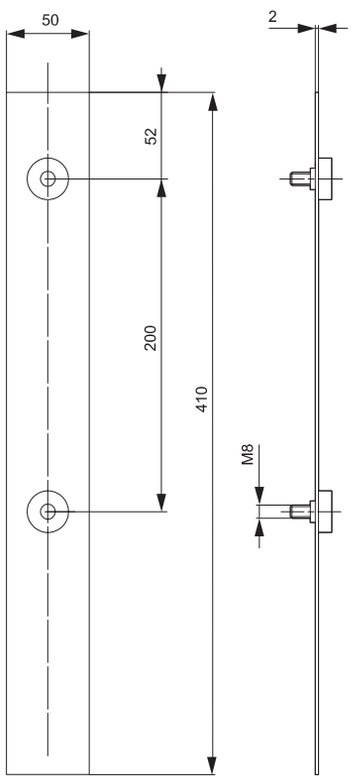


size 1, 2, 3 (M terminal)

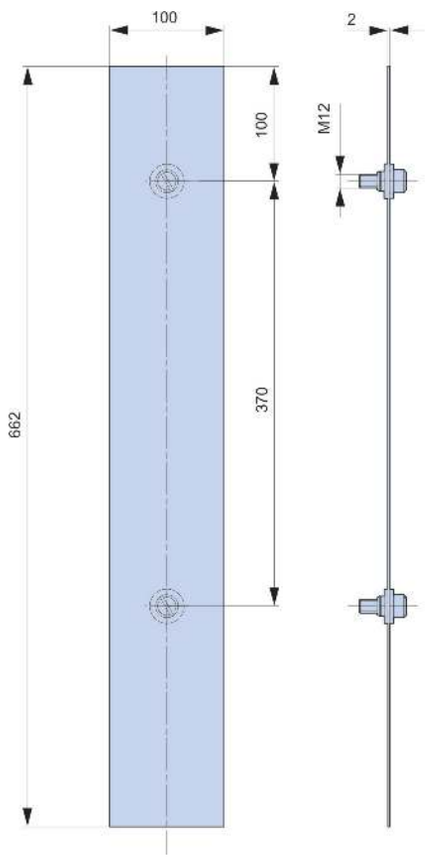


size 1, 2, 3 (SP terminal)

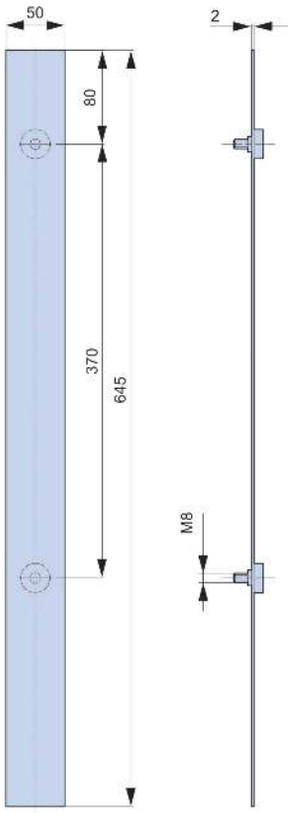
Dimensional overview of accessories for LV NV fuse-rails



