NH Fuse-Switches, horizontal design

Technical data acc. to VDE 0660 T107/EN/IEC 60947-3 for IN series

Suitable for NH fuse-links according to VDE 0660 T 2	Size	000	000/00	1	2	3	4a
Rated operating current I_e	A	100	160	250	400	630	1250 / 1600
Conventional free-air thermic current I_{th}	A	160	160	250	400	630	1250 / 1600
Rated operating voltage U_e	V	690					
Rated isolation voltage U_i	V	690	800				
Rated impulse withstand-current U_{imp}	kV	6	8				
Conditional rated short-circuit current (when protected by NH fuse-links)	kA/400V	80	100	100	100 2)	100	50
Conditional rated short-circuit current (when protected by NH fuse-links)	kA/690V	50					
Utilization category acc. to VDE 0660 T107/EN/IEC 60947-3	Ue = 400V AC Ue = 690V AC Ue = 440V DC1)	AC-22B AC-21B DC-21B					
Mechanical service life	Cycles	2000	1600	1600	1000	1000	600
Permissible ambient temperature	-25 °C to +55 °C						
Degree of protection acc. to DIN/EN 60529/VDE 0470 T1	IP 3X						
Maximum permissible power dissipation of the NH fuse-link	P_N max.	9	12	23	34	48	115 / 140
Weight without fuse-links	kg	0,425	0,5	2,0	3,25	5,3	14,0

1) when equipped with L_1 and L_3 with 2 poles; 1-pole U_e = 220 V DC
2) with pilot tool

Technical data acc. to VDE 0660 T107/EN/IEC 60947-3 for SILAS series

Suitable for NH fuse-links according to VDE 0636 T2	Size	000	00	1	2	3
Rated operating current I_e	A	100	160	250	400	630
Conventional free-air thermic current I_{th}	A	100	160	250	400	630
Rated operating voltage U_e	V	690				
Rated isolation voltage U_i	V	1000				
Rated impulse withstand-current U_{imp}	kV	6	8			
Conditional rated short-circuit current (when protected by NH fuse-links)	kA	80	80	80	50	80
Utilization category acc. to VDE 0660 T107/EN/IEC 60947-3	U_e = 400V AC U_e = 690V AC U_e = 220V DC U_e = 440V DC	AC-23B AC-21B Please inquire DC-22B	AC-23B AC-21B DC-22B Please inquire	AC-23B AC-22B DC-21B DC-21B	AC-23B AC-22B DC-21B DC-21B	AC-23B AC-22B DC-21B DC-21B
Mechanical service life	Cycles	2000	1600	1600	1000	1000
Permissible ambient temperature	-25 °C to +55 °C					
Degree of protection DIN/EN 60529/VDE 0470 T1	IP 3X					
Maximum permissible power dissipation of the NH fuse-link	W	7,5	12	23	34	48
Weight without fuse-links	kg	0,54	0,84	2,2	3,6	4,1

NH Fuse-Switches, horizontal design

Product range overview

	Size 000	Size 00	Size 1	Size 2	Size 3
Baseplate mounting	•	•	•	•	•
40/12 mm busbar spacing	•	•	•	•	
60 mm busbar system	•	•	•	•	•
100 mm busbar system			•	•	•
Supporting-rail mounting	•	•	•		
Support profile	•	•	•	•	•
Terminal cover	•	•	•	•	•
Pressure plate for Cu conductor		•	•	•	•
Contact prism for Cu/Al conductor		•	•	•	•
Twin terminal with contact prism for Cu/Al conductors			•	•	•
Box clamp	•	•	•	•	•
Switch position indication	•	•	•	•	•
Electronic fuse-monitoring	•	•	•	•	•
Mechanical fuse-monitoring with circuit breaker		•	•	•	•
Anti-theft protection	•	•	•	•	•
Horizontal installation	•	•	•	•	•

NH Fuse-Switches, horizontal design

Conductor connections and sizes for IN series

Type of terminal	Conductor type		NH 000	NH 00	NH 1	NH 2	NH 3	4a	Size
Multiple-use terminal (screw terminal)	-	-	-	M8	M10	M10	M10	M12/M16	
Pressure plates with bolts	CU	re	-	1,5-16	1,5-16	-	-	-	mm²
		rm/sm	-	2-25	6-50	6-70	6-70	-	
Pressure plates with bolts and contact prisms	CU AL	re/rm/ se/sm	-	2,5-70	70-150	70-240	70-240	-	mm²
Box clamp	CU	rm/re	1,5-50	-	-	-	-	-	mm²
		se/sm	-	-	-	-	-	-	
Triple terminal	CU	re	-	1,5-10	-	-	-	-	mm²
		rm	-	10-16	-	-	-	-	
Flat conductor (width x height) ≤	-	-	-	10x6	16x15	21x15	21x15	-	mm

Conductor connections and sizes for SILAS series

Type of terminal	Conductor type		NH 000	NH 00	NH 1	NH 2	NH 3	Size
Multiple-use terminal (screw terminal)			-	M8	M10	M10	M10	
Pressure plates with bolts	CU	re	-	6-50	70-150	-	-	mm²
		rm/sm	-	6-25	6- 50	6-70	6-70	
Pressure plates with bolts and contact prisms	CU AL	re/rm/ se/sm	-	6-70	70-150	120-240	150-300	mm²
Pressure plates with bolts and contact prisms for two conductors	CU AL	rm/se/ sm	-	-	2x35-70	2x70-120	2x150	mm²
Box clamp	CU	rm/re	2,5-50	2,5-95	35-150	95-300	95-300	mm²
		se/sm	-	-	50-150	120-300	120-300	
	AL	rm/re	-	-	35-150	95-300	95-300	
		se/sm	-	-	50-150	120-300	120-300	
Triple terminal	CU	re	-	1,5-10	-	-	-	mm²
		rm	-	10-16	-	-	-	
Flat conductor (width x height) ≤					1 x20	8 x32	8 x32	
					15x20	20x32	20x32	

NH Fuse-Switches, horizontal design

Tightening torques for terminals and busbar mounting for IN series

Size	NH 000	NH 00	NH 1	NH 2	NH 3	4a
Type of terminal	Tightening torques (Nm)					
Multiple-use terminal (screw terminal)	-	14	32	32	32	32 / 56
Pressure plates with bolts	-	4	8	14	14	-
Pressure plates with bolts and contact prisms	-	4	8	14	14	-
Busbar contacting	-	6	10	10	14	-
Box clamp	3	3	-	-	-	-

Tightening torques for terminals and busbar mounting for SILAS series

Size	NH 000	NH 00	NH 1	NH 2	NH 3
Type of terminal	Tightening torques (Nm)				
Multiple-use terminal (screw terminal)	-	12	20	20	20
Pressure plates with bolts	-	3	6	8	8
Pressure plates with bolts and contact prisms	-	3	6	8	8
Busbar contacting	4,5	6	6	8	8
Box clamp	4,5	5	12	20	20

Connection with two cable lugs

Size	16 mm²	25 mm²	35 mm²	50 mm²	70 mm²	95 mm²	120 mm²	150 mm²	185 mm²	240 mm²	300 mm²
00	2 x	2 x	2 x	2 x		-	-	-	-	-	-
1	2 x	2 x	2 x	2 x	2 x	2 x	2 x	2 x	2 x	-	-
2	-	-	-	-	-	-	-	2 x	2 x	2 x	2 x
3	-	-	-	-	-	-	-	2 x	2 x	2 x	2 x

Cable lugs according to DIN 46235 were used for verification.
Other commercially available cable lugs may have different dimensions but are usually compatible.

NH Fuse-Switches, horizontal design

Baseplate mounting

Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
Box clamp 1.5 – 50 mm²	000	160	NH-Latr 000 R4R4	10	0,422	**34050-0000**
Box clamp 2.5 – 50 mm², narrow version – 53 mm	000	100	SILAS NH000 R4R4	1	0,568	**34040-0007**

Supporting-rail mounting

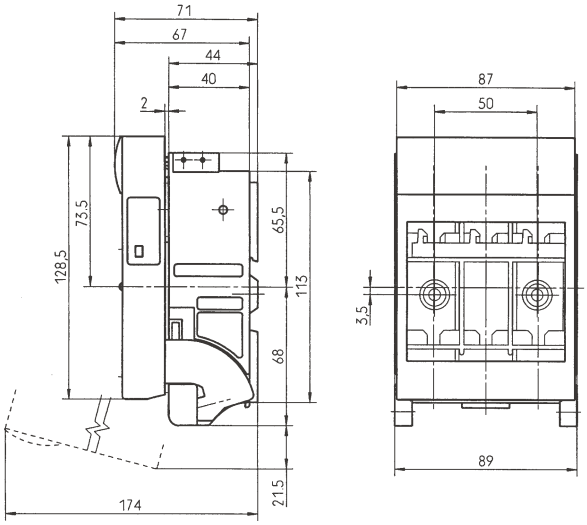
Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
Box clamp 1.5 – 50 mm²	000	160	NH-Latr 000 HB R4R4	10	0,42	**34050-0070**

Supporting-rail mounting

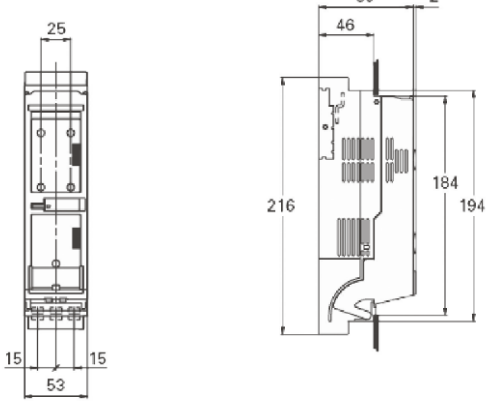
Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
Multiple-use terminal (bolt M8)	00	160	NH-Latr 00IN HB U5U5	10	0,60	**34060-0070**
Box clamp 1.5 – 50 mm²	00	125	NH-Latr 00IN HB R2R2	10	0,55	**34065-0070**

