

① TRANSFORMER OUTPUT

- Isolating at installation transformer as per NF C 13 100 (visible breaking).
- General protection of installation against overcurrent and indirect contact.
- Special protection against transformer overload, linked either to transformer sensor or with dedicated thermal relay.

② SECTION FEEDERS

- Isolation.
- Protection against overcurrent and indirect contact.
- Control or maintenance switching.

③ INCOMERS

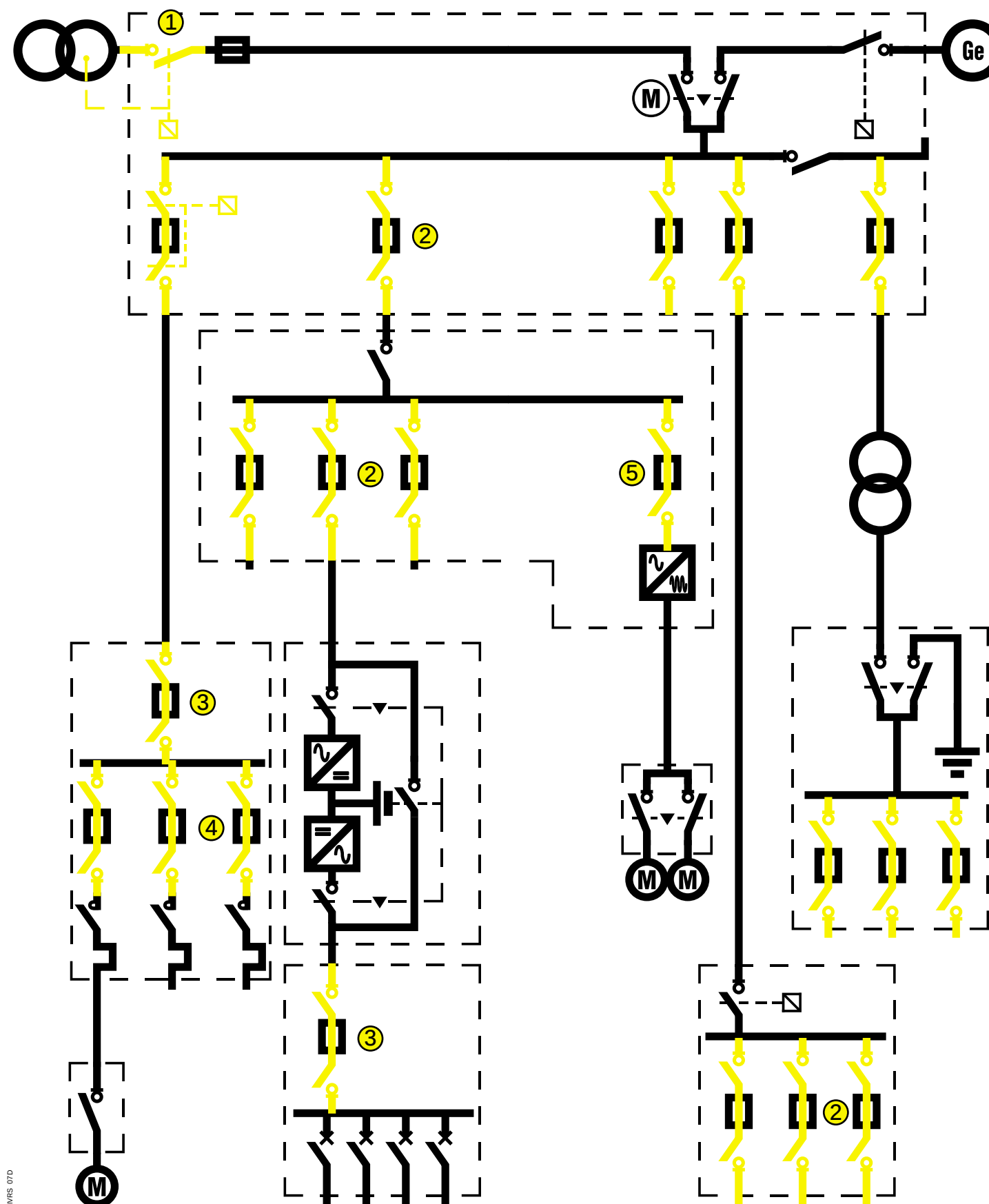
- General switching of equipment (machine enclosure) independently from the installation feeders.
- On load breaking without association of disconnecter-contactor switch.

④ MOTOR CIRCUITS

- Isolation.
- Protection against short circuits.
- Control or maintenance switching.

⑤ SEMI-CONDUCTOR PROTECTION

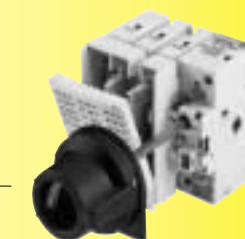
- Isolation.
- Protection for power semi-conductors at distribution level.



Compact Design fuse combination switches FUSERBLOC CD

- 3, 4, 6 or 8 poles
- from 20 to 32 A
- test position

② ③ ④ page 72



Modular fuse combination switches FUSERBLOC

- 3, 4, 6 or 8 poles
- from 32 to 400 A
- test position

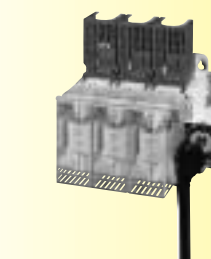
② ③ ④ page 76



Monobloc fuse combination switches FUSERBLOC V

- 3 or 4 poles
- from 630 to 1250 A

② ③ ④ page 76



FUSERBLOC UR Semi-conductor protection

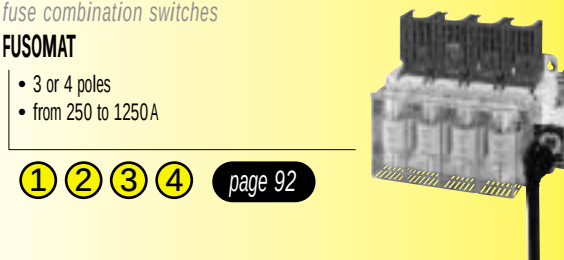
- 3 or 4 poles
- from 50 to 1250 A
- test position

⑤ page 85

Remote trip fuse combination switches FUSOMAT

- 3 or 4 poles
- from 250 to 1250 A

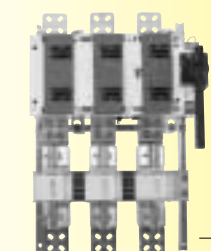
① ② ③ ④ page 92

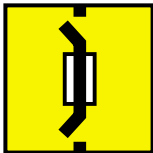


Remote trip switch fuses SIDERMAT COMBINATION

- 3 or 4 poles
- from 630 to 1800 A

① ② ③ ④ page 96





FUSERBLOC CD 20 to 32 A

Compact Design fuse combination switches

IEC
947-3

BS88 FUSERBLOC CD FUSE COMBINATION SWITCHES (I-O-TEST) OPERATION



BS Standard fuse switch
+ external handle

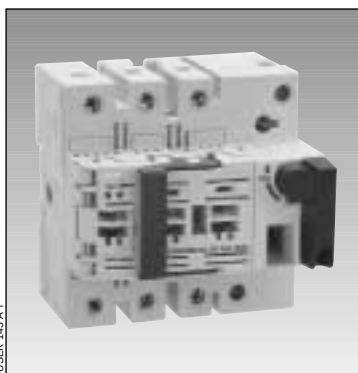
Switch Type	Frame Size	AC22/A 400 V	AC23/A 400 V	AC23/kW 400 V	No of Poles	BS Fuse size	Reference Number
CD	0	20	20	9	3	A1	3641 3000
					3P + switch Neutral		3641 4000
					3P + solid Neutral		3641 5000
	0	32	32	15	3	A1	3641 3001
					3P + switch Neutral		3641 4001
					3P + solid Neutral		3641 5001

ORDERING GUIDE

Please note the following items need to be ordered separately:

SWITCH BODY
HANDLE
SHAFT EXTENSION
AUXILIARY CONTACT(S) } See Accessories

NF FUSERBLOC CD FUSE COMBINATION SWITCHES (I-O-TEST) OPERATION



NF Standard fuse switch
+ direct handle

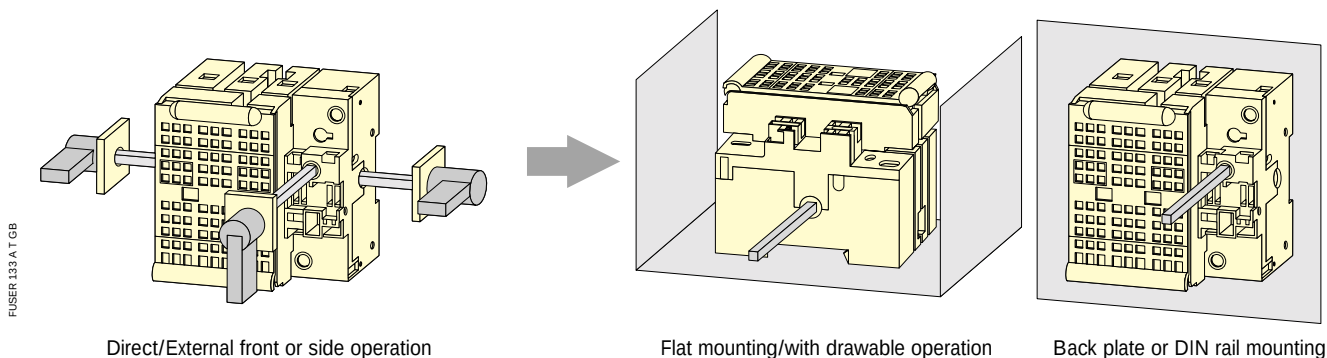
Switch Type	Frame Size	AC22/A 400 V	AC23/A 400 V	AC23/kW 400 V	No of Poles	NF Fuse size	Reference Number
CD	0	25	25	11	3	10x38	3631 3002
					3P + switch Neutral		3631 4002
					3P + solid Neutral		3631 5002
	0	32	32	15	3	10x38	3631 3003
					3P + switch Neutral		3631 4003
					3P + solid Neutral		3631 5003
	0	32	32	15	3	14x51	3631 3004
					3P + switch Neutral		3631 4004
					3P + solid Neutral		3631 5004

ORDERING GUIDE

Please note the following items need to be ordered separately:

SWITCH BODY
HANDLE
SHAFT EXTENSION
AUXILIARY CONTACT(S) } See Accessories

ONE SWITCH FOR ALL APPLICATIONS



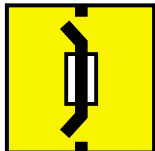
Direct/External front or side operation

Flat mounting/with drawbar operation

Back plate or DIN rail mounting



NOTES: Standard switch suitable for direct external front or side operation.
See accessories for appropriate shafts and handles



FUSERBLOC CD 20 to 32 A

Compact Design fuse combination switches

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FUSERBLOC CD ACCESSORIES

DIRECT PADLOCKABLE HANDLE - FRONT OPERATION

Handle Type	Test Position	Colour	Reference No
Direct	yes	black red/yellow	3629 4012 3629 4013

DOOR INTERLOCKED PADLOCKABLE HANDLES

Handle Type	Operation	Test Position	Defeatable	Colour	IP Rating	Reference Number
Selector	I/ON - 0/OFF	no	no	black red/yellow	65 65	2419 0311 2419 0411
Rotary	I/ON - 0/OFF	no	no	black red/yellow	54 54	2419 1011 2419 1111
		no	yes	black red/yellow	54 54	2419 0811 2419 0911
	I/ON - 0/OFF - T/TEST	yes	yes	black red/yellow	54 54	3629 4022 3629 4023
Pistol	I/ON - 0/OFF	no	yes	black red/yellow	54 65	3629 7706 3629 7408
	I/ON - 0/OFF - T/TEST	yes	yes	black red/yellow	65 65	3629 7307 3629 7308

DOOR INTERLOCKED CHANGEOVER HANDLES

Handle Type	Operation	Defeatable	Colour	IP Rating	Reference No
Rotary Changeover	I/ON - 0/OFF - II/ON	no	black red/yellow	54 54	4199 0811 4199 0911
Pistol Changeover	I/ON - 0/OFF - II/ON	yes	black red/yellow	54 54	4199 7307 4199 7308

SHAFT EXTENSION

Handle Type	Shaft Length	Max. back plate to door	Reference No
Selector ⁽¹⁾	200 mm 320 mm 400 mm	248 mm 368 mm 448 mm	379M 0520 379M 0532 379M 0540
Rotary ⁽¹⁾	200 mm 320 mm 400 mm	248 mm 368 mm 448 mm	379D 0521 379D 0533 379D 0541
Pistol ⁽¹⁾	200 mm 320 mm 400 mm	237 mm 357 mm 437 mm	379G 0520 379G 0532 379G 0540

AUXILIARY CONTACTS - PRE BREAK AND SIGNALISATION

Contact Type	Suit to Switch	Description	Contact	Current (A)	Reference No
U type ⁽³⁾	20 - 32 A	Contact holder ⁽²⁾ Configurable contact block (U2) ⁽⁴⁾	1 NO 1 NC	10 10	3999 0710 3999 0701 3999 0702
A type	20 - 32 A	Microswitch for direct and side operation only	1 NO/NC 2 NO/NC	10 10	3999 0001 3999 0002

CASTELL KEY INTERLOCKING ACCESSORIES (CASTELL LOCK NOT INCLUDED)

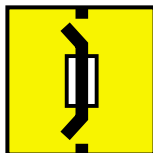
Castell Type	Suit to Switch	Description	Reference No
FS	20 - 32 A	For use with selector, rotary and pistol handle	3629 7703
K		For use with selector, rotary and pistol handle	3629 7702

CONVERSION KIT FOR CHANGEOVER

Type	Description	Reference No
Changeover 3 & 4-pole	Coupling device to enable 2 switches to work together	3629 7710

- NOTES:
1. Shaft extensions suitable for external front or side operation.
 2. U type contact block holder for additional auxiliaries from 5 to max 8 (max 2 blocks high).
 3. U type auxiliary contacts cannot be used with direct operation.
 4. Please note 3999 0701 & 3999 0702 have replace references 3999 0501 & 3999 0502.