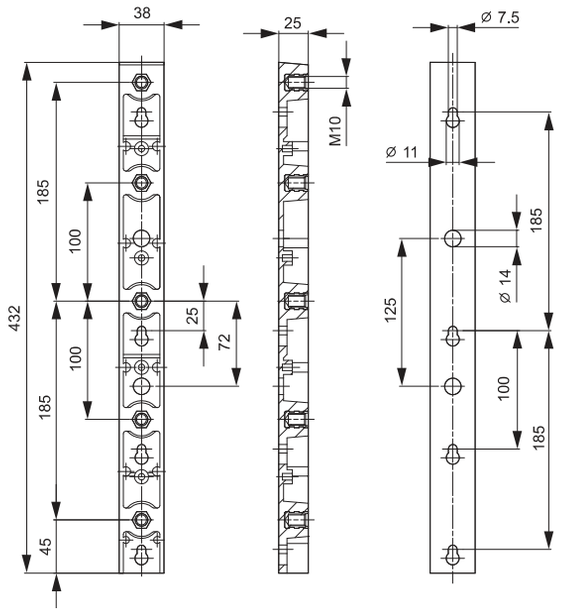
busbar covering PZ 00/100



busbar covering PZ 123/185busbar covering PZ 00/185



busbar covering PZ 00/185



busbar support PP 100/185

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	AC 400	DC220	DC440	AC500	AC690	AC 400	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_{th} (without fuse)	Pv	W	18	7	18	12	5	23	15	23*	16	11
Utilization category	-	-	AC22B	AC22B	AC23B	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	Ma	Nm	12-15					30-35				
V-clip	-	mm^2	10-95					25-300				
Torque	Ma	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									
Mounting	-	-	vertical, horizontal									
Altitude	-	m	Up to 2000									
Pollution degree	-	-	3									
Overvoltage category	-	-	III					III				