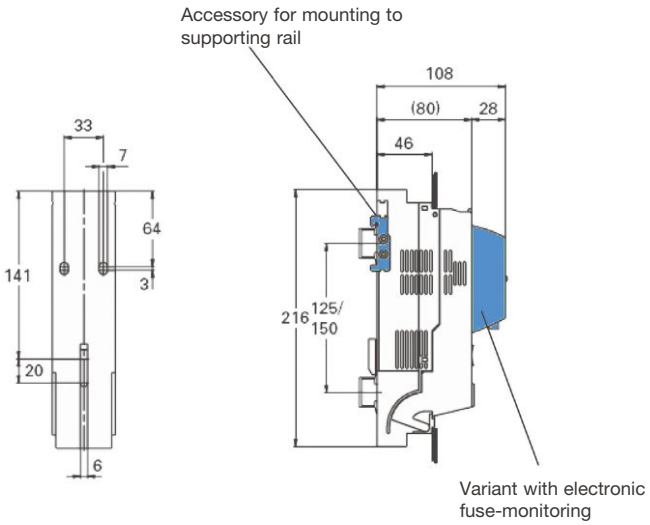
NH Fuse-Switches, horizontal design

Size 000

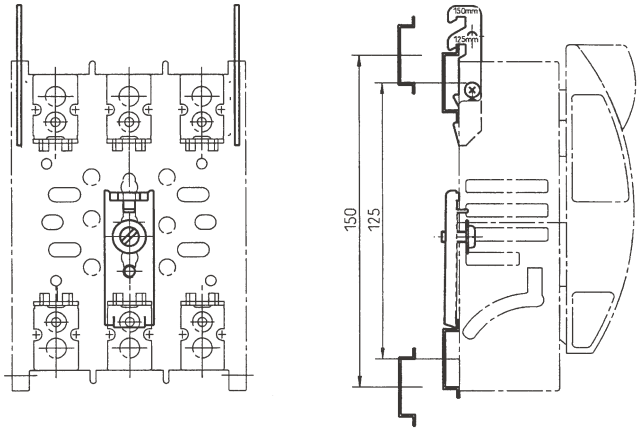


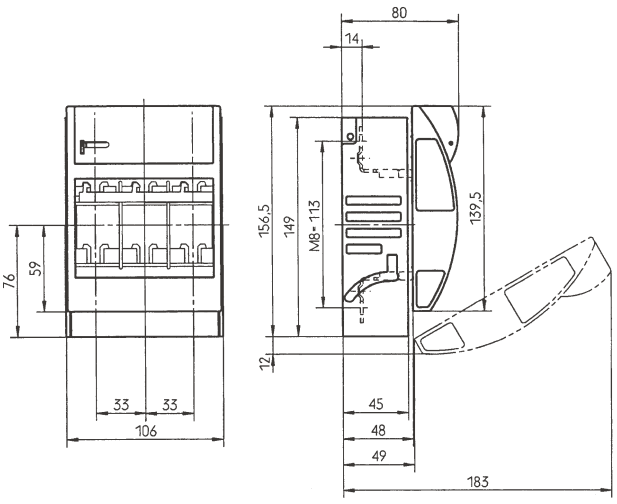
Size 000, narrow version



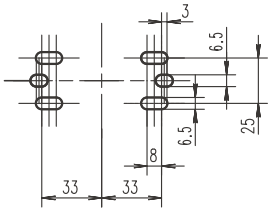


Size 00



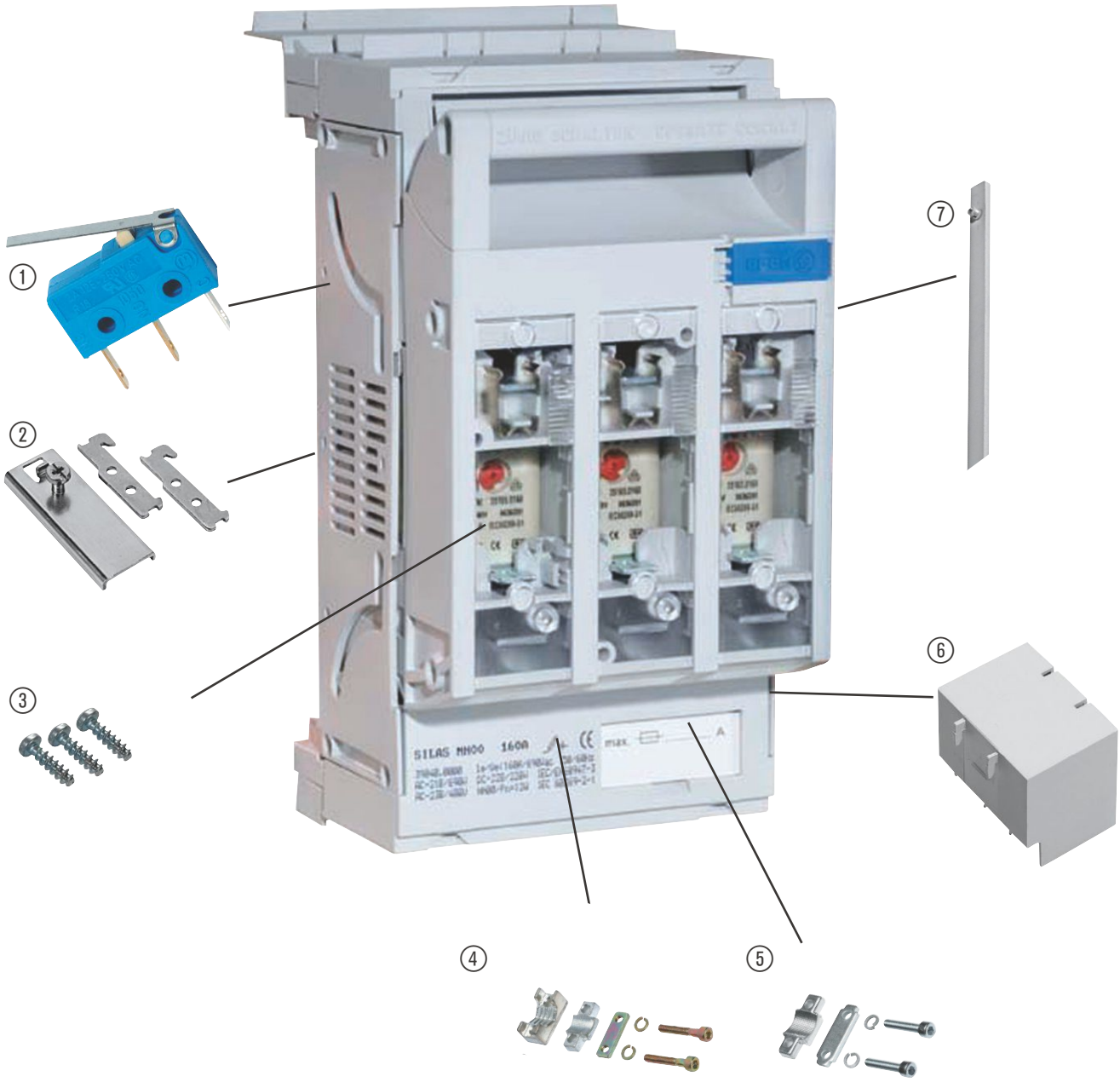


Drilling pattern:



NH Fuse-Switches, horizontal design, SILAS series

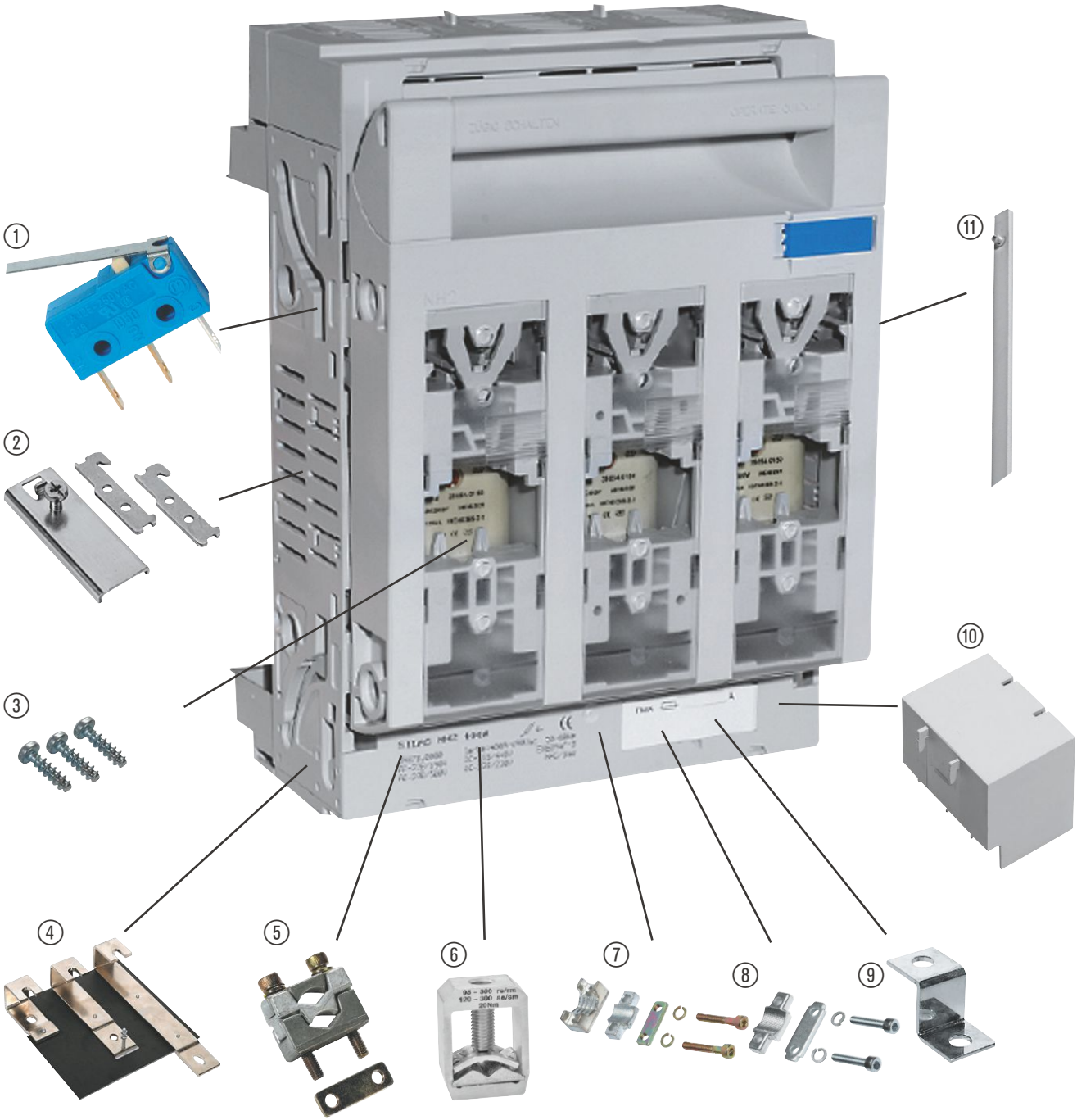
NH Fuse-Switches, horizontal design, size 000-00
Accessories



①	36959-0010	Microswitch, size 00 and size 000
②	36937-0010	Quick-mount kit, size 00
③	36969-0010	Anti-theft screws
④	36975-0010	Pressure plate with contact prism 6 – 70 mm², size 00
⑤	36934-0010	Pressure plate 6 – 70 mm², size 00
⑥	36954-0010	Terminal cover, size 000
⑦	36962-0010	Support profile, size 000

NH Fuse-Switches, horizontal design, SILAS series

NH Fuse-Switches, horizontal design, size 1 – 3
Accessories



①	36959-0060	Microswitch, size 1-3
②	36937-0010	Quick-mount kit, size 1
③	36969-0010	Anti-theft screws
④	36985-0010	Busbar adapter, size 1
⑤	36982-0010	Pressure plate with contact prism, 2 x 35 – 70 mm², size 1
⑥	36992-0010	Box clamp 35 – 150 mm², size 1
⑦	36942-0010	Pressure plate with contact prism 70 – 150 mm², size 1
⑧	36936-0010	Pressure plate 70 – 150 mm², size 1
⑨	36988-0010	Terminal extension, size 1
⑩	36960-0010	Terminal cover, size 1
⑪	36940-0010	Support profile, size 1 – 3

NH Fuse-Switches, horizontal design, SILAS series

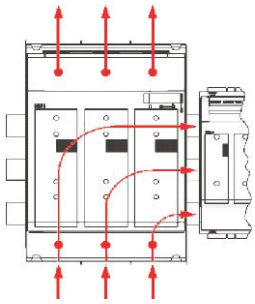
SILAS horizontal-design fuse-switches provide additional terminals.
This allows the feeding of one 60 mm busbar system and additional fuse outlets.