FUSERBLOC CD 20 to 32 A

Compact Design fuse combination switches

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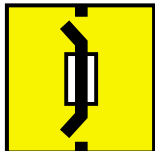
ELECTRICAL & MECHANICAL CHARACTERISTICS

According to IEC 947-3, EN60947-3, BS EN90947-3

Thermal current I _{th} (40° C)	20 A	25 A	32 A	32 A
BS88 fuse size	A1	-	-	A1
NF/DIn fuse size	-	10 x 38	10 x 38	14 x 51
Type switch disconnecter fuses	CD	CD	CD	CD
Rated insulation voltage U _i (V)	800	800	800	800
Rated impulse withstand voltage U _{imp} (KV)	8	8	8	8
Dielectric strength (V) 50 Hz 1 min	3500	3500	3500	3500
Rated operational current I _e (A)				
AC 23B 400 V	20	25	32	32
Motor 500 V	20	25	32	32
690 V	20 ⁽³⁾	25 ⁽³⁾	32 ⁽³⁾	32
AC 22B 400 V	20	25	32	32
Distribution 500 V	20	25	32	32
690 V	20 ⁽³⁾	25 ⁽³⁾	32 ⁽³⁾	32
DC 20B 260 V	20	25	32	32
DC 21B	20 ⁽²⁾	25 ⁽²⁾	32 ⁽²⁾	32 ⁽²⁾
DC 22B	20 ⁽²⁾	25 ⁽²⁾	32 ⁽²⁾	32 ⁽²⁾
DC 23B	20 ⁽²⁾	20 ⁽²⁾	20 ⁽²⁾	20 ⁽²⁾
Operational power - AC 23B (kW)				
400 V without pre break aux. contact	9	11	15	15
500 V without pre break aux. contact	11	15	18.5	18.5
690 V without pre break aux. contact	15	22	25	25
Reactive power 400 V AC (kVAR)	10	10	13	13
Conditional short circuit current				
Short-circuit making capacity with fuses (A)	20	25	32	32
NF gG (kA rms)	-	100	100	100
BS 88 (kA rms)	80	-	-	80
Fuse switch cut-off current (kA peak)	6.5	6.5	6.5	6.5
Short circuit current (kA rms presumed)	80	100	100	100/80
Fuse selection (BS) (Maximum fuse size)				
SOCOMEK				
Standard max	6A10 0020	6012 0025	6012 0032	6A10 0032
Motor max	6A1M 0032	6013 0025	6013 0032	6A1M 0063 ⁽¹⁾
BUSSMAN				
Standard max	NITD20	-	-	NITD32
Motor max	NITD20M32	-	-	NITD32M63 ⁽¹⁾
GEC				
Standard max	NIT 20	-	-	NET 32
Motor max	NIT 20M32	-	-	NET 32M63 ⁽¹⁾
LAWSON				
Standard max	NIT 20	-	-	NIT 32
Motor max	NIT 20M32	-	-	-
Making and breaking characteristics				
Breaking capacity : 400 V AC23B (A)	160	200	256	256
Making capacity : 400 V AC23B (A)	200	250	320	320
Mechanical endurance (number of operation)	20000	20000	20000	20000
Operating force (Nm)	2.5	2.5	2.5	2.5
Maximum torque settings (Nm)				
On terminal bolt	2	2	2	2
On fuse bolt	1.6	-	-	1.6
On shaft securing bolt	1.5	1.5	1.5	1.5
Connection (cooper) According to IEC 947-3				
Minimum at I _{th} (mm ²) (According to IEC 947-3)	2.5	2.5	2.5	2.5
Maximum cables at I _{th} (mm ²)	16	16	16	16
Weight (kg)				
3-pole switch	0.48	0.48	0.48	0.5
4-pole switch	0.5	0.5	0.5	0.52



- NOTES: 1. Please ensure that the cut-off current of the fuse links does not exceed the value given for the fuse switch.
2. Two poles in series on negative (-), one pole on positive (+)
3. 690 V ratings apply when solid links are used.



FUSERBLOC CD 20 to 32 A

Compact Design fuse combination switches

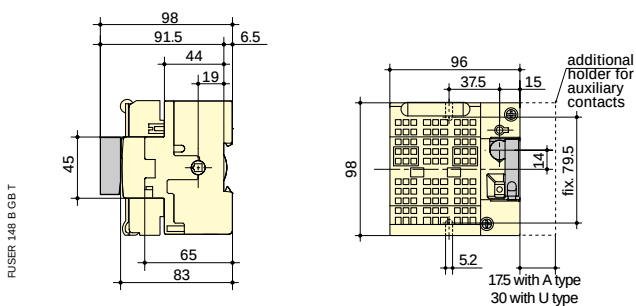


IEC
947-3

DIMENSIONS

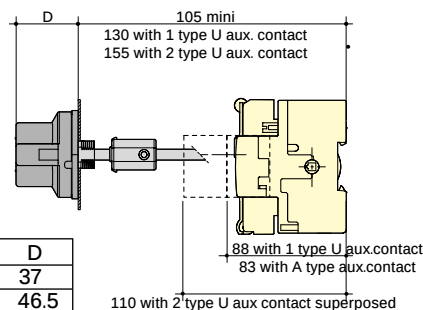
FUSERBLOC CD : 20 - 32 A SIZE A1 & 14 x 51

Direct operation



FUSER 148 B GB T

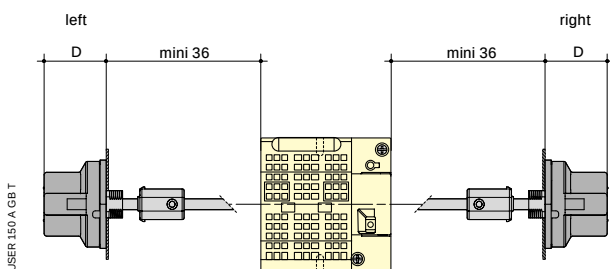
External front operation



FUSER 148 B GB T

Handle type	D
Selector	37
Rotary	46.5
Pistol	70

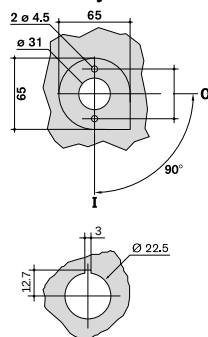
Side operation



FUSER 150 A GB T

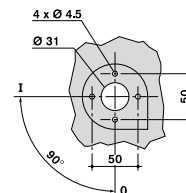
Door drilling

Rotary handle



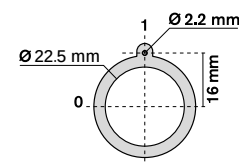
SIRCO 040 A GB T

Pistol handle



SIRCO 030 B GB T

Selector handle

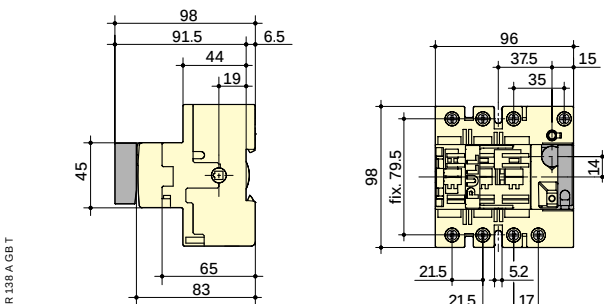


SIRCO A GB T

Door drilling with M22 threaded barrel

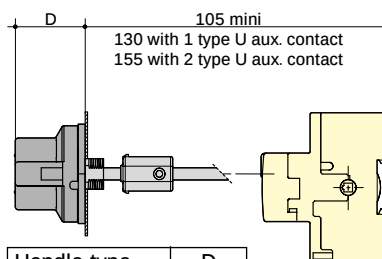
FUSERBLOC CD : 25 - 32 A SIZE 10 x 38

Direct operation



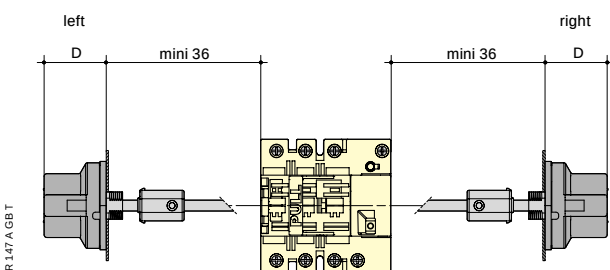
FUSER 138 A GB T

External front operation



Handle type	D
Selector	37
Rotary	46.5
Pistol	70

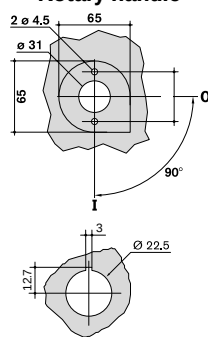
Side operation



FUSER 147 A GB T

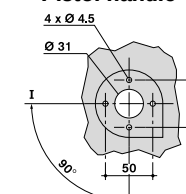
Door drilling

Rotary handle



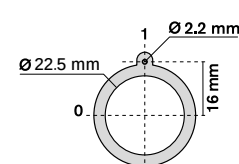
SIRCO 040 A GB T

Pistol handle



SIRCO 030 A GB T

Selector handle

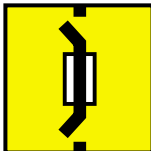


SIRCO A GB T

Door drilling with M22 threaded barrel

NOTES: U type auxiliary contacts: maximum 2 blocks high.
Mounting orientation: rotation of some devices may be limited. Please consult our application guide.





FUSERBLOC 20 to 1250 A BS 88

Fuse combination switches

IEC
947-3

BS88 STANDARD FUSE COMBINATION SWITCHES (I - 0) - EXTERNAL FRONT OPERATION

SWITCH BODY + IP20 FUSE
SHROUD + BOLT SETS



FUSER 122 A.T

ORDERING GUIDE

Please note the following items need to be ordered separately:

FUSERBLOC FUSE SWITCH

STANDARD HANDLE

SHAFT EXTENSION

TERMINAL SHROUD(S)

AUXILIARY CONTACTS

See Accessories
page 82 - 84

Switch Type	Frame Size	AC22/A 415 V	AC23/A 415 V	AC23/kW 415 V	No of Poles	BS 88 Fuze size	Reference Number
CD see page 72	0	20	20	9	3	A1	3641 3000
					3P + switch Neutral		3641 4000
					3P + solid Neutral		3641 5000
Modular	0	32	32	15	3	A1	3641 3001
					3P + switch Neutral		3641 4001
					3P + solid Neutral		3641 5001
	1	32	32	15	3	A1	3621 3003
					4		3621 6003
	2	63	63	30	3	A2-A3	3621 3006
					4		3621 6006
	3a	63 compact	63	30	3	A3	3621 3007
					4	max Ø 31 mm	3621 6007
	2a	80	80	45	3	A3	3621 3008
					4		3621 6008
	3	100	100	55	3	A4	3621 3010
					4	max Ø 31 mm	3621 6010
	3a	160 compact	160	80	3	A3-A4	3621 3014
					4	max Ø 31 mm	3621 6014
Monobloc	4	160	160	80	3	A4	3621 3015
					4		3621 6015
	4	160	160	80	3	B1-B2	3621 3016
					4		3621 6016
	3a	200 compact	200	90	3	A3-A4	3621 3019
					4	max Ø 31 mm	3621 6019
	5	200	200	110	3	B1-B2	3621 3021
					4		3621 6021
	5	250	250	140	3	B1-B3	3621 3024
					4		3621 6024
	6	315	315	160	3	B1-B3	3621 3032
					4		3621 6032
	6	400	400	220	3	B1-B4	3621 3039
					4		3621 6039
	7	630	630	375	3	C1-C2	3620 3064
					4		3620 6064
					3P + solid Neutral		3620 5064
	8	800	800	475	3	C1-C3	3620 3080
					3P + switch Neutral		3620 4080
					3P + solid Neutral		3620 5080
	9**	1250	1000	600	3	D1	3620 3121
					3P + switch Neutral		3620 4121
					3P + solid Neutral		3620 5121

** Please note only single break on top of the fuse, pay attention to line & load connections.

BS88 STANDARD TEST POSITION FUSE COMBINATION SWITCHES (I - 0 - TEST) - EXTERNAL FRONT OPERATION

TEST SWITCH BODY + IP20 FUSE
SHROUD + BOLT SETS



FUSER 245 A

ORDERING GUIDE

Please note the following items need to be ordered separately:

FUSERBLOC FUSE SWITCH

STANDARD HANDLE

SHAFT EXTENSION

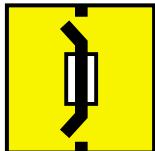
TERMINAL SHROUD(S)

AUXILIARY CONTACTS

See Accessories
page 82 - 84

Switch Type	Frame Size	AC22/A 415 V	AC23/A 415 V	AC23/kW 415 V	No of Poles	BS 88 Fuze size	Reference Number
CD see page 60	0	20	20	9	3	A1	3641 3000
					3P + switch Neutral		3641 4000
					3P + solid Neutral		3641 5000
Modular	0	32	32	15	3	A1	3641 3001
					3P + switch Neutral		3641 4001
					3P + solid Neutral		3641 5001
	1	32	32	15	3	A1	3641 3003
					4		3641 6003
	2	63	63	30	3	A2-A3	3641 3006
					4		3641 6006
	3a	63 compact	63	30	3	A3	3641 3007
					4		3641 6007
	2a	80	80	45	3	A3	3641 3008
					4		3641 6008
	3	100	100	55	3	A4	3641 3010
					4	max Ø 31 mm	3641 6010
	3a	160 compact	160	80	3	A3-A4	3641 3014
					4	max Ø 31 mm	3641 6014
	4	160	160	80	3	A4	3641 3015
					4		3641 6015
	4	160	160	80	3	B1-B2	3641 3016
					4		3641 6016
	3a	200 compact	200	90	3	A3-A4	3641 3019
					4	max Ø 31 mm	3641 6019
	5	200	200	110	3	B1-B2	3641 3021
					4		3641 6021
	5	250	250	140	3	B1-B3	3641 3024
					4		3641 6024
	6	315	315	160	3	B1-B3	3641 3032
					4		3641 6032
	6	400	400	220	3	B1-B4	3641 3039
					4		3641 6039

NOTES: - IP20 Fuse shroud & Bolt sets for fuses supplied as standard
- Other variations available please consult us
- All of the above mentioned Fuse Switches are certified to IEC 947-3



FUSERBLOC 20 to 1250 A BS 88

Fuse combination switches

IEC
947-3

BS88 STANDARD FUSE COMBINATION SWITCHES (I - 0) - SIDE & DIRECT OPERATION

SWITCH BODY + IP20 FUSE
SHROUD + BOLT SETS



FUSER 242A

ORDERING GUIDE

Please note the following items need to be ordered separately:

FUSERBLOC FUSE SWITCH

STANDARD HANDLE

SHAFT EXTENSION

TERMINAL SHROUD(S)

AUXILIARY CONTACTS

See Accessories
page 82 - 84

Switch Type	Frame Size	AC22/A 415 V	AC23/A 415 V	AC23/kW 415 V	No of Poles	BS 88 Fuze size	Reference Number
CD	0	20	20	9	3	A1	3641 3000
					3P + switch Neutral		3641 4000
					3P + solid Neutral		3641 5000
Modular	0	32	32	15	3	A1	3641 3001
					3P + switch Neutral		3641 4001
					3P + solid Neutral		3641 5001
	1	32	32	15	3	A1	3625 3003
					4		3625 6003
	2	63	63	30	3	A2-A3	3625 3006
					4		3625 6006
	3a	63 compact	63	30	3	A3	3625 3007
					4		3625 6007
	2a	80	80	45	3	A3	3625 3008
					4		3625 6008
	3	100	100	51	3	A4	3625 3010
					4	max Ø 31 mm	3625 6010
	3a	160 compact	160	80	3	A3-A4	3625 3014
					4	max Ø 31 mm	3625 6014
	4	160	160	80	3	A4	3625 3015
					4		3625 6015
	4	160	160	80	3	B1-B2	3625 3016
					4		3625 6016
	3a	200 compact	200	80	3	A3-A4	3625 3019
					4	max Ø 31 mm	3625 6019
	5	200	200	100	3	B1-B2	3625 3021
					4		3625 6021
	5	250	250	132	3	B1-B3	3625 3024
					4		3625 6024
	6	315	315	160	3	B1-B3	3625 3032
					4		3625 6032
	6	400	400	220	3	B1-B4	3625 3039
					4		3625 6039

Please consult us for ratings from 630 to 1250 A

FULLY RATED INTEGRATED NEUTRAL LINK FOR BS MODULAR FUSE SWITCHES



FUSER 110 A T

Neutral Rating (A)	Switch Frame Size	Reference No
100	1, 2 & 3	3629 9320
200	2a, 3a	3629 9319
200	4	3629 9321
250	5	3629 9331
400	6	3629 9340

Unswitched neutral link to fit around switch external operation.