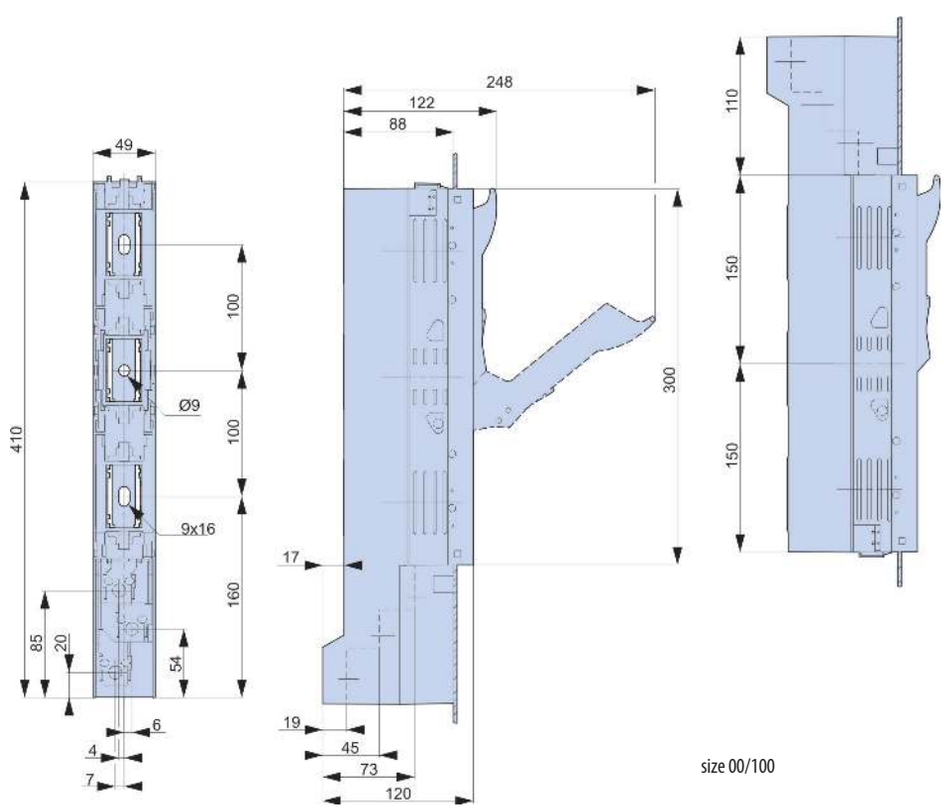
* delta contact

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

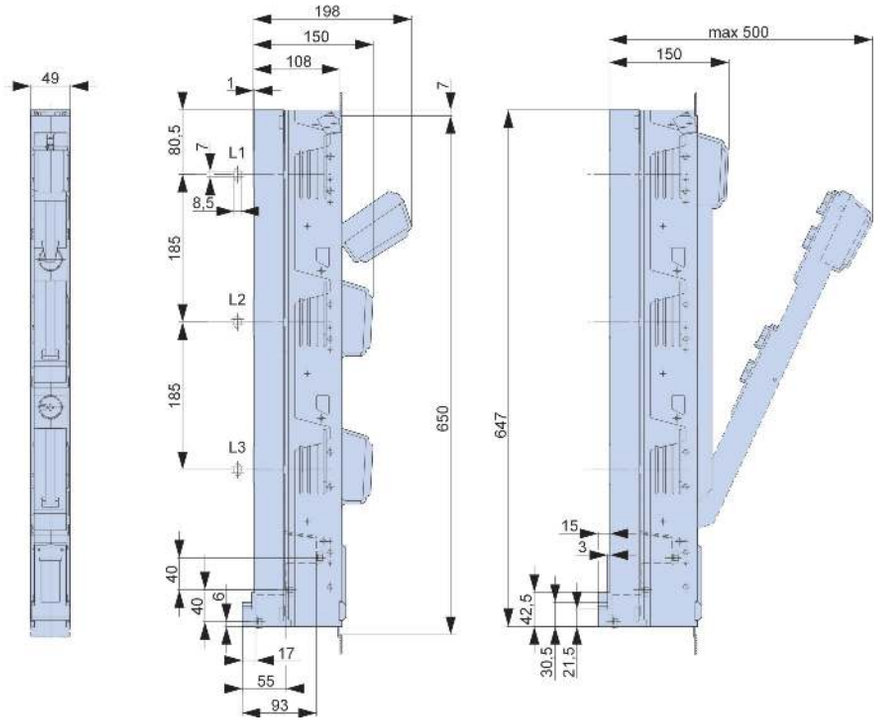
Technical Specifications			Size 2					Size 3				
Electrical Characteristics												
Rated operational voltage	U_e	V	AC500	AC690	AC 400	DC220	DC440	AC500	AC690	AC 400	DC220	DC440
Rated operational current	I_e	A	400	315	400	400	315	630	500	630	630	500
Rated frequency	-	Hz	40-60	40-60	40-60	-	-	40-60	40-60	40-60	-	-
Rated insulation voltage	U_i	V	AC1000					AC1000				