- Cost-efficient
- Space-saving
- Direct mounting without drilling
- Size 1 and 2 for 60 mm busbar systems

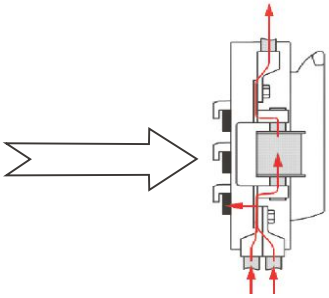
Description	Size	Amps I_n	PU	Weight in kg	Designation	Order no.
Screw terminal M10	1	250	1	2,3	SILAS SE NH1 60 EB70 U2U2	**39086-0000**
Screw terminal M10	2	400	1	3,6	SILAS SE NH2 60 EB70 U2U2	**39087-0000**

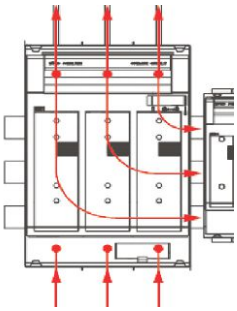
Busbar feed

Additional fuse outlet

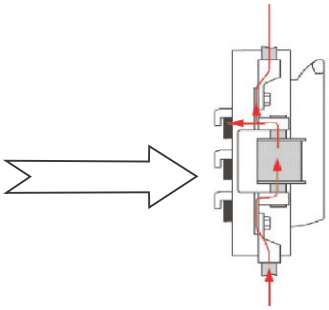


Feed without NH fuse-links
250 A SILAS 1
400 A SILAS 2
Feed
max. 500 A SILAS 1
max. 800 A SILAS 2





Feed via NH fuse-links
125 A SILAS 1
200 A SILAS 2
Feed
max. 250 A SILAS 1
max. 400 A SILAS 2



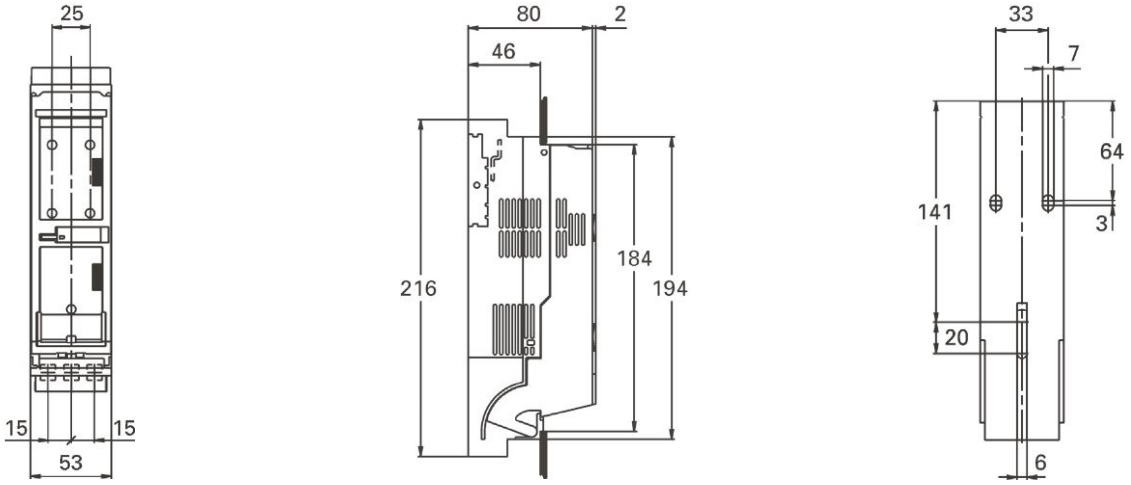
NH Fuse-Switches, horizontal design

for baseplate mounting

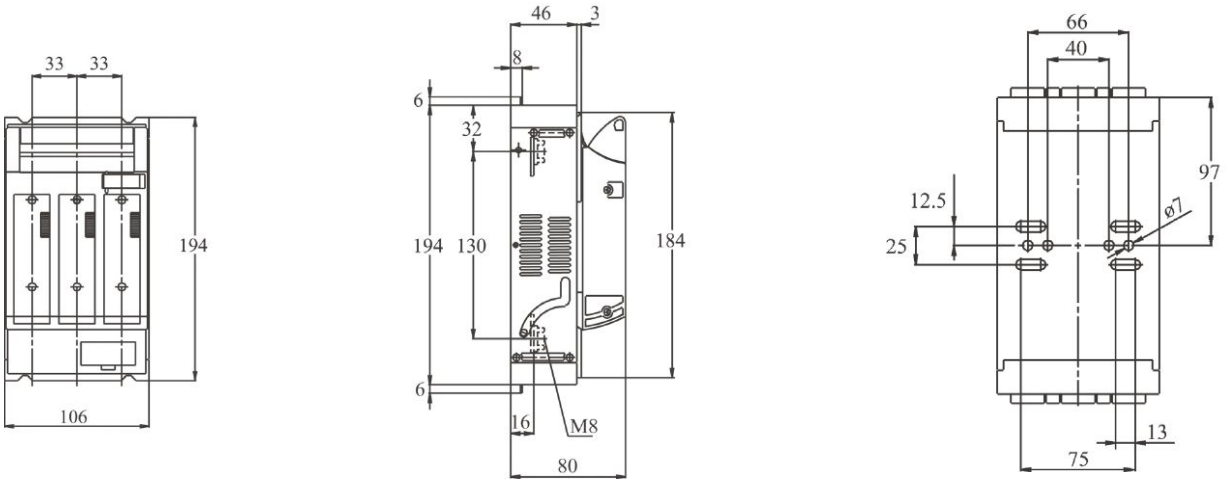
Description	Size	Amps I_n	PU	Weight in kg	Designation	Order no.
With box clamp rm/re 50 mm²	000	100 A	1	0,4	SILAS NH000 R4R4	**34040-0007**
Multiple-use terminal (bolt M8)	00	160 A	1	0,6	SILAS NH00 U5U5	**34077-0000**
With box clamp rm/re 95 mm²	00	160 A	1	0,6	SILAS NH00 R5R5	**34076-0000**
Multiple-use terminal (bolt M10)	1	250 A	1	2,0	SILAS NH1 U2U2	**34170-0000**
With box clamp rm/re 150 mm²	1	250 A	1	2,2	SILAS NH1 RR	**34175-0000**
Multiple-use terminal (bolt M10)	2	400 A	1	3,0	SILAS NH2 U2U2	**34270-0000**
With box clamp rm/re 300 mm²	2	400 A	1	3,6	SILAS NH2 RR	**34275-0000**
Multiple-use terminal (bolt M10)	3	630 A	1	3,5	SILAS NH3 U2U2	**34370-0000**
With box clamp rm/re 300 mm²	3	630 A	1	4,0	SILAS NH3 RR	**34375-0000**

NH Fuse-Switches, horizontal design

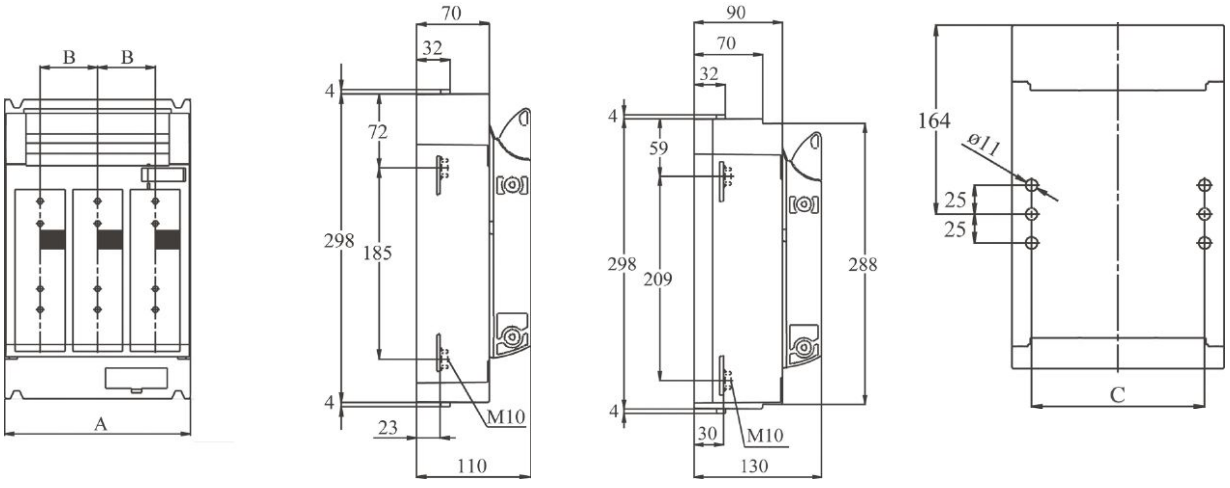
Dimensions drawings
Size 000



Dimensions drawings
Size 00



Dimensions drawings
Size 1 – 3



Size	A	B	C
1	184	57	150
2	210	65	166
3	250	80	195

Size 1

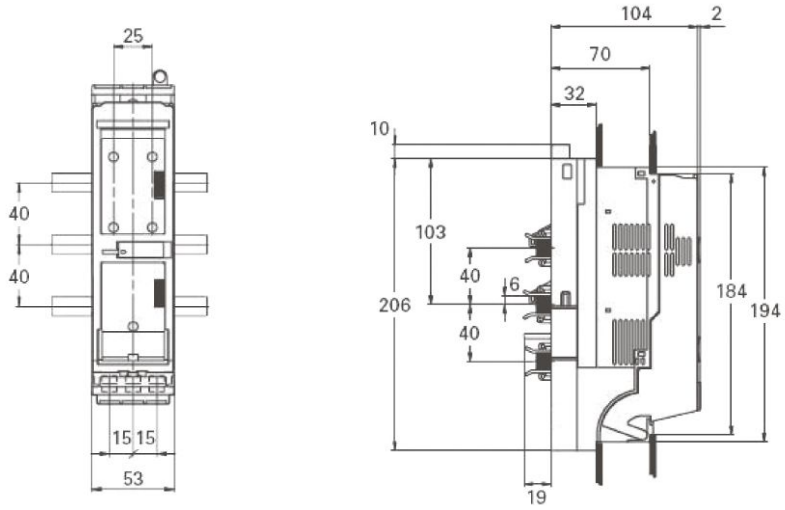
Size 2/3

NH Fuse-Switches, horizontal design

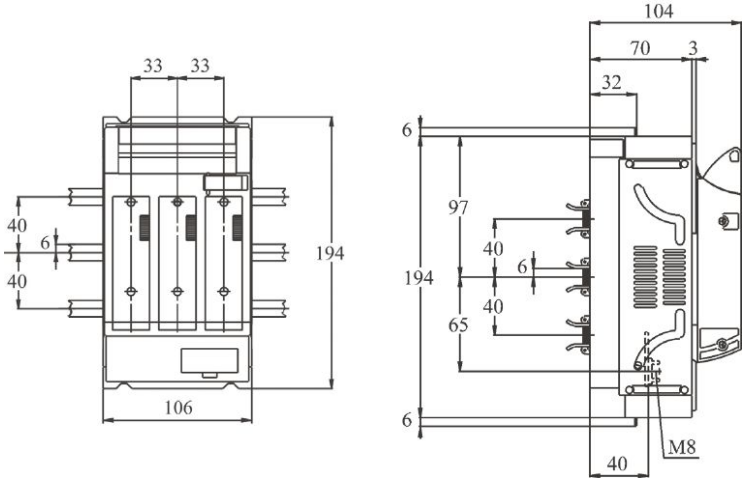
For 40/12 mm busbar system according to DIN 43870