See note 1

SHROUDED NEUTRAL MODULE FOR BS STANDARD FUSE SWITCHES

UNSWITCHED FOURTH
POLE WITH NEUTRAL LINK &
FUSE SHROUD

Switch Type	Maximum Current (A)	Frame Size	Phase Centre	Reference No
Modular	32	1	27 mm	3629 9227
	63	2	32 mm	3629 9232
	100	3	36 mm	3629 9236
	200	3a	36 mm	3629 9237
	160	4	50 mm	3629 9250
	250	5	60 mm	3629 9260
	400	6	66 mm	3629 9266

SOLID LINKS FOR BS STANDARD FUSE SWITCHES

TO BE USED IN PLACE
OF FUSE LINK

Switch Type	Maximum Current (A)	BS 88 Fuse Size	Reference No
Modular	32	A1	3629 9003
	63	A2 - A3	3629 9006
	160	A4	3629 9010
	200	B1 - B2	3629 9016
	315	B1 - B3	3629 9025
	400	B4	3629 9040
	800	C1 - C3	3629 9063
Monobloc	1250	D1	3629 9120

NOTES: 1. Cannot be used with U type aux. contact. For front operated switches only





FUSERBLOC 32 to 1250 A BS 88

Fuse switches

IEC
947-3

FUSERBLOC BS 6 & 8 POLE FUSE COMBINATION SWITCHES (I-0) - EXTERNAL FRONT OPERATION



FUSER 033 AT

ORDERING GUIDE

Please note that the following items need to be ordered separately:

6 OR 8 POLE FUSE SWITCH

STANDARD HANDLE

SHAFT EXTENSION

TERMINAL SHROUD(S)

AUXILIARY CONTACTS

See Accessories
page 82 - 84

Switch Type	Frame Size	AC22/A 415 V	AC23/A 415 V	AC23/kW 415 V	No of Poles	BS88 Fuse	Reference Number
Modular	1	32	32	15	6	A1	3621 6P03
					8		3621 8P03
	2	63	63	30	6	A2 - A3	3621 6P06
					8		3621 8P06
	3a	63	63	30	6	A3	3621 6P07
					8		3621 8P07
	2a	80	80	45	6	A3	3621 6P08
					8		3621 8P08
	3	100	100	55	6	A4	3621 6P10
					8		3621 8P10
	3a	160	160	80	6	A3-A4	3621 6P14
					8	max. Ø 31 mm	3621 8P14
	4	160	160	80	6	A4	3621 6P15
					8		3621 8P15
	4	160	160	80	6	B1 - B2	3621 6P16
					8		3621 8P16
	3a	200 compact	200	110	6	A3-A4	3621 6P19
					8	max. Ø 31 mm	3621 8P19
	5	200	200	110	6	B1 - B2	3621 6P21
					8		3621 8P21
	5	250	250	160	6	B1 - B3	3621 6P24
					8		3621 8P24
	6	315	315	160	6	B1 - B3	3621 6P32
					8		3621 8P32
	6	400	400	230	6	B1 - B4	3621 6P39
					8		3621 8P39



IEC
947-3

Switch Type	Frame Size	AC22/A 415 V	AC23/A 415 V	AC23/kW 415 V	No of Poles	BS88 Fuse	Reference Number	
Modular	1	32	32	15	6 8	A1	3641 6P03 3641 8P03	
	2	63	63	30	6 8	A2 - A3	3641 6P06 3641 8P06	
	3a	63	63	30	6 8	A3	3641 6P07 3641 8P07	
	2a	80	80	45	6 8	A3	3641 6P08 3641 8P08	
	3	100	100	55	6 8	A4	3641 6P10 3641 8P10	
	3a	160	160	80	6 8	A3 - A4 max. Ø 31 mm	3641 6P14 3641 8P14	
	4	160	160	80	6 8	A4	3641 6P15 3641 8P15	
	4	160	160	80	6 8	B1 - B2	3641 6P16 3641 8P16	
	3a	200 compact	200	110	6 8	A3 - A4 max. Ø 31 mm	3641 6P19 3641 8P19	
	5	200	200	110	6 8	B1 - B2	3641 6P21 3641 8P21	
	5	250	250	160	6 8	B1 - B3	3641 6P24 3641 8P24	
	6	315	315	160	6 8	B1 - B3	3641 6P32 3641 8P32	
	6	400	400	230	6 8	B1 - B4	3641 6P39 3641 8P39	

The diagram illustrates a motor control system with the following components and connections:

- Power Supply:** Three-phase supply lines enter from the top left.
- Motor (M):** Represented by a circle with the letter 'M' on the right.
- Control Unit:** A box containing an 'ON' button (indicated by a circle with a dot) and a 'Test' button (indicated by a circle with a magnifying glass).
- Emergency Stop:** A red button with a 'Y' symbol, labeled 'Emergency stop'.
- Interlocking:** A green button with a 'Y' symbol, labeled 'Interlocking'.
- Protection:** A green button with a 'Y' symbol, labeled 'Protection'.
- Stop:** A red button with a 'Y' symbol, labeled 'Stop'.
- PLC:** A Programmable Logic Controller unit, shown as a rack of modules.
- Wiring:** The circuit includes various switches and relays, with labels 'a' and 'b' indicating specific contact points. The 'ON' button is connected to the PLC. The 'Test' button is connected to the 'Protection' and 'Interlocking' buttons. The 'Emergency stop' button is connected to the 'Stop' button. The 'Interlocking' button is connected to the 'PLC'.

The Fuserbloc TEST feature enables the control circuits to be tested without switching on the main power. It provides an efficient alternative to a separately wired push button or cam switch.





FUSERBLOC 25 to 1250 A DIN

Fuse combination switches

IEC
947-3

DIN STANDARD FUSE COMBINATION SWITCHES (I - 0) - EXTERNAL FRONT OPERATION

SWITCH BODY + IP20 FUSE
SHROUD + BOLT SETS



FUSER 015 A.T

ORDERING GUIDE

Please note the following items need
to be ordered separately:

FUSERBLOC FUSE SWITCH
STANDARD HANDLE
SHAFT EXTENSION
TERMINAL SHROUD(S)
AUXILIARY CONTACTS

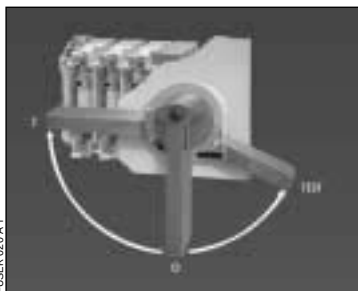
} See Accessories
page 82 - 84

Switch Type	Frame Size	AC22/A 400 V	AC23/A 400 V	AC23/kW 400 V	No of Poles	DIN/NF Fuse size	Reference Number
CD see page 72	0	25	25	11	3	10 x 38	3631 3002
						3P + switch Neutral	3631 4002
						3P + solid Neutral	3631 5002
	0	32	32	15	3	10 x 38	3631 3003
						3P + switch Neutral	3631 4003
						3P + solid Neutral	3631 5003
	0	32	32	15	3	14 x 51	3631 3004
						3P + switch Neutral	3631 4004
						3P + solid Neutral	3631 5004
Modular	1	50	50	25	3	14 x 51	3611 3005
					4		3611 6005
	2	63	63	33	3	00C	3611 3006
					4		3611 6006
	3	100	100	55	3	22 x 58	3611 3010
					4		3611 6010
	3	125	125	63	3	22 x 58	3611 3011
					4		3611 6011
	3	125	125	63	3	00	3611 3012
					4		3611 6012
	3	160	160	80	3	00	3611 3015
					4		3611 6015
Monobloc	4	160	160	80	3	0	3611 3016
					4		3611 6016
	5	250	250	132	3	1	3611 3024
					4		3611 6024
	6	400	400	220	3	2	3611 3039
					4		3611 6039
	7	630	630	355	3	3	3610 3064
					4		3610 6064
	9**	1250	1000	560	3	4	3610 3121
					4		3610 6121

** Please note only single break on top of the fuse pay attention to line & load connections

DIN STANDARD TEST POSITION FUSE COMBINATION SWITCHES (I - 0 - TEST) - EXTERNAL FRONT OPERATION

SWITCH BODY + IP20 FUSE
SHROUD + BOLT SETS



FUSER 020 A.T

ORDERING GUIDE

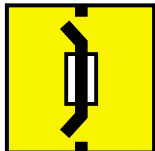
Please note the following items need
to be ordered separately:

FUSERBLOC FUSE SWITCH
STANDARD HANDLE
SHAFT EXTENSION
TERMINAL SHROUD(S)
AUXILIARY CONTACTS

} See Accessories
page 82 - 84

Switch Type	Frame Size	AC22/A 400 V	AC23/A 400 V	AC23/kW 400 V	No of Poles	DIN/NF Fuse size	Reference Number
CD see page 68	0	25	25	11	3	10 x 38	3631 3002
						3P + switch Neutral	3631 4002
						3P + solid Neutral	3631 5002
	0	32	32	15	3	10 x 38	3631 3003
						3P + switch Neutral	3631 4003
						3P + solid Neutral	3631 5003
	0	32	32	15	3	14 x 51	3631 3004
						3P + switch Neutral	3631 4004
						3P + solid Neutral	3631 5004
Modular	1	50	50	25	3	14 x 51	3631 3005
					4		3631 6005
	2	63	63	30	3	00C	3631 3006
					4		3631 6006
	3	100	100	51	3	22 x 58	3631 3010
					4		3631 6010
	3	125	125	63	3	22 x 58	3631 3011
					4		3631 6011
	3	125	125	63	3	00	3631 3012
					4		3631 6012
	3	160	160	80	3	00	3631 3015
					4		3631 6015
Monobloc	4	160	160	80	3	0	3631 3016
					4		3631 6016
	5	250	250	132	3	1	3631 3024
					4		3631 6024
	6	400	400	220	3	2	3631 3039
					4		3631 6039

NOTES: - All fuse combination switches are supplied without handle & shaft
- IP20 Fuse shroud supplied as standard
- All the above mentioned Fuse Switches are certified to IEC 947-3



FUSERBLOC 25 to 1250 A DIN

Fuse combination switches

IEC
947-3

DIN STANDARD FUSE COMBINATION SWITCHES (I - 0) - SIDE & DIRECT OPERATION

SWITCH BODY + IP20 FUSE
SHROUD + BOLT SETS



FUSER 042 A.T

ORDERING GUIDE

Please note the following items need
to be ordered separately:

FUSERBLOC FUSE SWITCH

STANDARD HANDLE

SHAFT EXTENSION

TERMINAL SHROUD(S)

AUXILIARY CONTACTS

See Accessories
page 82 - 84

Switch Type	Frame Size	AC22/A 400 V	AC23/A 400 V	AC23/kW 400 V	No of Poles	DIN/NF Fuse Size	Reference Number
CD see page 72	0	25	25	11	3	10 x 38	3631 3002
					3P + switch Neutral		3631 4002
					3P + solid Neutral		3631 5002
	0	32	32	15	3	10 x 38	3631 3003
					3P + switch Neutral		3631 4003
					3P + solid Neutral		3631 5003
	0	32	32	15	3	14 x 51	3631 3004
					3P + switch Neutral		3631 4004
					3P + solid Neutral		3631 5004
Modular	1	50	50	30	3	14 x 51	3615 3005
					4		3615 6005
	2	63	63	51	3	00C	3615 3006
					4		3615 6006
	3	100	100	55	3	22 x 58	3615 3010
					4		3615 6010
	3	125	125	63	3	22 x 58	3615 3011
					4		3615 6011
	3	125	125	63	3	00	3615 3012
					4		3615 6012
	3	160	160	80	3	00	3615 3015
					4		3615 6015
	4	160	160	80	3	0	3615 3016
					4		3615 6016
	5	250	250	132	3	1	3615 3024
					4		3615 6024
	6	400	400	220	3	2	3615 3039
					4		3615 6039

FULLY RATED INTEGRATED NEUTRAL LINK FOR DIN MODULAR SWITCHES



FUSER 116 A.T

Neutral Rating (A)	Switch Frame Size	Reference Number
160	1, 2 & 3	3629 9320
160	4	3629 9319
250	5	3629 9331
400	6	3629 9340

Unswitched neutral link to fit around switch external operation.

See note 1

SHROUDED NEUTRAL MODULE FOR DIN STANDARD FUSE SWITCHES

UNSWITCHED FOURTH POLE
WITH NEUTRAL LINK
& FUSE SHROUD

Switch Type	Maximum Current (A)	Frame Size	Phase Centre	Reference Number
Modular	50	1	27 mm	3629 9227
	63	2	32 mm	3629 9232
	160	3	36 mm	3629 9236
	160	4	50 mm	3629 9250
	250	5	60 mm	3629 9260
	400	6	60 mm	3629 9266

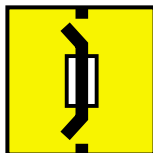
SOLID LINKS FOR DIN STANDARD FUSE SWITCHES

TO BE USED IN PLACE
OF FUSE LINK

Switch Type	Maximum Current (A)	DIN Fuse Size	Reference No
Modular	50	14 x 51	6029 0000
	125	22 x 58	6039 0000
	160	00/00C	6420 0000
	160	0	6421 0000
	250	1	6421 0001
	400	2	6421 0002
Monobloc	630	3	6421 0003
	1250	4	6441 0005

NOTES: 1. Cannot be used with U type auxiliary contacts. For front operated switches only.





FUSERBLOC 25 to 1250 A

Fuse combination switches

IEC
947-3

DIRECT HANDLE

TO BE USED WITH DIRECT OPERATION FUSE COMBINATION SWITCHES

Type	Rating (A)	Operation	Colour	Reference Number
Modular/ Side	32 - 63	I - 0	black	3629 7900
	80 - 400	I - 0	black	3629 7901
Monobloc/ Front operation	630 - 1250	I - 0	black	3999 6012
Escutcheon to be used in direct front operation with 630 and 800 A (BS), 630 A (DIN)				3999 5110

DOOR INTERLOCKED HANDLES - FRONT OPERATION

Switch Type	Rating (A)	Operation	Colour	IP Rating	Reference Number
Modular Standard operation (c/w defeatable facility)	32 - 63	I - 0	black	54	3629 7706
		I - 0	red-yellow	65	3629 7408
	80 - 400	I - 0	black	54	3629 7716
		I - 0	red-yellow	65	3629 7418
Modular Standard operation (c/w defeatable facility) padlockable in both positions	32 - 63	I - 0	black	65	3629 7206
		I - 0	black	65	3629 7216
	80 - 400	I - 0 - Test	black	65	3629 7307
		I - 0 - Test	red-yellow	65	3629 7308
Modular Test operation (c/w defeatable facility)	80 - 400	I - 0 - Test	black	65	3629 7317
		I - 0 - Test	red-yellow	65	3629 7318
	630 - 1250	I - 0	black	54	3999 5125
		I - 0	red-yellow	54	3999 5123
Monobloc (c/w defeatable facility)	630 - 1250	I - 0	black	65	3999 5005
		I - 0	red-yellow	65	3999 5007

EXTERNAL SIDE OPERATION HANDLE

Switch Type	Rating (A)	Operation	Colour	IP Rating	Reference Number
Modular	32 - 63	I - 0	black	54	3629 8306
		I - 0	red / yellow	65	3629 8806
	80 - 400	I - 0	black	54	3629 8316
		I - 0	red / yellow	65	3629 8816

SHAFT EXTENSIONS - FRONT OPERATION

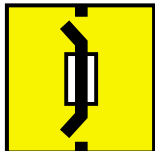
Switch Type	Rating (A)	Shaft Length	Backplate to door Max	Reference Number
Modular	32 - 100	120 mm	145 mm	3999 3003
		200 mm	225 mm	3999 3004
		250 mm	275 mm	3999 3005
		250 mm	275 mm	45° twisted shaft 3999 1043
		320 mm	345 mm	3999 3013
	32 - 400	320 mm	345 mm	45° twisted shaft 3999 1045
		500 mm	525 mm	3999 3010
		500 mm	525 mm	45° twisted shaft 3999 1050
	630 - 800	200 mm	635 mm	2799 3012
		450 mm	890 mm	2799 3019
Monobloc	1250	200 mm	681 mm	2799 3012
		450 mm	931 mm	2799 3019

SHAFT EXTENSIONS - SIDE OPERATION

Switch Type	Rating (A)	Shaft Length	Reference Number
Modular	32 - 400	200 mm	3999 3014



NOTES: - Other handle variations available. Please consult us.
- Other shaft length available. Please consult us.