Total power loss at I_{th} (without fuse)	Pv	W	49	30	*49	33	21	110	70	100*	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 lose 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	Ma	Nm	35-40					35-40				
V-clip	-	mm2	25-300					25-300				
Torque	Ma	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									
Mounting	-	-	vertical, horizontal									
Altitude	-	m	Up to 2000									
Pollution degree	-	-	3									
Overvoltage category	-	-	IV					IV				

* delta contact

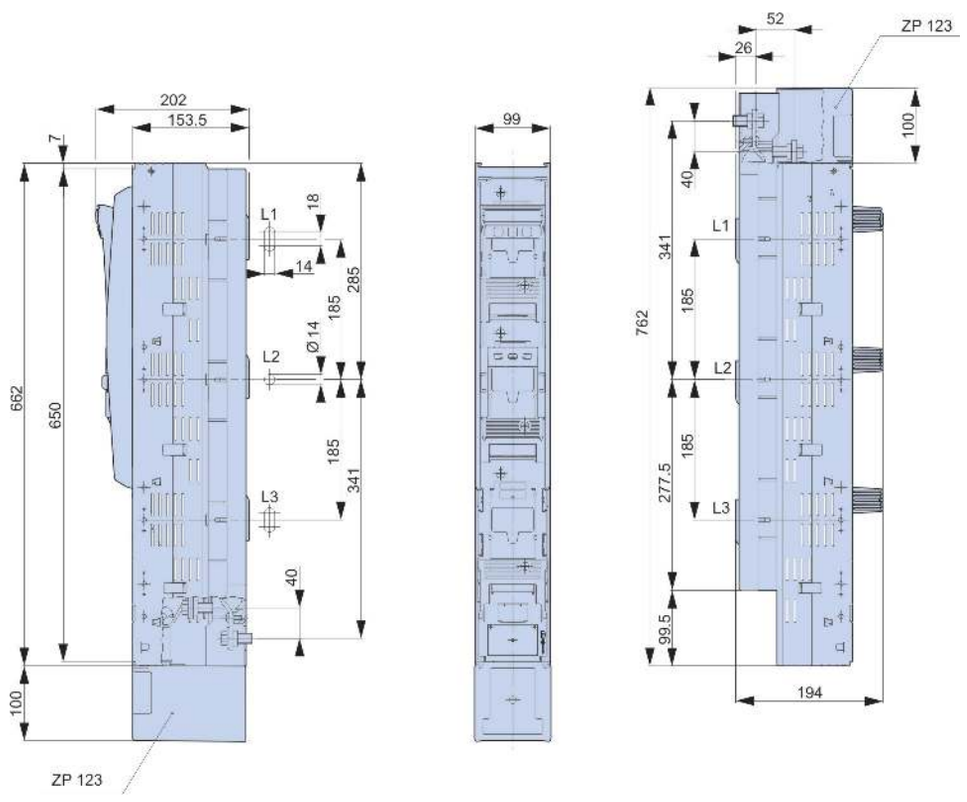
Dimensional overview of NV strip type fuse-switch-disconnectors



