



Blocks and Holders

NH-fuse-bases

NH-fuse-base thermoplastic, ~690V/440V, 1 pole

without partition walls



size	rated current I_N (A)	max. conductor cross section (mm ²)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
fixing onto plates							
00	160	95	screw	F215170	41002	130	3
00	160	70	clamp	T219805	41102	137	3
00	160	95/70	screw/clamp	A212106	41122	137	3
0	160	95	screw	B213142	41202	187	3
1	250	150	screw	E218757	41402	457	3
2	400	300	screw	F201853	41502	500	3
3	630	300	screw	W213643	41602	1090	3
fixing onto DIN-busbar							
00	160	70	clamp	F200795	42102	140	3
00	160	95	screw	R216192	42002	134	3

NH-fuse-base thermoplastic, ~690V/440V, 3 pole

incl. two partition walls



size	rated current I_N (A)	max. conductor cross section (mm ²)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
fixing onto plates							
00	160	95	screw	W229122	41016	380	1
fixing onto DIN-busbar							
00	160	95	screw	V229121	42016	380	1

NH-fuse-base thermoplastic, ~690V/440V, 3 pole

protection against accidental contact IP20



size	rated current I_N (A)	max. conductor cross section (mm ²)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
fixing onto plates							
00	160	95	screw	T229120	41017	450	1
fixing onto DIN-busbar							
00	160	95	screw	S229119	42017	450	1

Terminal shields for thermoplastic fuse-bases size 00...3



size	rated current I_N (A)	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
for NH-fuse-base, 1 pole					
00	160	M222513	44702	16	6
0	160	K200822	44704	25	6
1	250	L201881	44708	52	6
2	400	Y211621	44710	54	6
3	630	X212655	44712	54	6



NH - fuse - bases

Blocks and Holders

NH partition walls for thermoplastic fuse-bases size 00...3

1 pole



size	rated current I_N (A)	FS ref.-no.	Lindher ref.-no.	weight g/piece	pack. unit
00	160	W212654	44502	15	2
0	160	Z213669	44504	25	2
1/2	250	*) J214690	44510	45	2
3	630	*) Q215708	44512	65	2

*) for each insulating plate, one separator is possible.

Connecting element for thermoplastic fuse-bases size 00...3



size	rated current I_N (A)	FS ref.-no.	Lindher ref.-no.	weight g/piece	pack. unit
0	160	V216724	44604	10	2
1/2	250	N217753	44610	20	2
3	630	M218787	44612	30	2

Size 00: Connection without separator possible.

Covers for gripping lugs for thermoplastic fuse-bases size 0...3



size	rated current I_N (A)	FS ref.-no.	Lindher ref.-no.	weight g/piece	pack. unit
use only without microswitch					
00	160	G213170	44802	10	6
0	160	F214181	44804	10	3
1/2	250	K214691	44810	10	6
3	630	R215709	44812	10	3
design for microswitch-use – finger safe (IP20)					
00	160	B233566		9	3
0	160	D233568		9	3
1/2	250	E233569		9	3
3	630	F233570		9	3

Only together with terminal shields.

NH-fuse-base ceramic

~690V/-440V, 3 pole
incl. two partition walls



size	rated current I_N (A)	max. conductor cross section (mm²)	terminal version	FS ref.-no.	Lindher ref.-no.	weight g/piece	pack. unit
fixing onto plates							
1	250	150	screw	H201717	8141.	2400	1
2	400	300	screw	D211971	8142.	3400	1



Blocks and Holders

NH-fuse-bases

NH-fuse-base, ceramic ~690V/-440V

size 4, 1 pole

NEW

size	rated current I_N (A)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
4	1250	screw	W223004	40014	3200	1

fixing onto plates

NH-fuse-base in load breaking design ~690V/-440V

Rated switch capacity $8 \times I_N$,
for fuse size 4a



size	rated current I_N (A)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
4a	1250	screw	E222161	8124.	4400	1

NH-busbar fuse-base ~690V/-440V

1 pole



size	rated current I_N (A)	max. conductor cross section (mm²)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
00	160	Cu70/Al95	screw	A213555	8091.2003	130	3

including one insulating barrier

3 pole,
consists of three 1-pole bases:
consecutively at one level or
stepped for 40mm busbar systems



size	rated current I_N (A)	max. conductor cross section (mm²)	terminal version	FS ref.-no.	Lindner ref.-no.
00	160	Cu70/Al95	clamp	3x A213555	3x 8091.2003

NH-FUSE SYSTEM



NH-accessories

Blocks and Holders

Clamp covers

for busbar fuse-base 8091.2003



size	rated current I_N (A)	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
for output side					
00	160	Y219717	48130.	13	20
for input side					
00	160	F218666	8091.9003	4	20

Busbar fuse-base

for 40mm busbar systems
with 6 outputs, ~690V/-440V, 3 pole



size	rated current I_N (A)	max. cable section (mm²)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
00	160	Cu70/Al95	clamp	Z201203	8094.2	900	2

Repair fuse-base

~690V/-440V,
mountable on normal fuse-bases



size	rated current I_N (A)	terminal version	FS ref.-no.	Lindner ref.-no.	weight g/piece	pack. unit
for NH-disconnector and striptype switch-disconnector (Jean Müller)						
00	100	long contact	T212537	8018.	500	3
for NH-fuse-base						
00	100	short contact	E213053	8019.	500	3

NH-fuse-base

~690V/-440V

NH-fuse-bases are suited for NH-fuses
until ~690V and -440V.

Specifications

IEC 60269
DIN VDE 0636 part 201

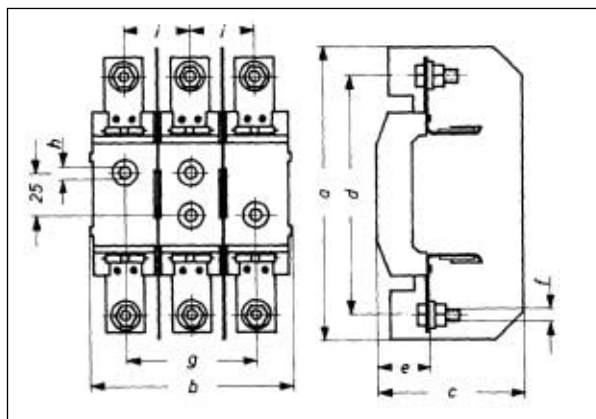


thermoplastic
fuse-base with
fingersafe
protection

size	number of poles	1 pole joinable	max. conductor cross section (screw)	max. conductor cross section (clamp)	max. limit on torque (screw)	max. power loss/ pole
conductor cross section, torque						
00	1/3 pole	yes	M8 95mm²	6 – 70mm²	17Nm	12
0	1 pole	yes	M8 95mm²	6 – 70mm²	17Nm	25
1	1/3 pole	yes	M10 150mm²	70 – 150mm²	40Nm	32
2	1/3 pole	yes	M10 300mm²	120 – 300mm²	40Nm	45
3	1 pole	yes	M12 2 x 40 x 5mm	–	48Nm	60
4	1 pole	no	M15 2 x 80 x 5mm	–	60Nm	90
4a	1 pole	yes	M16 2 x 80 x 5mm	–	84Nm	110



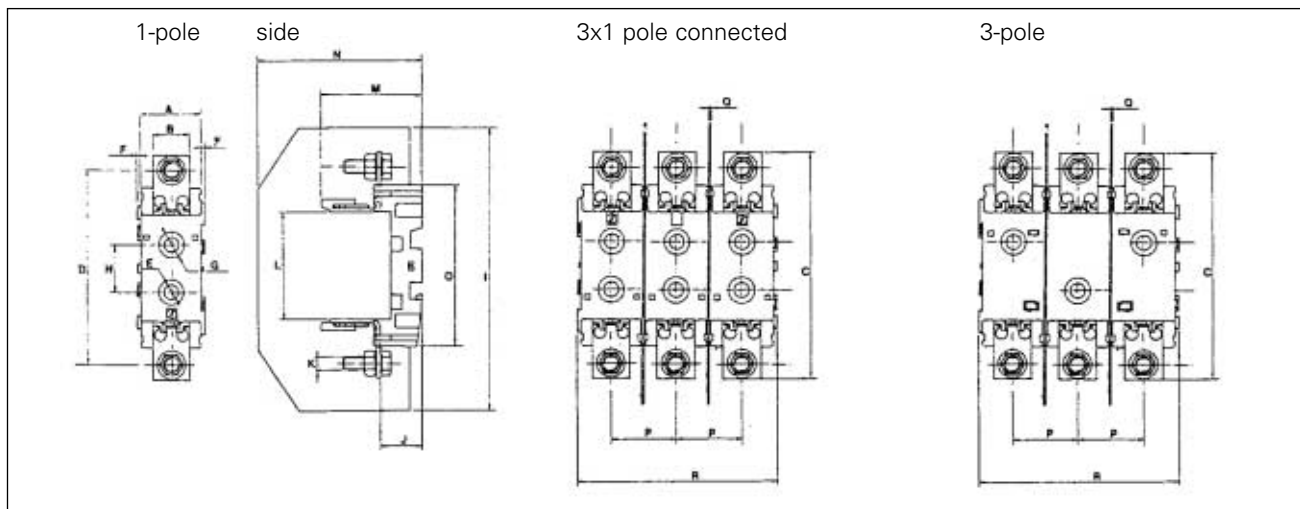
Ceramic fuse-base



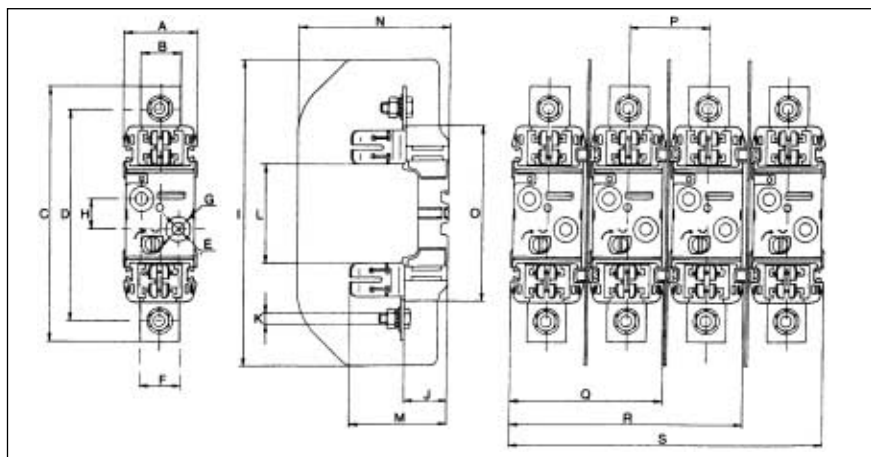
Size	a	b	c	d	e	f	g	h	i
1	214	168	108	173	35	M 10	108	10,5	54
2	260	188	115	200	35	M 10	125	10,5	62

Dimensions in mm

Thermoplastic fuse-base size 00



size 0 - 3



size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
00, 1-pole	32	20	117,0	100,0	8,0	2	14,0	25	145	21,5	M8	56	52	85	84	34,0	1	104	-
00, 3-pole	-	20	118,5	100,5	7,5	3	14,5	25	145	21,5	M8	56	54	87	84	34,0	1	107	-
0	46	20	168,0	151,0	7,5	-	14,5	25	185	29,0	M8	74	59	95	122	48,5	94	142	190
1	60	32	209,0	176,0	10,5	30	20,5	25	250	35,0	M10	81	71	123	146	65,5	126	191	257
2	60	35	225,0	201,0	10,5	30	20,5	25	250	35,0	M10	81	89	123	146	65,5	126	191	257
3	60	40	241,0	210,0	10,5	30	20,5	25	270	35,0	M10	81	103	143	146	81,5	142	223	305

Dimensions in mm



NH00-Linocur

Blocks and Holders

NH00-LINOCUR switch disconnector for NH fuses

to EN 60947-3, IEC 60947-3
DIN VDE 0660, part 107



NH00-LINOCUR for direct voltage

2 poles with fuse monitoring

Lock-out block

for insertion in the switching lever
with padlock lockable for NH00-LINOCUR



Trim frame

for NH00-LINOCUR



Adaptor

for NH00-LINOCUR
3 x 8601, 3 x 8601.22, 1 x 8603,
1 x 8603.22



rated current I_N (A) max. voltage	no. of poles	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
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Screw or clamp at both sides