FUSERBLOC 20 to 1250 A

Fuse combination switches

IEC
947-3

FLAT MOUNTING KIT / WITHDRAWABLE ADAPTATION

Switch Type	Rating (A)		Reference Number
Modular/Side	32 - 400	Side adaptation kit: c/w 150 mm shaft	3629 7501
		Side adaptation kit: c/w 150 mm shaft (45° twisted shaft)	3629 7502

HANDLE FOR FLAT MOUNTING / WITHDRAWABLE OPERATION

Switch Type	Rating (A)	Operation	Colour	IP Rating	Reference Number
Modular	32 - 63	I - 0	black	54	3629 7706
	80 - 400	I - 0	black	54	3629 7716
	32 - 63	I - 0	red / yellow	65	3629 7408
	80 - 400	I - 0	red / yellow	65	3629 7418

IP 20 TERMINAL SHROUDS FOR DIN & BS STANDARD FUSE SWITCHES

Switch Type	Rating (A)	Frame size	No of Poles	Shroud Side	Reference Number
Modular	32 - 63 - 80	1, 2, 2 a	3	top or bottom	standard
			4	top or bottom	standard
	63 - 200 compact	3, 3 a	3	top or bottom	3998 3016
			4	top or bottom	3998 4016
	200 - 400	4, 5, 6 4	3	top or bottom	3998 3025
			top or bottom	3998 4025	
Monobloc	630 - 800	7, 8	3	top or bottom	3998 3063
			4	top or bottom	3998 4063
	1250 (terminal screen)	9	3	top	3998 3120
			4	top	3998 4120

U TYPE AUXILIARY CONTACTS⁽¹⁾



COMPACT AUXILIARY CONTACT BLOCK HOLDER WITH CONFIGURABLE FUNCTION CAN BE USED ON BOTH STANDARD & TEST POSITION SWITCHES FROM 32 TO 40. AUXILIARIES CAN OPERATE IN **ON** ONLY, **TEST** ONLY OR **ON** AND **TEST** POSITION PRE BREAK INDICATION

ORDERING GUIDE

Please note the following items need to be ordered separately:

CONTACT BLOCK HOLDER (x 1)

NO OR NC CONTACT BLOCK (max 8)

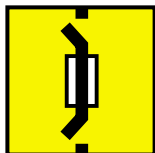
Switch Type	Rating (A)	Description	Contacts	Current (A)	Reference Number
Modular	32 - 400	Configurable Contact Block Holder	n/a		3999 0500
		Configurable N.O. Contact Block	1	10	3999 0701
		Configurable N.C. Contact Block	1	10	3999 0702

* Maximum 8 contact blocks (8 circuits) (4 x 2, max 2 high)

** please note references **3999 0501 & 3999 0502** have been replaced by **3999 0701 & 3999 0702**

NOTES: - Other handle variations available. Please consult us.
(1) Cannot be used with integrated neutral. For front operated switch only.





FUSERBLOC 20 to 1250 A

Fuse combination switches

IEC
947-3

S TYPE AUXILIARY CONTACTS



DOUBLE AUXILIARY CONTACT BLOCKS TO BE MOUNTED ONTO THE SIDE OF THE SWITCH
(NO PRE BREAK INDICATION)

ORDERING GUIDE

Please note the following items need to be ordered separately:

DRIVE SHAFT KIT (X 1)
CONTACT BLOCK (max 4)

Switch Type	Rating (A)	Description	Contacts	Current (A)	Reference Number
Modular standard operation	32 - 400	Standard auxiliary Drive Shaft Kit ⁽¹⁾	n/a		3999 0003
		Standard configurable Contact Block ⁽¹⁾	2 NO, 2 NC or 1 NO + NC	20	3999 0040
Modular test operation		TEST Feature Drive Shaft Kit ⁽²⁾	n/a	20	3999 0103
		TEST + ON Contact Block ⁽²⁾	1 NO + 1 NC	20	3999 0141
		TEST + ON Contact Block ⁽²⁾	2 NO	20	3999 0241
		ON ONLY Contact Block ⁽²⁾	1 NO + 1 NC	20	3999 0941
		TEST ONLY Contact Block ⁽²⁾	1 NO + 1 NC	20	3999 0341

* Maximum 4 contact blocks (8 circuits) - Please consult us for larger quantities

A TYPE MICROSWITCH AUXILIARY CONTACTS

AUXILIARY CONTACTS MOUNTED ONTO THE SWITCH OPERATING MECHANISM, WITH **PRE BREAK INDICATION**

Switch Type	Rating (A)	Description	Contacts	Current (A)	Reference Number
Modular	32 - 400	Micro-switch ⁽³⁾	1 NO / NC	16	3999 0021
			2 NO / NC	16	3999 0022
Monobloc	*630 - 1250	1 st Micro-switch	1 NO / NC	16	3999 0051
		2 nd Micro-switch (fits onto 1st aux)	1 NO / NC	16	3999 0052

* Please consult us for additional auxiliary configurations

FUSE BLOWN INDICATOR

For use with DIN fuses with strikers

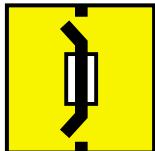
Switch Type	Rating (A)	No of Poles	DIN Fuse Size	Reference Number
Modular ⁽⁴⁾	50	3 & 4	14 x 51	3994 0405
	100 - 125	3	22 x 58	3994 0310
		4		3994 0410
	160	3	0	3994 0316
		4		3994 0416
	250 - 400	3	1 - 2	3994 0325
		4		3994 0425
Additional auxiliary contact	50 - 400	3 - 4		3994 1901

KEY INTERLOCKING ACCESSORIES (NOTE: LOCK NOT INCLUDED)

Switch Type	Rating (A)	Lock type	Reference Number
Modular ⁽⁵⁾	32 - 400	Ronis EL 11 AP	3629 7701
		Castell FS	3629 7703
		Castell K	3629 7702
Monobloc	630 - 1250	Castell K	3999 8002
		Ronis 1104 A	3999 8104

NOTES: 1. To be used with STANDARD (2 position) switches only
2. To be used with TEST (3 position) switches only

3. Cannot be used with U type auxiliary contacts
4. C/W 1 NO/NC auxiliary contact
5. Only with front external operation



FUSERBLOC UR 50 to 1250 A

Fuse combination switches

IEC
947-3

UTILISATION OF HIGH SPEED FUSES AND FUSERBLOC FUSE SWITCHES

PROTECTING SEMI-CONDUCTORS
(VARIABLE SPEED DRIVE, ETC)



- Total isolation before and after fuse
- Compact solution for protection of semi-conductor devices
- On-load breaking
- All combinations completely tested
- Fully shrouded fuse links

**SEMI CONDUCTOR
PROTECTION**

FUSERBLOC + HIGH SPEED
FUSES

SOCOMEF FUSE ASSOCIATION CHART FOR CYLINDRICAL HIGH SPEED FUSES

Fuse switch DIN Rating (A)	Fuse Size	Nominal Fuse Current (A)	Max Power Loss (W)	Prearc I2t (from cold)	I2t At 660 V	Maximum Current (A)W/O Striker	Fuse Reference With Striker
50	14 x 51 (cylindrical type)	10	2.5	9	100	10	170N 1005
		12	2.9	15	170	12	170N 1006
		16	3.6	29	250	16	170N 1007
		20	4.8	34	370	20	170N 1008
		25	6.0	60	560	25	170N 1009
		32	7.6	95	850	29	170N 1011
		40	7.0	105	760	36	170L 1013
		50	9.0	215	1400	40	170L 1014
100 - 125	22 x 58 (cylindrical type)	20	4.6	34	370	20	170N 2008
		25	5.6	60	560	25	170N 2009
		32	7.0	95	850	32	170N 2011
		40	8.5	185	1350	40	170N 2013
		50	9.5	155	1120	50	170L 2214
		63	11.0	310	2150	63	170L 2216
		80	13.5	620	4050	71	170L 2217
		100	16.0	1250	8050	85	170L 2218

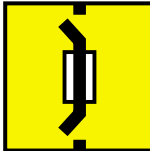
SOCOMEF FUSE ASSOCIATION CHART FOR HIGH SPEED FUSES

Fuse switch DIN Rating (A)	Fuse Size	Nominal fuse Current (A)	Max Power Loss (W)	Prearc I2t (from cold)	I2t At 660 V A²S	Maximum Current (A)	Fuse Reference
160 (size 00)	000 (DIN 43620)	40	12	69	460	32	170M 1563
		50	15	115	770	37	170M 1564
		63	16	215	1450	44	170M 1565
		80	19	380	2550	51	170M 1566
		100	24	695	4650	92	170M 1567
		125	28	1200	8500	105	170M 1568
		180	32	2300	16000	121	170M 1569
		200	37	4200	28000	140	170M 1570
		250	42	7750	51500	140	170M 1571
		315	52	12000	80500	140	170M 1572
250 (size 1)	1 (DIN 43620)	160	30	1100	7500	155	170M 3814
		200	35	2200	15000	178	170M 3815
		250	40	4200	28500	205	170M 3816
400 (size 2)	2 (DIN 43620)	315	60	4950	33000	285	170M 5806
		350	60	7000	46 500	310	170M 5807
		400	65	11000	74000	335	170M 5808
800 (size 3)	2 (type BK 50)	500	75	14000	145000	440	170M 5460
		550	80	19500	190000	450	170M 5461
		630	90	31000	275000	500	170M 5462
1250	3 (type BK 50)	700	110	44500	300000	630	170M 6461
		800	115	69500	465000	720	170M 6462
		900	120	100000	670000	790	170M 6463
		1000	125	140000	950000	870	170M 6464
		1100	130	190000	1300000	940	170M 6465
		1250	140	290000	1950000	1050	170M 6466

This table has been determined by tests carried out in the Socomef laboratory.
The correct operation of Fuserbloc with high speed fuses can only be guaranteed when the above combinations are used.
For other fuse/switch combinations, please consult us.

NOTES: Fuse links available from Socomef - please consult us
Fuse combination switch for high speed fuses up to 1250 A available on request





FUSERBLOC 32 to 1250 A

Fuse combination switches

IEC
947-3

ELECTRICAL & MECHANICAL CHARACTERISTICS

According to IEC 947-3, EN60947-3, BS EN60947-3 On load Switch Disconnecter Fuses

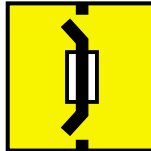
Thermal current I _{th} (40 °C)	32 A	50 A	63 A	80 A	100 A	125 A	125 A	160 A
NF / DIN fuse size		14 x 51	00C or 000	-	22 x 58	22 x 58	00	00
BS 88 fuse size	A1	-	A2 - A3	A2 - A3	A4 max Ø 31 mm	-	-	-
Type switch disconnecter fuses/frame size	modular/1	modular/1	modular/2	modular/2a	modular/3	modular/3	modular/3	modular/3
Rated insulation voltage U _i (V)	750	750	750	750	750	750	750	750
Rated impulse withstand voltage U _{imp} (kV)	8	8	8	8	8	8	8	8
Dielectric strength (V) 50Hz 1min	6000	6000	6000	6000	6000	6000	6 000	6000
Rated Operational current I _e (A)								
AC23 A 415 V	32	50	63	80	100	125	125	160
Motor 500 V	32	50	63	80	100	125	125	160
690 V	32	50	63	80	100 ⁽³⁾	100 ⁽³⁾	125 ⁽³⁾	125 ⁽³⁾
AC22 A 415 V	32	50	63	80	100	125	125	160
Distribution 500 V	32	50	63	80	100	125	125	160
690 V	32	50	63	80	100 ⁽³⁾	125 ⁽³⁾	125 ⁽³⁾	160 ⁽³⁾
DC20 A 500 V	32	50	63	80	100	125	125	160
DC21 A	32 ⁽²⁾	50 ⁽²⁾	63 ⁽²⁾	80 ⁽²⁾	100 ⁽²⁾	125 ⁽²⁾	125 ⁽²⁾	160 ⁽²⁾
DC22 A	32 ⁽²⁾	50 ⁽²⁾	63 ⁽²⁾	80 ⁽²⁾	100 ⁽²⁾	125 ⁽²⁾	125 ⁽²⁾	160 ⁽²⁾
DC23 A	32 ⁽²⁾	40 ⁽²⁾	40 ⁽²⁾	63 ⁽²⁾	100 ⁽²⁾	100 ⁽²⁾	125 ⁽²⁾	125 ⁽²⁾
Operational power - AC23A (KW)								
415V	15	25	30	45	51	63	63	80
500V	18.5	33	40	50	63	80	80	110
690V	25	45	55	75	90	90	90	110
Reactive power 400 V AC (kVAR)	15	17,5	25	38	45	55	55	60
Conditional short-circuit current								
Short-circuit making capacity with fuses (A)	32	50	63	80	100	125	-	-
Short circuit current (kA rms presumed) DIN/BS	80	100	100/80	80	100/80	100	80	50
Fuse switch cut-off current (kA peak)	9	7,6	10.60	17.60	17.60	17.60	17.60	19
Fuse selection (Maximum fuse size)								
Socomec DIN Distribution (gl - gG)	-	60220050	66000063	-	60320100	60320125	66920125	66920160
Motor (aM)	-	60230050	66010063	-	60330100	60330125	66930125	66930160
Socomec BS88 Standard max	6A100032	-	6A300063	6A300080	6A400100	-	-	-
Motor max	6A1M0032 ⁽⁴⁾	-	6A3M0080 ⁽⁴⁾	6A3M0100 ⁽⁴⁾	6A4M0125 ⁽⁴⁾	-	-	-
GEC Standard max	NET32	-	TIS63	OS80	TCP100	-	-	-
Motor max	NET32M63 ⁽⁴⁾	-	TIS63M80 ⁽⁴⁾	TIS63M100 ⁽⁴⁾	OCP100M125 ⁽⁴⁾	-	-	-
Bussmann Standard max	NITD32	-	BAO63	OSD80	CEO100	-	-	-
Motor max	NITD32M63 ⁽⁴⁾	-	BAO63M80 ⁽⁴⁾	BAO63M100 ⁽⁴⁾	CEO100M125 ⁽⁴⁾	-	-	-
Lawson Standard max	NIT32	-	TIS63	TIS80	TCP100	-	-	-
Motor max	NIT20M32 ⁽⁴⁾	-	TIS63M80 ⁽⁴⁾	TIS63M100 ⁽⁴⁾	CTFP100M125 ⁽⁴⁾	-	-	-
Making and breaking characteristics								
Breaking capacity (A Rms) 400 V AC 23A	256	400	500	640	800	1000	1000	1280
Making capacity (A Rms) 400 V AC 23A	320	500	630	800	1000	1250	1250	1600
Mechanical endurance (number of operation)	10000	10000	10000	10000	10000	10000	10000	10000
Operating force (Nm) Direct/Front	4/7	4/7	4/7	6/10	6/10	6/10	6/10	6/10
Maximum torque settings (Nm)								
On terminal bolt/On fuse bolt (for BS type)	5.40/1.57	5.40/-	5.40/2.94	12.75/12.75	12.75/12.75	12.75/-	12.75/-	12.75/-
On shaft securing bolt	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Connection (copper)								
Cu cable section (mm ²) Mini/Max	6/25	6/25	10/25	10/50	25/95	35/95	35/95	35/95
Maximum Cu busbar width (mm)	-	-	-	-	20	20	20	20
Weight (Kg) 3-pole/4-pole	0.8/1	0.8/1	1/1.3	1.8/2.3	1.5/2	1.5/2	1.8/2.3	1.8/2.3

PADLOCK DIMENSIONS for FCS from 32 to 1250 A: minimum padlock diameter: 5 mm/maximum padlock diameter: 8 mm

FOR FUSERBLOC CD ELECTRICAL CHARACTERISTICS : SEE PAGE 74



- NOTES:
1. Do not use middle pole on three pole switch
 2. 2 poles in series by polarity
 3. With terminal shroud or phase separation
 4. Please ensure that the cut of current off the fuse links does not exceed the values given for the fuse switches