size 00/100

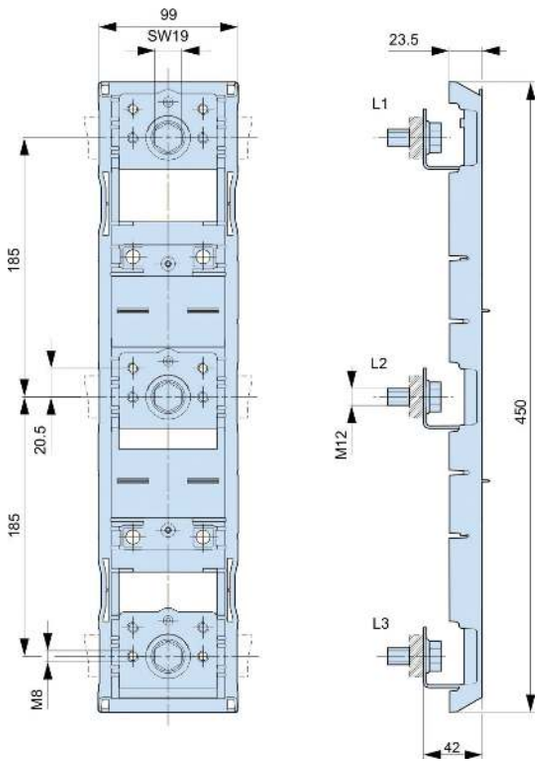


size 00/185

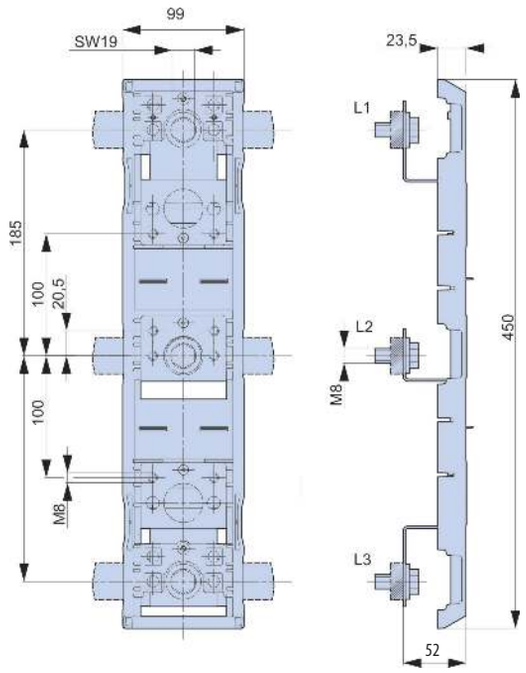


size 1, 2, 3

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



adapter DA 185-185/42



adapter DA 185-100/52

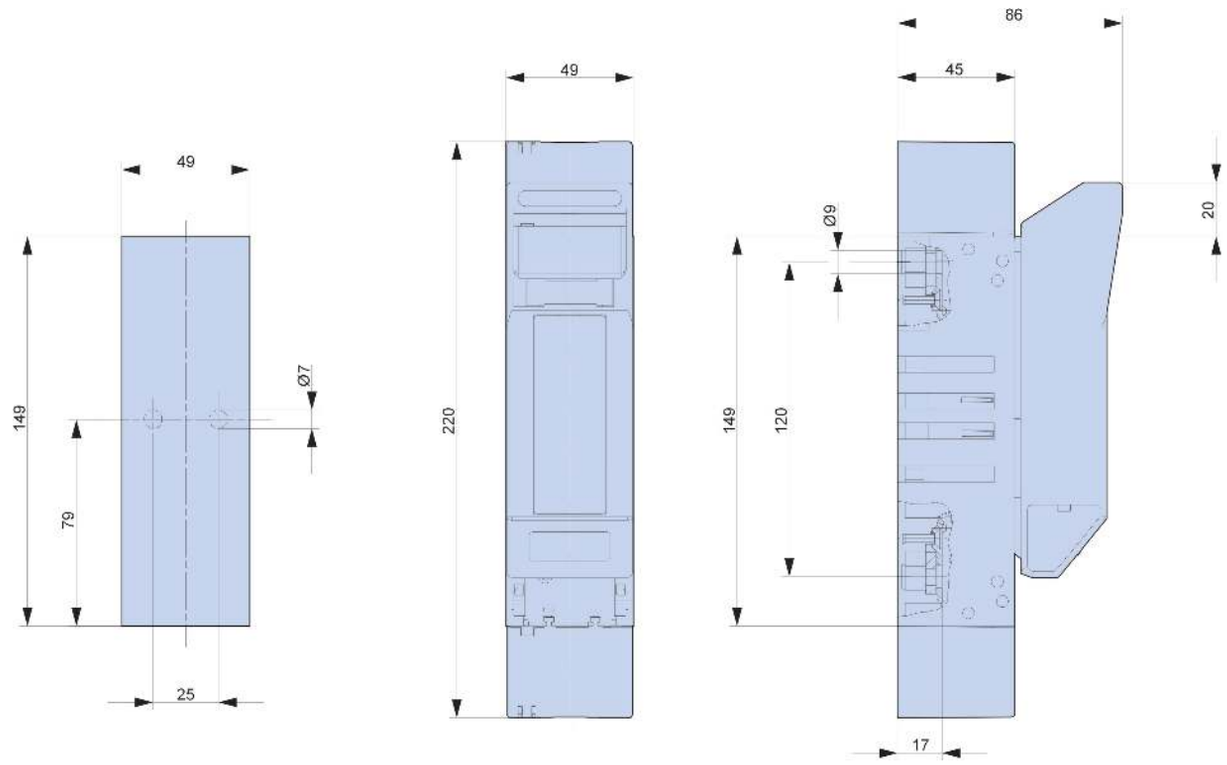
NV disconnectors with fuses, sizes 00,1,2,3,4a

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

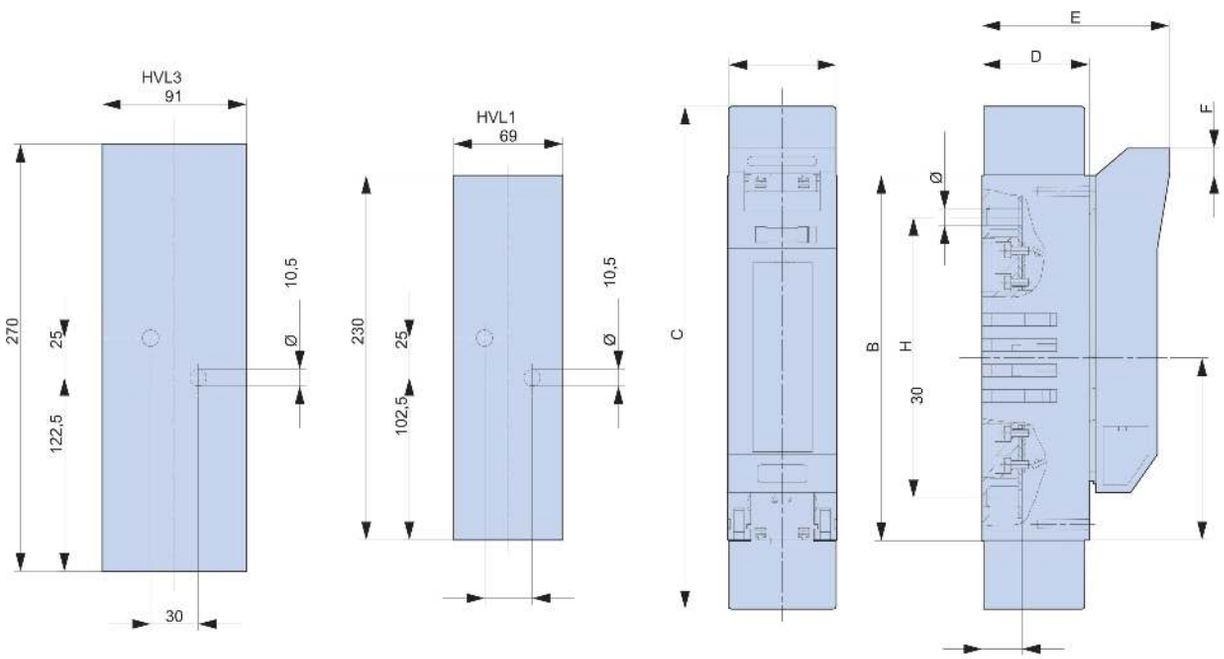
Technical Specifications			Size 00				Size 1			
Technical Characteristics										
Rated operational voltage	U_e	V	AC500	AC690	DC220	DC440	AC500	AC690	DC220	DC440
Rated operational current	I_e	A	160	100	160	100	250	200	250	200
Rated frequency	-	Hz	40-60	40-60	-	-	40-60	40-60	-	-
Rated insulation voltage	U_i	V	AC750				AC750			
Total power loss (without fuse)	Pv	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 lose per fuse link	P_v	W	12				23			
Screw	-	-	M8				M10			
Torque	Ma	Nm	12-15				30-35			
V-clip	-	mm^2	1,5-70				25-150			
Torque	Ma	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)	Pv	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)	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	Ma	Nm	30-35				30-35			
V-clip	-	mm^2	25-240				25-240			
Torque	Ma	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)	Pv	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	Ma	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	