125A ~290V/100A ~400V	1	N216626	8601.	550	1
125A ~500V/100A ~690V	2	B218685	8602.	1100	1
125A ~500V/100A ~690V	3	Y212035	8603.	1650	1
Incoming terminal screw or clamp/outgoing terminal: connector block 3x10mm ²					
125A ~290V/100A ~400V	1	N222882	8601.22	550	1
125A ~500V/100A ~690V	2	C201781	8602.22	1100	1
125A ~500V/100A ~690V	3	W213574	8603.22	1650	1

rated current I_N (A) max. voltage	no. of poles	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
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Screw or clamp at both sides

125A ~130V	2	S219735	8602.0002	1100	1
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version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
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for all versions	M212508	3860.	10	5
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version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
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3 pole NH00-LINOCUR	C218686	8603.11	20	10
2 x 3 pole NH00-LINOCUR	Q219204	8603.12	30	10
3 pole NH00-LINOCUR long version with testing holes	W222935	8603.13	30	10

version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
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40mm system	D214593	8600.4	450	1
50mm system	P216627	8600.5	450	1
60mm system	F217654	8600.6	450	1



MULTIVERT

Strip type NH fuse-switch disconnecter, size 00

-690V, 160A fully insulated, design width: 50mm
outgoing from top/bottom, can be chosen at will,
for busbar system 100mm



like the a.m. article
but for busbar system 185mm



Adaptor for MULTIVERT size 00, 100mm

for mounting on 185mm system



Adaptor for MULTIVERT size 00, 185mm

for height adjustment of mounting
next to MULTIVERT size 1-3



size	rated current I_N (A)	version	FS ref.-no.	Linder ref.-no.	weight in g/piece	pack. unit
00	160	screw M8	E200725	8389.	1600	1
with integrated measuring lines for electronic system monitor						
00	160	screw M8	X228755	8389.000001	1300	1

size	rated current I_N (A)	version	FS ref.-no.	Linder ref.-no.	weight in g/piece	pack. unit
00	160	screw M8	Y228756	8389.00185	2000	1
with integrated measuring lines for electronic system monitor						
00	160	screw M8	Z228757	8389.001851	1900	1

size	version	FS ref.-no.	Linder ref.-no.	weight in g/piece	pack. unit
00	single for 185mm system	Q216628	8379.01185	500	1
00	double for 185mm system	C217145	8379.02185	1120	1

size	version	FS ref.-no.	Linder ref.-no.	weight in g/piece	pack. unit
00	single for 185mm system	H228765	8379.03185	400	1
00	double for 185mm system	G228764	8379.04185	700	1



MULTIVERT • Accessories

Blocks and Holders

Cover for adjustment of MULTIVERT size 00, 100mm to the MULTIVERT size 1, 2, 3

1 sales unit = 2 covers
each unit: 1 piece top, 1 piece bottom



size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	X214081	8374.	100	1

Cover for adjustment of MULTIVERT size 00, 185mm to the MULTIVERT size 1, 2, 3

1 sales unit = 2 covers
each unit: 1 piece top, 1 piece bottom



size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	F228763	8373.1	10	1

Labelling plate for MULTIVERT size 00 and 1-3



size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	K215611	8377.	10	1
1-3	B222181	8385.000005	25	1

Electronic system monitor

for fuse monitoring,
monitoring of phase missing,
automatic recognition of supply,
monitoring of own function



size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	D228761	8386.1	350	1
1-3	J228766	8386.2	400	1

size	FS ref.no.	Lindner ref.no.	weight in glpiece	pack. unit
00, 1-3	D218687	8382.000005	5	1



Accessories

Blocks and Holders

Residual field cover

width 50mm,
for busbar systems with 100 or 185mm,
for covering residual fields



size	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	100mm	C213074	8373.001	30	1
00	185mm	X213575	8373.00185	500	1
1-3	185mm	K228767	8383.00185	560	1

Claw clamp set for mounting without boring

of MULTIVERT size 00
1 sales unit = 3 clamps



size	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
00	K215105	8376.	100	1

Terminal sets (1 set = 3 pcs)

for retooling to other versions of terminals



applicable for	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
NH 00	screw M8 with disk spring	M229298	8274.	34	1
NH 00	clamp terminal 4-70 mm ²	E214594	8375.	34	1
NH 1	clamp terminal 150 mm ²	E229889	8276.		1
terminal set for Alu and Cu					
NH 00	clamp terminal 4-70 mm ² , 90mm ² se	R211523	8295.007405	76	1
for laminated Cu-bars					
NH 00		Q228749	8295.0064		1



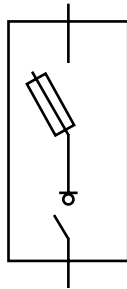
NH00-LINOCUR, switch-disconnector-fuse
125A, ~290/500V, 1- 3-pole
100A, ~400/690V, 1-3-pole

specifications

DIN VDE 0660 part 107
 IEC 60947-3
 EN 60947-3
 VBG 4

graphical symbol

to IEC 60947-3 and
 DIN VDE 0660 part 107



Your advantage

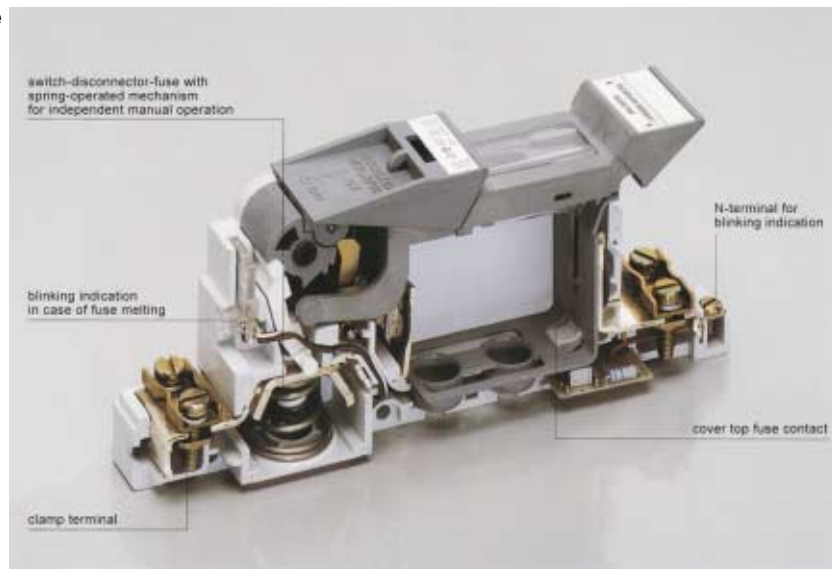
Basic design

Functional characteristics

Safety principle

Screw/clamp

Attachment types



More safety and ease of operation in electro-technical equipment.

The NH00-LINOCUR combines a switch disconnector according to DIN VDE 0660 part 107 and a NH-fuse-base in one enclosure. The NH00-LINOCUR has a load switch capacity and it complies with the isolating function according to DIN VDE 0660 part 107.

The NH00-LINOCUR

- protects lines and equipment
- allows the isolation of electric equipment without removing the NH fuse-links
- has a spring-operated mechanism and thus hand independent operation
- allows a safe connection even in case of accidentally switching on a short circuit current up to 50kA
- avoids dangerous reverse voltages because the electrical equipment is always disconnected on all poles
- disconnect at first, then remove fuse-links
- the NH fuse-link can generally be replaced only in switched-off state and when fully isolated
- the replacement of fuse-links is only possible after disconnecting the load
- a danger due to arcing like in case of ordinary NH-disconnectors or when removing the NH fuse-links out of the fuse-bases is completely ruled out
- Protection against accidental touch of live parts. When removing the fuse-link all metal parts which can be touched are isolated and covered finger safe



screw	clamp	connector block
M8	1 x 50mm ²	3 x 10
Max. torque		
4Nm	2,5Nm	0,5Nm



Technical Information

Blocks and Holders

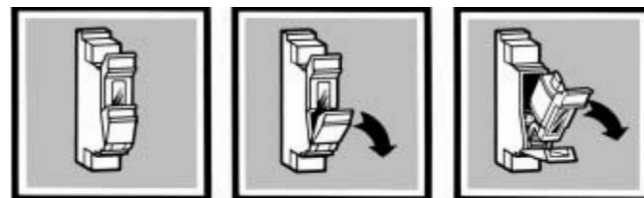
Blinking indication at fuse melting

NH00 LINOCUR switch-disconnector-fuses are generally supplied with an electronic fuse monitoring system which in addition to the ordinary indicator of the NH fuse-link monitors the state of the fuse.

A blinking signal appears in case of fusing. The NH00-LINOCUR is supplied with an additional N terminal. When connecting the N-conductor the function of the blinking lamp is guaranteed independent of load resistance.

Functioning and handling

The NH00-LINOCUR complies with the safety technical requirements according to IEC, VDE and UVV-BGVA2 (accident prevention instructions). Safe operation is possible by unskilled persons.



switched on state

switching off the load

remove the fuse in fully isolated state



switching on without an inserted fuse is not possible



replacing the fuse



safe switching on (also short circuits)

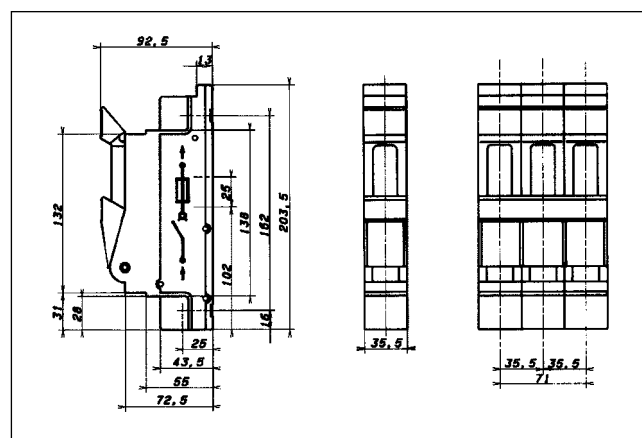


NH00-LINOCUR comprehensive safety in operation and during fuse replacement

Approvals and testmarks

DIN VDE 0660 part 107	100A/-690V AC 22
Germanischer Lloyd	125A/-500V AC 22
British Lloyd's Register of Shipping	125A/-500V AC 22
ÖVE SN 40	125A/-500V AC 22
NH fuse-links enclosure	NH00 to 125A gL/gG special material RAL 7035, subdued grey
attachment types input/output	screw M8, clamp terminal, connector block 3 x 10mm ²
cross sections	up to 70mm ²
sealing	switch knob
locking device for unauthorised operation	device lock-out block (Lindner-ref.-no. 3860)
ambient air temperature	-5°C to 40°C

NH00-LINOCUR, switch-disconnector-fuse

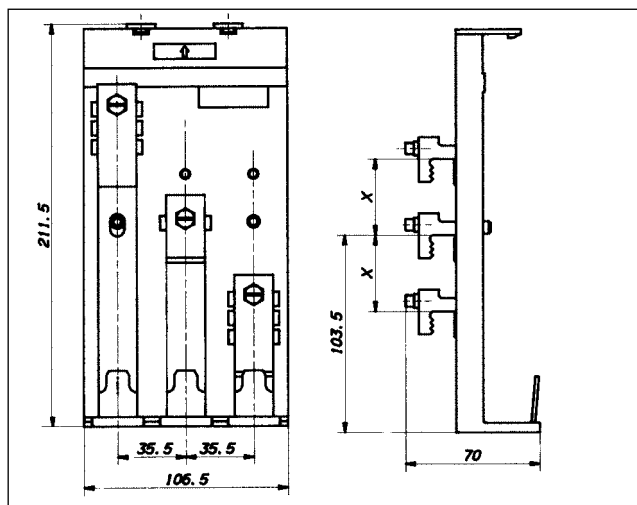




Electrical data

tested to DIN VDE 0660 part 107	
rated making and breaking capacity	
utilization category	AC22
rated current	$3I_N$
actuating cycles	25
electrical lifetime	
utilization category	AC22
rated current	I_N
$\cos \phi$	0,65
actuating cycles	150
mechanical lifetime actuating cycles	3000
nominal insulation voltage	~1000V
nominal short circuit making capacity	50kA
direct voltage behavior	
nominal making and breaking capacity	
utilization category	DC22
rated current	125A
max. direct voltage per pol	-65V
three poles in series	-195V
switching cycles	5
fuse monitoring	electronic fuse monitoring indicates fusing with blinking lamp
min. operational voltage for function of electronic fuse monitoring	100V

Adaptor for NH00-LINOCUR



MULTIVERT

Strip type NH fuse-switch disconnecter

Specifications

DIN VDE 0660 part 107
EN 60947-3
IEC 60947-3 (IEC 408)
DIN 43623

Directions for use

The strip type NH fuse-switch disconnecters are available in the following sizes and versions:

- for busbar distance 100mm
size 00 for 160A, 3 poles switchable (can be adapted to 60mm and 185mm systems)
- for busbar distance 185mm

Size 00	for 160A	1 and 3 poles
Size 1	for 250A	1 and 3 poles
Size 2	for 400A	1 and 3 poles
Size 3	for 630A	1 and 3 poles

Combination possibilities

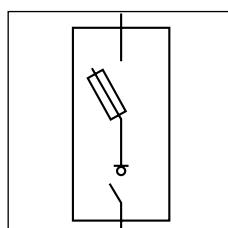
The Multivert size 00 can be combined with the Multivert size 1-3.