FUSERBLOC 32 to 1250 A

Fuse combination switches

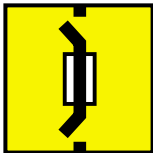
IEC
947-3

ELECTRICAL & MECHANICAL CHARACTERISTICS

160 A	160 A compact	160 A	200 A compact	200 A	250 A	315 A	400 A	630 A	800 A	1250 A
0	A3-A4	-	A3-A4	-	1	-	2	3	-	4
A4	A4 max Ø 31mm	B1 - B2	A4 max Ø 31mm	B1 - B2	B1 - B3	B1 - B3	B1 - B4	C1 - C2	C1 - C3	D1
modular/4	modular/3a	modular/4	modular/3a	modular/5	modular/5	modular/6	modular/6	monobloc/7	monobloc/8	monobloc/9
750	750	750	800	750	800	750	800	1000	1000	1000
8	8	8	8	8	8	8	8	12	12	12
6000	6000	6000	6000	6000	6000	6000	6000	8000	8000	8000
160	160	160	200	200	250	315	400	630	800	1000
160	160	160	200	200	250	315	315	500	630	800
125 ⁽³⁾	125 ⁽³⁾	125 ⁽³⁾	160 ⁽³⁾	200 ⁽³⁾	250 ⁽³⁾	250 ⁽³⁾	250 ⁽³⁾	315 ⁽³⁾	400 ⁽³⁾	630 ⁽³⁾
160	160	160	200	200	250	315	400	630	800	1250
160	160	160	200	200	250	315	400	500	800	1000
160 ⁽³⁾	160 ⁽³⁾	160 ⁽³⁾	160 ⁽³⁾	200 ⁽³⁾	250 ⁽³⁾	315 ⁽³⁾	400 ⁽³⁾	500 ⁽³⁾	630 ⁽³⁾	800 ⁽³⁾
160	160	160	200	200	250	315	400	630	800	1250
160 ⁽²⁾	160 ⁽²⁾	160 ⁽²⁾	160 ⁽²⁾	200 ⁽²⁾	250 ⁽²⁾	250 ⁽²⁾	315 ⁽²⁾	400 ⁽¹⁾	800 ⁽¹⁾	800 ⁽²⁾
160 ⁽²⁾	160 ⁽²⁾	160 ⁽²⁾	160 ⁽²⁾	200 ⁽²⁾	250 ⁽²⁾	250 ⁽²⁾	315 ⁽²⁾	315 ⁽¹⁾	800 ⁽¹⁾	800 ⁽²⁾
160 ⁽²⁾	160 ⁽²⁾	160 ⁽²⁾	160 ⁽²⁾	200 ⁽²⁾	250 ⁽²⁾	250 ⁽²⁾	315 ⁽²⁾	315 ⁽¹⁾	800 ⁽¹⁾	800 ⁽²⁾
125 ⁽²⁾	160 ⁽²⁾	125 ⁽²⁾	125 ⁽²⁾	200 ⁽²⁾	200 ⁽²⁾	200 ⁽²⁾	200 ⁽²⁾	400 ⁽¹⁾	800 ⁽¹⁾	800 ⁽²⁾
80	80	80	80	100	132	160	220	355	450	560
110	110	110	110	140	160	220	220	355	450	560
110	110	110	110	185	220	220	220	295	400	600
60	70	70	87	75	100	125	150	2x125	2x150	4x125
-	-	-	-	-	-	-	-	-	-	-
100	50	80	50	80	100/80	80	50/80	100/80	50	100/80
22.70	20	20	20	32.5	32.5	44	44	58	60	109
67020160	-	-	-	-	67120250	-	67220400	67320400	-	67461200
67030160	-	-	-	-	67130250	-	67230400	67330400	-	67471200
6A40160	-	6B200160	6A400200	6B200200	6B200250	6B300315	6B400400	6C200630	6C300800	6D101250
6A4M0160 ⁽⁴⁾	6A40 0160	6B1M0200 ⁽⁴⁾	6A4M0200 ⁽⁴⁾	6B2M0315 ⁽⁴⁾	6B2M0315 ⁽⁴⁾	6B3M0400 ⁽⁴⁾	6B4M0500 ⁽⁴⁾	-	-	-
TFP160	TCP100	TF160	TCP100	TF200	TKF250	TKF315	TMF400	TTM630 ⁽⁴⁾	TLM800 ⁽⁴⁾	TXU1250
TCP100M201 ⁽⁴⁾	OCP100M160 ⁽⁴⁾	TC100M200 ⁽⁴⁾	OCP100M160 ⁽⁴⁾	TF200M315 ⁽⁴⁾	TF200M315 ⁽⁴⁾	TKF315M355 ⁽⁴⁾	TMF400M450 ⁽⁴⁾	-	-	-
DEO160	DEO160	DD160	DEO20 ⁽⁴⁾	DD200	ED250	ED315	ED400	FF630 ⁽⁴⁾	GF800 ⁽⁴⁾	GH1250
DEO100M200 ⁽⁴⁾	CEO100M160 ⁽⁴⁾	CD100M200 ⁽⁴⁾	DEO100M200 ⁽⁴⁾	DD200M315 ⁽⁴⁾	DD200M315 ⁽⁴⁾	ED315M400 ⁽⁴⁾	ED400M500 ⁽⁴⁾	-	-	-
TFP160	CTFP160	TF160	CTFP200 ⁽⁴⁾	TF200	TKF250	TKF315	TMF400	TTM630 ⁽⁴⁾	TLM800 ⁽⁴⁾	-
TCP100M200 ⁽⁴⁾	CTCP100M160 ⁽⁴⁾	TCP100M200 ⁽⁴⁾	CTCP100M200 ⁽⁴⁾	TC200M315 ⁽⁴⁾	TF200M315 ⁽⁴⁾	TKF315M400 ⁽⁴⁾	TMF400M500 ⁽⁴⁾	-	-	-
1280	1280	1280	1600	1600	2000	2520	3200	5040	6400	8000
1600	1600	1600	2000	2000	2500	3150	4000	6300	8000	10000
10000	10000	10000	10000	10000	10000	10000	10000	5000	5000	5000
6/10	6/10	6/10	6/10	8/12	8/12	8/12	10/15	42/-	42/-	42/-
12.75/12.75	12.75/12.75	12.75/12.75	12.75/12.75	25.48/12.75	25.48/12.75	25.48/12.75	25.48/12.75	44.10/25.48	-/25.48	-/44.10
6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	-	-	-
50/95	35/95	50/95	50/95	50/95	95/240	185/240	185/240	2x150/2x300	-	-
20	20	0	20	20	32	45	45	50	50	100
1.8/2.3	1.6/2.1	1.8/2.3	1.8/2.3	3.2/4.5	3.2/4.5	4.8/6.1	4.8/6.1	16/19	16/19	28/33

- NOTES:
1. Do not use middle pole on three pole switch
 2. 2 poles in series by polarity
 3. With terminal shroud or phase separation
 4. Please ensure that the cut off current of the fuse links does not exceed the values given for the fuse switches





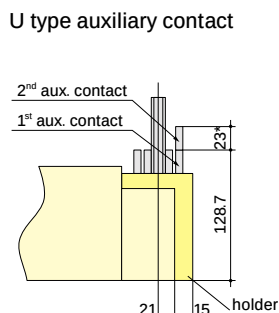
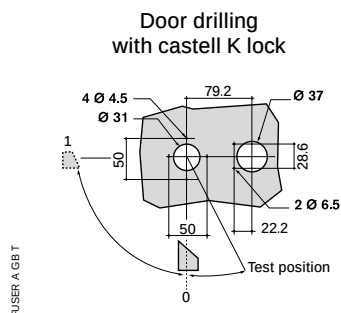
FUSERBLOC 32 to 1250 A

Fuse combination switches

IEC
947-3

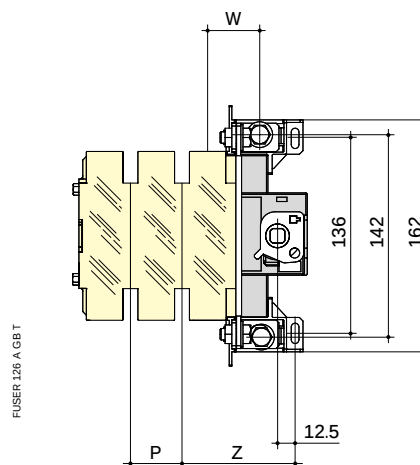
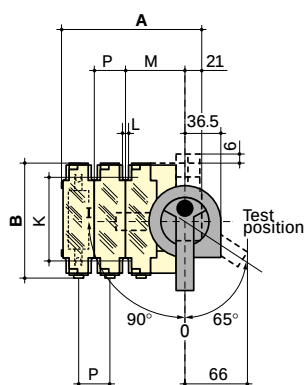
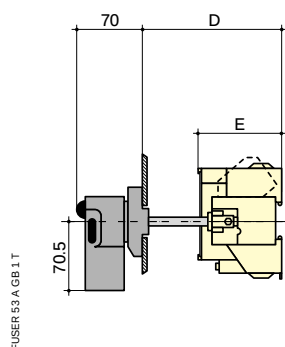
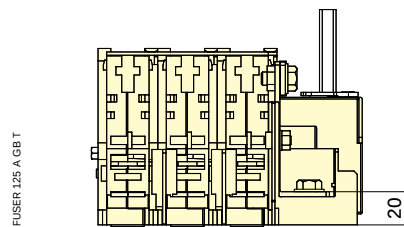
DIMENSIONS (mm)

32-63 A EXTERNAL FRONT OPERATION



* max. 8 aux. contacts
(2 x 4) max 2 high

Integrated neutral



OVERALL DIMENSIONS

FRAME SIZE	FUSE SIZE		NO OF POLES	OVERALL DIMENSIONS						SWITCH MOUNTING					
	DIN	BS		A	B	D mini	E	I	J	K	L	M	P	W	Z
1	14 x 51	A1	3	137	118	94	87	-	-	106	5.4	57.5	27	31.5	70
1	14 x 51	A1	4	164	118	94	87	-	-	106	5.4	57.5	27	31.5	70
2	00C	-	3	152	118	124	116.5	159	145	106	5.4	62.5	32	34	75
2	00C	-	4	184	118	124	116.5	159	145	106	5.4	62.5	32	34	75
2	-	A2-A3	3	152	118	100	92.5	-	-	106	5.4	62.5	32	34	75
2	-	A2-A3	4	184	118	100	92.5	-	-	106	5.4	62.5	32	34	75

Shaft 120 mm D max = 145 mm
 Shaft 200 mm D max = 225 mm
 Shaft 250 mm D max = 275 mm
 Shaft 320 mm D max = 345 mm
 Shaft 500 mm D max = 525 mm

FOR FUSERBLOC CD DIMENSIONS - SEE PAGE 75

6 & 8 POLES DIMENSIONS

Use same dimensions as 4 poles and calculate A as following:

- A (6 poles) = A (4 poles) + 2 x P
- A (8 poles) = A (4 poles) + 4 x P

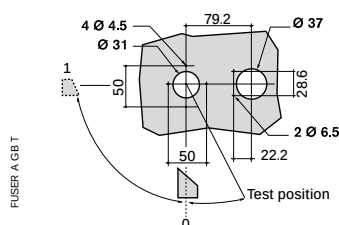


NOTES: Mounting orientation: rotation of some devices may be limited. Please consult our application guide.

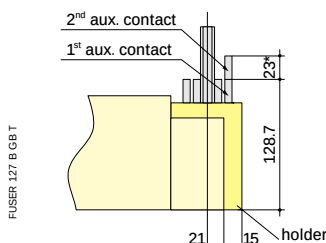
DIMENSIONS (mm)

63-400 A EXTERNAL FRONT OPERATION

Door drilling with castell lock

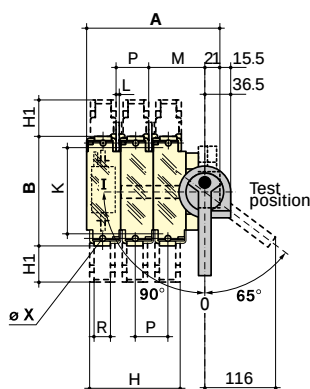
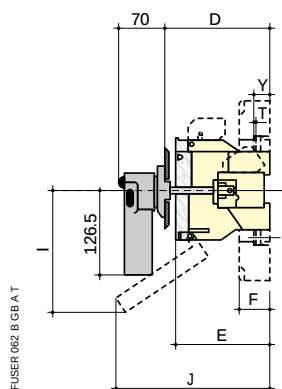
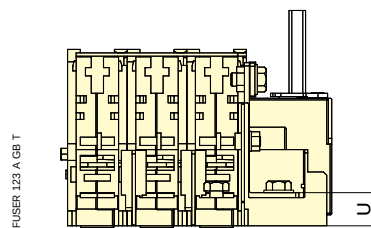
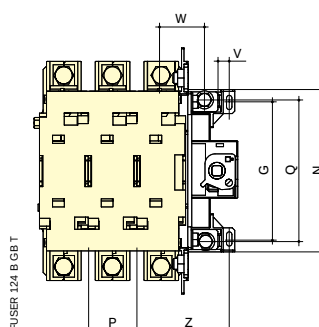


U type auxiliary contact

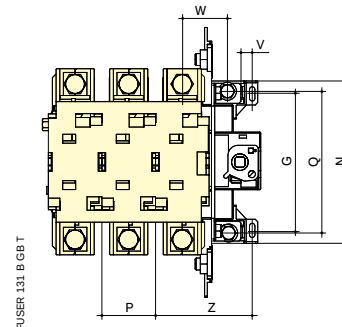


*max. 8 aux. contacts
(2 x 4) max 2 high

Integrated neutral

63 AC⁽¹⁾ - 200 AC⁽¹⁾

250 to 400 A



OVERALL DIMENSIONS

FRAME SIZE	FUSE SIZE		NO OF POLES	OVERALL DIMENSIONS									SWITCH MOUNTING				CONNECTION TERMINAL			
	DIN	BS		A	B	Dmini	E	F	H	H ₁	I	J	K	L	M	P	R	T	ØX	Y
2a	-	A2-A3	3	166	123.5	120	100	-	-	-	130	170	104	5.4	-	150	-	-	-	-
2a	-	A2-A3	4	202	123.5	120	100	-	-	-	130	170	127	5.4	-	186	-	-	-	-
3a	-	A2-A3	3	166	162	120	100	44	108	53	130	170	104	5.4	66.5	36	20	3	8.5	19.5
3a	-	A2-A3	4	202	162	120	100	44	144	53	130	170	104	5.4	66.5	36	20	3	8.5	19.5
3	22 x 58	A4	3	166	162	120	106.5	44	108	53	130	170	127	5.4	66.5	36	20	2.5	8.5	19.5
3	22 x 58	A4	4	202	162	120	106.5	44	144	53	130	170	127	5.4	66.5	36	20	2.5	8.5	19.5
3	00	-	3	166	162	134	126.5	44	108	53	141	189	127	5.4	66.5	36	20	2.5	8.5	19.5
3	00	-	4	202	162	134	126.5	44	144	53	141	189	127	5.4	66.5	36	20	2.5	8.5	19.5
3a	-	A3-A4	3	166	162	150	139	44	108	53	-	-	130	5.4	66.5	36	20	3	8.5	19.5
3a	-	A3-A4	4	202	162	150	139	44	144	53	-	-	130	5.4	66.5	36	20	3	8.5	19.5
4	0	A4/B1-B2	3	206	162	145	136.5	44	136	53	174	229	140	5.4	80.5	50	20	2.5	8.5	19.5
4	0	A4/A1-B2	4	256	162	145	136.5	44	172	53	174	229	140	5.4	80.5	50	20	2.5	8.5	19.5
5	1	B1-B2-B3	4+test	236	195	154	146	65	180	75	185	251	162	6.4	90.5	60	32	2.5	11	19.5
5	1	B1-B2-B3	3	296	195	154	146	65	180	75	185	251	162	6.4	90.5	60	32	2.5	11	19.5
5	1	B1-B2-B3	4	320	195	154	146	65	240	75	185	251	162	6.4	114.5	60	32	2.5	11	19.5
6	2	B1 to B4		278	205	157	149	65	192	75	200	260	172	6.4	121	66	50	3	11	20
6	2	B1 to B4		344	205	157	149	65	258	75	200	260	172	6.4	121	66	50	3	11	20

Shaft 120 mm D max = 145 mm
 Shaft 200 mm D max = 225 mm
 Shaft 250 mm D max = 275 mm
 Shaft 320 mm D max = 345 mm
 Shaft 500 mm D max = 525 mm

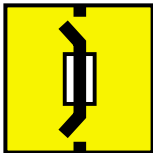
INTEGRATED NEUTRAL LINK

FRAME	RATING (A)		FUSE SIZE								
SIZE	DIN	BS	DIN	BS	G	N	Q	U	V	W	Z
3 & 3a	160 A	63-200 A	0	A3-A4	135	162	141	22	12.3/15.8	36/39	79/82
4	-	160 A	-	B1-B2	135	162	141	22	18.7	50.5	99.5
5	250 A	200-250 A	1	B1 to B3	137	232	202	28	18.7	56	109.5
5	250 A test	200-250 A test	1	B1 to B3	137	232	202	28	18.7	74.5	130
6	400 A	315-400 A	2	B1 to B4	137	232	202	28	12.3	77.5	133

6 & 8 POLES DIMENSIONS - SEE CALCULATION PAGE 88

NOTES: 1. Compact Design.