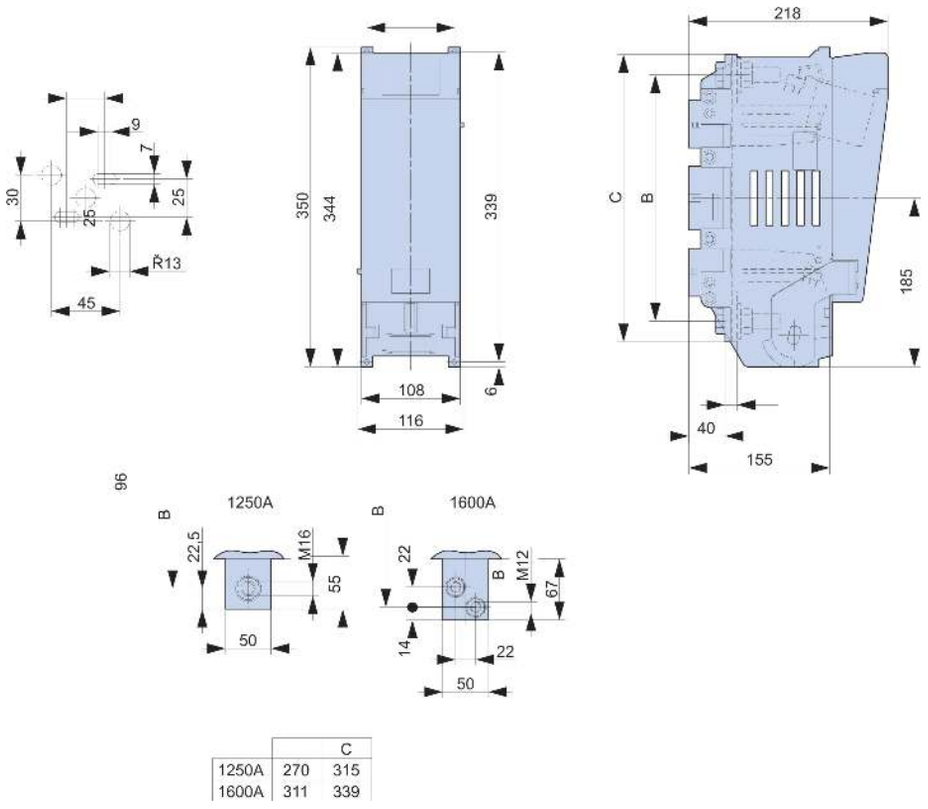


HVL 00 1-p



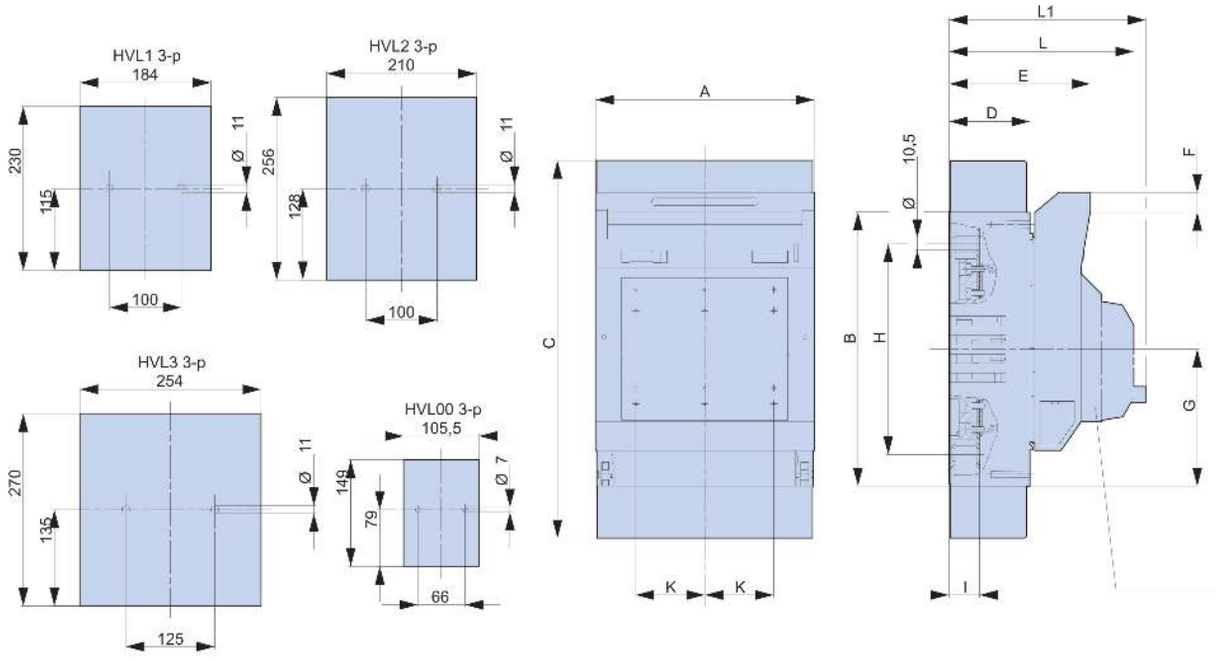
Typ	A	B	C	D	E	F	G	H	I
HVL1 1-p	69	230	317	68	119	16,5	115	177	25
HVL 3 1-p	91	270	430	96	147	9	135	220,5	30,5

HVL 1 and HVL 3



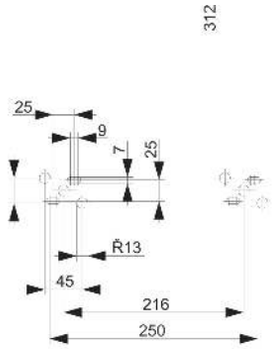
	C	
1250A	270	315
1600A	311	339

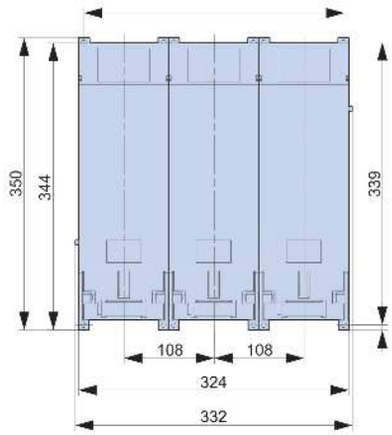
HVL 4a-1-p

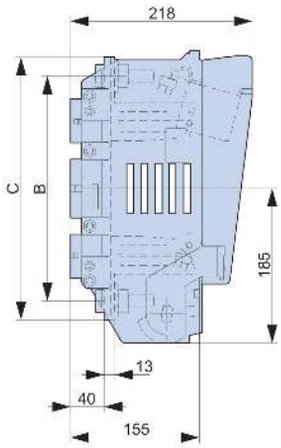


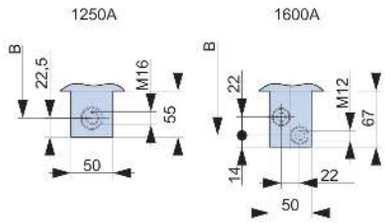
Typ	A	B	C	D	E	F	G	H	I	K	L	L1
HVL00 3-p	105,5	149	220	45	86	20,5	74,5	120	17	33	116	126
HVL1 3-p	184	230	317	68	119	16,5	115	177	25	58	149	159
HVL2 3-p	210	256	397	81	133	16,5	128	205	25	66	163	173
HVL3 3-p	254	270	430	96	147	9	135	220,5	30,5	82	177	187

HVL 00,1,2,3 - 3p









		C
1250A	270	315
1600A	311	339

HVL 4a - 3p