With their mounting width of only 50mm two Multivert size 00 dispose of the same space as one of the sizes 1, 2 and 3 and both can be used side by side. Multivert 00 for 100mm busbar distance can be mounted on the busbar system with an adaptor. Multivert 00 for 185 mm busbar distance can be mounted without adaptor. In order to achieve the height adjustment with the types of sizes 1-3 adaptors can be used. Extended covers for the cable terminal for length adjustment are available as accessory.

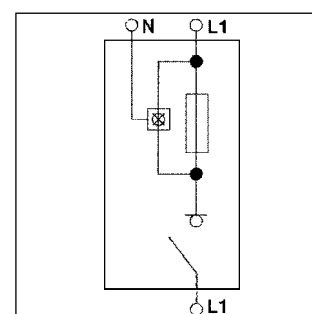
Planning guide

Specification text	strip type NH fuse-switch disconnecter "MULTIVERT" to DIN VDE 0660 part 10 IEC 60947-3 EN 60947-3 DIN 43623
Electrical indications	current/voltage: up to 630A/660 (690)V
Utilization category	AC 23B at -400V, $\cos \phi = 0,35$ at rated current
Design	for NH fuse-links sizes 00, 1, 2, 3
Mounting	direct mounting on the busbar systems 100mm (size 00) or 185mm (size 00-3), terminals also for aluminium conductor outgoing for top/bottom can be chosen at will
Options	adaptor for busbar systems with 60/185mm for size 00
Accessory	residual field cover labelling plate covers, etc.

Graphical symbol to IEC 6047-3



Graphical symbol with fuse monitoring (electrical)



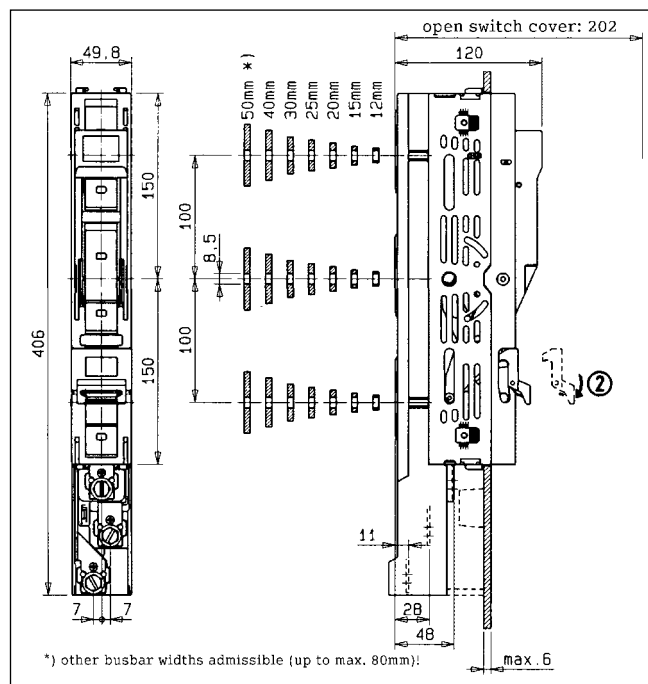


MULTIVERT

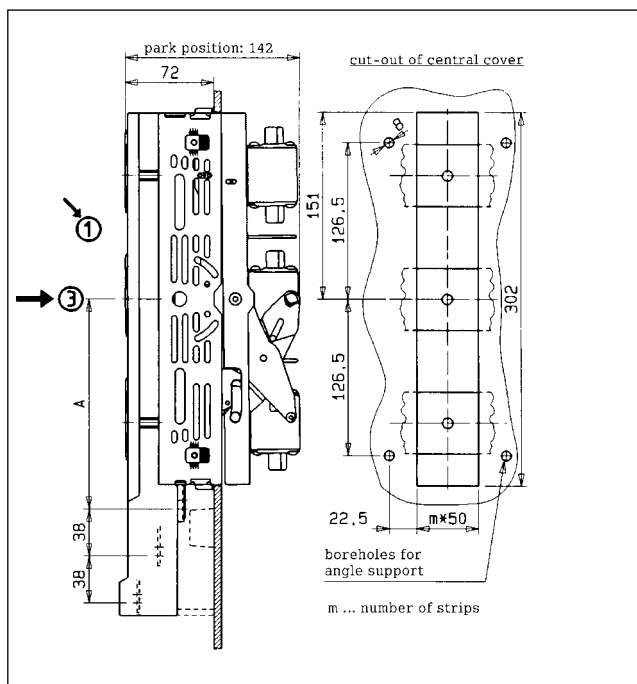
Strip type NH fuse-switch disconnecter

size	size 00	size 1	size 2	size 3
classification: NH fuse-switch-disconnector to DIN VDE 0660 part 107				
specifications: DIN VDE 0660 part 107, EN 60947-3, DIN 43623				
number of poles	3-poles	3-poles	3-poles	3-poles
switchable number of poles	1-, 3-poles	1-, 3-poles	1-, 3-poles	1-, 3-poles
rated uninterrupted current I_n				
with fuse-links to DIN VDE 0636 part 201	160A	250A	400A	630A
conventional free air thermal current I_{th}	160A	250A	400A	630A
with disconnecting knives	250A	400A	630A	1000A
rated duty	uninterrupted duty	uninterrupted duty	uninterrupted duty	uninterrupted duty
rated operational voltage U_e	~660 (~690) V	~660 (~690)V	~660 (~690)V	~660 (~690)V
rated frequency	45 – 52Hz	45 – 62Hz	45 – 62Hz	45 – 62Hz
rated insulation voltage U_i	1000V	1000V	1000V	1000V
rated impulse withstand voltage U_{imp}	8kV	12kV	12kV	12kV
rated short-time withstand current I_{cw} (1 sec with disconnecting knives)	4000A	5000A	8000A	12600A
rated short-circuit making capacity I_{cm} with fuses	50kA	50kA	50kA	50kA
	size 00/160A	size 1/250A	size 2/400A	size 3/630A
rated breaking capacity				
rated operational current I_e at				
AC 23B/400V $\cos \varphi = 0,35$	160A	125A	200A	315A
AC 22B/500V $\cos \varphi = 0,65$	160A	250A	400A	630A
AC 21B/660V $\cos \varphi = 0,95$	100A	125A	300A	250A
DC 22B/440V	160A	–	–	–
admissible ambient air temperature	-25 to + 55°C	-25 to + 55°C	-25 to + 55°C	-25 to + 55°C
stock temperature	-40 to +80°C	-40 to +80°C	-40 to + 80°C	-40 to +80°C
mechanical lifetime (cycles)	1000	1000	1000	1000
mechanical and electrical lifetime (cycles)	50 cycles at rated duty			
max. power dissipation (of the fuse-links)	12W	23W	34W	48W
attachment types/ cross sections and max. admissible torques	M8/15Nm	M10/38Nm	M12/38Nm	M12/48Nm
screw at the output				
position of utilization	horizontally and vertically			
degree of protection	IP 20	IP 20	IP 20	IP 20

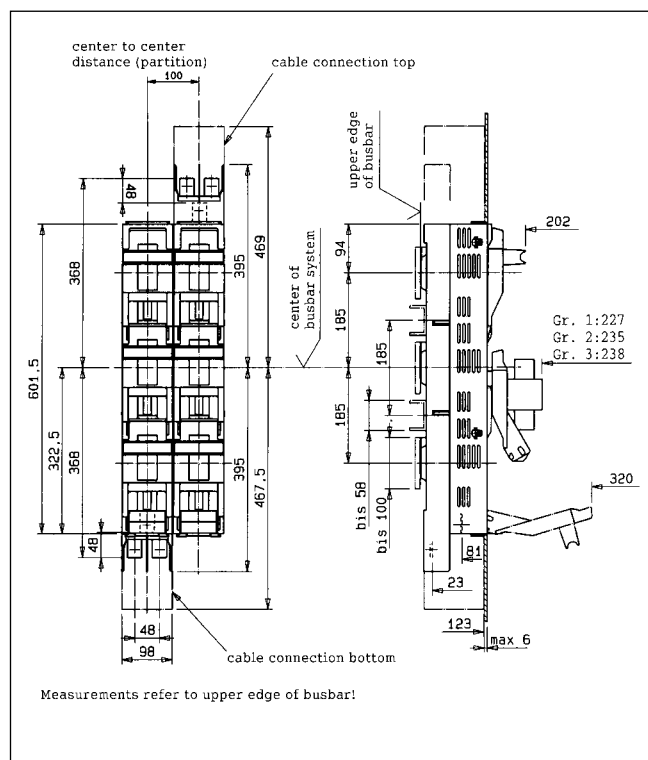
MULTIVERT size 00 Lindner-ref.-no. 8389.



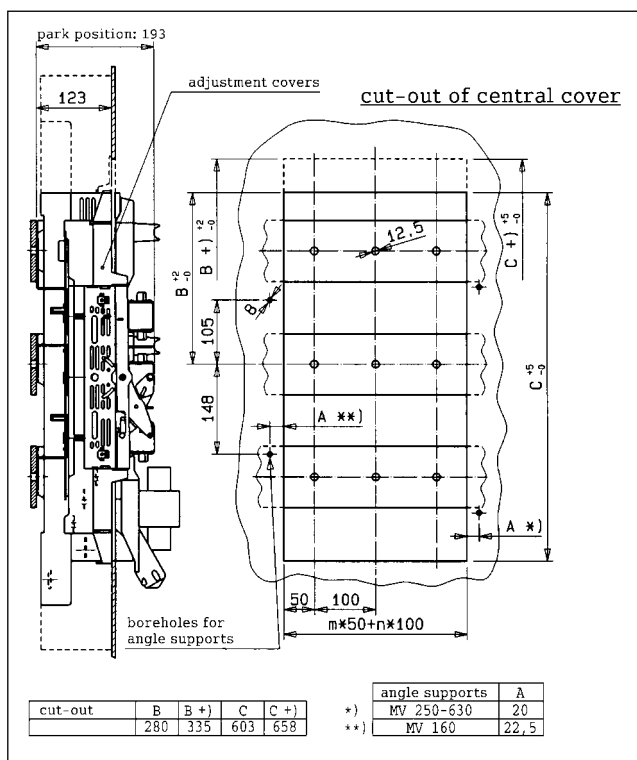
Cut-out of central cover



MULTIVERT size 1, 2, 3



Combination size 00, 100mm with size 1, 2, 3



Blocks and Holders

size	rated current I _N (A)	no. of poles	terminal version	FS ref.no.	Linder ref.no.	weight in g/piece	pack. unit
for 40mm busbar system							
00 160	3	screw M8/clamp terminal	4-70mm ²	Q229278	8255.	924	1
for 60mm busbar system							
00 160	3	screw M8/clamp terminal	4-70mm ²	R229279	8265.	924	1
for 40/60mm busbar system							
1 250	3	screw M10		*) T229879	8261.	2721	1

*) mounting of clamp terminal is possible

	applicable for	version	FS ref.-no.	Lindner ref.-no.	weight in g/piece	pack. unit
	NH 00	3-pole	X229284	8235.009	43	1
new	NH 1	3-pole	X229882	8231.009	136	1

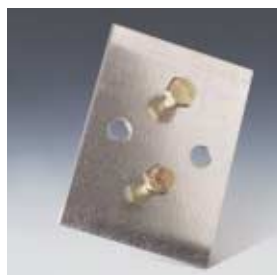


Frame Trim



applicable for	version	FS ref.-no.	Lindher ref.-no.	weight in g/piece	pack. unit
NH 00 3-pole	one-fold	Y229285	8235.001	20	1
NH 00 3-pole	two-fold	Z229286	8235.002	30	1
NH 00 3-pole	three-fold	A229287	8235.003	30	1
new NH 1 3-pole	one-fold	Z229884	8231.001		1