Mounting orientation: rotation of some devices may be limited. Please consult our application guide.



FUSERBLOC 32 to 1250 A

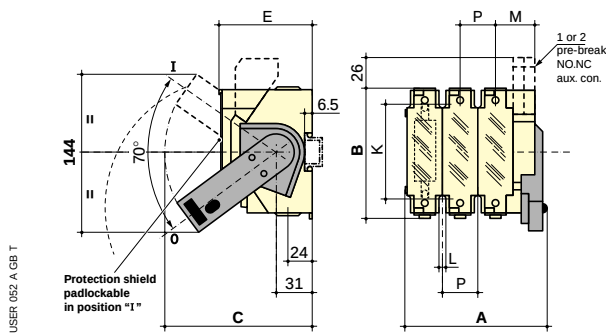
Fuse combination switches

IEC
947-3

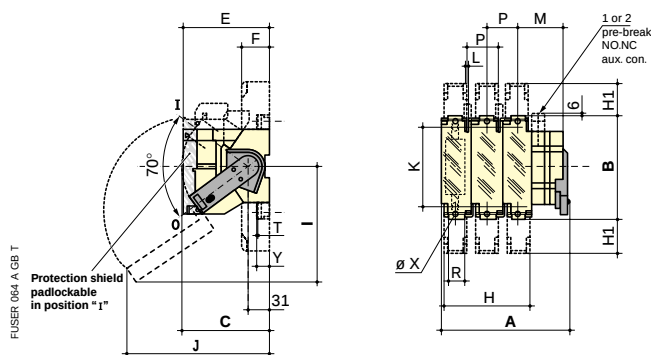
DIMENSIONS (mm)

32 - 63 A DIRECT & EXTERNAL SIDE OPERATION

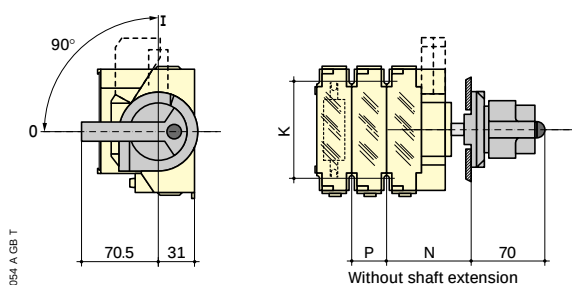
80 - 400 A DIRECT & EXTERNAL SIDE OPERATION



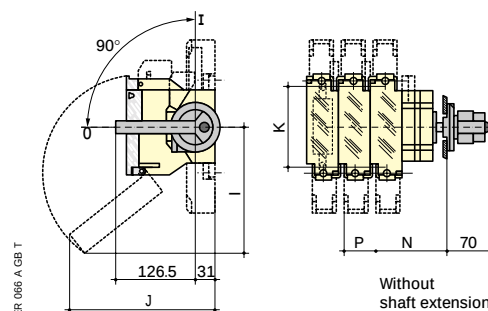
FUSER 052 A GB T



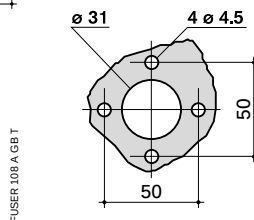
FUSER 064 A GB T



FUSER 054 A GB T



FUSER 066 A GB T

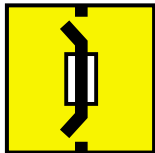


FUSER 108 A GB T

OVERALL DIMENSIONS

FRAME SIZE	FUSE SIZE		NO OF POLE	OVERALL DIMENSIONS									SWITCH MOUNTING					CONNECTION TERMINAL			
	DIN	BS		A	B	C	E	F	H	H ₁	I	J	K	L	M	N mini / maxi	P	R	T	ØX	Y
1	14 x 51	-	3	118	118	134	86.5	-	-	-	90	155	106	5.4	33.5	60/112	27	-	-	-	-
1	14 x 51	-	4	145	118	134	86.5	-	-	-	90	155	106	5.4	33.5	60/112	27	-	-	-	-
1	-	A1	3	118	118	134	83	-	-	-	-	-	106	5.4	33.5	60/112	27	-	-	-	-
1	-	A1	4	145	118	134	83	-	-	-	-	-	106	5.4	33.5	60/112	27	-	-	-	-
2	00C	-	3	133	118	134	116.5	-	-	-	159	145	106	5.4	36	65/117	32	-	-	-	-
2	00C	-	4	165	118	134	116.5	-	-	-	159	145	106	5.4	36	65/117	32	-	-	-	-
2	-	A2-A3	3	133	118	134	92.5	-	-	-	-	-	106	5.4	36	65/117	32	-	-	-	-
2	-	A2-A3	4	165	118	134	92.5	-	-	-	-	-	106	5.4	36	65/117	32	-	-	-	-
3a	-	A2-A3	3	152	162	173	139	44	108	53	130	170	130	5.4	38	69/121	36	20	3	8.5	19.5
3a	-	A2-A3	4	188	162	173	139	44	144	53	130	170	130	5.4	38	69/121	36	20	3	8.5	19.5
2a	-	A2-A3	3	150	123.5	173	100	-	-	-	130	170	104	5.4	-	69/121	150	-	-	-	-
2a	-	A2-A3	4	186	123.5	173	100	-	-	-	130	170	104	5.4	-	69/121	186	-	-	-	-
3	22x58	A4	3	150	162	173	106.5	44	108	53	130	170	127	5.4	38	69/121	36	20	2.5	8.5	19.5
3	22x58	A4	4	186	162	173	106.5	44	144	53	130	170	127	5.4	38	69/121	36	20	2.5	8.5	19.5
3	00	-	3	150	162	173	106.5	44	108	53	141	189	127	5.4	38	69/121	36	20	2.5	8.5	19.5
3	00	-	4	186	162	173	106.5	44	144	53	141	189	127	5.4	38	69/121	36	20	2.5	8.5	19.5
3a	-	A3-A4	3	152	162	173	139	44	108	53	-	-	130	5.4	38	69/121	36	20	2.5	8.5	19.5
3a	-	A3-A4	4	188	162	173	139	44	144	53	-	-	130	5.4	38	69/121	36	20	2.5	8.5	19.5
4	0	A4/B1-B2	3	192	162	173	123	44	136	53	174	229	140	5.4	45	83/135	50	20	2.5	8.5	19.5
4	0	A4/B1-B2	4	242	162	173	123	44	172	53	174	229	140	5.4	45	83/135	50	20	2.5	8.5	19.5
5	1	B1 to B3	3	253	195	173	146	65	180	75	185	251	162	6.4	81	124/176	60	32	2.5	11	19.5
5	1	B1 to B3	4	313	195	173	146	65	240	75	185	251	162	6.4	81	124/176	60	32	2.5	11	19.5
6	2	B1 to B4	3	271	205	173	149	65	192	75	200	260	172	6.4	86	130/182	66	50	3	11	20
6	2	B1 to B4	4	337	205	173	149	65	258	75	200	260	172	6.4	86	130/182	66	50	3	11	20

NOTES: Mounting orientation: rotation of some devices may be limited. Please consult our application guide.



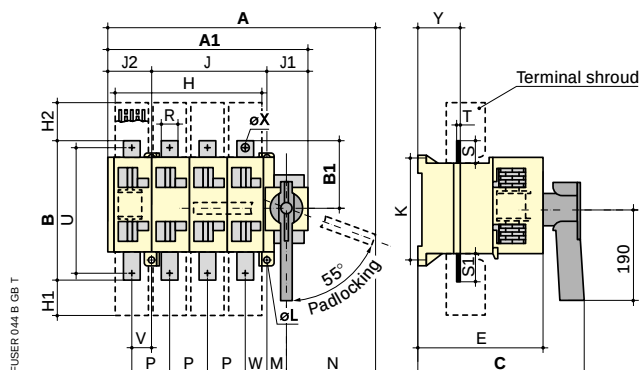
FUSERBLOC 32 to 1250 A

Fuse combination switches

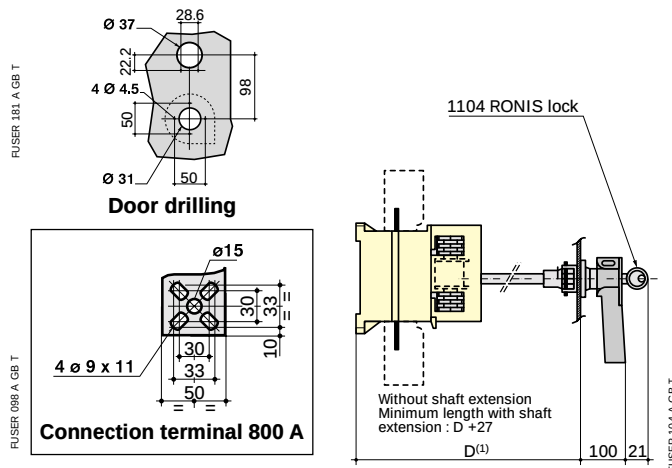
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DIMENSIONS (mm)

FUSERBLOC BS 630 and 800 A, DIN 630 A WITH DIRECT FRONT OPERATION



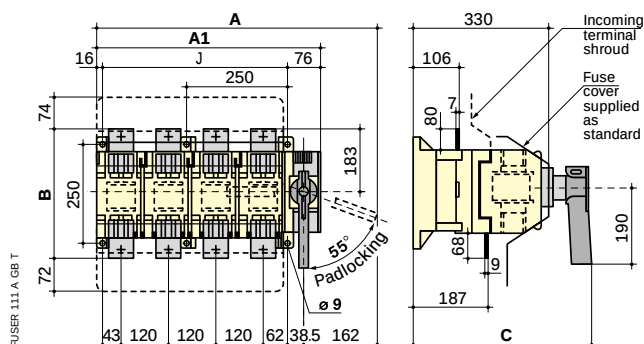
FUSERBLOC DIN/BS 630 TO 800 A WITH EXTERNAL FRONT OPERATION



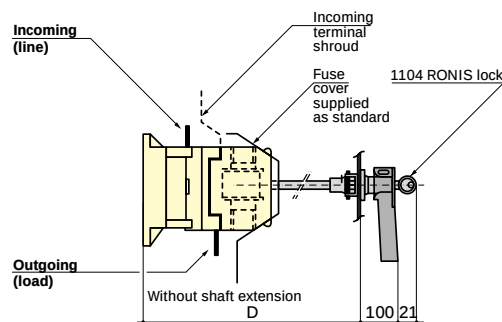
	OVERALL DIMENSIONS														SWITCH MOUNTING						CONNECTION TERMINALS									
Rating (A)	A	A ₁	B	B ₁	C	D	mini*	D	E	H	H ₁	H ₂	J	J ₁	J ₂	K	ø L	M	N	P	R	S	S ₁	T	U	V	W	ø X	Y	
3 x 630	470	345.5	300	150	348	276	341 to 440	268	235	85	85	250	76	19.5	250	9	38.5	162	80	50	50	50	7	260	45.5	44.5	13	72		
4 x 630	550	425.5	300	150	348	276	341 to 440	268	315	85	85	250	76	99.5	250	9	38.5	162	80	50	50	50	7	260	34.5	44.5	13	72		
3 x 800	470	345.5	320	150	348	276	341 to 440	268	235	75	75	250	76	19.5	250	9	38.5	162	80	50	60	60	7	267	45.5	44.5	-	72		
4 x 800	550	425.5	320	150	348	276	341 to 440	268	315	75	75	250	76	99.5	250	9	38.5	162	80	50	60	60	7	267	34.5	44.5	-	72		

* short shaft

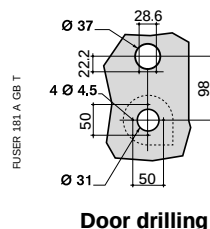
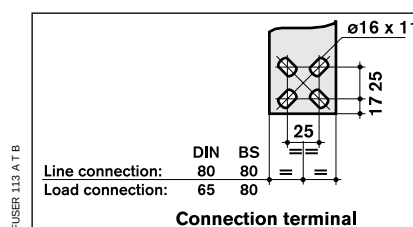
FUSERBLOC DIN/BS 1250 A WITH DIRECT FRONT OPERATION⁽²⁾



FUSERBLOC DIN/BS 1250 A WITH EXTERNAL FRONT OPERATION⁽²⁾



Rating (A)	SWITCH MOUNTING					
	A	A ₁	B	C	D	J
3 x 1250	561	437	363	433	416 to 481	345
4 x 1250	681	557	363	433	416 to 481	465



NOTES: 1. 630 A - 800 A: dimension D minimum = 276 mm with shaft cut to 65 mm
2. Please note single break switch. Pay attention to line and load connections.
Consult us for line (Top) and load (Bottom) version.
Mounting orientation: rotation of some devices may be limited. Please consult our application guide.





FUSOMAT 250 to 1250 A

Remote trip fuse combination switches

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FUSOMAT DIN STANDARD REMOTE TRIP FUSE COMBINATION SWITCHES

DIN STANDARD FUSOMAT



FUSOM 010 A T

Switch Type	AC22/A 400 V	AC23/A 400 V	AC23/kW 400 V	No of Poles	Fuse Size	Reference Number
Fusomat	250	250	132	3	1	3650 3026
				4		3650 6026
	400	400	220	3	2	3650 3041
				4		3650 6041
	630	630	355	3	3	3650 3064
				4		3650 6064
	1250	1000	560	3	4	3650 3121
				4		3650 6121

Switches supplied with 230 V ± 10 % shunt trip coil as standard

FUSOMAT BS STANDARD REMOTE TRIP FUSE COMBINATION SWITCHES

BS STANDARD FUSOMAT



FUSOM 028 A T

Switch Type	AC22/A 400 V	AC23/A 400 V	AC23/kW 400 V	No of Poles	Fuse Size	Reference Number
Fusomat	250	250	132	3	B1-B3	3660 3026
				4		3660 6026
	400	400	220	3	B1-B4	3660 3041
				4		3660 6041
	630	630	375	3	C1-C2	3660 3064
				4		3660 6064
	800	800	450	3	C1-C3	3660 3080
				3 + N		3660 4080
	1250	1000	560	3	D1	3660 3121
				4		3660 6121

Switches supplied with 230 V ± 10 % shunt trip coil as standard

ALTERNATIVE COILS

Coil Voltage	Tolerance	Shunt Trip	Under voltage
		Reference Number	Reference Number
24 V AC	± 10 %	3991 1024	3991 3024
48 V AC	± 10 %	3991 1048	3991 3048
110 V AC	± 10 %	3991 1110	3991 3110
230 V AC	± 10 %	included	3991 3220
400 V AC	± 10 %	3991 1380	3991 3380
12 V DC	± 5 %	3991 2012	3991 4012
24 V DC	± 5 %	3991 2024	3991 4024
48 V DC	± 5 %	3991 2048	3991 4048
110 V DC	± 5 %	3991 2110	3991 4110
220 V DC	± 5 %	3991 2220	3991 4220

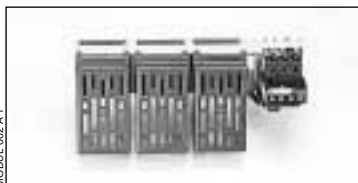
Note : these are additional prices for other coils when ordered at the same time as switches.