Description	Size	Amps I_n	PU	Weight in kg	Designation	Order no.
With box clamp rm/re 50 mm² Bottom terminals	000	100 A	1	0,5	SILAS SB NH000 40 AU R4	**39000-0007**
With box clamp rm/re 50 mm² Top terminals	000	100 A	1	0,5	SILAS SB NH000 40 AO R4	**39001-0007**
Multiple-use terminal (bolt M8)	00	160 A	1	0,7	SILAS SB NH00 40 EB70 U5	**39021-0000**
With box clamp rm/re 95 mm²	00	160 A	1	0,7	SILAS SB NH00 40 EB70 R5	**39020-0000**
Multiple-use terminal (bolt M10)	1	250 A	1	2,1	SILAS SB NH1 40 EB70 U2	**39060-0000**
With box clamp rm/re 150 mm²	1	250 A	1	2,3	SILAS SB NH1 40 EB70 R	**39061-0000**
Multiple-use terminal (bolt M10)	2	400 A	1	3,3	SILAS SB NH2 40 EB70 AO U2	**39078-0000**
With box clamp rm/re 300 mm²	2	400 A	1	3,6	SILAS SB NH2 40 EB70 AO R	**39079-0000**

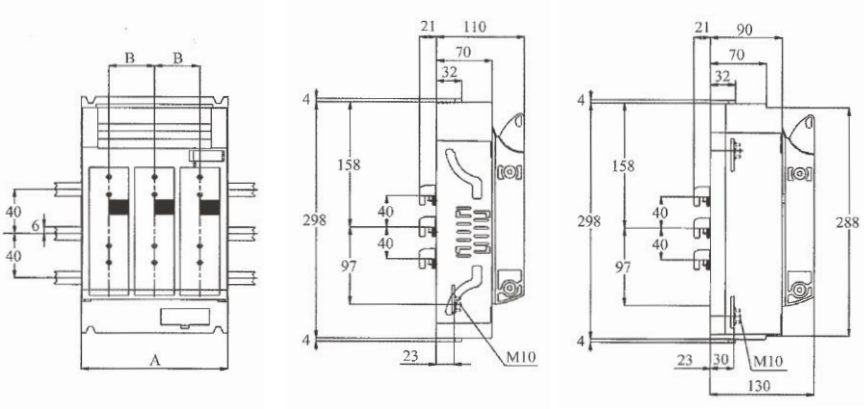
Busbar mounting
Size 000



Busbar mounting
Size 00



Busbar mounting
Size 1-3



Size	A	B
1	184	57
2	210	65
3	250	80

Size 1

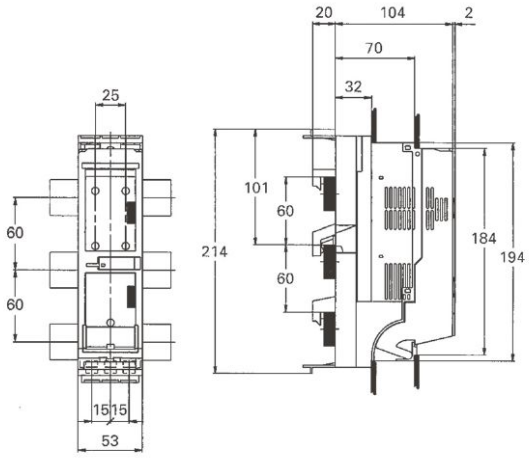
Size 2/3

NH Fuse-Switches, horizontal design

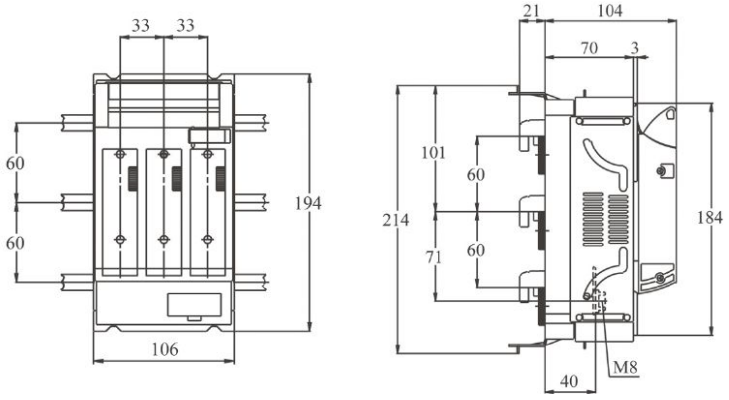
For 60 mm busbar system

Description	Size	Amps I_n	PU	Weight in kg	Designation	Order no.
With box clamp rm/re 50 mm² Bottom terminals	000	100 A	1	0,5	SILAS SB NH000 60 AU R4	**39010-0007**
With box clamp rm/re 50 mm² Top terminals	000	100 A	1	0,5	SILAS SB NH000 60 AO R4	**39011-0007**
Multiple-use terminal (bolt M8)	00	160 A	1	0,8	SILAS SB NH00 60 EB70 U5	**39052-0000**
With box clamp rm/re 95 mm² 32 mm installation depth	00	160 A	1	0,8	SILAS SB NH00 60 EB32 R5	**39040-0000**
With box clamp rm/re 95 mm² 70 mm installation depth	00	160 A	1	0,8	SILAS SB NH00 60 EB70 R5	**39050-0000**
Multiple-use terminal (bolt M10)	1	250 A	1	2,2	SILAS SB NH1 60 EB70 U2	**39064-0000**
With box clamp rm/re 150 mm²	1	250 A	1	2,2	SILAS SB NH1 60 EB70 R	**39068-0000**
Multiple-use terminal (bolt M10)	2	400 A	1	3,2	SILAS SB NH2 60 EB70 U2	**39070-0000**
With box clamp rm/re 300 mm²	2	400 A	1	3,5	SILAS SB NH2 60 EB70 R	**39074-0000**
Multiple-use terminal (bolt M10)	3	630 A	1	3,9	SILAS SB NH3 60 EB70 U2	**39080-0000**
With box clamp rm/re 300 mm²	3	630 A	1	4,1	SILAS SB NH3 60 EB70 R	**39084-0000**

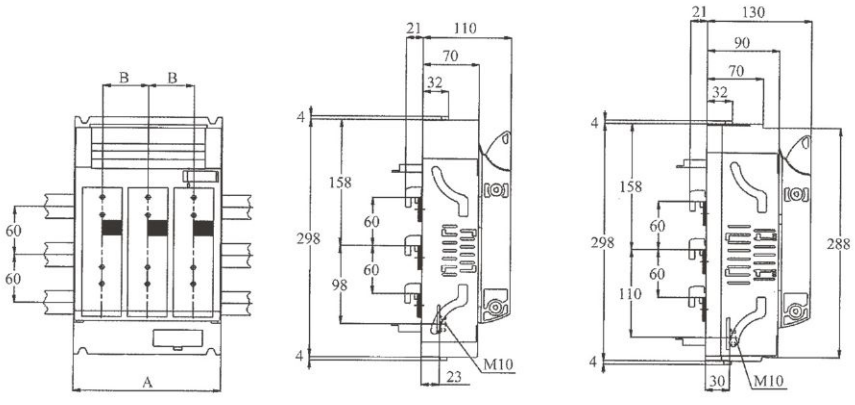
Busbar mounting
Size 000



Busbar mounting
Size 00



Busbar mounting
Size 1 – 3



Size	A	B
1	184	57
2	210	65
3	250	80

Size 1

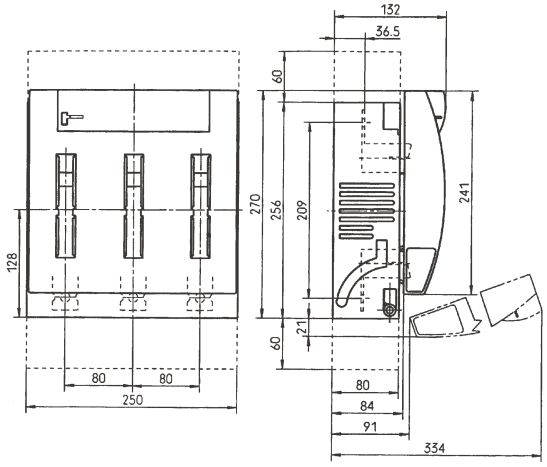
Size 2/3

NH Fuse-Switches, horizontal design

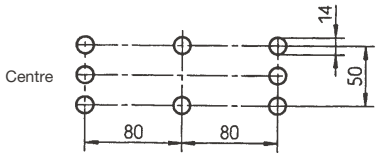
Baseplate mounting

Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
Screw terminal M12	3	630kVA	NH-Latr 3IN 630kVA G6G6	1	3,522	**34360-1000**

Dimensions drawings, size 3, 630 A



Multiple-use terminal U2



NH Fuse-Switches, horizontal design

Baseplate mounting:

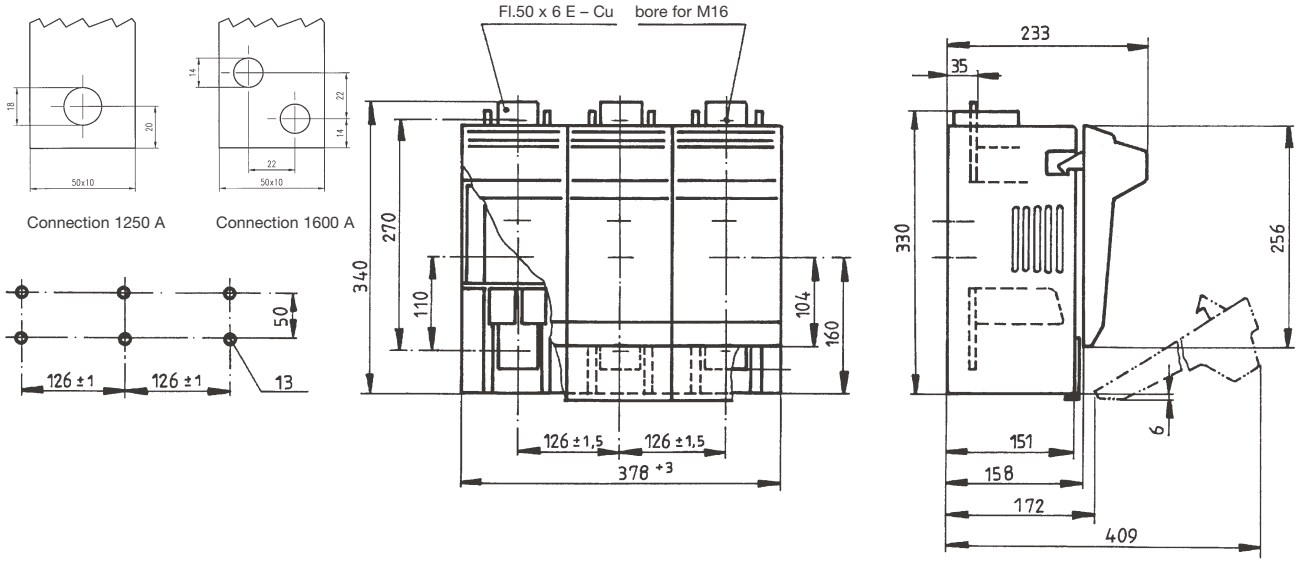
Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
Screw terminal M16, top and bottom						
1-pole switching	4a	1250	NH-Latr 4A EP L8L8	1	12,65	**34400-0000**
3-pole switching	4a	1250	NH-Latr 4A 3P L8L8	1	12,80	**34400-1010**
Screw terminal 2 x M12, top and bottom						
1-pole switching	4a	1600	NH-Latr 4A EP 1600A L6L6	1	14,00	**34400-1040**
3-pole switching	4a	1600	NH-Latr 4A 3P 1600A L6L6	1	14,15	**34400-1050**

Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
Multiple-use terminal (bolt M10)	3	500	NH-Latr 3 IN 1000V 500A U2U2	1	5,30	**34762-1020**

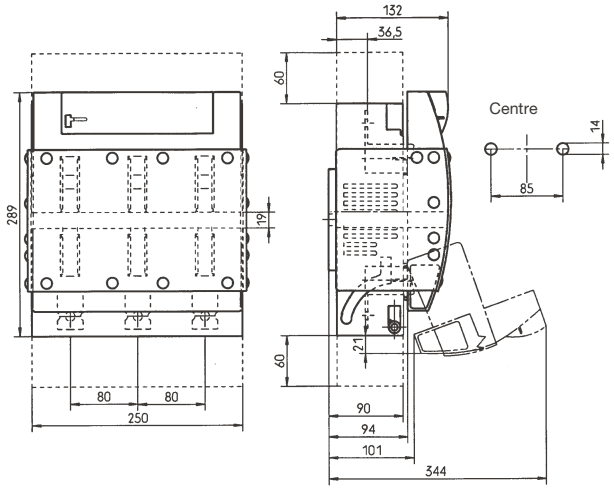
Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
Multiple-use terminal (bolt M10)	3L	500	NH-Latr 3L IN 1500V 500A U2U2	1	5,30	**34762-1010**

NH Fuse-Switches, horizontal design

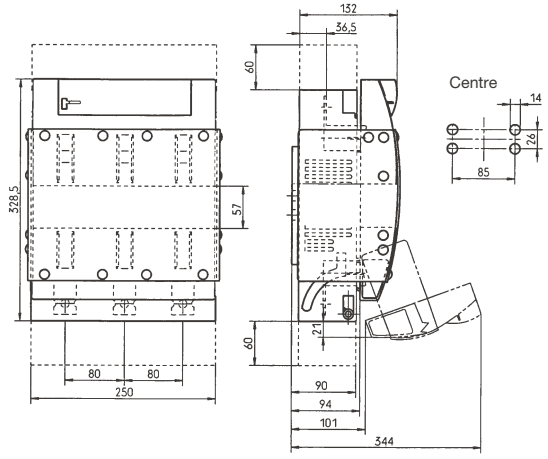
Dimensions drawings, size 4a, 1250/1600 A, dimensions drawings 1250 A
Connection with 60 x 10 mm bars optional



Dimensions drawings, size 3, 500 A/1000 V



Size 3L, 500 A/1500 V



NH Fuse-Switches, vertical design

Busbar system, 100 mm center-to-center spacing, hook-contacting

Top terminals

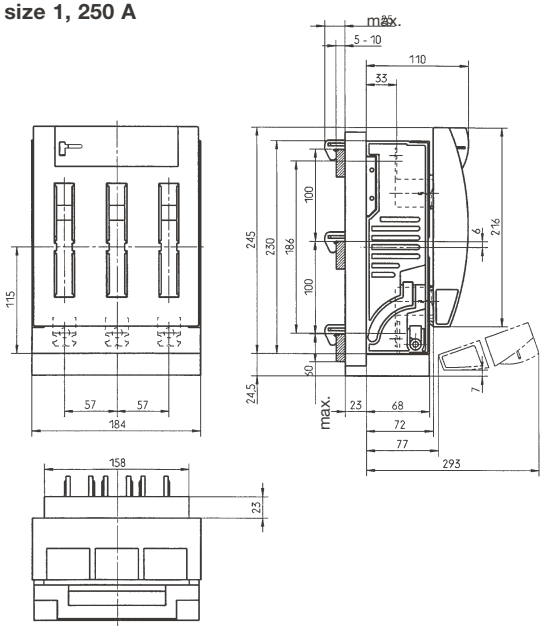
Description	Size	Amps I_{th}	Designation	Terminal pos.	PU	Weight in kg	Order no.
Multiple-use terminal (bolt M10)	1	250	NH-Latr SB 1IN 100 U2K93	Top	1	2,50	**39212-5000**
Multiple-use terminal (bolt M10)	2	400	NH-Latr SB 2IN 100 U2K93	Top	1	3,25	**39222-5000**
Multiple-use terminal (bolt M10)	3	630	NH-Latr SB 3IN 100 U2K93	Top	1	5,30	**39232-5000**

Bottom terminals

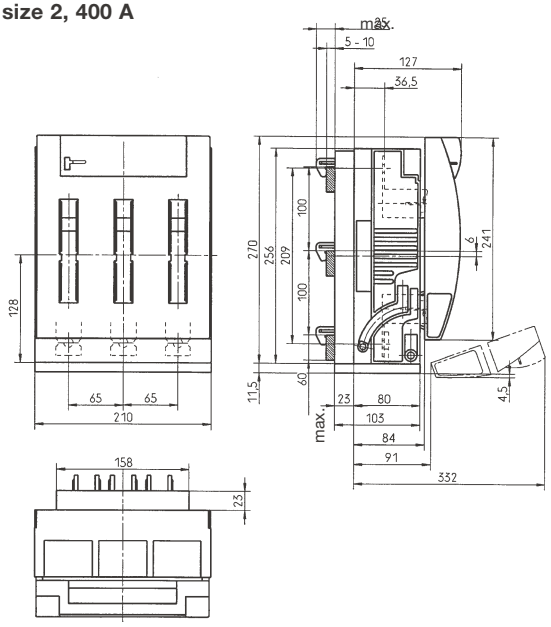
Description	Size	Amps I_{th}	Designation	Terminal pos.	PU	Weight in kg	Order no.
Multiple-use terminal (bolt M10)	1	250	NH-Latr SB 1IN 100 K93U2	Bottom	1	2,50	**39212-7000**
Multiple-use terminal (bolt M10)	2	400	NH-Latr SB 2IN 100 K93U2	Bottom	1	3,25	**39222-7000**
Multiple-use terminal (bolt M10)	3	630	NH-Latr SB 3IN 100 K93U2	Bottom	1	5,30	**39232-7000**

NH Fuse-Switches, vertical design

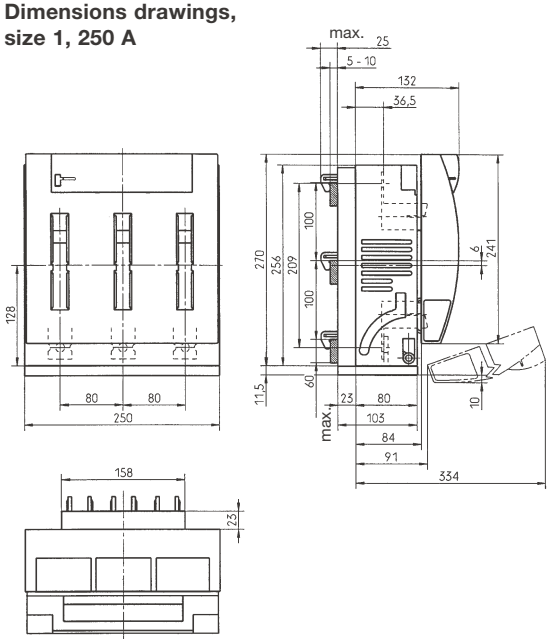
Dimensions drawings, size 1, 250 A



Dimensions drawings, size 2, 400 A



Dimensions drawings, size 1, 250 A



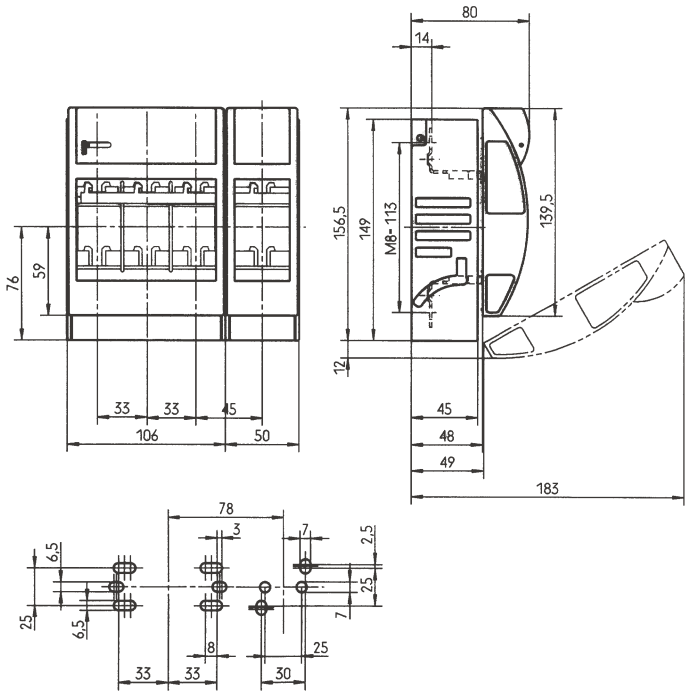
NH Fuse-Switches, horizontal design

NH Fuse-Switch, horizontal design, 4-pole, for baseplate mounting

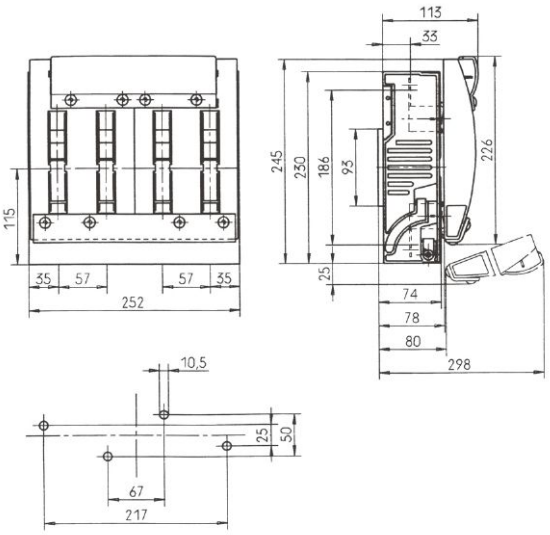
Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
Screw terminal M8	00	160	NH-Latr 00IN 4P U5U5	1	0,75	**34060-4000**
Screw terminal M10	1	250	NH-Latr 1IN 4P U2U2	1	3,70	**34162-4000**
Screw terminal M10	2	400	NH-Latr 2IN 4P U2U2	1	7,70	**34262-4000**
Screw terminal M10	3	630	NH-Latr 3IN 4P U2U2	1	8,60	**34362-4000**
Screw terminal M16 **1-pole switching**	4a	1250	NH-Latr 4A 4P EP L8L8	1	14,00	**34440-0000**