DIN rail mounting



applicable for	version	FS ref.-no.	Lindher ref.-no.	weight in g/piece	pack. unit
NH 00 1-pole	150mm distance	C229289	8215.5	81	1
NH 00 1-pole	125mm distance	B229288	8215.7	65	1
NH 00 3-pole	150mm distance	E229291	8235.5	134	1
NH 00 3-pole	125mm distance	D229290	8235.7	108	1
new NH 1 1-pole	150mm distance	B229886	8211.5	134	1
new NH 1 1-pole	125mm distance	A229885	8211.7	106	1
new NH 1 3-pole	150mm distance	D229888	8231.5	232	1
new NH 1 3-pole	125mm distance	C229887	8231.7	185	1

Microswitch for monitoring the lid position



applicable for	FS ref.-no.	Lindher ref.-no.	weight in g/piece	pack. unit
NH 1 all disconnectors, disconnectors for NH 00 mounting on plates, 1-, 2-pole	E228762	8378.1	3	1
NH 00 disconnector for mounting on plates, 3-pole	S229280	8378.3	20	1
NH 00 busbar mounting disconnector, 3-pole	T229281	8378.4	20	1

Locking and sealing devices



applicable for	version	FS ref.-no.	Lindher ref.-no.	weight in g/piece	pack. unit
NH 00 and 1	window locking (1 set = 3 pcs.)	K229296	8280.	4	1
NH 00 and 1	sealing set	L229297	8281.	4	1

Terminal clamp sets (1 set = 3 pieces)

for retooling to other terminal versions



applicable for	version	FS ref.-no.	Lindher ref.-no.	weight in g/piece	pack. unit
NH 00	screw M8 with disk spring	M229298	8274.	34	1
NH 00	clamp terminal 4-70 mm ²	E214594	8375.	34	1
new NH 1	clamp terminal 150 mm ²	E229889	8276.		1
for aluminium and copper conductors					
NH 00	clamp terminal 4-70mm ² 90mm ² se	R211523	8295.007405	76	1
for laminated copper bars					
NH 00	set of terminal for Cu	Q228749	8295.0064		1



Lid for disconnectors both for mounting on plates and busbars
(replacement)



size	FS ref.-no.	Lindner ref.-no.	pack. unit
00	Y229883	8235.9	1

NH MULTIBLOC fuse-switch-disconnector size 00 and 1 690V~

IEC/EN 60 947-3

Breaking capacity according to EN 60-947-3:

AC 23B/400V AC 22B/500V
AC 21B/690V DC 22B/440V

for NH fuse-links according to EN 60269-2-1 / section 1.
VDE 0636 / part 201

Highlights

- Breaking capacity 80kA/50kA
- Modern robust design
- 1-pole, 2-pole, 3-pole and 4-pole type
- IP20 shock hazard protection – also for voltage measurement at the NH fuse-link
- Parking position for the lid
- Outgoing lines alternatively on top or at the bottom
- Busbar mounting disconnector size 00 and 1 flexible for 5 and 10mm bars
- Busbar mounting disconnector size 1: center to center busbar distance 40mm and 60mm adjustable

Features

- Modular cover system
Cover for cable lugs or terminals (can be enlarged)
- Locking and sealing – optional
- Microswitch for lid position – optional
- 3 terminal types: screw, clamp, terminals for Al/Cu
- Halogen-free, non inflammable plastics, marked for recycling according to the individual types of material

The new MULTIBLOC series with its outstanding design replaces the traditional LINDNER fuse-switch-disconnector "series GI" and "series BS". The range encompasses both disconnectors for the traditional panel building on mounting plates and busbars for the direct contact on busbars. The new disconnector series is completed by a comprehensive accessory program giving flexibility in many different applications.

locking and sealing



IP20 shock hazard protection also for voltage measurement



parking position of the lid





NH fuse-switch-disconnector size 00

160A 690V~

Technical data according to EN 60947/IEC 947

Size	00		
Number of poles/phases	1, 2, 3, 4		
Conventional free air thermal current I_{th}	160A		
NH fuse-links	160A		
Maximum admissible nominal power dissipation of the NH fuse-links	12W		
Conventional free air thermal current I_{th} with disconnecting knives	200A		
Maximum admissible nominal power dissipation with disconnecting knives	1,2W		
Rated operational voltage U_e	400V AC	500V AC	690V AC
Rated operational current I_e	160A	160A	125A
Utilization category	AC 23B	AC 22B	AC 21B
Rated insulation voltage U_i	1000V		
Rated impulse withstand voltage U_{imp}	8kV		
Rated frequency	50-60Hz		
Degree of protection	IP 2Lx		
Pollution degree	3		
Rated duty	uninterrupted duty		
Rated short-circuit making capacity I_{cm} with disconnecting knives size 00	6,1kA		
Conditional rated short-circuit current for protection with fuse	80kA	80kA	50kA
Rated short-time withstand current I_{cw} with disconnecting knives	$\leq 4,0kA/1s$		
Power dissipation at 160A without NH fuse-links	7W		
Power dissipation at 200A without disconnecting knives	7W		
Standard terminal	M8		
for current bars with maximum width	20mm		
for cable lugs	max. 2 x 70mm ²		
Ambient air temperature range	-25 – +55°		

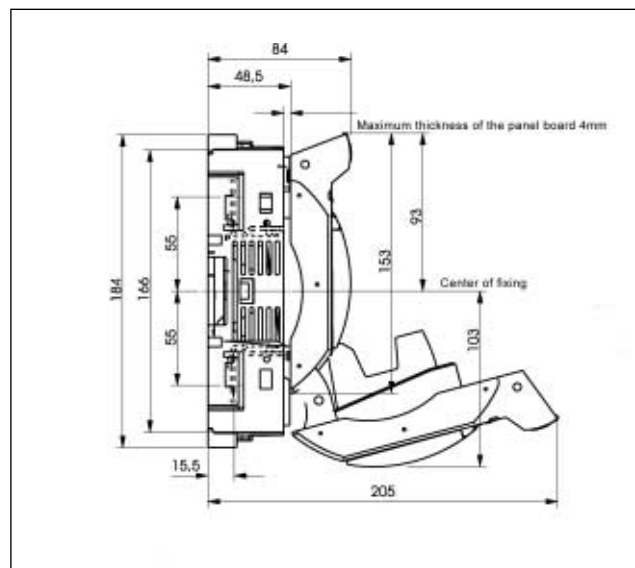
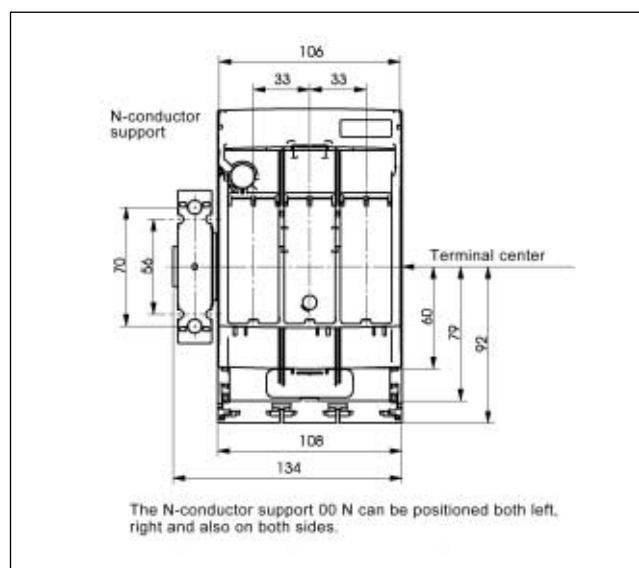
NH fuse-switch-disconnector size 1

250V 690V~

Technical data according to EN 60947/IEC 947

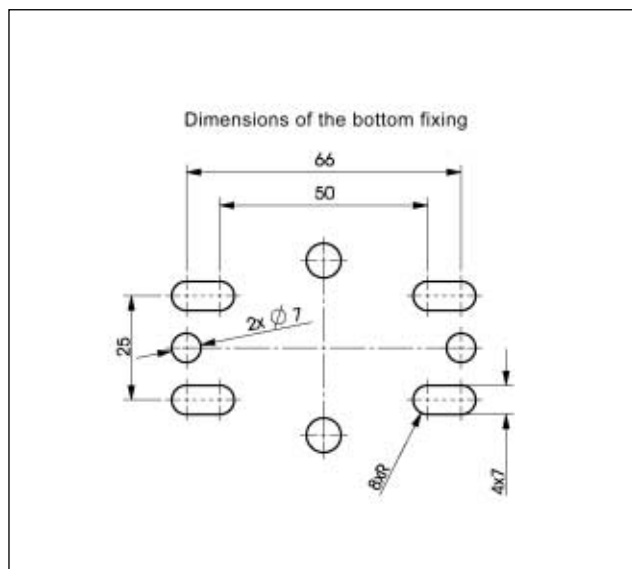
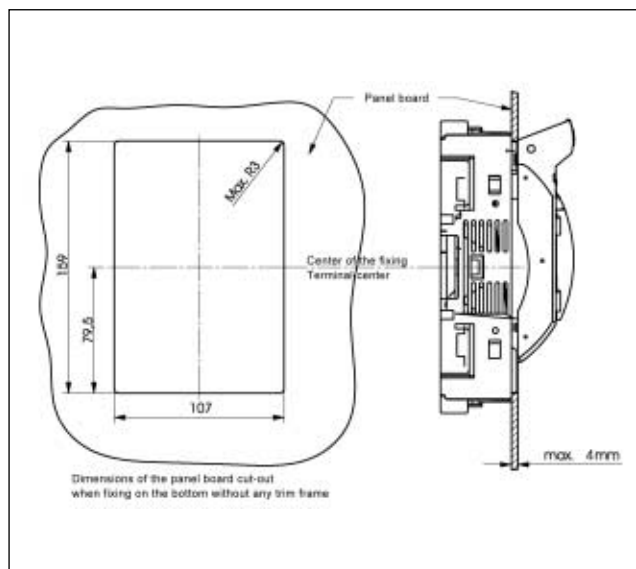
Size	1		
Number of poles/phases	1, 2, 3		
Conventional free air thermal current I_{th}	250A		
NH fuse-links	250A		
Conventional free air thermal current I_{th} with disconnecting knives	400A		
Maximum admissible nominal power dissipation of the NH fuse-links	23W		
Maximum admissible nominal power dissipation of disconnecting knives	8W		
Power dissipation per pole at 250A without NH fuse-links	4W busbar disconnectors 11W		
Power dissipation per pole at 400A without disconnecting knife	4W busbar disconnectors 11W		
Rated operational voltage U_e	400V AC	500V AC	690V AC
Rated operational current I_e	250A	250A	200A
Utilization category	AC 23B	AC 22B	AC 21B
Conditional rated short-circuit current for protection with fuse	80kA	50kA	50kA
Rated short-circuit making capacity I_{cm} with disconnecting knives size 00	6,2kA		
Rated short-time withstand current I_{cw} with disconnecting knives	8,0kA/1s		
Rated insulation voltage U_i	1000V		
Rated impulse withstand voltage U_{imp}	12kV		
Rated frequency	50-60Hz		
Degree of protection	IP 30 from the front/IP 20 open		
Pollution degree	3		
Rated duty	uninterrupted duty		
Ambient air temperature range	-25 – +55°		
Standard terminal	M10		
for current bars with maximum width	18mm		
for cable lugs	2x150mm Cu, 2x185 mm Al		
Busbar terminal with busbar mounting disconnector			
center to center busbar distance 40mm	12x5mm bars		
center to center busbar distance 50mm	12x5mm to 30x10mm bars		

NH 00 3-pole (disconnecter for mounting on plates)