PROTECTION MODULES

EARTH LEAKAGE PROTECTION MODULE

Rating (A)	Auxiliary Supply	3 Pole Switch	4 Pole Switch
		Reference Number	Reference Number
250	230 - 400 V AC	3993 3325	3993 3425
	24V DC	3993 6325	3993 6425
400	230 - 400 V AC	3993 3340	3993 3440
	24V DC	3993 6340	3993 6440
630	Please refer to page 128 of control & protection section		

3 PHASE THERMAL PROTECTION

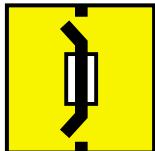


MODUL 002 A T

Motor circuit protection			
	250 A		3992 2250
	400 A		3992 2400
Distribution circuit protection			
	250 A		3992 1250
	400 A		3992 1400
	630 A		■



NOTES: Switches supplied as standard with 230 V AC +/- 10% AC - 5% DC shunt trip coil
■ Please consult us



FUSOMAT 250 to 1250 A

Remote trip fuse combination switches

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FUSOMAT ACCESSORIES

OPERATION HANDLES

	Rating (A)	Reference Number
Direct operation handle	250 to 800	3999 6201
Direct operation handle	1250	3999 6012
Door interlocked operation handle	250 to 1250	3999 6202
Integrated Ronis interlock for direct and external operation	250 to 1250	3999 8104

SHAFT EXTENSIONS

Shaft length	Maximum Dimensions - Backplate to Door (A)			Reference Number
	250 - 400	630 - 800	1250	
200 mm	543 mm	635 mm	681 mm	2799 3012
450 mm	775 mm	890 mm	931 mm	2799 3019

TERMINAL SHROUDS

Rating (A)	No of poles	Shroud Side ⁽¹⁾	Reference Number
250 - 400	3	top or bottom	3998 3040
	4	top or bottom	3998 4040
630 - 800	3	top or bottom	3998 3063
	4	top or bottom	3998 4063
1250	3	top	3998 3120
	4	top	3998 4120

AUXILIARY CONTACT

Rating (A)	Description	Contacts	Current (A)	Reference Number
250 - 1250	1st micro-switch	1 NO / NC	16	3999 0051
	2 nd micro switch (fits onto 1st)	1 NO / NC	16	3999 0052
	Trip indication auxiliary	1 NO / NC	16	3999 0031

FUSE BLOWN INDICATORS

Rating (A)	Description	No of poles	Reference Number
250 - 400	Fuse blown indicator with 1 NO/NC auxiliary	3	3994 1304
		4	3994 1404
630 - 800	Fuse blown indicator with 1 NO/NC auxiliary	3	3994 1306
		4	3994 1406
1250	Fuse blown indicator with 1 NO/NC auxiliary	3	3994 1312
		4	3994 1412
250 - 1250	Additional auxiliary contact for fuse blown indicator		3994 1902

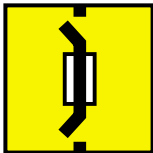
For use with DIN fuses + striker

REPLACEMENT TRIPPING COILS

Coil Voltage	Tolerance	Shunt trip	Under Voltage
		Reference Number	Reference Number
24 V AC	10 %	3990 1024	3990 3024
48 V AC	10 %	3990 1048	3990 3048
110 V AC	10 %	3990 1110	3990 3110
230 V AC	10 %	3990 1220	3990 3220
400 V AC	10 %	3990 1380	3990 3380
12 V DC	5 %	3990 2012	3990 4012
24 V DC	5 %	3990 2024	3990 4024
48 V DC	5 %	3990 2048	3990 4048
110 V DC	5 %	3990 2110	3990 4110
220 V DC	5 %	3990 2220	3990 4220

NOTES: 1. To fully shroud switches you require 2 x terminal shroud





FUSOMAT 250 to 1250 A

Remote trip fuse combination switches

IEC
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FUSOMAT ELECTRICAL & MECHANICAL CHARACTERISTICS

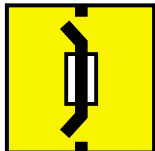
According to IEC 947-3, EN60947-3, BS EN60947-3

Thermal current I _{th} (40 °C)	250 A	400 A	630 A	800 A	1 250 A
BS 88 fuse size	B1 - B3	B1 - B4	C1 - C2	C3	D1
DIN standard fuse size	1	2	3	-	4
Rated insulation voltage U _i (V)	1000	1000	1000	1000	1000
Rated impulse withstand voltage U _{imp} (KV)	12	12	12	12	12
Dielectric strength (V) 50Hz 1min	8000	8000	8000	8000	10000
Rated Operational current I _e (A)					
AC23 B 400V	250	400	630	800	1000
Motor 500V	250	400	500	630	800
690V ⁽¹⁾	200	315	400	400	630
AC22 B 400V	250	400	630	800	1250
Distribution 500V	250	400	630	800	1000
690V	200	400	630	630	1000
DC20 B 500V	250	400	630	800	1250
DC21 B 500V	200	315	630 ⁽²⁾	800 ⁽²⁾	1250 ⁽³⁾
DC22 B 500V	200	315 ⁽²⁾	630 ⁽²⁾	800 ⁽²⁾	1250 ⁽³⁾
DC23 B 500V	200	315 ⁽²⁾	630 ⁽²⁾		1000 ⁽²⁾
Operational power - AC23B (KW)					
400V	132	220	355	450	560
500V	160	280	355	450	560
690V	185	295	400	400	600
Fuse protected short circuit withstand					
Maximum BS 88 fuse rating (A) type gG or aM					
Conditional short circuit current					
at 50 KA rms presumed (U _e 400V)	200M315	400M500	630	800	1250
at 80 KA rms presumed (U _e 400V)	⁽⁴⁾	⁽⁴⁾	⁽⁴⁾	⁽⁴⁾	⁽⁴⁾
Fuse selection (BS88)					
SOCOME					
Standard	6B300250	6B400400	6C200630 ⁽⁴⁾	6C300800	6D101250
Motor max	6B2M0315	6B4M0500 ⁽⁴⁾			
GEC					
Standard max	TKF250	TMF400	TTM630 ⁽⁴⁾	TLM800 ⁽⁴⁾	TXU1250
Motor max	TF200M315	TMF400M450			
Bussmann					
Standard max	ED250	ED400	FF630 ⁽⁴⁾	GF800 ⁽⁴⁾	GH1250
Motor max	DO200M315	ED400M500 ⁽⁴⁾			
Lawson					
Standard max	TKF250	TMF400	TT630 ⁽⁴⁾	TLM800 ⁽⁴⁾	N/A
Motor max	TF200M315	TMF400M450 ⁽⁴⁾			
Fuse protected short-circuit making capacity					
Short circuit current (KA rms presumed)	100	100	100	100	100
Fuse switch cut-off current (KA peak)	40	45	58	60	109
Making & Breaking characteristics					
Breaking capacity : 400V AC23B (A)	2000	3200	5040	6400	8000
Making capacity : 400V AC23B (A)	2500	4000	6300	8000	10000
Mechanical Endurance (number of operation)	8000	8000	5000	5000	5000
Operating force (Nm)	35	35	42	42	42
Maximum torque settings (Nm)					
On terminal bolt	25.48	25.48	44.10	-	-
On fuse bolt	12.75	12.75	25.48	25.48	44.10
Connection (copper)					
Minimum at I _{th} (mm ²) (According to IEC 947-3)	95	185	2 x 150	2 x 185	2 x 60 x 5
Maximum cables at I _{th} (mm ²) / bars (mm)	240	240/40	2 x 300/63	2 x 300/63	4 x 185/100
Weight (Kg)					
3-pole switch	7	8	16	16	28
4-pole switch	8.5	9.5	19	19	33



NOTES: 1. With terminal shrouds or phase barrier shield
2. poles not placed side by side
3. 2 poles in series per polarity

4. Please ensure that the cut off current of the fuse does not exceed the values given for the fuse switches



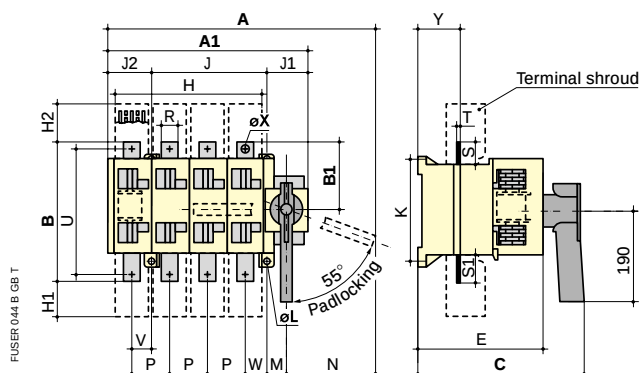
FUSOMAT 250 to 1250 A

Remote trip fuse combination switches

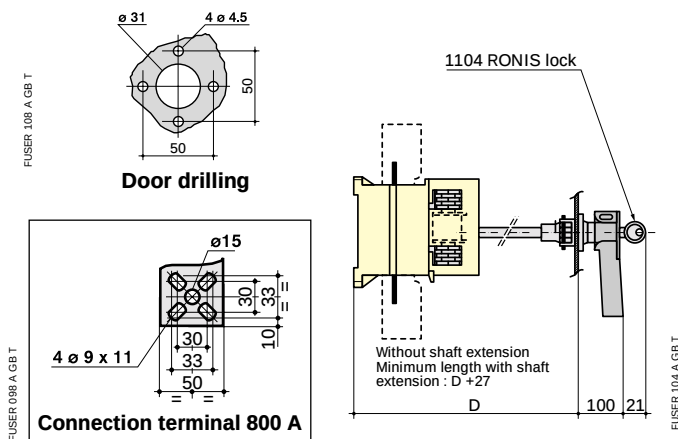
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DIMENSIONS (mm)

FUSOMAT 250 TO 800 A WITH DIRECT FRONT OPERATION



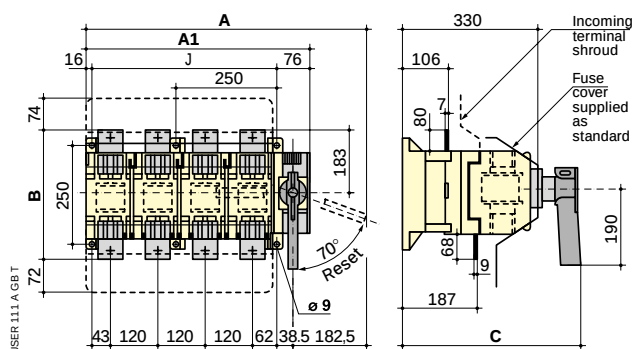
FUSOMAT 250 TO 800 A WITH EXTERNAL FRONT OPERATION



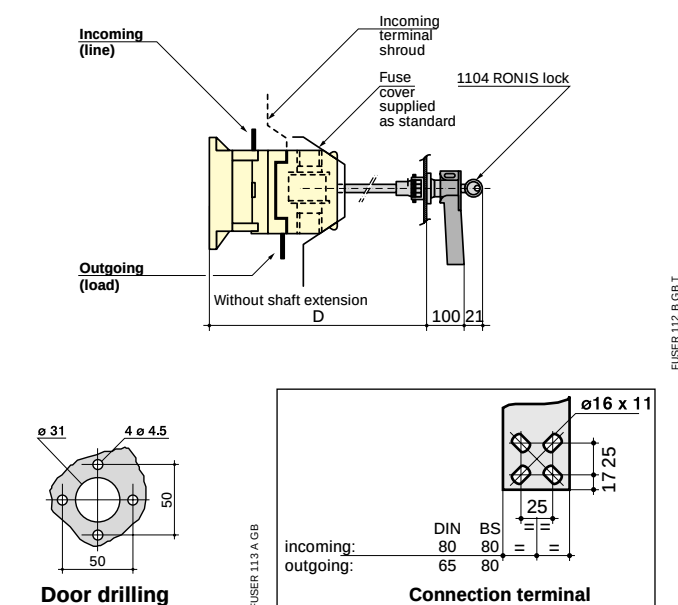
	OVERALL DIMENSIONS														SWITCH MOUNTING				CONNECTION TERMINALS											
Rating (A)	A	A ₁	B	B ₁	C	D	E	H	H ₁	H ₂	J	J ₁	J ₂	K	ø	L	M	N	P	R	S	S ₁	T	U	V	W	ø	X	Y	Z
3 x 250	435	285	238	115	307	293 to 343	221	190	71	79	210	65	10	180	7	32.5	182.5	65	32	35	43	3	208	40.5	39.5	11	67	15		
4 x 250	495	345	238	115	307	293 to 343	221	255	71	79	210	65	70	180	7	32.5	182.5	65	32	35	43	3	208	24.5	39.5	11	67	15		
3 x 400	435	285	238	115	307	293 to 343	221	190	71	79	210	65	10	180	7	32.5	182.5	65	32	35	43	5	208	40.5	39.5	13	69	15		
4 x 400	495	345	238	115	307	293 to 343	221	255	71	79	210	65	70	180	7	32.5	182.5	65	32	35	43	5	208	24.5	39.5	13	69	15		
3 x 630	487	345.5	300	150	348	341 to 440	268	235	85	85	250	76	19.5	250	9	38.5	179	80	50	50	50	7	260	45.5	44.5	13	72	20		
4 x 630	567	425.5	300	150	348	341 to 440	268	315	85	85	250	76	99.5	250	9	38.5	179	80	50	50	50	7	260	34.5	44.5	13	72	20		
3 x 800*	470	345.5	320	150	348	341 to 440	268	235	75	75	250	76	19.5	250	9	38.5	179	80	50	50	50	7	267	45.5	44.5	13	72	20		
4 x 800*	550	425.5	320	150	348	341 to 440	268	315	75	75	250	76	99.5	250	9	38.5	179	80	50	50	50	7	267	34.5	44.5	13	72	20		

* BS (only)

FUSOMAT 1250 A WITH DIRECT FRONT OPERATION



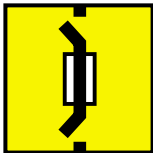
FUSOMAT 1250 A WITH EXTERNAL FRONT OPERATION



Rating (A)	OVERALL DIMENSIONS					SWITCH MOUNTING	
	A	A ₁	B	C	D	J	
3 x 1250	581	437	363	433	416 to 481	345	
4 x 1250	701	557	363	433	416 to 481	465	

NOTES:



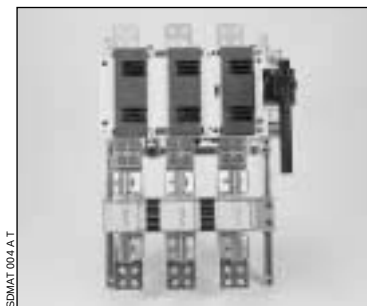


SIDERMAT COMBINATION 630 to 1800 A

Remote trip switch fuses

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DIN STANDARD SIDERMAT COMBINATION SWITCHES



Switch Type	AC22/A 400 V	AC23/A 400 V	AC23/kW 400 V	No of Poles	DIN Fuse Size	Reference Number
Sidermat Combination	630	630	355	3	3	3520 3063
				4		3520 6063
	800	800	355	3	4	3520 3080
				4		3520 6080
	1250	1250	710	3	4	3520 3120
				4		3520 6120
	1600	1600	900	3	2 x 4	3520 3160
				4		3520 6160
	1800	1600	900	3	2 x 4	3520 3180
				4		3520 6180

Switches supplied with 230 V $\pm 10\%$ shunt trip coil and fuse blown indicators as standard

OPERATION HANDLES

	Rating (A)	Reference Number
Direct operation handle	630 to 1800	3999 6203
Door interlocked operation handle	630 to 1800	3999 6202
Integrated Ronis interlock for direct and external operation	630 to 1800	3999 8104