NH Fuse-Switches, horizontal design

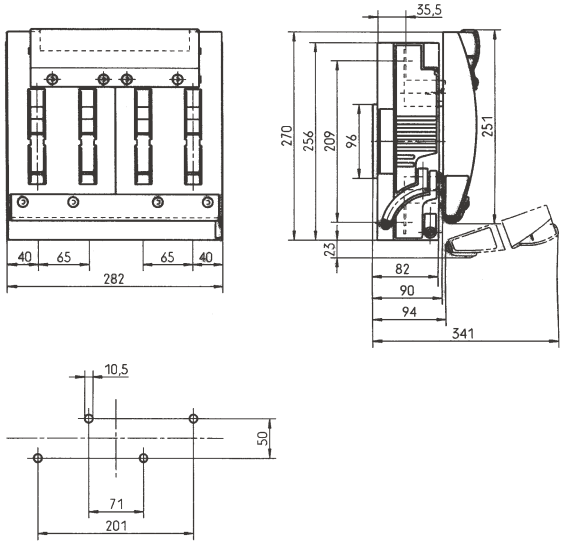
Dimensions drawings, size 00, 160 A



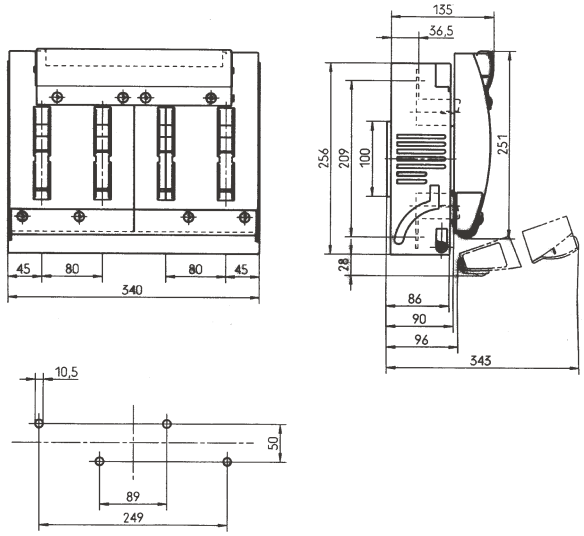
Dimensions drawings, size 1, 250 A



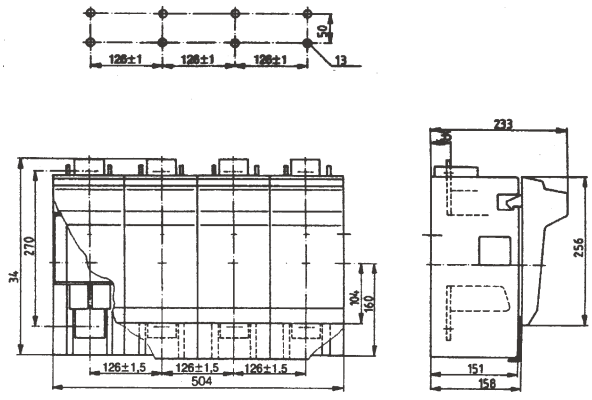
Dimensions drawings, size 2, 400 A



Dimensions drawings, size 3, 630 A



Dimensions drawings, size 4a, 1250 A



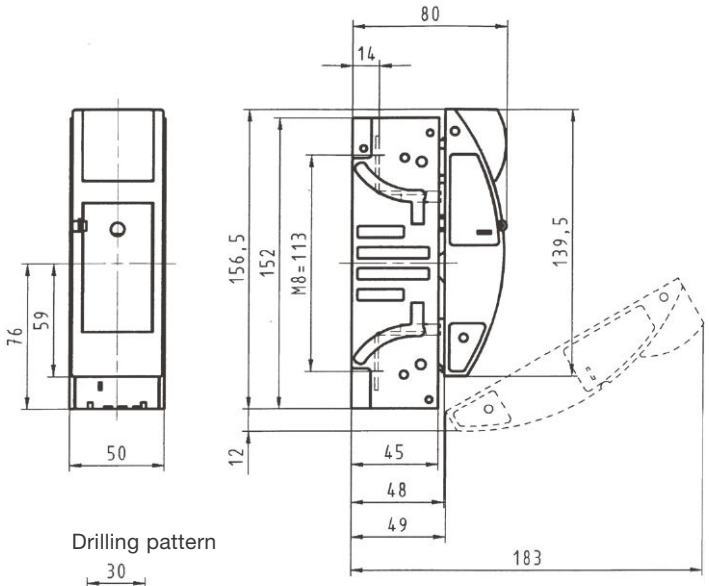
NH Fuse-Switches, horizontal design

NH Fuse-Switch, horizontal design, 1-pole, for baseplate or supporting-rail mounting

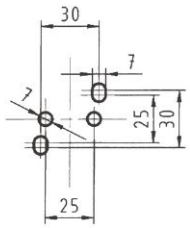
Description	Size	Amps I_{th}	Designation	PU	Weight in kg	Order no.
With multiple-use terminal (bolt M8)	00	160	NH-LATR 00IN 1P U5U5	2	0,350	**33136-0010**
With multiple-use terminal (bolt M8) for busbar mounting	00	160	NH-LATR 00IN 1P SB U5	2	0,350	**33137-0010**

NH Fuse-Switches, horizontal design

Dimensions drawings 33136-0010

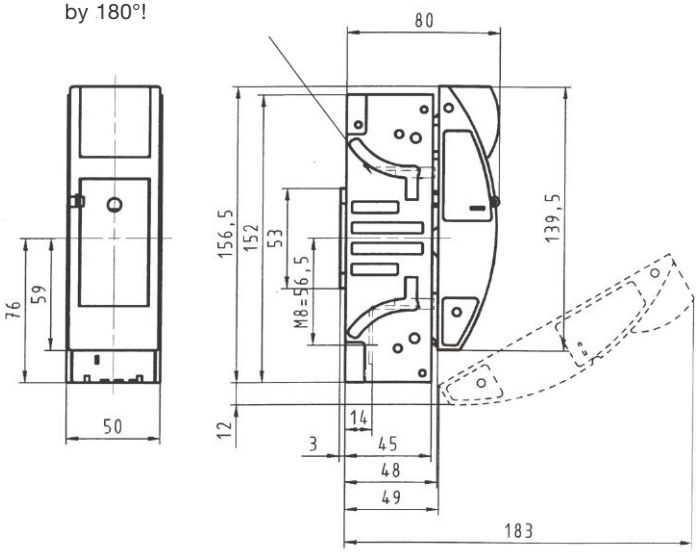


Drilling pattern

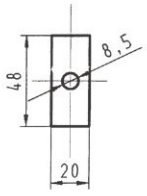


Dimensions drawings 33137-0010

Top/bottom feed selectable by turning the switch frame by 180°!



Connection to busbar



DC Fuse disconnector 10 x 38

Protection of DC photovoltaic (PV) systems against overcurrent and short-circuits

Size	10,3 x 38 mm
Rated voltage	1000 V DC
Rated current	1 to 32 A
Mechanical service life	5000 cycles
IP class	IP2X terminals
Utilization category	DC 20B
Minimum clearance	gPV
Power loss per terminal at 32 A (Pvt)	1,1 W
Compatible cylindrical caps (fuse-links)	Silver-coated copper
Compatible fuse-links	Recommendation: 55030-xxxx gPV – PV fuse-links
Note	DO NOT OPERATE UNDER LOAD

Rated voltage	Rated current	Terminal	Weight	PU	Order no.
1000 V DC	1 to 32 A	1 P	62 gr.	12	**76300-0100**
		1 P	62 gr	12	**76301-0100**
		2 P	122 gr.	6	**76300-0200**
		2 P	122 gr.	6	**76301-0200**

Temperature	Operating temperature: - 25 °C to + 50 °C Storage temperature - 25 °C to + 80 °C
Temperature-induced power reduction	Fuse-disconnectors are designed for use at rated current at 20 °C. They are inspected with a slightly vertically inclined fuse and in a controlled environment. When using a fuse-disconnector under any other conditions, the standard data must be adjusted by respective correction factors.

Temperature correction factors
Correction factors for adjustment to ambient temperature:

Ambient temperature	20 °C	30 °C	40 °C	50 °C
Rated current	I_n	0,95 x I_n	0,90 x I_n	0,80 x I_n

Group correction factor

Rated current reduced by factor K
If fuse-disconnectors are installed in groups, attention must be paid to their heating potential when operated at rated load. Depending on the fuse-link used, each fuse-disconnector dissipates power, possibly making the air temperature around the switch exceed the ambient temperature of the switchgear cabinet.

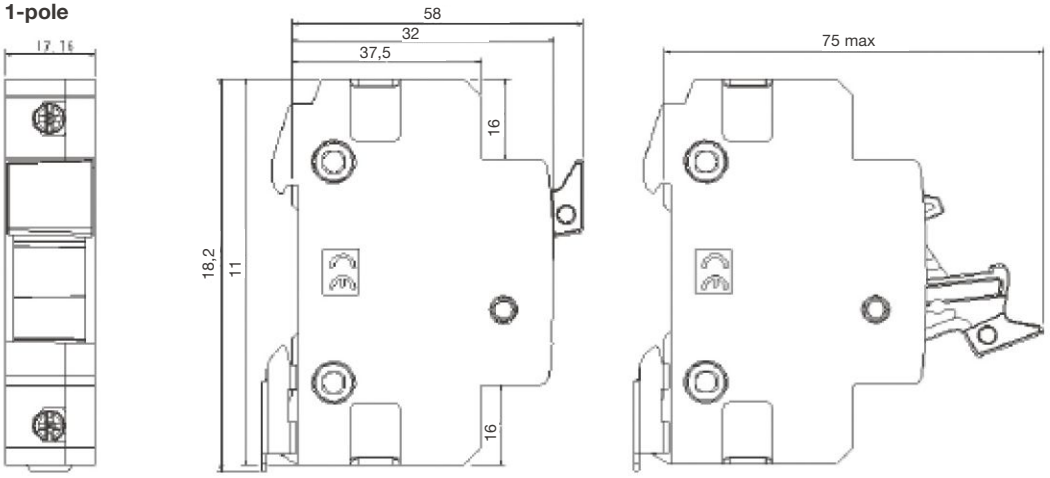
Number of units n	K (group correction factor)
1 ≤ n < 4	1
4 ≤ n < 7	0,8
7 ≤ n < 10	0,7
10 ≤ n	0,6

Installation:

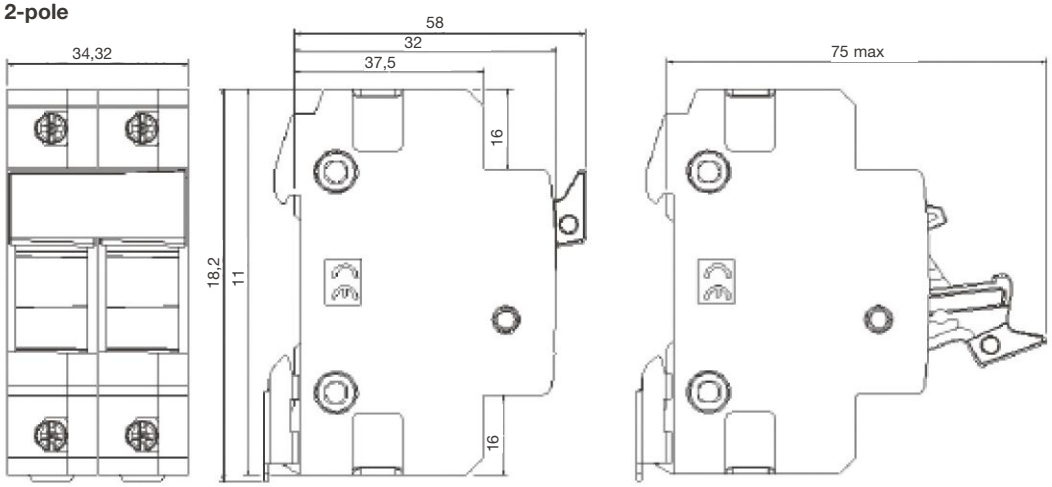
Installation	DIN busbar 50.022/-35
Rated voltage	Power supply via top and bottom terminals
Type of connection	Rigid conductors 1 to 16 mm² Flexible conductors: 0.75 to 10 mm²
Cables per terminal	max. 2
Terminal type	Input side = screw terminal (PZ2) Output side = screw terminal (PZ2)
Tunnel terminal	Pozidriv screw head size 2 and 5.5 mm slotted-head screw
Tightening torque:	2 Nm
Cable type	Copper for rigid and flexible conductors (with or without end sleeves)
Installation height	max. 2.000 m
Installation position	Vertical, horizontal and flat installation possible without power dissipation
DIN gripping lug	DIN bottom gripping lug, metal or plastic

DC Fuse disconnector 10 x 38

Dimensions DC Fuse disconnector, 1-pole



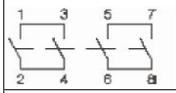
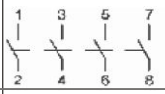
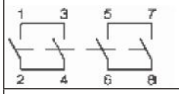
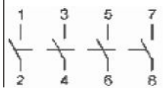
Dimensions DC Fuse disconnector, 2-pole



DC Disconnector

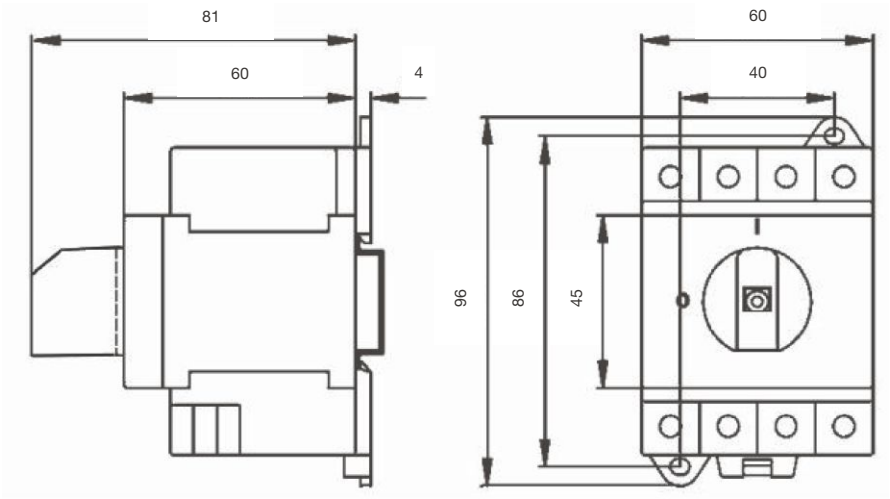
DC Disconnector 1000 V

Electrical characteristics

	Conventional free-air thermic current		**I_{th}**	32 A	
	Rated insulation voltage		**U_i**	1000 V	
	Rated impulse voltage		**U_{imp}**	8 kV	
	Pollution degree		3		
Rated current I_e		**500 V DC**	**600 V DC**	**800 V DC**	**1000 V DC**
DC21B L/R = 1 ms	2 poles in series 	32 A	32 A	23 A	13 A
	2 poles in series + 2 parallel poles 	58 A	58 A	23 A	13 A
	2 poles in series 	32 A	32 A	32 A	32 A
DC22B L/R = 2.5 ms	2 poles in series 	9 A	6,5 A	3 A	2 A
	2 poles in series + 2 parallel poles 	-	-	-	-
	2 poles in series 	32 A	27 A	12,5 A	10 A

Mechanical service life	Number of cycles	10.000
Terminals	Busbar	4 – 16 mm²
	Cable (solid)	4 – 10 mm²
	Cable (stranded)	4 – 10 mm²
	Screw terminal size	M4 Pz2
	Tightening torque	1.2 – 1.8 Nm
Ambient temperature	when open	-40 to +65 °C
	when closed	-40 to +40 °C
	in storage	-50 to +90 °C
Weight		216 g

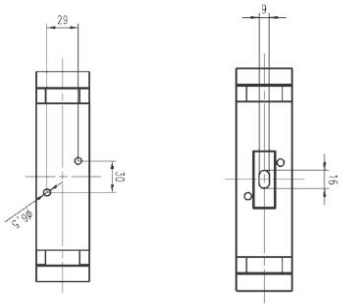
Dimensions of DC Disconnector



NH Fuse-Switches, horizontal design, 80 V DC

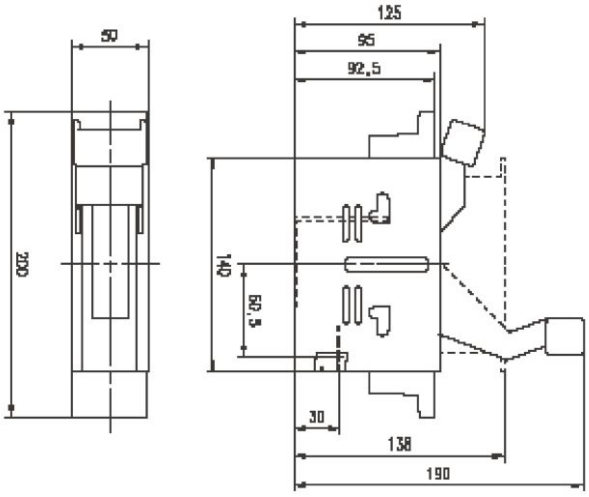
TPS Fuse-Switch

TPS 00/250



Baseplate mounting

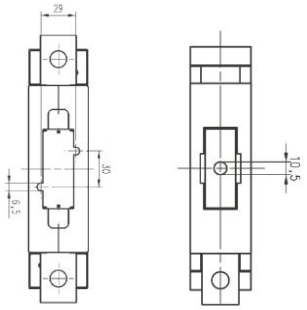
Busbar mounting



NH Fuse-Switches, horizontal design, 80 V DC

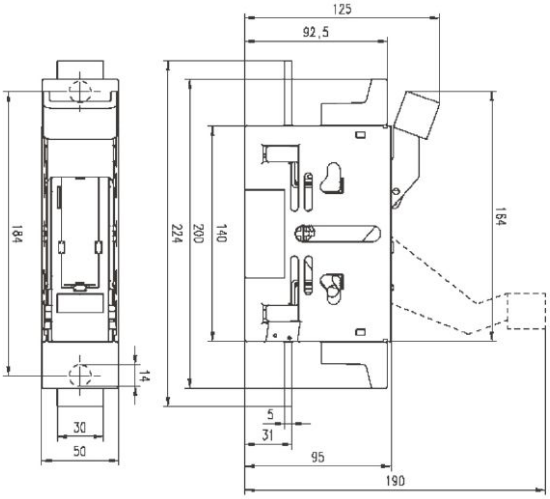
TPS Fuse-Switch

TPS 00/600

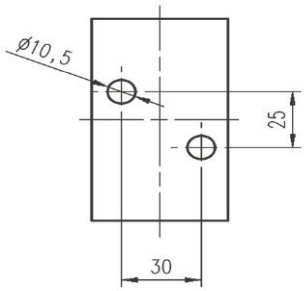


Baseplate mounting

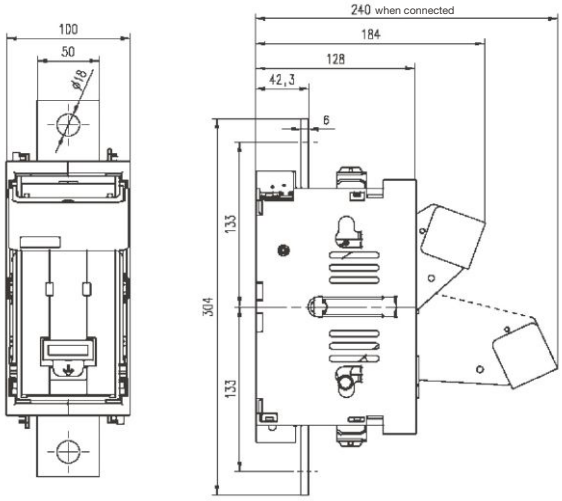
Busbar mounting



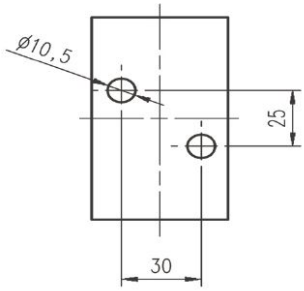
TPS 2/1200



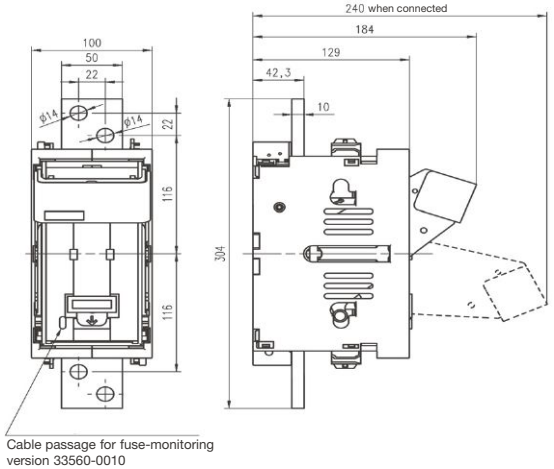
Baseplate mounting



TPS 2/1600



Baseplate mounting



Cable passage for fuse-monitoring version 33560-0010

NH Fuse-Switches, horizontal design, 550 V DC

Technical data for 1-pole NH Fuse-Switches acc. to VDE 0660 T107 / IEC/EN 60947-3

Suitable for NH fuse-links acc. to DIN 43620/11	Size	00	1	2	3	4a
Rated operating current I_e	A	160	250	400	630	1250 1600
Conventional free-air thermic current I_{th}	A	160	250	400	630	1250 1600
Rated operating voltage U_e	V	690	690	690	690	690
Rated isolation voltage U_i	V	800	800	800	800	800
Rated impulse withstand-current U_{imp}	kV	8	8	8	8	8
Conditional rated short-circuit current (when protected by NH fuse-links)	kA	50	50	50	50	50
Weight without fuse-links	kg	0,38	2,4	2,4	2,5	4,2
Utilization category acc. to VDE 0660 T107	U_e=400 V U_e=690 V U_e=440 V	AC-22 B AC-21 B DC-21 B	AC-22 B AC-21 B DC-21 B	AC-22 B AC-21 B DC-21 B	AC-22 B AC-21 B DC-21 B	AC-22 B AC-21 B DC-21 B
Permissible ambient temperature	°C	-40 to +55 °C				

Tightening torques for terminals and busbar contacting (Nm)

Type of connection	00	1	2	3	4a
Flat terminal	14 Nm	32 Nm	32 Nm	32 Nm	56 Nm
Multiple-use terminal U3 with pressure plate	4				
Multiple-use terminal U4 with pressure plate and contact prism	4				

NH Fuse-Switches, horizontal design, 550 V DC

NH Fuse-Switches, horizontal design, 1-pole switching, for baseplate mounting

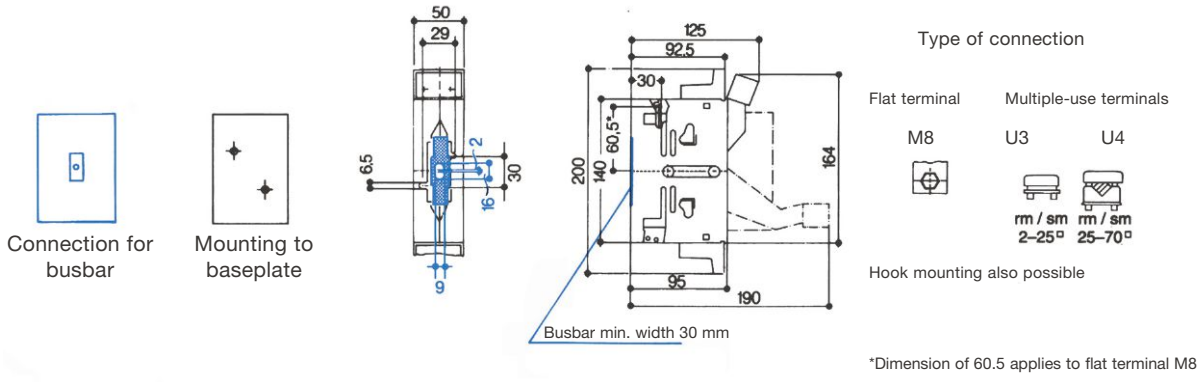
Description	Size	Amps I_n	Designation	PU	Weight in kg	Order no.
Flat terminal M8	00	160	NH-Latr. 00 1P SC G4G4	2	0,36	**33107-0010**
Multiple-use terminal U3 with pressure plate for 2.5 – 25 mm²	00	125	NH-Latr. 00 1P SC U3U3	2	0,35	**33108-0010**
Multiple-use terminal U4 with pressure plate and contact prism for 25 – 70 mm²	00	160	NH-Latr. 00 1P SC U4U4	2	0,38	**33109-0010**
Flat terminal M10	1	250	NH-Latr. 1 1P SC L5L5	2	2,03	**33095-0010**
Flat terminal M10	2	400	NH-Latr. 2 1P SC L5L5	2	2,03	**33096-0010**
Flat terminal M12	3	630	NH-Latr. 3 1P SC L6L6	2	2,22	**33097-0010**
Flat terminal M16	4a	1250	NH-Latr./Unt. 4a 1P L8L8	1	4,14	**33047-0010**
Flat terminal M12	4a	1600	NH-Latr./Unt. 4a 1P 1600 A L6L6	1	4,45	**33047-0070**

NH Fuse-Switches, horizontal design, 1-pole switching, for busbar mounting

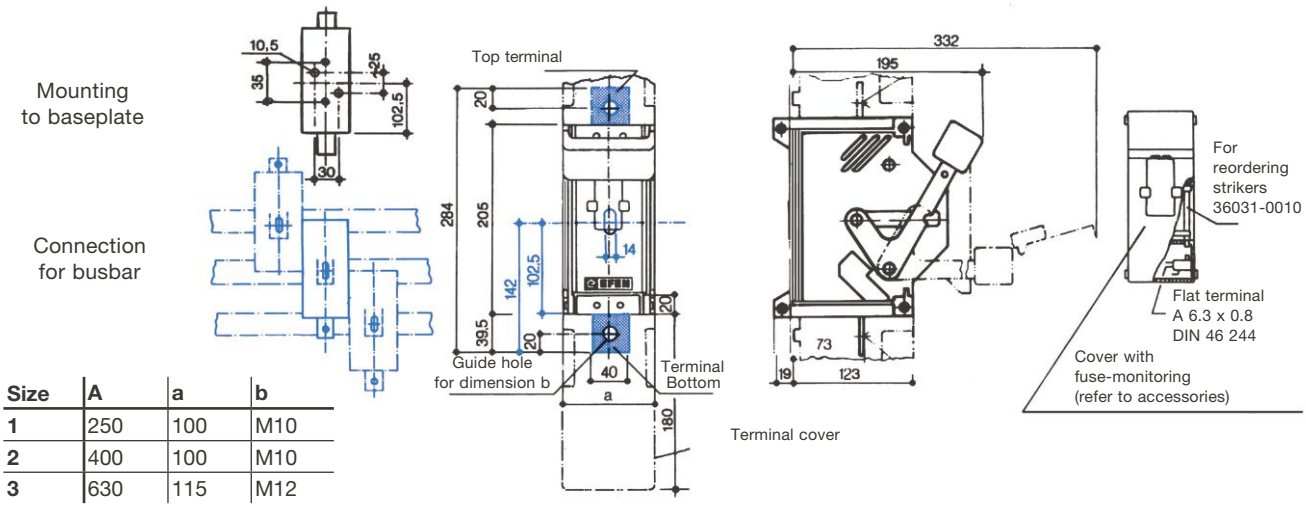
Terminal pos.	Type/Design	Size	Amps I_n	Designation	PU	Weight in kg	Order no.
Top/ bottom, can be selected during installation	**Flat terminal M8**	00	160	NH-Latr. 00 1P SB SC G4	2	0,38	**33111-0010**
	Multiple-use terminal U3 with pressure plate for 2.5 – 25 mm²	00	125	NH-Latr. 00 1P SB SC U3	2	0,37	**33112-0010**
	Multiple-use terminal U4 with pressure plate and contact prism for 25 – 70 mm²	00	160	NH-Latr. 00 1P SB SC U4	2	0,38	**33113-0010**
Top	**Flat terminal M10**	1	250	NH-Latr. 1 1PO SB SC L5	2	1,68	**33098-0020**
	Flat terminal M10	2	400	NH-Latr. 2 1PO SB SC L5	2	1,69	**33099-0020**
	Flat terminal M12	3	630	NH-Latr. 3 1PO SB SC L6	2	1,79	**33100-0020**
	Flat terminal M16	4a	1250	NH-Latr./Unt. 4a 1POSB L8	1	4,10	**33048-0020**
	Flat terminal M12	4a	1600	NH-LATR/UNT 4A 1PU SB 1600 A L6	1	4,35	**33048-0030**
Bottom	**Flat terminal M10**	1	250	NH-Latr. 1 1PU SB SC L5	2	1,68	**33098-0010**
	Flat terminal M10	2	400	NH-Latr. 2 1PU SB SC L5	2	1,70	**33099-0010**
	Flat terminal M12	3	630	NH-Latr. 3 1PU SB SC L6	2	1,80	**33100-0010**
	Flat terminal M16	4a	1250	NH-Latr./Unt. 4a 1PU SB L8	1	4,09	**33048-0010**
	Flat terminal M12	4a	1600	NH-LATR/UNT 4A 1PO SB 1600 A L6	1	4,35	**33048-0040**

NH Fuse-Switches, horizontal design, 550 V DC

NH Fuse-Switch, horizontal design, size 00: 125/160 A

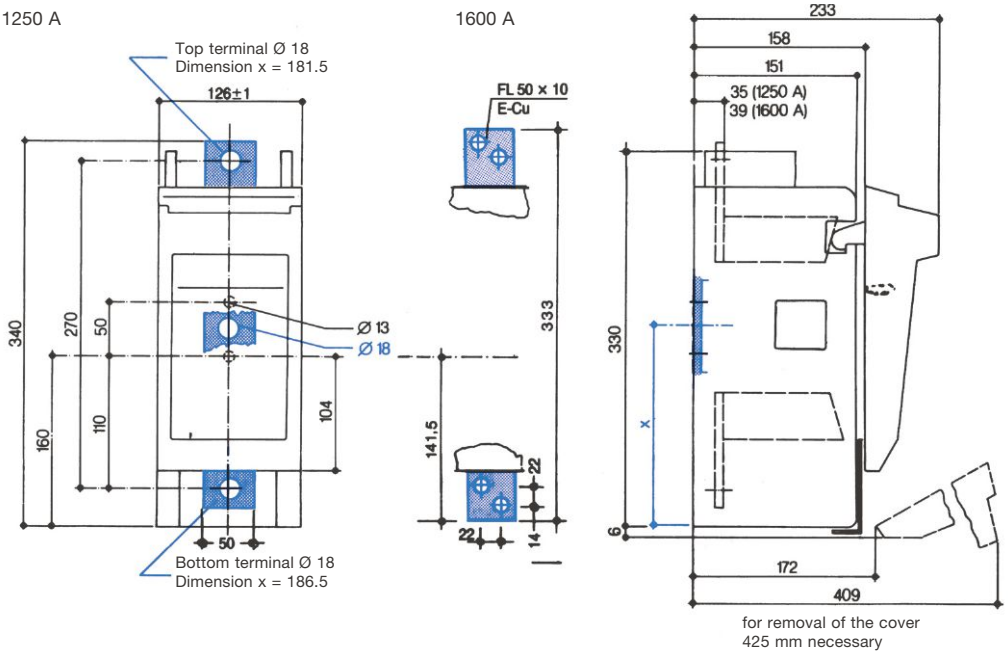


NH Fuse-Switch, horizontal design, size 1 – 3 250 A, 400 A, 630 A



Size	A	a	b
1	250	100	M10
2	400	100	M10
3	630	115	M12

NH Fuse-Switches, size 4a: 1250 A, 1600 A



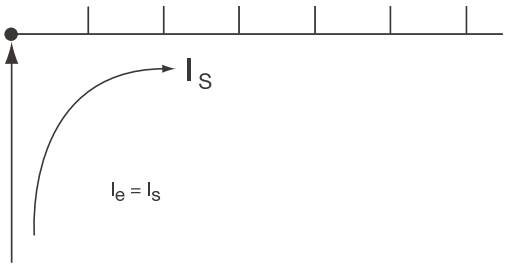
Feeding devices
Accessories

Technical data acc. to DIN EN 60947-1 VDE 0660 T100 / IEC 60947-1:2004 for size 000, narrow version and size 00

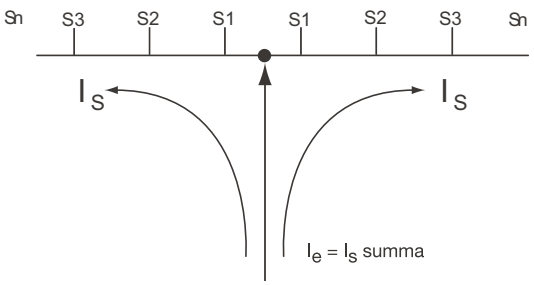
Description		
Materials	Busbar	E – Cu 58 F25
	Insulation	PC/ABS extruded – light gray RAL 7035
	End cap	PC/ABS injection-molded – light gray RAL 7035
	Terminal cover	PA66 V0 injection-molded – light gray RAL 7035
Temperature resistance	PC/ABS extruded	VST B 120 – ISO 306 = 113°C-UL94-VO/1,5
	PC/ABS injection-molded	VST B 120 – ISO 306 = 138°C – UL94-V01,6
Insulation coordination	Overvoltage category III / pollution degree 2	
Electric strength	PC / ABS	> 32 kV / mm
Impulse-withstand voltage	=/> 6,0kV (1kV/mmLS)	
Minimum air gap	> 8 mm	
Minimum creepage distance	> 8,5 mm	
Maximum operating voltage	690 V AC / 440 V DC	
Rated operating voltage	415 V	
Short-circuit resistance	12,5 kA – 100 ms / 400 V	

Resistance at 35 °C ambient temperature and depending on feed point

Busbar block length (m)	**Max.1**	**Max. 0,3**
Busbar cross-section	35 mm²	35 mm²
Feed connected at busbar start or end	125 A	200 A
Maximum Max. busbar current Is/phase	125 A	200 A
Connection cross-section	35 mm²	2x35 mm²
Feed connected at any other position		
Maximum Max. busbar current Is/phase	160 A	260 A
Connection cross-section	2x35 mm²	95 mm²
Feeding devices for size 000	-	2 - 5
Feeding devices for size 00	4 – 5 fach	2 - 3



Feed connected at busbar start or end



Feed connected at any other position

Note: If the feed is connected at the center of the busbar, the total outgoing current S1…..Sn of each busbar branch must not exceed the maximum busbar current Is/phase stated above.