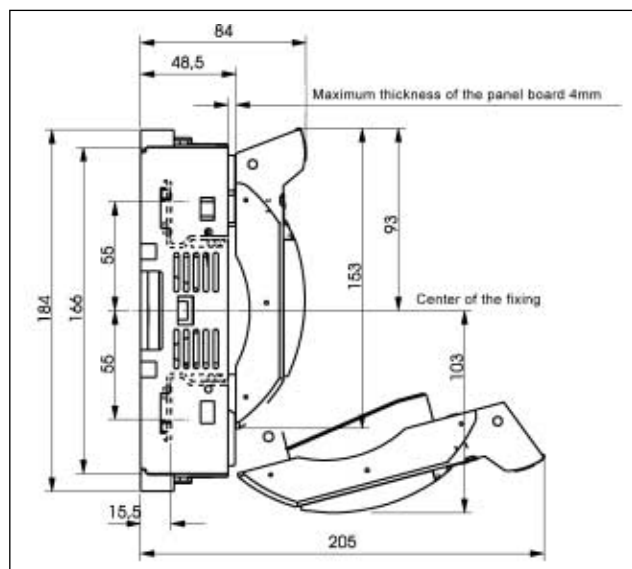
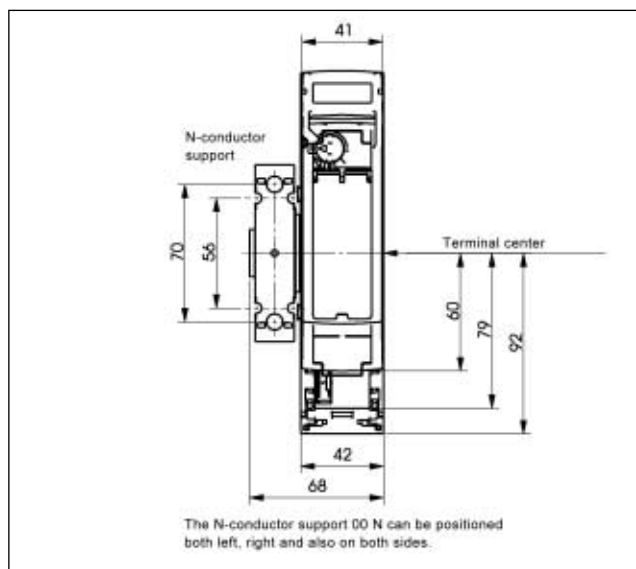




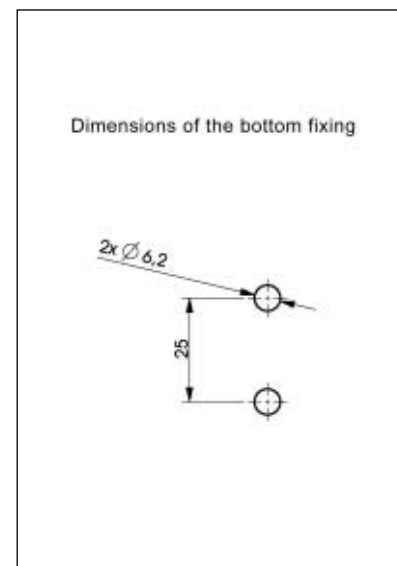
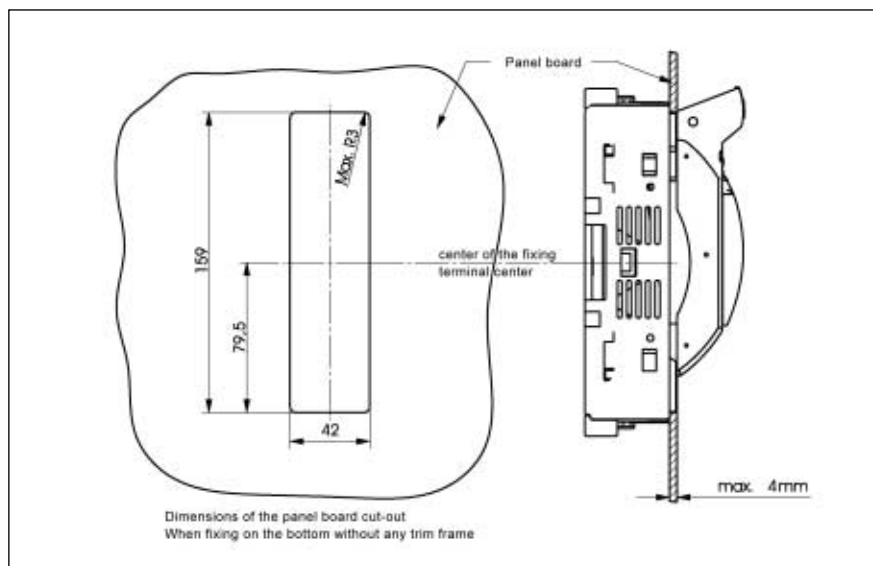
NH 00 3-pole (disconnecter for mounting on plates)



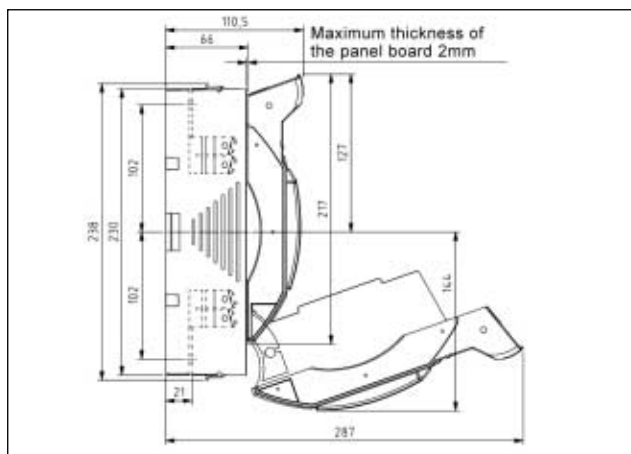
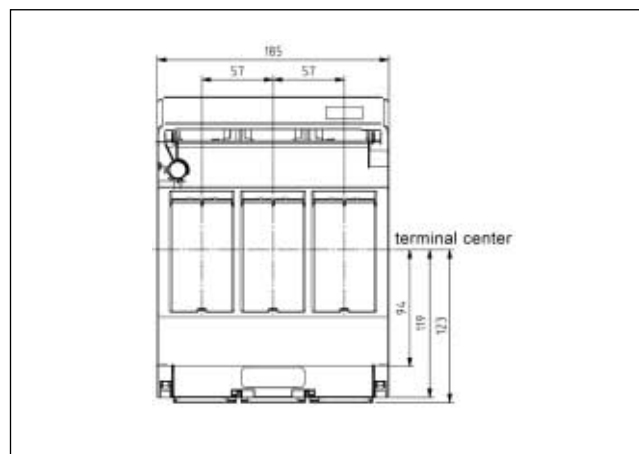
NH 00 1-pole



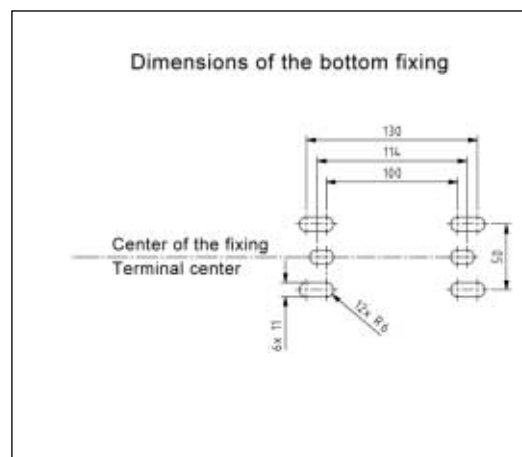
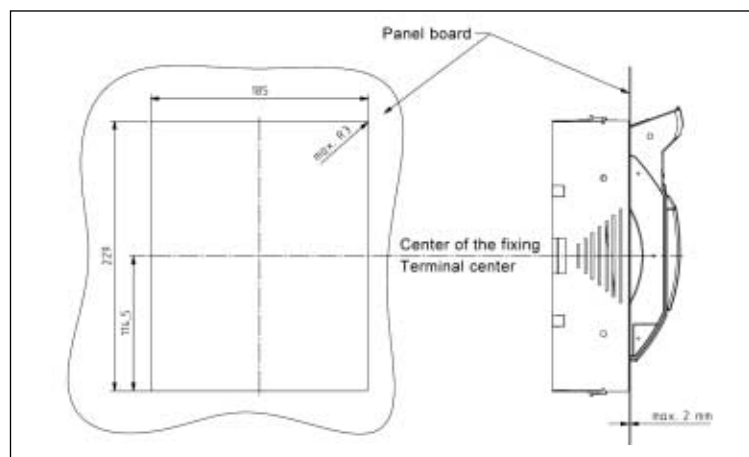
NH 00 1-pole



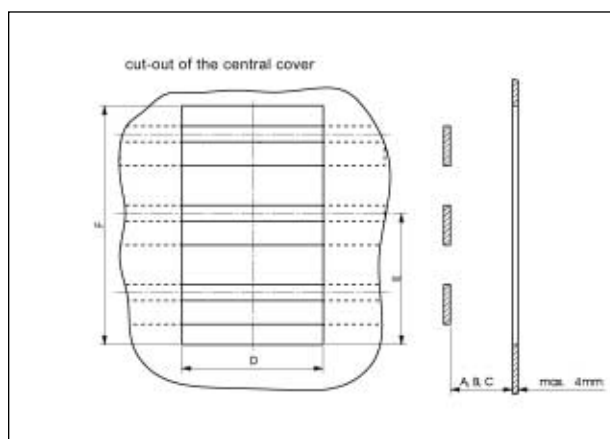
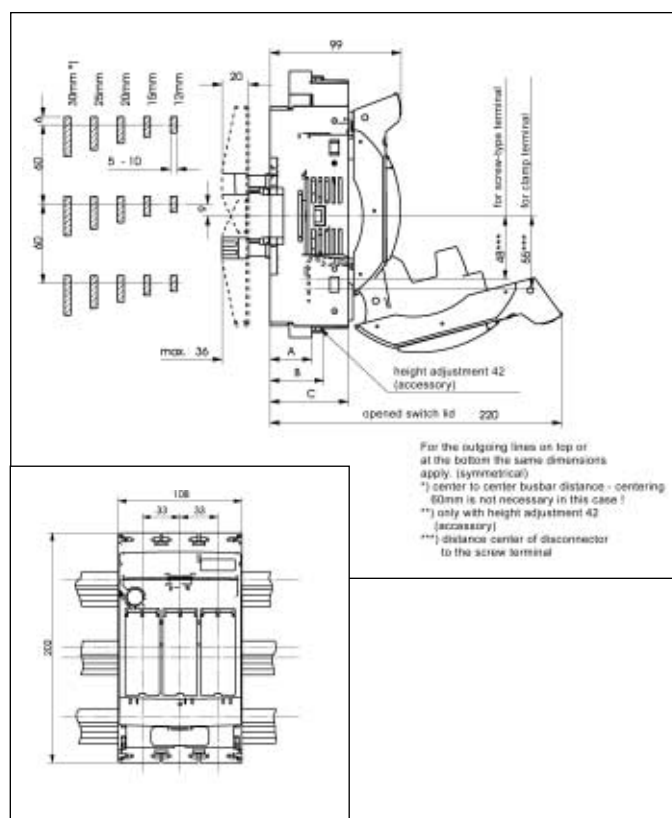
NH 1 3-pole (disconnecter for mounting on plates)



NH 1 3-pole (disconnecter for mounting on plates)



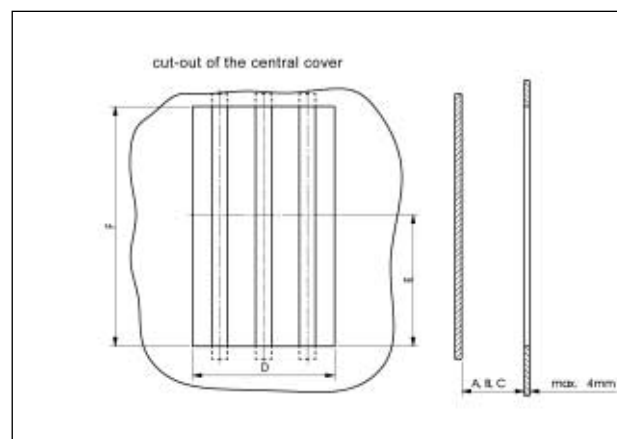
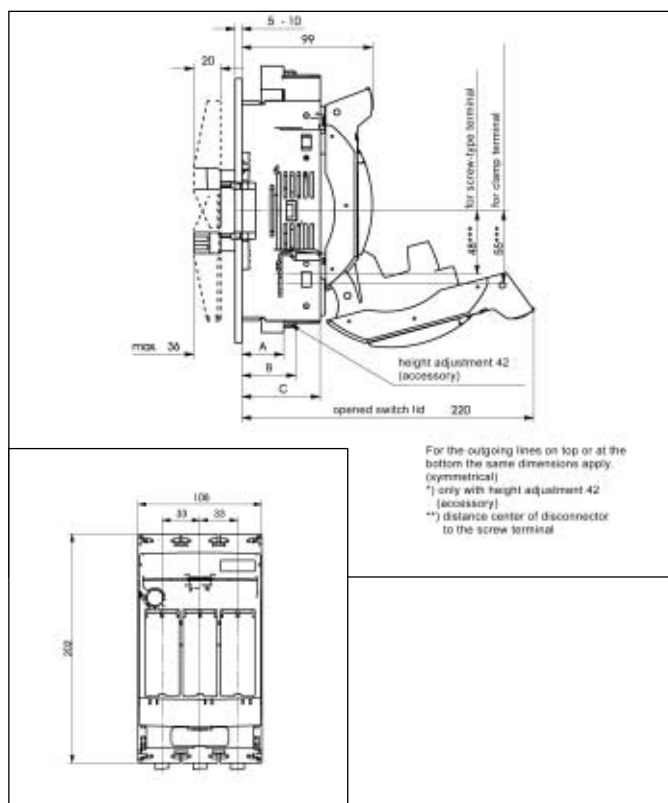
NH 00 3-pole (TRI 60 busbar mounting disconnecter, busbars horizontal)



mounting-depth		dimensions of cut-out		
		D	E	F
A	32	109	97,5	195
B**)	42	109	97,5	195
C	59.9	105	90.5	181

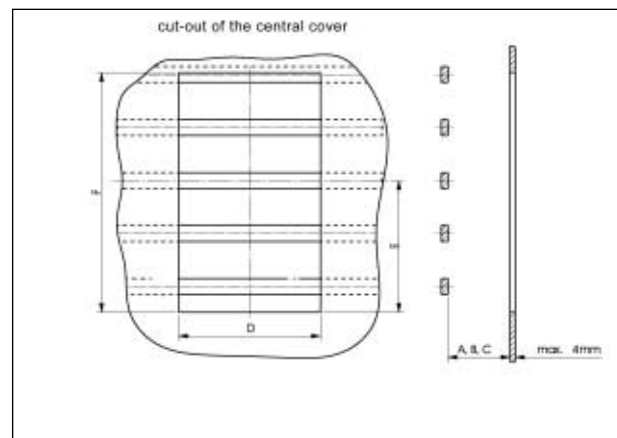
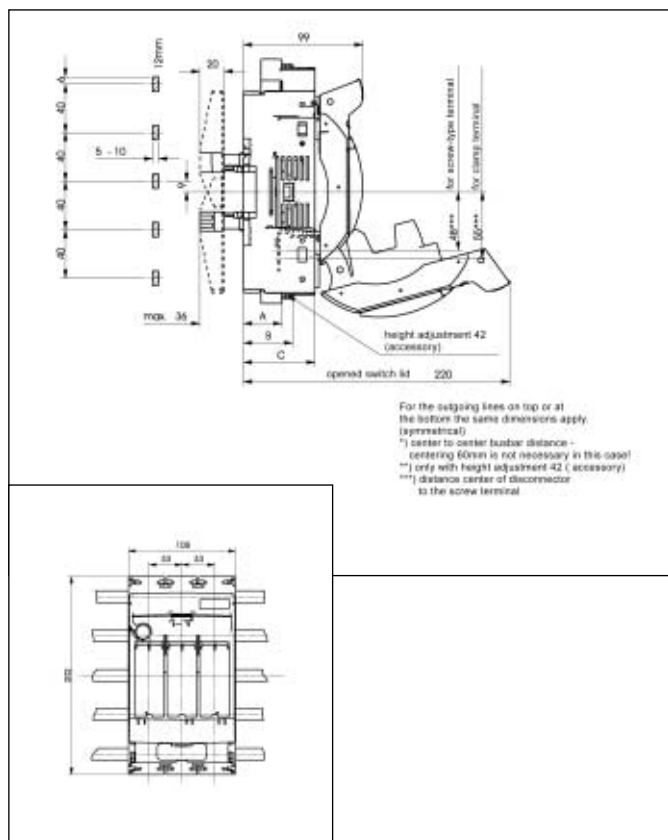


NH 00 3-pole (TRI 60 busbar mounting disconnecter, busbars vertical)



mounting-depth	dimensions of cut-out		
	D	E	F
A 32	109	97,5	195
B**) 42	109	97,5	195
C 59,9	105	90,5	181

NH 00 3-pole (40 mm busbar mounting disconnecter)

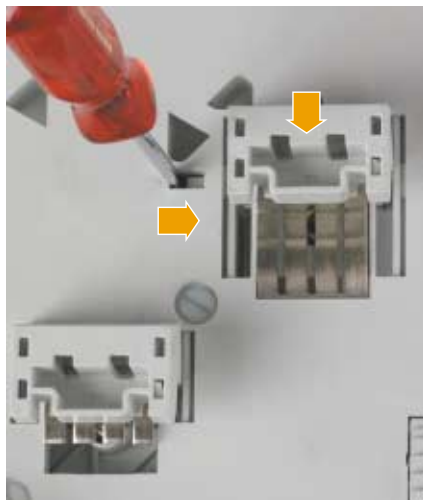
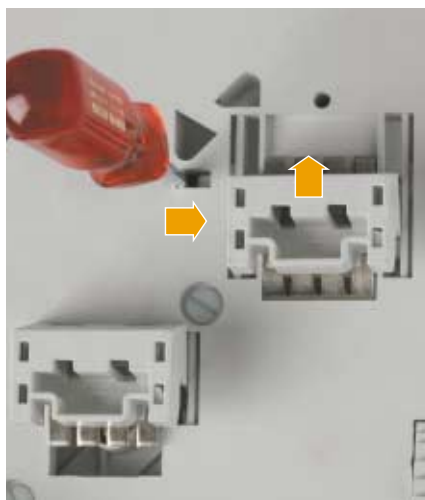


mounting-depth	dimensions of cut-out		
	D	E	F
A 32	109	97,5	195
B**) 42	109	97,5	195
C 59,9	105	90,5	181



MULTIBLOC busbar mounting disconnecter size 1

Adjust the center busbar distance 40mm and 60mm



Adjust the thickness of busbar



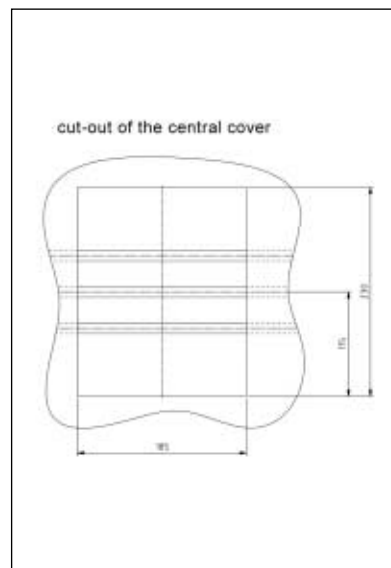
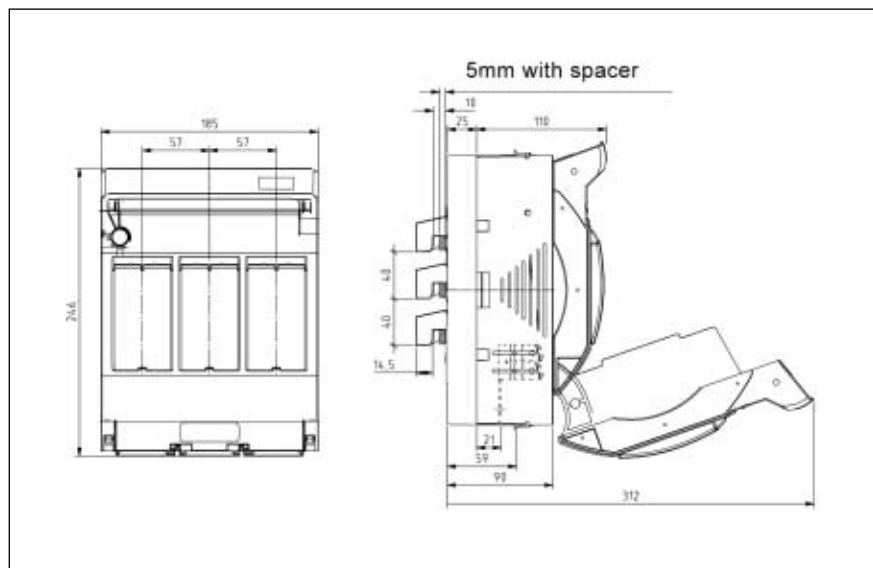
put on...



...snap on



NH 1 · 3-pole (busbar mounting disconnecter)



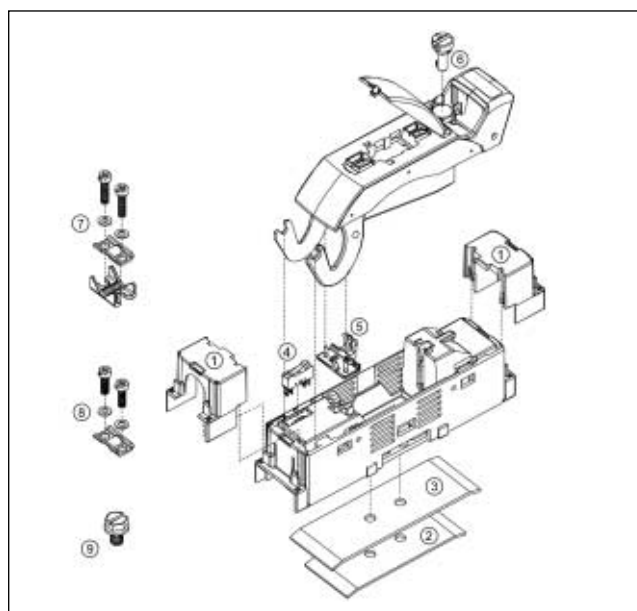


Technical Information

Blocks and Holders

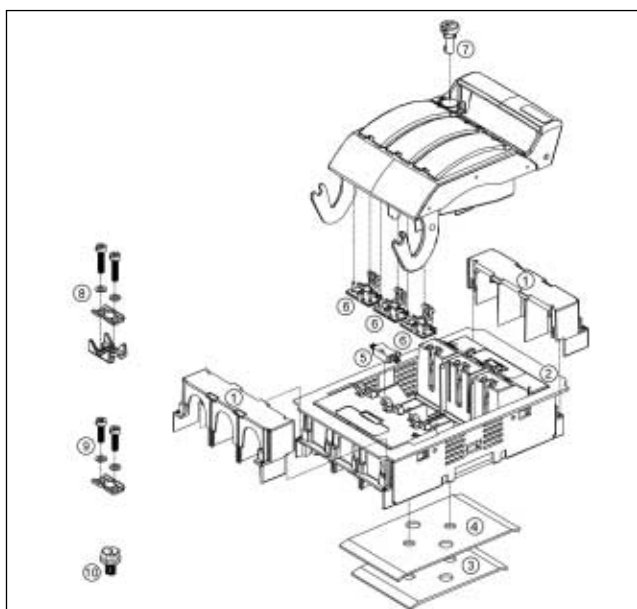
NH fuse switch-disconnector size 00, 160A 690V ~, 1-pole, disconnecter for mounting on plates

no.	designation	standard	option	accessory
	00 1-pole, terminal for screws M8	•		
	00 1-pole, terminal for clamps Cu 4-70mm ²		•	
1	1 cable cover 1-pole			•
2	2 DIN fixing, 125mm			•
3	3 DIN fixing, 150mm			•
4	4 Microswitch for lid position			•
5	5 Window locking system against illegal connection			•
6	6 Sealing set			•
7	7 terminal for screw M8			•
8	8 terminal for Cu 4-70mm ²			•
9	9 terminal Al/Cu, 1,5 – 70mm ² , 95mm ² se			•



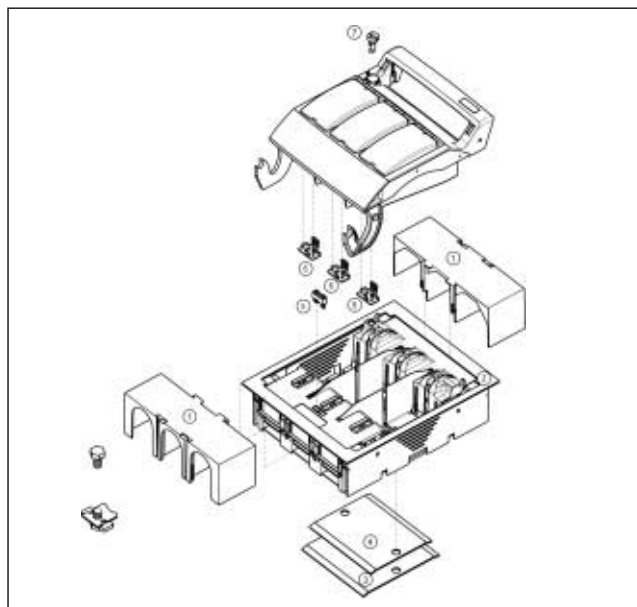
NH-fuse switch-disconnector, size 00, 160A 690V~, 3-pole, disconnecter for mounting on plates

no.	designation	standard	option	accessory
	00 3-pole, terminal with screws M8	•		
	00 3-pole, terminal with clamps Cu 4-70mm ²		•	
1	1 cable cover 3-pole			•
2	2 trim frame in distribution systems, 1 fold			•
3	3 DIN fixing, 125mm			•
4	4 DIN fixing, 150mm			•
5	5 Indicator for lid position			•
6	6 Window locking system against illegal connection			•
7	7 Sealing set			•
8	8 Screw M8			•
9	9 Clamp Cu 4 – 70mm ²			•
10	10 terminal Al/Cu, 1,5 – 70mm ² , 95mm ² se			•



NH fuse switch-disconnector, size 1, 250A 690V~, 3-pole, disconnecter for mounting on plates

no.	designation	standard	option	accessory
	1 3-pole, terminal for 6 screws M10	•		
1	1 cable cover 3-pole			•
2	2 trim frame for mounting in distribution systems, 1 fold 205 x 250mm			•
3	3 DIN fixing for distance, 125mm			•
4	4 DIN fixing for distance, 150mm			•
5	5 Microswitch for lid			•
6	6 Window locking system against illegal connection			•
7	7 Sealing set			•





Switches

ITC switches

Switch-disconnector-fuses ITC for NH-Style fuses – front handle



size	rated current I_N (A)	no. of poles	FS ref.-no.	designation	weight in kg/pce	pack unit
00	63	3	A209898	ITC 63D III 00	1,6	1
00	63	4	B209899	ITC 63D III+N 00	1,9	1
00	63	4	C209900	ITC 63D IV 00	1,9	1
00	160	3	S210788	ITC 160F III 00 CDE Front	1,9	1
00	160	4	T210789	ITC 160 III+N CDE Front	2,4	1
00	160	4	V210790	ITC 160 IV 00 CDE Front	2,4	1
DIN 1	250	3	Q207290	ITC 250D III T1	7	1
DIN 1	250	4	R207291	ITC 250D III+N T1	8	1
DIN 1	250	4	S207292	ITC 250D IV T1	8	1
DIN 2	400	3	T207293	ITC 400D III T2	8	1
DIN 2	400	4	V207294	ITC 400D III+N T2	9	1
DIN 2	400	4	W207295	ITC 400D IV T2	9	1
DIN 3	630	3	X207296	ITC 630D III T3	15,5	1
DIN 3	630	4	Y207297	ITC 630D III+N T3	19	1
DIN 3	630	4	Z207298	ITC 630D IV T3	19	1

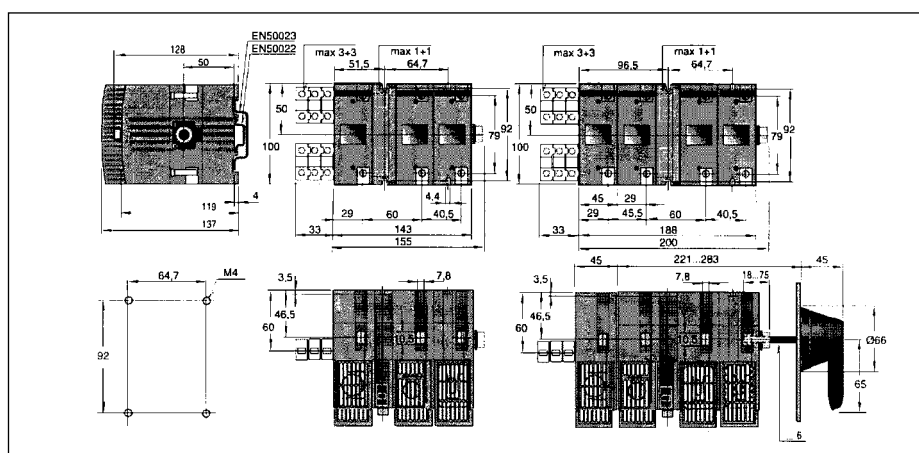
Switch-disconnector-fuses ITC for NH-Style fuses – side handle



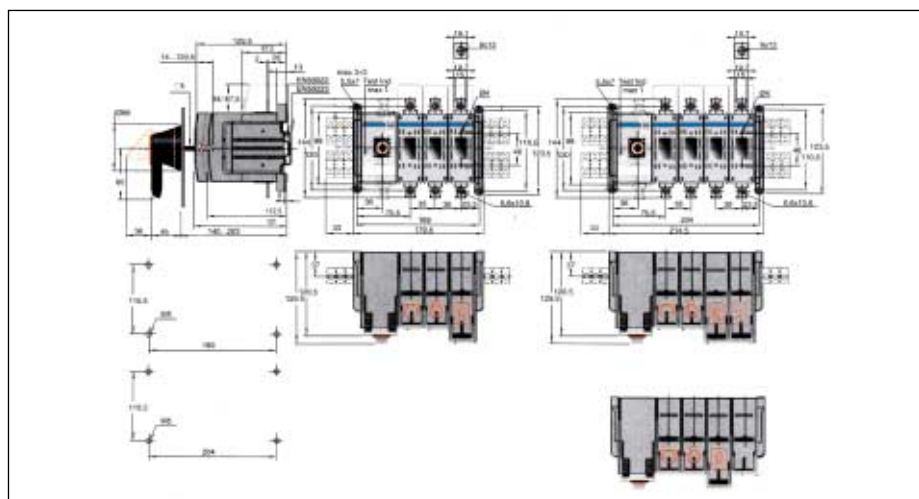
size	rated current I_N (A)	no. of poles	FS ref.-no.	designation	weight in kg/pce	pack unit
00	63	3	F209903	ITC 63DM III 00 CDE LAT	1,6	1
00	63	4	G209904	ITC 63DM III+N 00 CDE LAT	1,9	1
00	63	4	H209905	ITC 63DM IV 00 CDE LAT	1,9	1
00	160	3	W210791	ITC 160M III 00 CDE LAT	1,9	1
00	160	4	Y210793	ITC 160M IV 00 CDE LAT	2,4	1
DIN 1	250	3	E208614	ITC 250DM III T1 CDE LAT	7	1
DIN 1	250	4	F208615	ITC 250DM III+N T1 CDE LAT	8	1
DIN 1	250	4	G208616	ITC 250DM IV T1 CDE LAT	8	1
DIN 2	400	3	H208617	ITC 400DM III T2 CDE LAT	8	1
DIN 2	400	4	J208618	ITC 400DM III+N T2 CDE LAT	9	1
DIN 2	400	4	K208619	ITC 400DM IV T2 CDE LAT	9	1

ITC are switch-disconnector-fuses in compliance with IEC/EN 60947-3. They have a snap-action mechanism which ensures rapide disconnection regardless of how fast the user turns the opening handle and are thus capable of switching inductive currents up to the operating category AC-23 and DC-23. At the same time they comply with the disconnection function and full fuses isolation because of dual interruption per phase.

Terminal tightening torque: 4 to 6Nm
Switch tightening torque: 5 to 7Nm
Section of copper cables: 2,5 to 25mm²



Terminal tightening torque: 15 to 22Nm
Connection: torque 20mm with M8 bolt
Switch tightening torque: 3 to 4Nm



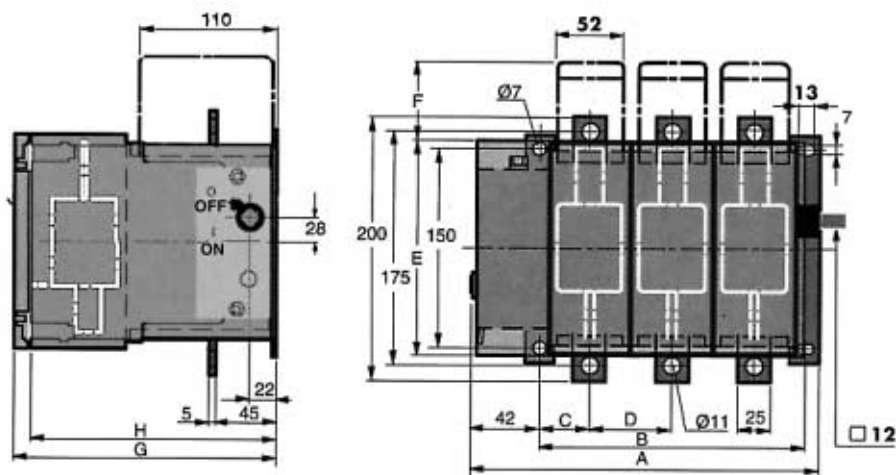
Note: Weights without accessories; tightening torques of switches depend on quality of bolts.



ITC 250/400

	III	III+N	IV
weight in kg	7/8	8/9	8/9
A	262/286	324/356	324/356
B	198/222	260/292	260/292
C	37/41	37/41	37/41
D	62/70	62/70	62/70
E	162/180	162/180	162/180
F	60/51	60/51	60/51
G	199/206	199/206	199/206
H	185/192	185/192	185/192

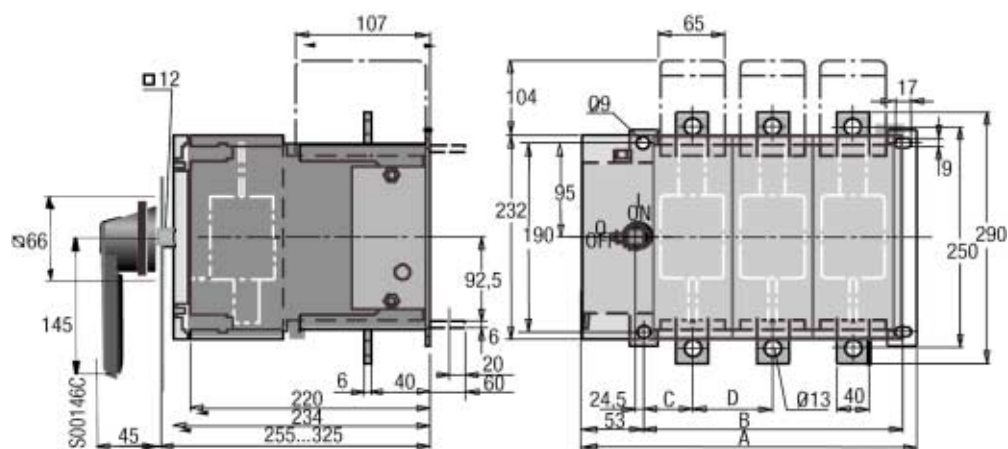
Terminal tightening torque: 30 to 44Nm
 Connection: torque 25mm with M10 bolt
 Switch tightening torque: 5 to 7Nm



ITC 630

	III	III+N	IV
weight in kg	15,5	19	19
A	343	423	423
B	278	358	358
C	59	59	59
D	80	80	80

Terminal tightening torque: 50/75Nm
 Connection: torque 40mm with M12 bolt
 Switch tightening torque: 5 to 7Nm



Note: Weights without accessories; tightening torques of switches depend on quality of bolts



Switch-disconnector-fuses for NH-fuses ITC 63-160-250-400-630A

Control:

side or front, padlockable,
in OFF-position by 3 padlocks,
safe and reliable indication of contact position,
on handles

Interruption:

Dual interruption per phase,
complete isolation of fuse in open circuit,
on-load opening and closing: AC 23 and DC 23,
interrupting power: 25kA A 50 kA,
isolation voltage: 1000V

Mechanism:

SNAP

Fixing:

on DIN rail ITC 63A and ITC 160A
on panel board ITC 63A and ITC 160A

Construction:

complying with IEC 947 1 & 3 and EN 60 947
protection index IP 2X
suitable for all climate types
silver-plated copper contacts
isolating partitions in material as per UL 94 V0
pre-isolating and blown-fuse indication accessories

Main electrical characteristics

size			ITC 63A	ITC 160A	ITC 250A	ITC 400A	ITC 630A
rated operational current at ambient	40°C (1)	I_{th}	63	160	250	400	630
rated operational current under cover	40°C	I_{the}	63	160/135	230	360	570
rated insulation voltage (U_i), pollution class 3		V	1000	1000	1000	1000	1000
rated operational voltage AC-20 DC-20		V	1000	1000	1000	1000	1000
rated impulse withstand voltage		kV	12	12	12	12	12
fuse size		DIN	00/000	00/000	1	2	3
max. power dissipation /fuses at I_{th} (2)		W	7,5	12/10 I_{the}	32/27 I_{the}	45/37 I_{the}	60/50 I_{the}
RMS prospective short-circuit current with aM or gG							
class Ferraz Shawmut fuses		kA	50	100	100	100	100
fuse rating		A	63	160	250	400	630
permissible peak-through current		kA	14	14	35	35	60
rated operating current AC-21-A and AC-22-A	≤ 500V	A	63	160	250	400	630
	690V	A	63	160	250	400	630
rated operating current AC-23-A	≤ 500V	A	63	100	250	400	630
	690V	A	63*	160	250	400	630
rated operating power AC-23 in kW with a 3-phase	400V	kW	30	80	132	210	315
1500rpm standard asynchronous motor at	500V	kW	37	110	170	280	400
	690V	kW	60	132	230	330	540
AC-23 interrupting rating: I_c A at $\cos\phi = 0,35$	≤ 500V	A	504	800	2000	3200	5760
under rated operating voltage (U_e)	690V	A	504	800	2000	3200	5760
DC-23-A rating operating current/poles	110-220V	A	63/3	160/2	250/2	400/2	630/3
in series **for	400V	A	63/4*	125/4*	250/2	400/2	630/2
	500-750V	A	–	–	250/3	400/3	630/3
RMS permissible short duration (1.5) rated current		kA	2,5	5	8	10	16
mechanical endurance: operation cycles number							
(1 cycle = 1 opening + 1 closing of contacts)			10000	10000	8000	8000	5000
electrical endurance: operation cycles number	≤ 500V		–	1000	–	–	–
at I_e and $\cos\phi$ 0.65	690V		–	–	1000	1000	1000
power dissipation per pole		W	4	9	11	30	55

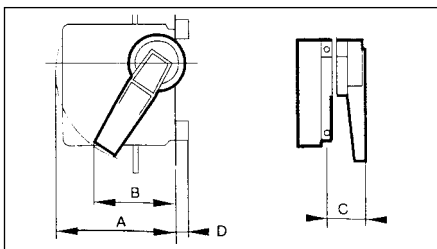
(1) for ambient temperature 50°C: x 0.9 - 60°C: x 0.8; for horizontal fuse: x 0.9

(2) Value for the conventional thermal for current at ambient (I_{th}) and for current under cover (I_{the}), e.g.: box of protection

*) use in class B

**) to be achieved by user

Microswitches references and characteristics



Outside control handle bulk



Figure 1

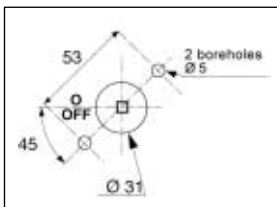


Figure 2

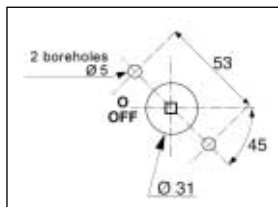
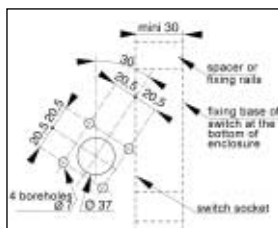
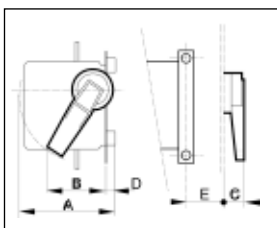


Figure 3



The diagram consists of a light blue rectangular area. A diagonal line runs from the bottom-left corner to the top-right corner. The text "FS ref.-no." is written in the bottom-left corner. The text "minimum of safe operation" is written in the middle of the diagonal line. The text "maximum of operation in AC 12" is written in the top-right corner.

single-standard microswitch and twin-standard microswitch

H209882	24V AC/DC 25mA	690V 2A $\cos \varphi = 0,9$
L207493	24V AC/DC 25mA	690V 2A $\cos \varphi = 0,9$
S086588	24V AC/DC 25mA	690V 2A $\cos \varphi = 0,9$
L097300	24V AC/DC 25mA	690V 2A $\cos \varphi = 0,9$

single microswitch: aggressive atmosphere
or connection with a programmable machine

J208020	24V AC/DC 10mA	690V 2A $\cos \varphi = 0,9$
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single-standard microswitch

Blown-fuse indicator microswitches	24V AC/DC 10mA	690V 2A $\cos \varphi = 0,9$
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Isolating padlockable inside front handle.

FS ref.no.	switch model	A mm	B mm	C mm	D mm	weight in kg
E210109	ITC 63D	50	70	20	XX	0,15

Isolating padlockable inside side handle.

FS ref.-no.	switch model	A mm	B mm	C mm	D mm	weight in kg
T090936	ITC 250	202	170	100	30	1,2
T090936	ITC 400	202	170	100	30	1,2

Isolating padlockable outside cubicle front handle.

FS ref.-no.	switch model	A mm	B mm	C mm	D mm	L mm	■ mm	weight in kg	Fig.
M209909	ITC 63D	–	–	45	–	80	6	0,1	1
black	ITC 160	–	–	45	–	80	6	0,1	1
N209910	ITC 63D	–	–	45	–	80	6	0,1	1
red-yellow	ITC 160	–	–	45	–	80	6	0,1	1
Q209912	ITC 250D	–	–	45	–	145	12	0,2	1
black	ITC 400D	–	–	45	–	145	12	0,2	1
	ITC 630D	–	–	45	–	145	12	0,2	1
R209913	ITC 250D	–	–	45	–	145	12	0,2	1
red-yellow	ITC 400D	–	–	45	–	145	12	0,2	1
	ITC 630D	–	–	45	–	145	12	0,2	1

Isolating padlockable outside cubicle side handle.

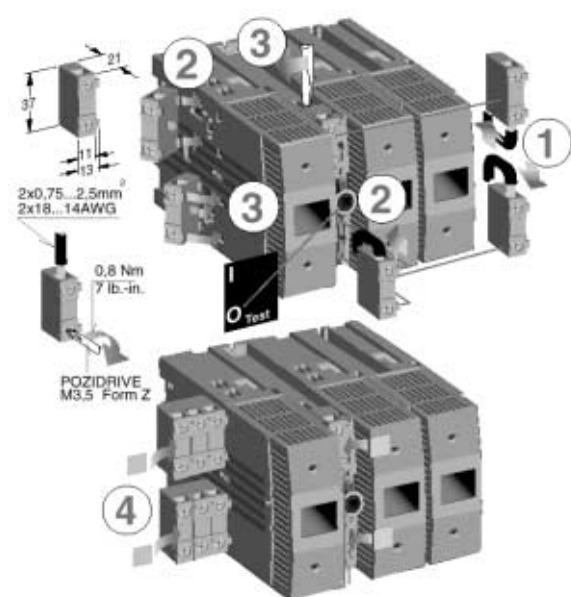
FS ref.-no.	switch model	A mm	B mm	C mm	D mm	L mm	■ mm	weight in kg	Fig.
D210085	ITC 63DS	–	–	45	–	80	6	0,1	2
black	ITC 160M	–	–	45	–	80	6	0,1	2
E210086	ITC 63DS	–	–	45	–	80	6	0,1	2
red-yellow	ITC 160M	–	–	45	–	80	6	0,1	2
Y090940	ITC 250DM	202	170	55	30	145	12	0,75	3
	ITC 400DM	202	170	55	30	145	12	0,75	3

Accessories

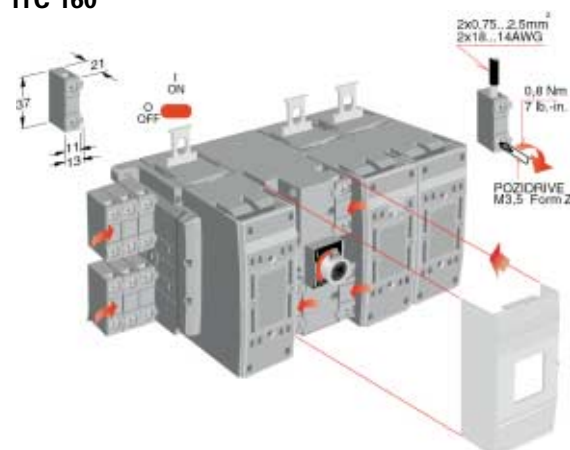
Pre-isolating microswitch single microswitch 1 One contact (NO) or (NC) 2 Reversing (NO/NC) 3 Single micro (NO/NC) twin microswitch 4 2 reversing (NO/NC) 5 2x2 single micro (NO/NC) low voltage 6 2x2 single micro (NO/NC)	finger safe protection	finger safe protection	Inside handle padlockable supplied with shaft.	Outside handle padlockable supplied with shaft.	Axle extension The maximum distance between the handle and the machine is -60mm compare with the shaft length L	Fuse size and current rating		Control
Ref.-no.	Ref.-no.	Ref.-no.	Ref.-no.	Ref.-no.	Ref.-no.	size	poles	
H209882 1 (NC)* L207493 1 (NO)*	built-in	built-in	E210109	M209909 (N209910)	B210106 (L = 290mm)	00 63A	III III+N IV	front handle
H209882 1 (NC)* L207493 1 (NO)*	N210807 (1/connection)	built-in	take the outside handle with a protection partition against fuses touching	M209909 (N209910)	C210107 (L = 430mm)	00 160A IV	III III+N	front handle
S086588 3 L097300 5 J208020 6	M096657 (1/connection)	G207305 H207306 H207306	take the outside handle with a protection partition against fuses touching	Q209912 (R209913)	L097093 (L = 395mm)	DIN1 250A IV	III III+N	front handle
S086588 3 L097300 5 J208020 6	M096657 (1/connection)	J207307 K207308 K207308	take the outside handle with a protection partition against fuses touching	Q209912 (R209913)	L097093 (L = 395mm)	DIN2 400A IV	III III+N	front handle
S086588 3 L097300 5 J208020 6	S095880 (1/connection)	L207309 M207310 M207310	take the outside handle with a protection partition against fuses touching	Q209912 (R209913)	L097093 (L = 395mm)	DIN3 630A IV	III III+N	front handle
H209882 1 (NC)* L207493 1 (NO)*	built-in	built-in	Take the outside front handle	D210085 (E210086)	B210106 (L = 290mm)	00 63A	III III+N IV	side handle
H209882 1 (NC)* L207493 1 (NO)*	N210807	built-in	Take the outside front handle	D210085 + E210454 (E210086 + E210454)	C210107 (L = 430mm)	00 160A	III III+N IV	side handle
S086588 3 L097300 5 J208020 6	M096657 (1/connection)	G207305 H207306 H207306	T090936 (red)	Y090940 (red)	P092979 (L = 465mm)	DIN1 250A	III III+N IV	side handle
S086588 3 L097300 5 J208020 6	M096657 (1/connection)	J207307 K207308 K207308	T090936 (red)	Y090940 (red)		DIN3 630A	III III+N IV	side handle

Mounting instructions

ITC 63



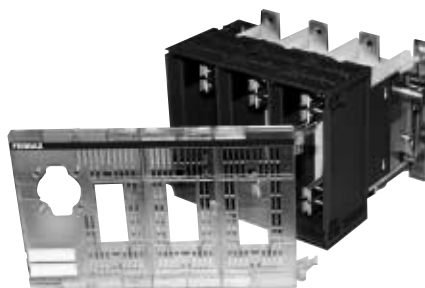
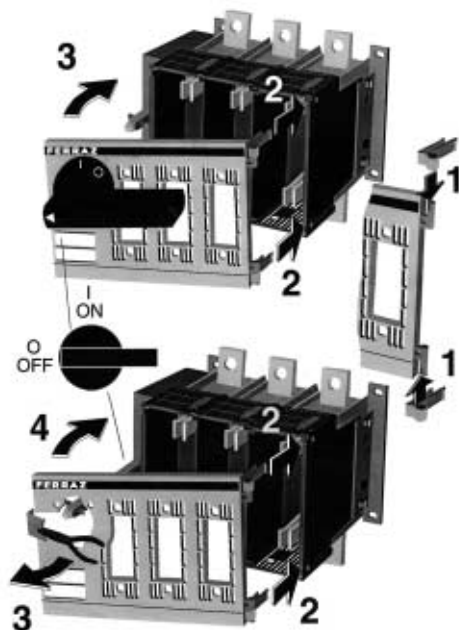
ITC 160





Mounting instructions

ITC 250D-630D



Pre-isolation microswitch



Blown fuse microswitch