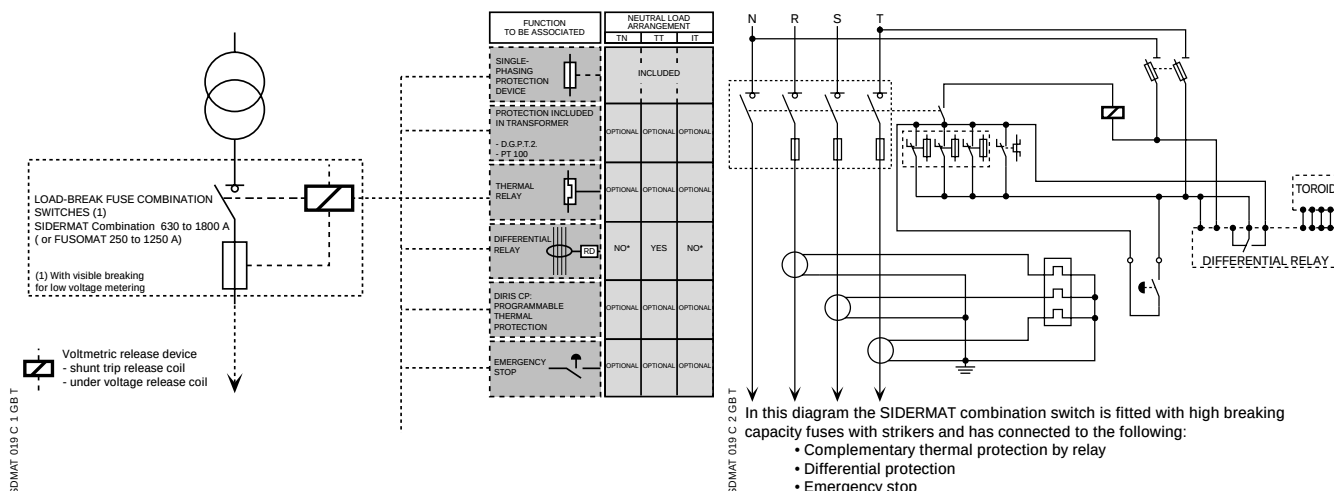
TERMINAL SHROUDS

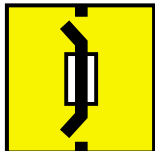
	Rating (A)	No of poles	Shroud side	Reference Number
Terminal shrouds	630	3	top or bottom	3998 3063
		4	top or bottom	3998 4063
Terminal screen	800 - 1600	3	top or bottom	2998 3120
		4	top or bottom	2998 4120
		3	top or bottom	2998 3180
		4	top or bottom	2998 4180
Phase separation shields	1250 - 1800	3		2998 0003
		4		2998 0004

OTHER ACCESSORIES

Adaptation to other coil voltages	Please refer to Fusomat section pages 92
Shaft extensions	Please refer to Fusomat section pages 93
Auxiliary contacts	Please refer to Fusomat section pages 93

TYPICAL WIRING DIAGRAM - TRANSFORMER PROTECTION





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SIDERMAT COMBINATION ELECTRICAL & MECHANICAL CHARACTERISTICS

According to IEC 947-3, EN60947-3, BS EN60947-3

Thermal current I _{th} (40 °C)	630 A	800 A	1250 A	1600 A	1800 A
DIN standart fuse size	3	4	4	2 x 4	2 x 4
Rated insulation voltage U _i (V)	1000	1000	1000	1000	1000
Rated impulse withstand voltage U _{imp} (KV)	12	12	12	12	12
Dielectric strength (V) 50Hz 1min	8000	8000	10000	10000	10000
Rated Operational current I _e (A)					
AC23 B 400V	630	630	1250	1600	1600
Motor 500V	630	630	1000	1250	1250
690V	500	500	800	1000	1000
AC22 B 400V	630	800	1250	1600	1800
Distribution 500V	630	800	1250	1600	1600
690V	630	800	1000	1250	1250
DC20 500V	630	800	1250	1600	1800
DC21	630	800	1250	1600	1600
DC22	630 ⁽¹⁾	800 ⁽¹⁾	1250 ⁽²⁾	1600 ⁽²⁾	1600 ⁽²⁾
DC23	630 ⁽¹⁾	800 ⁽¹⁾	1250 ⁽²⁾	1250 ⁽²⁾	1250 ⁽²⁾
Operational power - AC23B (KW)					
400V	355	355	710	900	900
500V	450	450	710	900	900
690V	475	475	750	900	900
Fuse protected short circuit withstand					
Maximum BS 88 fuse rating (A) type gG or gM					
Conditional short circuit current at 50 KA rms presumed (U _e 400V)	630	800	1250	2 x 800	2 x 900
at 80 KA rms presumed (U _e 400V)	⁽³⁾	⁽³⁾	⁽³⁾	⁽³⁾	⁽³⁾
Transformer 400 V (kVA)	400	500	800	1 000	1250
Reactive Power 400 V (kVAr)	290	365	575		
Fuse protected short-circuit making capacity					
Short circuit current (KA rms presumed)	100	100	100	100	100
Fuse rating	630	800	1250	2 x 800	2 x 900
Making & Breaking characteristics					
Breaking capacity : 400V AC23B (A)	5040	5040	10000	12800	12800
Making capacity : 400V AC23B (A)	6300	6300	12500	16000	16000
Operating force (Nm)	42	42	42	42	42
Connection (copper)					
Minimum at I _{th} (mm ²) (According to IEC 947-3)	2 x 150	2 x 185	-	-	4 x 240
Maximum cables at I _{th} (mm ²) / bars (mm)	2 x 300	2 x 300	4 x 185	6 x 240	8 x 240
Minimum bar width (mm)	2 x 30 x 5	2 x 40 x 5	2 x 60 x 5	2 x 80 x 5	-
Maximum bar width (mm)	63	100	100	100	100
Weight (Kg)					
3-pole switch	20	25	27	54	59
4-pole switch	24	30	32	70	75

NOTES: 1. Don't use middle pole on 3 pole switch
2. 2 poles in series by polarity

3. Please ensure that the cut off current of the fuse links does not exceed the values given for the fuse switches





SIDERMAT COMBINATION 630 to 1800 A

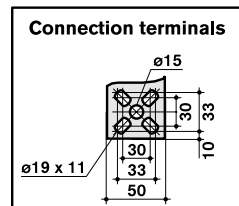
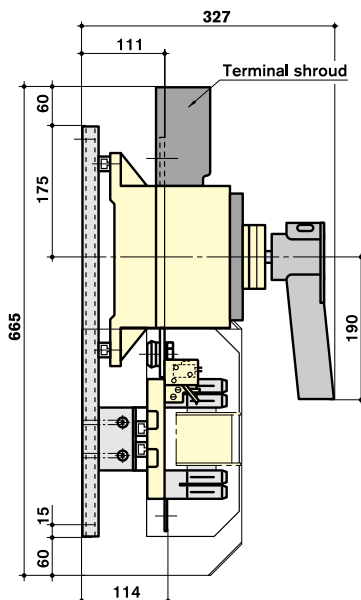
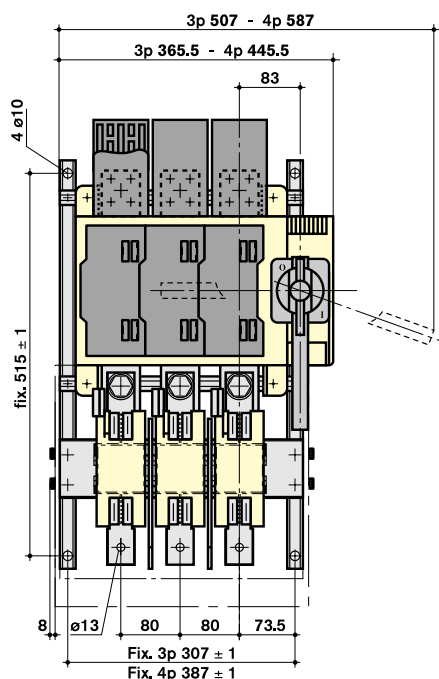
Remote trip switch fuses

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DIMENSIONS 3 AND 4 POLES

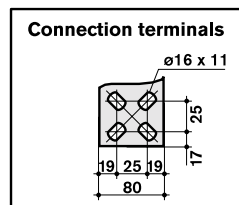
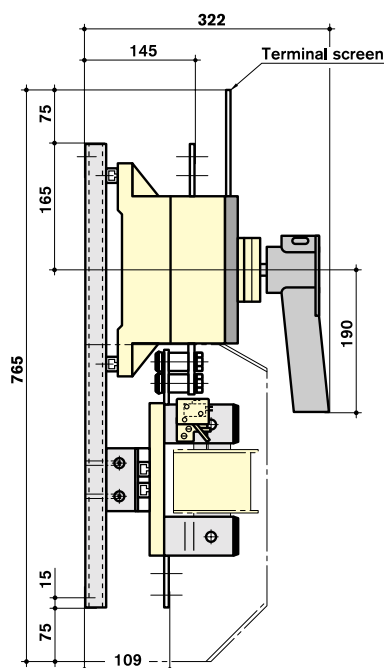
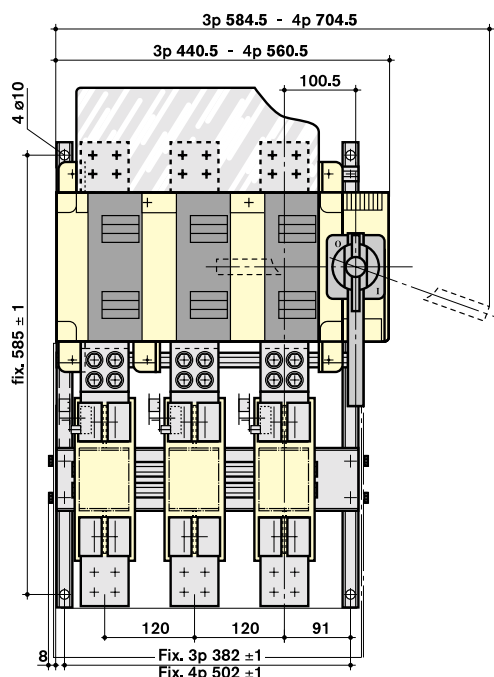
SIDERMAT COMBINATION 630 A WITH DIRECT FRONT OPERATION

SDMAT 006 A GB T

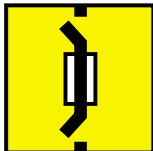


SIDERMAT COMBINATION 800 - 1250 A WITH DIRECT FRONT OPERATION

SDMAT 005 VB GB T



NOTES:



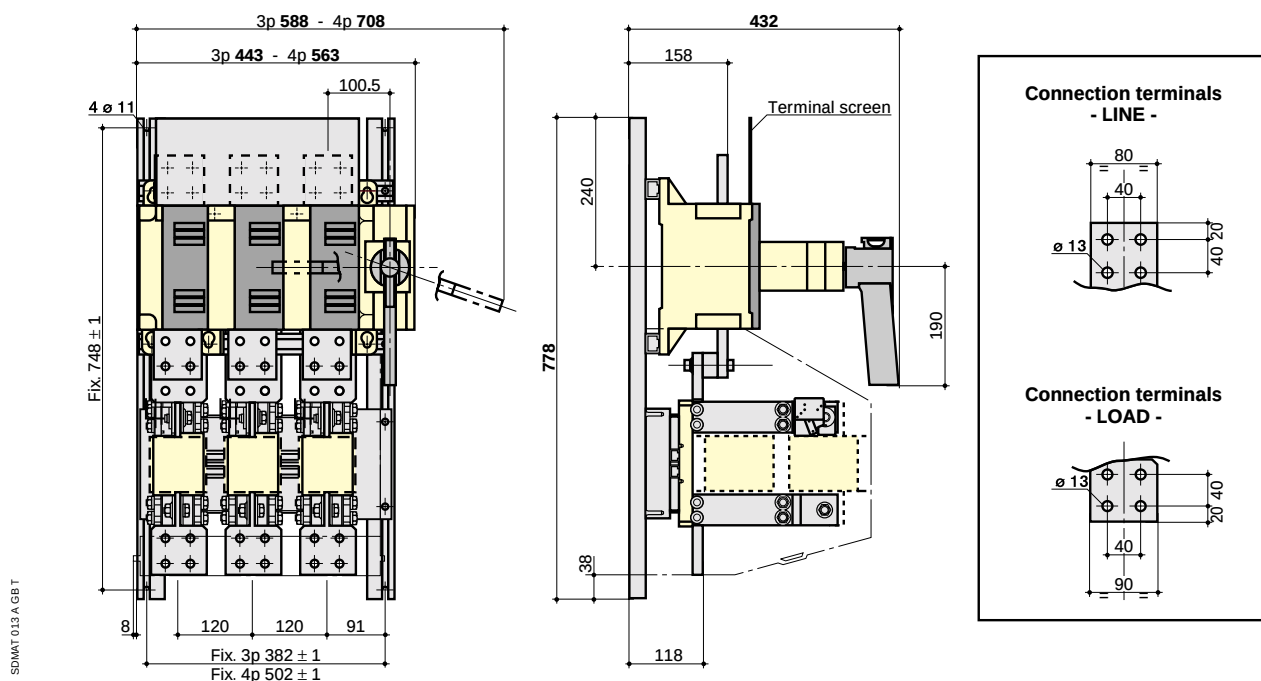
SIDERMAT COMBINATION 630 to 1800 A

Remote trip switch fuses

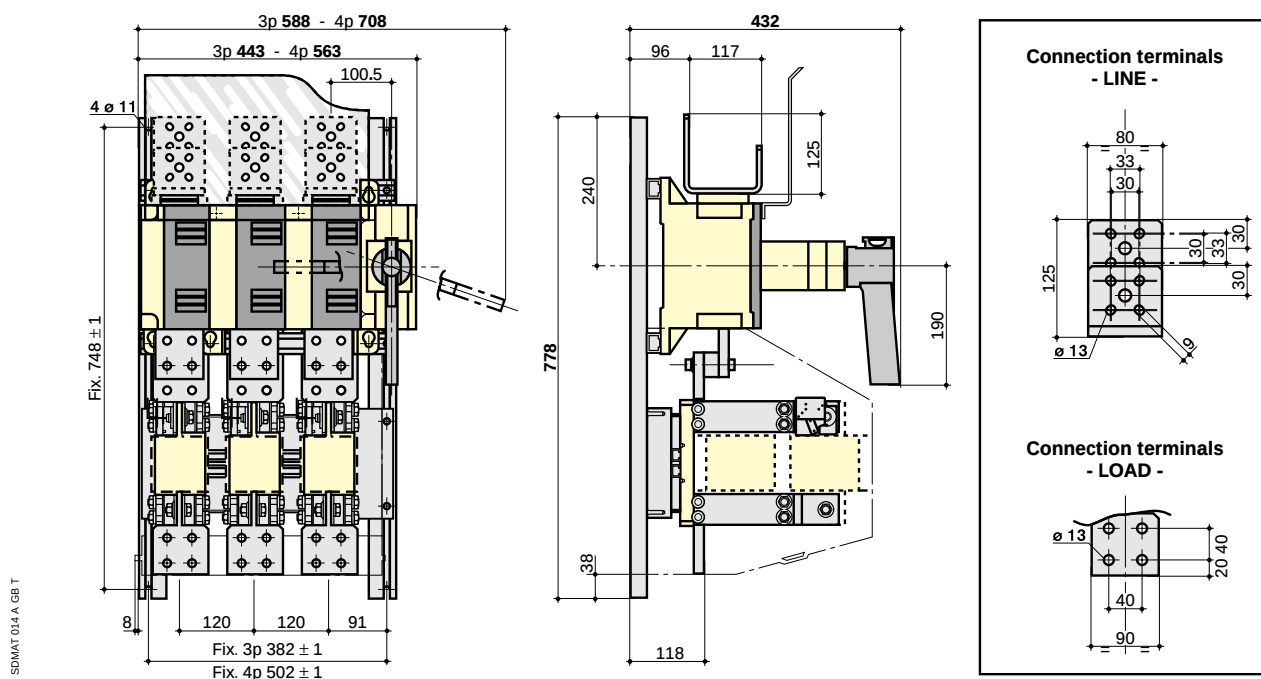
IEC
947-3

DIMENSIONS 3 AND 4 POLES

SIDERMAT COMBINATION 1600 A WITH DIRECT FRONT OPERATION



SIDERMAT COMBINATION 1800 A WITH DIRECT FRONT OPERATION



NOTES:

