

FUSERBLOC BS88

Fuse combination switches

from 20 to 1250 A



fuser_572.eps

Function

FUSERBLOC BS 88 units with right front-side operation are manually-operated multipole fuse load break switches. They provide make and break on load and safety isolation and protection against overcurrent for any low voltage electrical circuit. This range is available in direct and external operation, in 2, 3 and 4 poles and up to 1250 A.

Advantages

Improved safety

The double phase isolator (upstream/downstream of the fuse) and fully visible isolation guarantee the safety of people and equipment against overcurrents.

High breaking capacity

High breaking capacity fuses (100 kA rms) provide protection against overloads and shortcircuits.

Multi-use

The unit can be equipped with front or side operation handle, mounted directly on the product, or outside, with the possibility of installing it on the door or on the side of an electrical box or cabinet).

Simplified use

The TEST position enables testing of the control circuits without turning on the power thanks to the use of U-type auxiliary contacts. In the TEST position, the cabinet door can be opened.

General characteristics

- For industrial fuses up to 1250 A.
- 2P, 3P or 4P available.
- Up to 690 VAC.
- Up to 100 kA.

The solution for

- > Data centre
- > Healthcare
- > Industry
- > Building

Strong points

- > Improved safety
- > High breaking capacity
- > Multi-use
- > Simplified use

A complete range

- > Centred or left side operation, rear connections, plug-in connections. Please consult us.

Conformity to standards

- > IEC 60947-3
- > BS EN 60947-3
- > IEC 60269-1
- > IEC 60269-2



Approvals and certifications⁽¹⁾

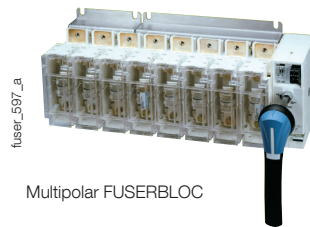


Lloyd's Register



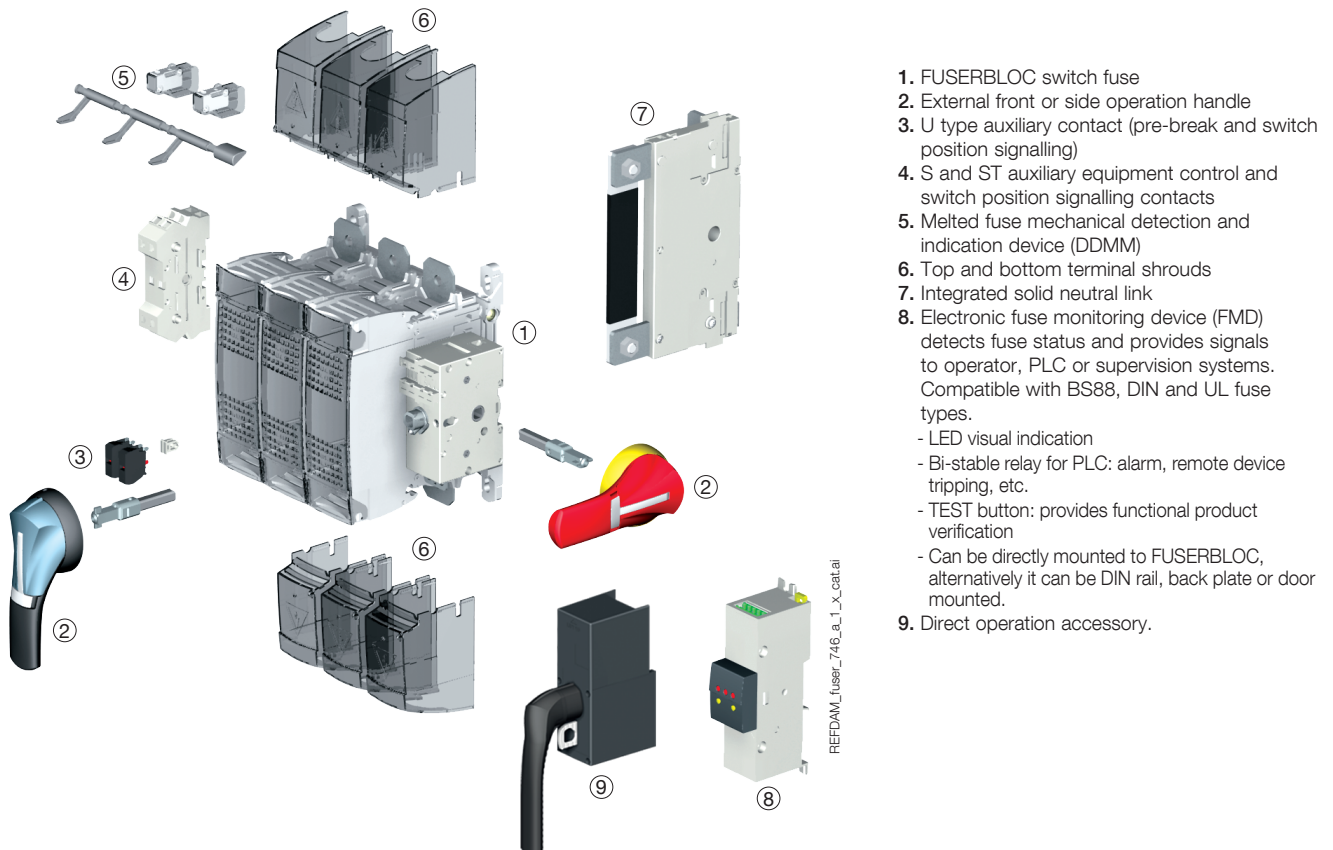
⁽¹⁾ Product reference on request.

Customised solutions



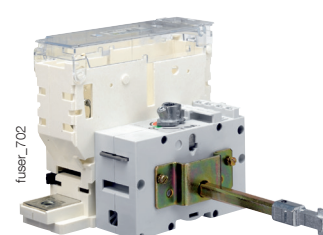
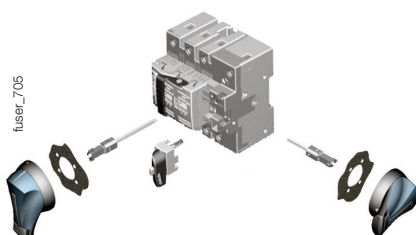
What you need to know

- In addition to the FUSERBLOC rating, product selection also depends on the fuse characteristics and functional specifications, which need to be in accordance with the application. SOCOMEC FUSERBLOC are available for utilisation with **NFC, DIN or BS88 fuses**.



- Whether it is 3 pole + switched neutral or 3 pole + solid neutral, the **FUSERBLOC CD 20 and CD 32 A with direct front operation and external operation** is the best suited solution in compact design.

- For ratings CD 20 to 400 A, the **flat mounting kit** provides a compact solution ideally suited to withdrawable applications.
- Maintenance of outputs from the DC common bus.



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References

BS 88 - External front and side operation - 20 to 160 A

Rating (A) Fuse size Frame size	Number of poles	Reference Switch I - 0 - TEST	External front handle I - 0	TEST External front handle I - 0 - TEST	External right side handle I - 0	Shaft extensions for handle	Terminal shrouds ⁽³⁾	U type A/C ⁽²⁾	Integrated solid neutral link																	
CD 20 A A1 0	3 P	3641 3000	S1 type Black IP65 1413 2111 ⁽¹⁾ Red/Yellow IP65 1414 2111	S1 type Black IP65 1413 2115 ⁽¹⁾ Red/Yellow IP65 1414 2115	S1 type Black IP65 1417 2111 ⁽¹⁾ Red/Yellow IP65 1418 2111	320 mm 1401 0532		1 contact NO 3999 0701 1 contact NC 3999 0702	3829 9310																	
	3 P + switched neutral	3641 4000																								
	3 P+solid neutral	3641 5000																								
CD 32 A A1 0	3 P	3641 3001								320 mm 1400 1032																
	3 P + switched neutral	3641 4001																								
	3 P + solid neutral	3641 5001																								
32 A A1 11	2 P	3841 2003									1 contact NO 3999 0701 1 contact NC 3999 0702	3829 9310														
	3 P	3841 3003																								
	4 P	3841 6003																								
63 A A2-A3 12	2 P	3841 2006											S2 type Black IP65 1423 2111 ⁽¹⁾ Red/Yellow IP65 1424 2111	S2 type Black IP65 1423 2115 ⁽¹⁾ Red/Yellow IP65 1424 2115	S2 type Black IP65 1427 2111 ⁽¹⁾ Red/Yellow IP65 1428 2111	320 mm 1400 1032	2 P 3998 2016 3 P 3998 3016 4 P 3998 4016	3829 9320								
	3 P	3841 3006																								
	4 P	3841 6006																								
100 A A4 ⁽⁴⁾ 13	2 P	3841 2010					320 mm 1400 1032	2 P 3998 2016 3 P 3998 3016 4 P 3998 4016	3829 9320																	
	3 P	3841 3010																								
	4 P	3841 6010																								
CD 160 A A3-A4 ⁽⁴⁾ 13 A	2 P	3841 2014																			320 mm 1400 1032	2 P 3998 2016 3 P 3998 3016 4 P 3998 4016	3829 9320			
	3 P	3841 3014																								
	4 P	3841 6014																								
160 A A4 14	2 P	3841 2015																						320 mm 1400 1032	2 P 3998 2016 3 P 3998 3016 4 P 3998 4016	3829 9320
	3 P	3841 3015																								
	4 P	3841 6015																								
160 A B1-B2 14	2 P	3841 2016														320 mm 1400 1032	2 P 3998 2016 3 P 3998 3016 4 P 3998 4016	3829 9320								
	3 P	3841 3016																								
	4 P	3841 6016																								

(1) Standard.

(2) 4 auxiliary contacts as standard; additional auxiliary contact holder provides capacity for 4 more.

(3) Top or bottom; to shroud incoming and outgoing side order quantity 2.

(4) For fuse size A4: max diameter 31 mm.

BS 88 - External front and side operation - 200 to 1250 A

Rating (A) Fuse size Frame size	Number of poles	Reference Switch I - 0 - TEST	External front handle I - 0	TEST External front handle I - 0 - TEST	External right side handle I - 0	Shaft extensions for handle	Terminal shrouds ⁽³⁾	U type A/C ⁽²⁾	Integrated solid neutral link	
CD 200 A A3-A4 (4) 13 A	2 P	3841 2019	S2 type Black IP65 1423 2111 ⁽¹⁾ Red/Yellow IP65 1424 2111	S2 type Black IP65 1423 2115 ⁽¹⁾ Red/Yellow IP65 1424 2115	S2 type Black IP65 1425 2111 ⁽¹⁾ Red/Yellow IP65 1428 2111	320 mm 1400 1032	2 P 3998 2016 3 P 3998 3016 4 P 3998 4016	1 contact NO 3999 0701 1 contact NC 3999 0702	3829 9320	
	3 P	3841 3019								
	4 P	3841 6019								
200 A B1-B2 15	2 P	3841 2021							3829 9325	
	3 P	3841 3021								
	4 P	3841 6021								
250 A B1-B2-B3 15	2 P	3841 2024							3829 9339	
	3 P	3841 3024								
	4 P	3841 6024								
315 A B1-B2-B3 16	2 P	3841 2032							3829 9339	
	3 P	3841 3032								
	4 P	3841 6032								
400 A B1-B2-B3-B4 16	2 P	3841 2039							3829 9339	
	3 P	3841 3039								
	4 P	3841 6039								
630 A C1-C2 17	2 P	3821 2063	S3 type Black IP65 1433 3111 ⁽¹⁾ Red/Yellow IP65 1434 3111		S3 type Black IP65 1437 3111 ⁽¹⁾ Red/Yellow IP65 1438 3111	320 mm 1400 1232	2 P 3898 2080 3 P 3898 3080 4 P 3898 4080	1 contact NO 3999 0701 1 contact NC 3999 0702	3829 9308	
	3 P	3821 3063								
	4 P	3821 6063								
800 A C1-C2-C3 17	2 P	3821 2080							3829 9312	
	3 P	3821 3080								
	4 P	3821 6080								
1250 A D1 18	2 P	3821 2120	S4 type						3898 2120	3829 9312
	3 P	3821 3120	Black IP65 1443 3111 ⁽¹⁾				3898 3120			
	4 P	3821 6120					3898 4120			

(1) Standard.

(2) Please refer to the accessories section for auxiliary contact capacity.

(3) Top or bottom; to shroud incoming and outgoing side order quantity 2.

(4) For fuse size A4: max diameter 31 mm.

(5) Terminal shrouds: 3 P - 3998 3025, 4 P - 3998 4025.

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Accessories

Direct front operation handle assembly

Rating (A)	Frame size	Command	Handle colour	Reference
50 - 160	11-12-13-14	I-O-TEST	Black	3999 5020
250 - 400	15-16	I-O-TEST	Black	3999 5021

Padlockable in position 0



Direct front-operation handle

Front operation				
Rating (A)	Frame size	Figure N°	Handle colour	Reference
CD 20 - CD 32	0	1	Black	3629 4012
CD 20 - CD 32	0	1	Red	3629 4013
630 - 800	17	2	Black	3899 6011
800 - 1250	18	3	Black	1141 3011



Fig. 1



Fig. 2



Fig. 3

External front operation handle – Padlockable in position 0

Padlockable handle in position 0							
Rating (A)	Frame size	Handle type	Handle colour	Operation	External IP ⁽¹⁾	Defeatable handle	Reference
CD 20 ... 63	0/11/12	S1	Black	I - 0	IP55	Yes	1411 2111
CD 20 ... 63	0/11/12	S1	Black	I - 0	IP65	Yes	1413 2111
CD 20 ... 63	0/11/12	S1	Red/Yellow	I - 0	IP65	Yes	1414 2111
CD 20 ... 63	0/11/12	S1	Black	I - 0 - Test	IP65	Yes	1413 2115
CD 20 ... 63	0/11/12	S1	Red/Yellow	I - 0 - Test	IP65	Yes	1414 2115
100 ... 400	13 ... 16	S2	Black	I - 0	IP55	Yes	1421 2111
100 ... 400	13 ... 16	S2	Black	I - 0	IP65	Yes	1423 2111
100 ... 400	13 ... 16	S2	Red/Yellow	I - 0	IP65	Yes	1424 2111
100 ... 400	13 ... 16	S2	Black	I - 0 - Test	IP65	Yes	1423 2115
100 ... 400	13 ... 16	S2	Red/Yellow	I - 0 - Test	IP65	Yes	1424 2115
630 ... 800	17	S3	Black	I - 0	IP65	Yes	1433 3111
630 ... 800	17	S3	Red/Yellow	I - 0	IP65	Yes	1434 3111
800 ... 1250	18	S4	Black	I - 0	IP65	Yes	1443 3111
800 ... 1250	18	S4	Red/Yellow	I - 0	IP65	Yes	1444 3111

(1) IP: protection degree according to IEC 60529 standard.

External front operation handle – Padlockable in positions 0 and I

Padlockable handle in position 0 and I						
Rating (A)	Frame size	Handle type	Handle colour	External IP ⁽¹⁾	Reference	
CD 20 ... 63	0/11/12	S1	Black	IP65	1413 2311	
100 ... 400	13 ... 16	S2	Black	IP65	1423 2311	

(1) IP: protection degree according to IEC 60529 standard.



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External side operation handle – Padlockable in positions 0 and I

Rating (A)	Frame size	Handle type	Handle colour	External IP ⁽¹⁾	Reference
CD 20 ... 63	0/11/12	S1	Black	IP55	1415 2111
CD 20 ... 63	0/11/12	S1	Black	IP65	1417 2111
CD 20 ... 63	0/11/12	S1	Red/Yellow	IP65	1418 2111
100 ... 400	13 ... 16	S2	Black	IP55	1425 2111
100 ... 400	13 ... 16	S2	Black	IP65	1427 2111
100 ... 400	13 ... 16	S2	Red/Yellow	IP65	1428 2111
630 ... 1250	17/18	S3	Black	IP65	1437 3111
630 ... 1250	17/18	S3	Red/Yellow	IP65	1438 3111

(1) IP: protection degree according to IEC 60529 standard.



External front operation handle with metal lever – Padlockable in positions 0 and I

Rating (A)	Frame size	Handle type	Handle colour	External IP ⁽¹⁾	Defeatable handle	Reference
CD 20 ... 63	0/11/12	S1	Black	IP65	Yes	141D 2911
CD 20 ... 63	0/11/12	S1	Red/Yellow	IP65	Yes	141E 2911
100 ... 400	13 ... 16	S2	Black	IP65	Yes	142D 2911
100 ... 400	13 ... 16	S2	Red/Yellow	IP65	Yes	142E 2911
630 ... 800	17	S3	Black	IP65	Yes	143D 3911
630 ... 800	17	S3	Red/Yellow	IP65	Yes	143E 3911
800 ... 1250	18	S4	Black	IP65	Yes	144D 3911
800 ... 1250	18	S4	Red/Yellow	IP65	Yes	144E 3911

(1) IP: protection degree according to IEC 60529 standard.



S-type handle adapter

Use

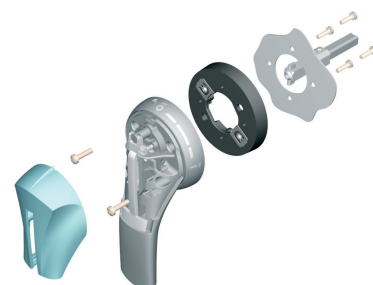
Enables S-type handles to be fitted in place of existing older style Socomec handles.
Adapter can be utilised as a spacer to increase the distance between the panel door and the handle lever.

Dimensions

Adds 12 mm to the depth of the handle.

Handle colour	To be ordered in multiples of	External IP ⁽¹⁾	Reference
Black	1	IP65	1493 0000

(1) IP: protection degree according to IEC 60529 standard.



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Alternative S-type handle cover colours

Use

For single lever handles S1, S2, S3 types and double lever handle, S4 type.
Other colours: please consult us.

Handle colour	To be ordered in multiples of	Handle type	Reference
Light grey	50	S1, S2	1401 0001
Dark grey	50	S1, S2	1401 0011
Light grey	50	S4	1401 0031
Dark grey	50	S4	1401 0041



S2 type handle.

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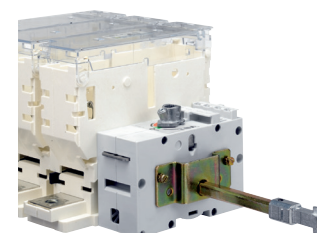
Accessories (continued)

Flat mounting kit

Use

The flat mounting kit provides a compact solution ideally suited to withdrawable applications.

Kit to be used with a handle for flat mounting.



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Rating (A)	Frame size	Type	Reference
CD 20 ... CD 32	0	Kit + Shaft 200 mm	1429 7709
32 ... 400	11 ... 16	Kit + Shaft 200 mm	1429 7710

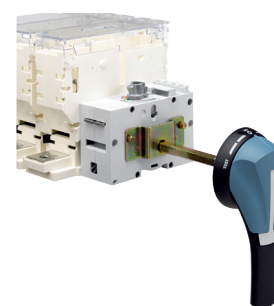
Handle for flat mounting kit

Padlockable handle in position 0

Rating (A)	Frame size	Handle type	Handle colour	External IP ⁽¹⁾	Reference
CD 20 ... 63	0/11/12	S1	Black	IP55	1411 2111 ⁽²⁾
CD 20 ... 63	0/11/12	S1	Red/Yellow	IP65	1414 2111 ⁽²⁾
100 ... 400	13 ... 16	S2	Black	IP55	1421 2111 ⁽²⁾
100 ... 400	13 ... 16	S2	Red/Yellow	IP65	1424 2111 ⁽²⁾

⁽¹⁾ IP: protection degree according to IEC 60529 standard.

⁽²⁾ Defeatable handle in position I.



fuser_536

Front operation shaft support accessory

Use

This support maintains shaft position for extension shafts greater than 320 mm in length.

Rating (A)	Frame size	Reference
32 ... 400	11 ... 16	3899 0400



fuser_698

Shaft guide for external operation

Use

For use with S-type handles, to guide the shaft extension into the external handle.

This accessory enables the handle to engage the extension shaft with a misalignment of up to 15 mm.

Required for a shaft lengths over 320 mm.

Description	Reference
Shaft guide	1429 0000



access_260

Shaft for external front operation handle

Use

Standard lengths:

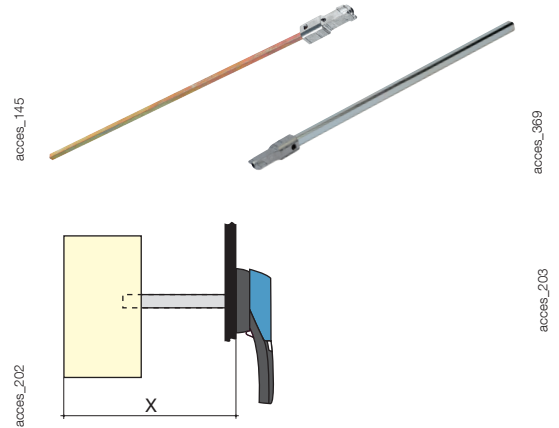
- 200 mm
- 320 mm
- 400 mm
- 500 mm.

Other lengths: consult us.

Rating (A)	Frame size	Shaft length (mm)	Reference
CD 20 ... CD 32	0	200	1401 0520
CD 20 ... CD 32	0	320	1401 0532
CD 20 ... CD 32	0	400	1401 0540⁽¹⁾
32 ... 400	11 ... 16	200	1400 1020
32 ... 400	11 ... 16	320	1400 1032
32 ... 400	11 ... 16	500	1400 1050⁽²⁾
630 ... 800	17	200	1400 1220
630 ... 1250	17/18	320	1400 1232
630 ... 1250	17/18	500	1400 1250⁽¹⁾

(1) Use the shaft guide accessory for external operation.

(2) Use the front operation shaft support accessory.



Dimension X (mm) for FUSERBLOC BS88

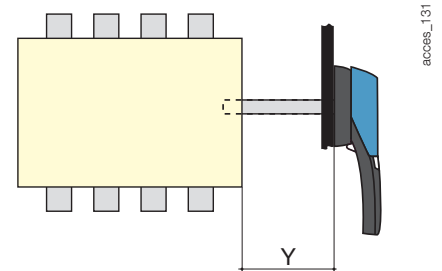
Rating (A)	CD 20 ... CD 32	32	63 ... 160	CD160 ... CD200	160 ... 200	250 ... 315	630 ... 800	1250
Fuse size	A1	A1	A2-A3/A4	A3-A4	B1-B2	B1-B2-B3	C1-C2-C3	D1
Frame size	0	11	12/13/14	13 A	14/15	15/16	17	18
Shaft length (mm)								
200	102 ... 245	100 ... 230	125 ... 230	150 ... 230	135 ... 230	160 ... 230	270 ... 304	
320	102 ... 365	100 ... 350	125 ... 350	150 ... 350	135 ... 350	160 ... 350	270 ... 424	304 ... 424
400	102 ... 445							
500		100 ... 530	125 ... 530	150 ... 530	135 ... 530	160 ... 530	270 ... 600	304 ... 600

Shaft extensions for external side operation

Use

Standard lengths, 200 mm.

Rating (A)	Frame size	Handle type	Dimension Y (mm)	Shaft length (mm)	Reference
CD 20 ... CD 32	0	S	36 ... 159	200	1401 0520
32 ... 400	11 ... 16	S	36 ... 172	200	1400 1020
630 ... 1250	17/18	S	15 ... 150	200	1400 1220



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Accessories (continued)

Integrated solid neutral link

Use

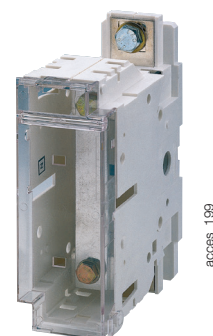
Fixing the solid neutral onto the mechanism produces a device with a solid neutral of the same size as a standard three-pole device (+ 6 mm).

BS88 for external front operation			
Rating (A)	Switch body size	Bar rating (A)	Reference
32 ... 100	11/12/13	125	3829 9310
CD 160 ... CD 200	13a	200	3829 9320
160	14	200	3829 9320
200 ... 250	15	250	3829 9325
315 ... 400	16	400	3829 9339
630 ... 800	17	800	3829 9308
1250	18	1250	3829 9312



Solid neutral module

BS88 for external front operation				
Rating (A)	Switch body size	I _{max} (A)	Distance (mm)	Reference
32	1/11	32	27	3629 9227
63	12	63	32	3629 9232
100	13	100	36	3629 9236
CD 160 ... CD 200	13 a	200	36	3629 9237
160	14	160	50	3629 9250
200 ... 250	15	250	60	3629 9260
315 ... 400	16	400	66	3629 9265
630 ... 800	17	800	94	3629 9294
1250	18	1250	120	3629 9212



Solid links

BS88 switches				
Rating (A)	Frame size	Fuse size	I _{max} (A)	Reference
32	11	A1	32	3629 9003
63	12	A2-A3	63	3629 9006
100	13	A4	160	3629 9010
CD 160	13a	A3-A4	160	3629 9010
160	14	A4	160	3629 9010
160	14	B1-B2	200	3629 9016
CD 200	13a	A3-A4	160	3629 9010
200	15	B1-B2	200	3629 9016
250	15	B1-B2-B3	315	3629 9025
315	16	B1-B2-B3	315	3629 9025
400	16	B1-B2-B3-B4	400	3629 9040
630 ... 800	17	C1-C3	800	3629 9063
1250	18	D1	1250	3629 9120

NFC and DIN switches				
Rating (A)	Frame size	Fuse size	I _{max} (A)	Reference
50	11	14 x 51	50	6029 0000
63	12	00C	160	6420 0000
100 ... 125	13	22 x 58	125	6039 0000
125 ... 160	13	00	160	6420 0000
160	14	0	160	6421 0000
250	15	1	250	6421 0001
400	16	2	400	6421 0002
630 ... 800	17	3	800	6421 0003
800 ... 1250	18	4	1250	6441 0005



A-type auxiliary contacts

Use

Pre-break and position 0 and I signalling by 1 or 2 NO / NC auxiliary contacts. For low level use, specific auxiliary contacts: please consult us.

Connection to the control circuit

By 6.35 mm fast-on terminal.

Electrical characteristics

30 000 operations.

References

NO / NC auxiliary contacts			
Rating (A)	Frame size	Contact(s)	Reference
CD 20 ... CD 32	0	1	3999 0001
CD 20 ... CD 32	0	2	3999 0002

Characteristics

Rating (A)	Current nominal (A)	Operating current I _e (A)			
		250 VAC AC-13	400 VAC AC-13	24 VDC DC-13	48 VDC DC-13
CD 20 ... 400	16	4	2	12	2



access_046

access_047

U-type auxiliary contacts⁽¹⁾

Use

Compact universal type auxiliary contacts which can be configured for operation in either, or both, ON and TEST positions for CD 20 to 1250 A FUSERBLOC. Each slot can accommodate up to two interlocked A/Cs.

Connection to the control circuit

By terminals with max. section 2 x 2.5 mm².

For FUSERBLOC CD 20 to 400 A: Pre-break and signalling of positions 0, I and TEST.

For FUSERBLOC ≥ 630 A: Pre-break and position 0 and I signalling.

References

NO auxiliary contacts			
Rating (A)	Frame size	Contact(s)	Reference ⁽¹⁾
CD 20 ... 1250	0 ... 18	1	3999 0701 ⁽²⁾

NC auxiliary contacts			
Rating (A)	Frame size	Contact(s)	Reference ⁽¹⁾
CD 20 ... 1250	0 ... 18	1	3999 0702 ⁽²⁾

Contact holder for additional auxiliary contacts			
Rating (A)	Frame size	Contact(s) ⁽³⁾	Reference
CD 20 ... CD 32	0	4 (2 x 2 max)	3999 0710
32 ... 400	11 ... 16	4 (2 x 2 max)	3999 0600

⁽¹⁾ Cannot be mounted in direct operation CD 20 - CD 32 switches..

⁽²⁾ CD 20 - CD 200 A 4 auxiliary contacts can be fitted without additional A/C holder.

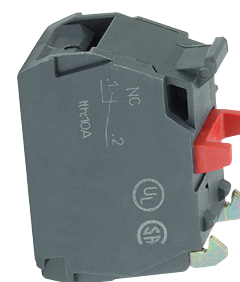
200 - 400 A 8 auxiliary contacts can be fitted without additional A/C holder.

630 - 1250 A 8 auxiliary contacts can be fitted. No additional A/C holder available.

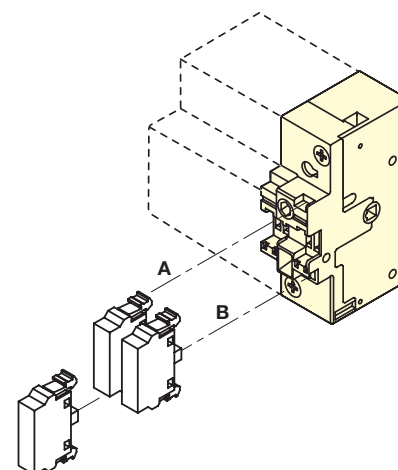
⁽³⁾ Allows an additional 4 auxiliary contacts to be fitted.

Characteristics

Rating (A)	Operating current I _e (A)			
	250 VAC AC-15	400 VAC AC-15	24 VDC DC-13	48 VDC DC-13
CD 20 ... 1250	3	1.8	2.8	1.4



access_056



access_043

⁽¹⁾ CD 20 - CD 32 : U-type auxiliary contacts cannot be mounted on switches with an integrated solid neutral or with direct operation handle.

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Accessories (continued)

S and ST-type auxiliary contacts

Use

For FUSERBLOCs 32 to 1250 A, position 0 and I signalling by 1 to 4 NO + NC auxiliary contacts.

Electrical principle

The NO + NC S-type auxiliary contacts can be configured as 2 NC or 2 NO.

Connection

By terminals with max. cross-section 10 mm².

Mechanical characteristics

30 000 operations.

References

S-type auxiliary contacts 0-I for external front and right-side operation (Standard operation)

Rating (A)	Frame size	Contact type	S-type AC Reference	Drive shaft (optional) Reference
32 ... 1250	11 ... 18	NC+NO	3999 0041 ⁽¹⁾	3999 0003

ST-type auxiliary contacts I-0-TEST for external front and right-side operation (TEST operation)

Rating (A)	Frame size	Contact type	Description	ST-type AC Reference	Drive shaft Reference
32 ... 400 ⁽¹⁾	11 ... 15	NC+NO	TEST + ON	3999 0141 ⁽²⁾	3999 0103
32 ... 400 ⁽¹⁾	11 ... 15	2 O	TEST + ON	3999 0241 ⁽²⁾	3999 0103

(1) Drive shaft included with S-type Auxiliary Contact.

(2) Drive shaft to be ordered in addition to the ST-type Auxiliary Contact.

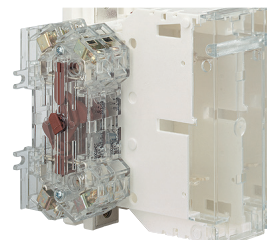
Characteristics

Rating (A)	Current nominal (A)	Operating current I _o (A)	
		250 VAC AC-13	400 VAC AC-13
32 ... 1250	20	10	8

Not for use with CD32 A model.



access_051



access_083

Accessories (continued)

Terminal shrouds

Use

Top or bottom IP20 protection (on the front) against direct contact with terminals or connection parts.

Two sets required to fully shroud both incoming and outgoing terminals.

Rating (A)	Frame size	Position	No. of poles	Reference
CD 20 ... 63	1/2/12	top / bottom	2 / 3 / 4 P	integrated
100 ... CD 200	4/13/14	top / bottom	2 P	3998 2016
100 ... CD 200	3/4/13/14	top / bottom	3 P	3998 3016
100 ... CD 200	4/13/14	top / bottom	4 P	3998 4016
200 ... 400	6/15	top / bottom	2 P	3998 2025
200 ... 400	6/15	top / bottom	3 P	3998 3025
200 ... 400	6/15	top / bottom	4 P	3998 4025
315 ... 400	16	top / bottom	2 P	3998 2025
315 ... 400	16	top / bottom	3 P	3998 3025
315 ... 400	16	top / bottom	4 P	3998 6025
630 ... 800	17	top / bottom	2 P	3898 2080
630 ... 800	17	top / bottom	3 P	3898 3080
630 ... 800	17	top / bottom	4 P	3898 4080
800 ... 1250	18	top / bottom	2 P	3898 2120
800 ... 1250	18	top / bottom	3 P	3898 3120
800 ... 1250	18	top / bottom	4 P	3898 4120



fuser_314

FUSERBLOC BS88

Fuse combination switches

from 20 to 1250 A

Accessories (continued)

Electronic fuse monitoring device (FMD)

Use

Provides fuse status monitoring and fuse blown indication even for fuse links without monitoring device strikers. Suitable for use with BS88, DIN and UL type fuses.

Principle

The Fuse Monitoring Device (FMD) detects fuse status and provides a signal via:
a relay and a bi-stable relay and 3 LEDs.

The FMD can be DIN rail or back plate mounted close to the Fuserbloc, directly mounted on the FUSERBLOC, or it can be door mounted to provide information directly on the front of a panel.



3 LED version (FMD30)

References

For FUSERBLOC 63 to 1250A - size 000 to 4

Nb of LEDs	Operating voltage Ph/Ph	Reference
3 (FMD30)	120 - 260 VAC	3899 3120
3 (FMD30)	380 - 690 VAC	3899 3380
Accessories		Reference
Kit for connection accessories	Standard	3819 9120
Kit for connection accessories	Door mounted	3829 9120

Relay characteristics

Rating (A)	Relay operating current I _c (A)	
	AC-15	DC-13
63 ... 1250	2.5 A	0.2

Cage terminals

Use

Connection of bare copper cables onto the terminals (without lugs).

References

Rating max (A)	Frame size	No. of poles	Reference
CD 20 ... 63	0 ... 12	2 / 3 / 4 P	integrated
100 ... 160	13/14	3 P	5400 3016
100 ... 160	13/14	4 P	5400 4016
250	15	3 P	5400 3025
250	15	4 P	5400 4025
400	16	3 P	5400 3040
400	16	4 P	5400 4040

Connections

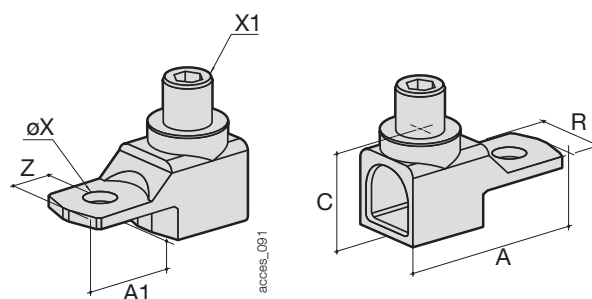
Rating (A)	Flexible cable cross-section (mm²)	Rigid cable cross-section (mm²)	Flexible bar width (mm)	Stripped over (mm)
100 ... 160	16 ... 95	16 ... 95	13	22
250	16 ... 185	16 ... 185	18	27
400	50 ... 240	50 ... 300	20	34

Dimensions

Rating (A)	A	A1	C	R	ØX	X1	Z
100 ... 160	47.5	22.5	25	20	8.5	M12	10
250	62	31.5	31.5	25	10.5	M16	14
400	71.5	32	38	32	10.5	M20	15



access_053



access_091

access_092

Handle key interlocking accessories

Use

Locking in position 0 of the direct, front or right side operation:

- using a padlock (not supplied) in direct right side operation: integrated into the handle,

- using a padlock (not supplied): right-side or front operation switch from 32 to 1250 A, factory integrated

- using a padlock (not supplied) in external operation.

Locking using RONIS EL 11 AP lock (not supplied)

Rating (A)	Frame size	Operation	Figure n°	Reference
CD 20 ... 1250	0 ... 18	external front	2	1499 7701
32 ... 63	11/12	direct	1	3629 7903
100 ... 400	13 ... 16	direct	1	3629 7913
630 ... 1250	17 ... 18	direct		3829 7923

Locking using K-type CASTELL lock (not supplied)

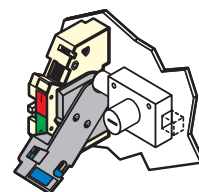
Rating (A)	Frame size	Operation	Figure n°	Reference
CD 20 ... 1250	0 ... 18	external front	3	1499 7702

Locking using FS-type CASTELL lock (not supplied)

Rating (A)	Frame size	Operation	Figure n°	Reference
CD 20 ... 1250	0 ... 18	external front	3	1499 7703

Locking using XOP (not supplied)

Rating (A)	Frame size	Operation	Reference
CD 20 ... 1250	0 18	external front	1499 7702



access_042

Fig. 1

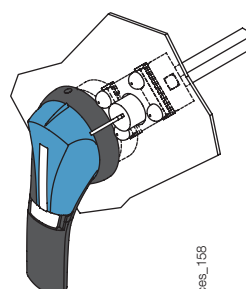


Fig. 2

access_156

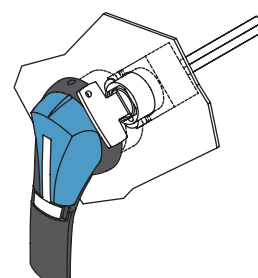


Fig. 3

access_157

Label holder

Use

Recognisable self-adhesive label allowing identification of the devices.

Dimensions W x H (mm)	Nb of pieces in KIT	Reference
18 x 13	5	7769 9999



access_044

FUSERBLOC BS88

Fuse combination switches

from 20 to 1250 A

Characteristics according to IEC 60947-3

20 to 32 A

Reference (replace "x" with 4=BS88)	3641 x000	36x1 x004	3831 x003	
Type	CD 20A	CD 32 A	Mod. 32 A	
Frame size	0	0	11	
Power pole pitch (mm)	-	-	27	
Number of pole (SWN= switched neutral, SLN=solid neutral)	3, 4(SWN), 4(SLN)	3, 4(SWN), 4(SLN)	2, 3, 4	
Thermal current I _{th} (35°C)	20 A	CD 32 A	32 A	
Fuse size BS88	A1	A1	A1	
Rated operational voltage U _e (V)	690	690	690	
Rated insulation voltage U _i (V)	800	800	800	
Rated impulse withstand voltage U _{imp} (kV)	8	8	8	
Rated conditional short-circuit current (kA) in withstand and closing with gM/gG fuse				
Associated gM/gG fuse rating (A)	20	32	50	
Prospective short-circuit current at U _e 400/415 VAC (kA rms)	80	80	80	
Prospective short-circuit current at U _e 660/690 VAC (kA rms)	80	-	100	
Dynamic withstand in I _{sc} U _e 415 VAC (peak kA)		5.5	5.52	
Dynamic withstand in I _{sc} U _e 690 VAC (peak kA)		-	6.5	
Rated operational currents I _e (A)				
Nominal voltage	Category of use	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC 21 A / AC 21 B	20/20	32/32	50/50
415 VAC	AC 22 A / AC 22 B	20/20	32/32	50/50
415 VAC	AC 23 A / AC 23 B	20/20	32/32	50/50
500 VAC	AC 21 A / AC 21 B	20/20	32/32	50/50
500 VAC	AC 22 A / AC 22 B	20/20	32/32	50/50
500 VAC	AC 23 A / AC 23 B	20/20	32/32	50/50
690 VAC ⁽⁰⁾	AC 20 A / AC 20 B	20/20	32/32	50/50
690 VAC ⁽⁰⁾	AC 21 A / AC 21 B	20/20	32/32	50/50
690 VAC ⁽⁰⁾	AC 22 A / AC 22 B	20/20	32/32	50/50
690 VAC ⁽⁰⁾	AC 23 A / AC 23 B	20/20	32/32	50/50
220 VDC	DC 21 A / DC 21 B	-	-/32	-
220 VDC	DC 22 A / DC 22 B	-	-/32	-
220 VDC	DC 23 A / DC 23 B	-	-/25 ⁽¹⁾	-
400 VDC	DC 21 A / DC 21 B	-	-	-
400 VDC	DC 22 A / DC 22 B	-	-	-
400 VDC	DC 23 A / DC 23 B	-	-	-
440 VDC	DC 21 A / DC 21 B	-	-	-
440 VDC	DC 22 A / DC 22 B	-	-	-
440 VDC	DC 23 A / DC 23 B	-	-	-
500 VDC	DC 21 A / DC 21 B	-	-	-
500 VDC	DC 22 A / DC 22 B	-	-	-
500 VDC	DC 23 A / DC 23 B	-	-	-
Rated operational power in AC-23 (kW)				
At U _e 415 VAC w/o pre-break auxiliary contact ⁽¹⁾⁽⁵⁾	9/9	15/15	25/25	
At U _e 690 VAC w/o pre-break auxiliary contact ⁽¹⁾⁽⁵⁾	15/15	25/25	45/45	
Reactive power (kvar)				
At U _e 415 VAC ⁽⁵⁾	8	15	23	
Power dissipation (W/pole)	3.2	4.4	7.3	
Power dissipated by the fuse (W/pole)	2.5	1.8	4,6	
Power dissipation by device (W/pole)	0.7	2.6	2.45	
Connection capacity				
Minimum copper cable cross section (mm²)	2,5	2.5	6	
Maximum copper cable cross section (mm²)	6	6	25	
Maximum bar width (mm)	-	-	-	
Minimum tightening torque (Nm)	2	2	3	
Mechanical characteristics				
Durability (number of operating cycles)	10 000	10 000	10 000	
Operating torque (Nm)	2.4/3	2.4/3	8.7	
Weight of a non-accessorized 3-pole device (kg)	0.52	0.50	0.80	
Weight of a non-accessorized 4-pole device (kg)	0.55	0.52	1	
Weight in additional 1 P (kg)	-	-	0.2	
Storage temperature (°C)	-50 ...+85			
Operating temperature (°C)	-20...+70			
Normative compliance	IEC 60947-3			
Certification	IEC, KEMA, Lloyds and CCC			
Pollution degree	3	3	3	

⁽¹⁾ Category with index A = frequent operation / Category with index B = infrequent operation.

⁽²⁾ 3-pole device with 2 poles "+" in series and 1 pole "-".

⁽⁵⁾ The power value is given for information only, the current values vary from one manufacturer to another..

50 to 125 A

Reference (replace "x" with 4=BS88)	38X1 X006	38X1 X010
Type	Mod. 63 A	Mod. 100 A
Frame size	12	13
Power pole pitch (mm)	32	36
Number of pole (SWN= switched neutral, SLN=solid neutral)	2, 3, 4	2, 3, 4
Thermal current I_{th} (35°C)	63 A	100 A
Fuse size BS88	A2-A3	A4*
Rated operational voltage U_e (V)	690	690
Rated insulation voltage U_i (V)	800	800
Rated impulse withstand voltage U_{imp} (kV)	8	8

Rated conditional short-circuit current (kA) in withstand and closing with gM/gG fuse

Associated gM/gG fuse rating (A)	63	100
Prospective short-circuit current at U_e 400/415 VAC (kA rms)	50	80
Prospective short-circuit current at U_e 660/690 VAC (kA rms)	50	50
Dynamic withstand in I_{sc} U_e 415 VAC (peak kA)	7.3	11.9
Dynamic withstand in I_{sc} U_e 690 VAC (peak kA)	7.3	15.8

Rated operational currents I_e (A)

Nominal voltage	Category of use	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC 21 A / AC 21 B	63/63	100/100
415 VAC	AC 22 A / AC 22 B	63/63	100/100
415 VAC	AC 23 A / AC 23 B	63/63	100/100
500 VAC	AC 21 A / AC 21 B	63/63	100/100
500 VAC	AC 22 A / AC 22 B	63/63	100/100
500 VAC	AC 23 A / AC 23 B	63/63	100/100
690 VAC ⁽²⁾	AC 20 A / AC 20 B	63/63	100/100
690 VAC ⁽²⁾	AC 21 A / AC 21 B	63/63	100/100
690 VAC ⁽²⁾	AC 22 A / AC 22 B	63/63	100/100
690 VAC ⁽²⁾	AC 23 A / AC 23 B	63/63	100/100
220 VDC	DC 21 A / DC 21 B	-/63	100/100
220 VDC	DC 22 A / DC 22 B	-	100/100
220 VDC	DC 23 A / DC 23 B	-	100/100
400 VDC	DC 21 A / DC 21 B	-/63 ⁽³⁾	100 ⁽³⁾ /100 ⁽³⁾
400 VDC	DC 22 A / DC 22 B	-	100 ⁽³⁾ /100 ⁽³⁾
400 VDC	DC 23 A / DC 23 B	-	100 ⁽³⁾ /100 ⁽³⁾
440 VDC	DC 21 A / DC 21 B	-/63 ⁽³⁾	100 ⁽³⁾ /100 ⁽³⁾
440 VDC	DC 22 A / DC 22 B	-	100 ⁽³⁾ /100 ⁽³⁾
440 VDC	DC 23 A / DC 23 B	-	100 ⁽³⁾ /100 ⁽³⁾
500 VDC	DC 21 A / DC 21 B	-/63 ⁽³⁾	100 ⁽³⁾ /100 ⁽³⁾
500 VDC	DC 22 A / DC 22 B	-	100 ⁽³⁾ /100 ⁽³⁾
500 VDC	DC 23 A / DC 23 B	-	100 ⁽³⁾ /100 ⁽³⁾

Rated operational power in AC-23 (kW)

At U_e 415 VAC w/o pre-break auxiliary contact ⁽¹⁾⁽⁵⁾	30/30	51/51
At U_e 690 VAC w/o pre-break auxiliary contact ⁽¹⁾⁽⁵⁾	55/55	90/90

Reactive power (kvar)

At U_e 415 VAC ⁽⁵⁾	28	45
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Power dissipation (W/pole)	8.4	14.5
Power dissipated by the fuse (W/pole)	6	9
Power dissipation by device (W/pole)	4.35	6.8

Connection capacity

Minimum copper cable cross section (mm ²)	10	25
Maximum copper cable cross section (mm ²)	25	95
Maximum bar width (mm)	-	20
Minimum tightening torque (Nm)	3	9

Mechanical characteristics

Durability (number of operating cycles)	10 000	10 000
Operating torque (Nm)	8.7	9.7
Weight of a non-accessorized 3-pole device (kg)	1	1.5
Weight of a non-accessorized 4-pole device (kg)	1.3	2
Weight in additional 1 P (kg)	0.3	0.5

Storage temperature (°C)		
Operating temperature (°C)		
Normative compliance		
Certification		
Pollution degree	3	3

⁽¹⁾ Category with index A = frequent operation / Category with index B = infrequent operation.

⁽²⁾ 3-pole device with 2 poles "+" in series and 1 pole "-".

⁽⁵⁾ The power value is given for information only, the current values vary from one manufacturer to another..

FUSERBLOC BS88

Fuse combination switches

from 20 to 1250 A

Characteristics according to IEC 60947-3 (continued)

160 to 250 A

Reference (replace "x" with 4=BS88)	3841 X014	38x1 X016	3841 X019	3841 X021	38x1 x024
Type	Mod. CD160 A	Mod. 160 A	Mod. CD 200 A	Mod. 200 A	Mod. 250 A
Frame size	13A	14	13A	15	15
Power pole pitch (mm)	36	50	36	60	60
Number of pole (SWN= switched neutral, SLN=solid neutral)	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4
Thermal current I _{th} (35°C)	160A	160A	200A	200A	250A
Fuse size BS88	A3-A4	A4	A3 - A4*	B1-B2	B1-B2-B3
Rated operational voltage U _e (V)	690V	690V	415V	690V	690V
Rated insulation voltage U _i (V)	800	800	800	800	800
Rated impulse withstand voltage U _{imp} (kV)	8	8	8	8	8

Rated conditional short-circuit current (kA) in withstand and closing with gM/gG fuse

Associated gM/gG fuse rating (A)	160	160	200	200	250
Prospective short-circuit current at U _e 400/415 VAC (kA rms)	50	100	80	50	80
Prospective short-circuit current at U _e 660/690 VAC (kA rms)	50	50	50	50	50
Dynamic withstand in I _{sc} U _e 415 VAC (peak kA)	-	22,66	5,52	7,3	23,9
Dynamic withstand in I _{sc} U _e 690 VAC (peak kA)	-	14	6,5	7,3	29

Rated operational currents I_e (A)

Nominal voltage	Category of use	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC 21 A / AC 21 B	160/160	160/160	-/200	200/200	250/250
415 VAC	AC 22 A / AC 22 B	160/160	160/160	-/200	200/200	250/250
415 VAC	AC 23 A / AC 23 B	160/160	160/160	200/200	200/200	250/250
500 VAC	AC 21 A / AC 21 B	160/160	160/160	-	200/200	250/250
500 VAC	AC 22 A / AC 22 B	160/160	160/160	-	200/200	250/250
500 VAC	AC 23 A / AC 23 B	160/160	160/160	-	200/200	250/250
690 VAC ⁽²⁾	AC 20 A / AC 20 B	160/160	160/160	-	200/200	250/250
690 VAC ⁽²⁾	AC 21 A / AC 21 B	160/160	160/160	-	200/200	250/250
690 VAC ⁽²⁾	AC 22 A / AC 22 B	160/160	160/160	-	200/200	250/250
690 VAC ⁽²⁾	AC 23 A / AC 23 B	125/125	160/160	-	160/160	160/160
220 VDC	DC 21 A / DC 21 B	160/160	-	-	-	250/250
220 VDC	DC 22 A / DC 22 B	160/160	-	-	-	250/250
220 VDC	DC 23 A / DC 23 B	125/125	-	-	-	200/200
400 VDC	DC 21 A / DC 21 B	160 ⁽³⁾ /160 ⁽³⁾	-	-	-	250 ⁽³⁾ /250 ⁽³⁾
400 VDC	DC 22 A / DC 22 B	160 ⁽³⁾ /160 ⁽³⁾	-	-	-	250 ⁽³⁾ /250 ⁽³⁾
400 VDC	DC 23 A / DC 23 B	125 ⁽³⁾ /125 ⁽³⁾	-	-	-	250 ⁽³⁾ /250 ⁽³⁾
440 VDC	DC 21 A / DC 21 B	160 ⁽³⁾ /160 ⁽³⁾	-	-	-	250 ⁽³⁾ /250 ⁽³⁾
440 VDC	DC 22 A / DC 22 B	160 ⁽³⁾ /160 ⁽³⁾	-	-	-	250 ⁽³⁾ /250 ⁽³⁾
440 VDC	DC 23 A / DC 23 B	125 ⁽³⁾ /125 ⁽³⁾	-	-	-	250 ⁽³⁾ /250 ⁽³⁾
500 VDC	DC 21 A / DC 21 B	-	-	-	-	250 ⁽³⁾ /250 ⁽³⁾
500 VDC	DC 22 A / DC 22 B	-	-	-	-	250 ⁽³⁾ /250 ⁽³⁾
500 VDC	DC 23 A / DC 23 B	-	-	-	-	250 ⁽³⁾ /250 ⁽³⁾

Rated operational power in AC-23 (kW)

At U _e 415 VAC w/o pre-break auxiliary contact ⁽¹⁾⁽⁵⁾	80/80	80/80	80/80	100/100	132/132
At U _e 690 VAC w/o pre-break auxiliary contact ⁽¹⁾⁽⁵⁾	110/110	110/110	110/110	150/150	220/220

Reactive power (kvar)

At U _e 415 VAC ⁽⁵⁾	70	75	90	115	115
--	----	----	----	-----	-----

Power dissipation (W/pole)	21,6	23	21,6	37,4	41,1
Power dissipated by the fuse (W/pole)	12	15	12	14,3	23
Power dissipation by device (W/pole)	10,4	10,4	10,4	23,1	19

Connection capacity

Minimum copper cable cross section (mm ²)	35	50	35	95	95
Maximum copper cable cross section (mm ²)	95	95	95	240	240
Maximum bar width (mm)	20	20	20	32	32
Minimum tightening torque (Nm)	9	9	9	20	20

Mechanical characteristics

Durability (number of operating cycles)	10 000	10 000	10 000	10 000	10 000
Operating torque (Nm)	8,3	9,7	10,2	13	13
Weight of a non-accessorized 3-pole device (kg)	2,1	1,8	2,1	3,7	3,2
Weight of a non-accessorized 4-pole device (kg)	2,6	2,3	2,6	4,7	4,5
Weight in additional 1 P (kg)	0,65	0,5	0,6	1,2	1,3

Storage temperature (°C)	-50 ...+85				
Operating temperature (°C)	-20 ...+70				
Normative compliance	IEC 60947-3				
Certification	IEC, KEMA, Lloyds and CCC				
Pollution degree	3	3	3	3	3

⁽¹⁾ Category with index A = frequent operation / Category with index B = infrequent operation.

⁽³⁾ 3-pole device with 2 poles "+" in series and 1 pole "-".

⁽⁵⁾ The power value is given for information only, the current values vary from one manufacturer to another..

315 to 800 A

Reference (replace "x" with 4=BS88)	3841 x031	3831 x03x	3811 x063	3811 x080	3811 x120
Type	Mod. 315 A	Mod. 400 A	Mod. 630 A	Mod. 800 A	Mod. 1250 A
Frame size	16	16	17	17	18
Power pole pitch (mm)	66	66	94	94	120
Number of pole (SWN= switched neutral, SLN=solid neutral)	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4
Thermal current I_{th} (35°C)	315A	400A	630A	800A	1250A
Fuse size BS88	B1-B2-B3	B1-B2-B3-B4	C1-C2	C1-C2-C3	D1
Rated operational voltage U_e (V)	690V	690V	690V	690V	415V
Rated insulation voltage U_i (V)	800	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	8	12	12	12	12

Rated conditional short-circuit current (kA) in withstand and closing with gM/gG fuse

Associated gM/gG fuse rating (A)	315	400	630	800	1250
Prospective short-circuit current at U_e 400/415 VAC (kA rms)	50	50	80	80	80
Prospective short-circuit current at U_e 660/690 VAC (kA rms)	50	50	80	80	-
Dynamic withstand in I_{sc} U_e 415 VAC (peak kA)	-	33,5	48	54,18	53,2
Dynamic withstand in I_{sc} U_e 690 VAC (peak kA)	-	29,9	58,7	58,7	-

Rated operational currents I_e (A)

Nominal voltage	Category of use	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC 21 A / AC 21 B	315/315	400/400	-/630	-/800	-/1250
415 VAC	AC 22 A / AC 22 B	315/315	400/400	-/630	-/800	-/1250
415 VAC	AC 23 A / AC 23 B	315/315	400/400	-/630	-/800	-/1250
500 VAC	AC 21 A / AC 21 B	315/315	-/400	-/630	-/800	-/1250
500 VAC	AC 22 A / AC 22 B	315/315	-/400	-/630	-/800	-/1250
500 VAC	AC 23 A / AC 23 B	315/315	-	-	-	-
690 VAC ⁽²⁾	AC 20 A / AC 20 B	315/315	400/400	630/630	800/800	1250/1250
690 VAC ⁽²⁾	AC 21 A / AC 21 B	315/315	-/400	-/630	-/800	-/1250
690 VAC ⁽²⁾	AC 22 A / AC 22 B	315/315	-/400	-/630	-/800 (6)	-/1250
690 VAC ⁽²⁾	AC 23 A / AC 23 B	315/315	250/315	-	-	-
220 VDC	DC 21 A / DC 21 B	-	-	-	-	-
220 VDC	DC 22 A / DC 22 B	-	-	-	-	-
220 VDC	DC 23 A / DC 23 B	-	-	-	-	-
400 VDC	DC 21 A / DC 21 B	-	-/250 ⁽¹⁾	-	-	-
400 VDC	DC 22 A / DC 22 B	-	-/350 ⁽³⁾	-	-	-
400 VDC	DC 23 A / DC 23 B	-	-	-	-	-
440 VDC	DC 21 A / DC 21 B	-	-	-	-	-
440 VDC	DC 22 A / DC 22 B	-	-	-	-	-
440 VDC	DC 23 A / DC 23 B	-	-	-	-	-
500 VDC	DC 21 A / DC 21 B	-	-	-	-	-
500 VDC	DC 22 A / DC 22 B	-	-	-	-/800 ⁽⁵⁾	-/1250 ⁽⁵⁾
500 VDC	DC 23 A / DC 23 B	-	-	-	-	-

Rated operational power in AC-23 (kW)

At U_e 415 VAC w/o pre-break auxiliary contact ⁽¹⁾⁽⁵⁾	160/160	220/220	355/355	450/450	560/560
At U_e 690 VAC w/o pre-break auxiliary contact ⁽¹⁾⁽⁵⁾	220/295	220/295	295/400	400/400	400/475

Reactive power (kvar)

At U_e 415 VAC ⁽⁵⁾	145	185	290	365	460
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Power dissipation (W/pole)	48,9	65,6	122	134	264
Power dissipated by the fuse (W/pole)	19,28	33	60	65	110
Power dissipation by device (W/pole)	29,6	29,6	61	68	154

Connection capacity

Minimum copper cable cross section (mm ²)	1x185	1x185	2 x 150	2 x 185	
Maximum copper cable cross section (mm ²)	1x185	1x240	2 x 300	2 x 300	4 x 185
Maximum bar width (mm)	45	45	63	63	80
Minimum tightening torque (Nm)	20	20	40	40	40

Mechanical characteristics

Durability (number of operating cycles)	10 000	10 000	5 000	8 000	3 000
Operating torque (Nm)	17	17	56	57	62
Weight of a non-accessorized 3-pole device (kg)	4	4,7	16	17	25
Weight of a non-accessorized 4-pole device (kg)	8,2	5,9	20	21,5	30
Weight in additional 1 P (kg)	2	1,4	5	5,4	3

Storage temperature (°C)	-50 ...+85				
Operating temperature (°C)	-20...+70				
Normative compliance	IEC 60947-3				
Certification	IEC, KEMA, Lloyds and CCC				
Pollution degree	3	3	3	3	3

⁽¹⁾ Category with index A = frequent operation / Category with index B = infrequent operation.

⁽³⁾ 3-pole device with 2 poles "+" in series and 1 pole "-".

⁽⁵⁾ The power value is given for information only, the current values vary from one manufacturer to another..

FUSERBLOC BS88

Fuse combination switches

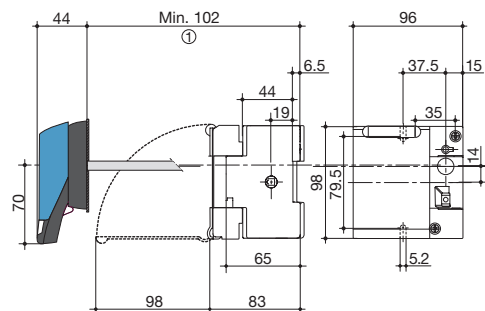
from 20 to 1250 A

Dimensions

External operation

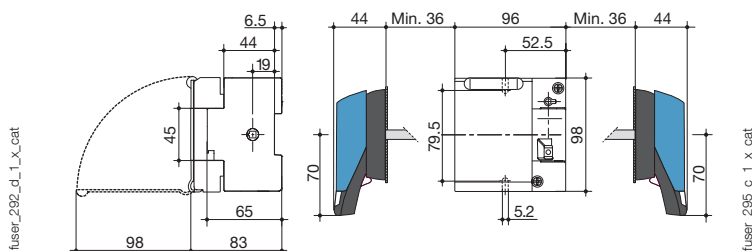
BS88 CD 20 to CD 32 A in size A1

External front operation



1. With 1 U-type AC: 130 mm.
With 2 U-type AC: 155 mm.

External side operation

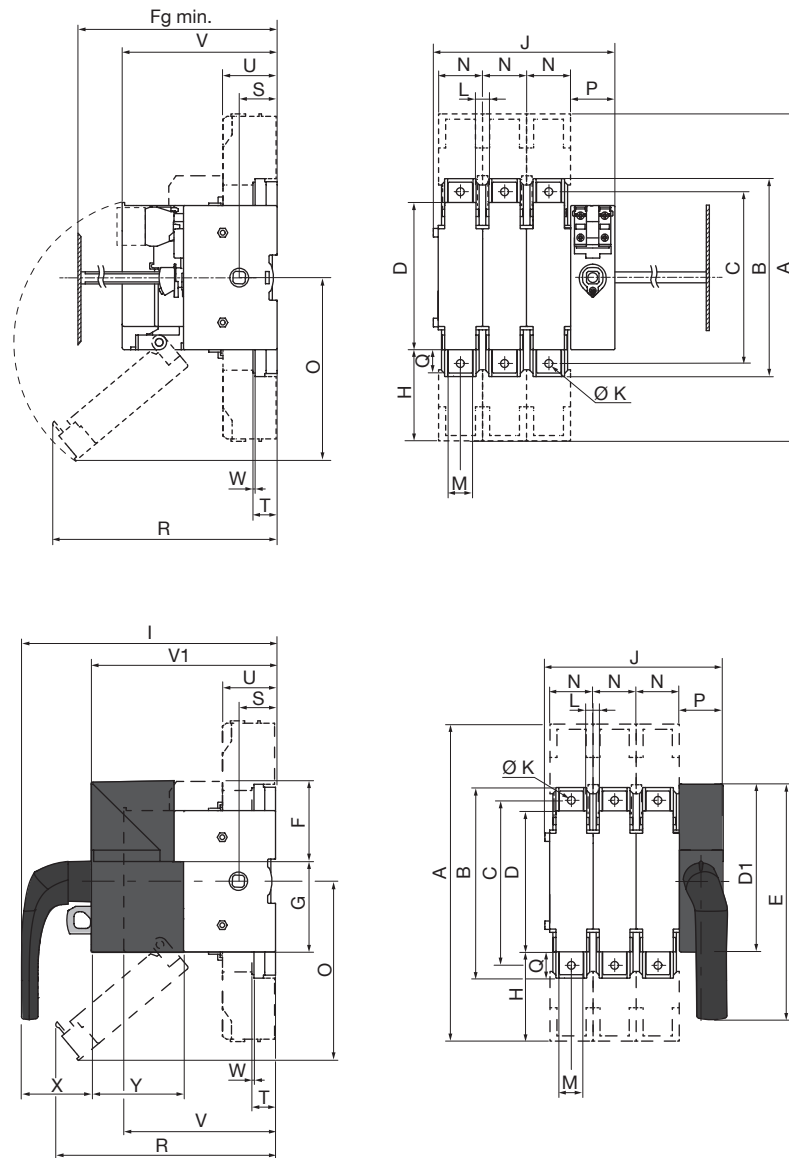


Dimensions for front and right side operation BS88

32 - 200 A

32 - 63 : cage connexion

100 - 200 : terminal connexion



fuser_751_a_1_x_cat.ai

fuser_752_a_1_x_cat.ai

Rating (A)	BS88 fuse size	Frame size	Fg min	J																											
				A	B	C	D	D1	E	F	G	H	I	3P	4P	K	L	M	N	O	P	Q	R	S	T	U	V	V1	W	X	Y
32	A1	11	100		118		106	143	200	67.5	75.5		212.1	121	148	6.2	15	12	27	85	36.8	15	153	31			87	153.6	2	58.5	77
63	A2-A3	12	125		118		106	143	200	67.5	75.5		212.1	136	168	6.2	20	12	32	159	36.8	15	145	31			116	153.6	2	58.5	77
100	A4	13	135	268	162	141	127	143	200	67.5	75.5	75	212.1	148	184	8.5	16	20	36	141	36.8	41	187	31	19.5	43.5	116	153.6	2.5	58.5	77
CD160	A3-A4	13A	135	268	162	141	127	143	200	67.5	75.5	75	212.1	148	184	8.5	16	20	36	141	36.8	41	193	31	19.5	43.8	126	153.6	2.5	58.5	77
CD200	A3-A4	13A	135	268	162	141	127	143	200	67.5	75.5	75	212.1	148	184	8.5	16	20	36	141	36.8	41	193	31	19.5	43.8	126	153.6	2.5	58.5	77
160	A4-B1-B2	14	145	268	162	141	140	143	200	67.5	75.5	75	212.1	190	240	8.5	20	20	50	174	36.8	41	229	31	19.5	43.9	136	153.6	2.5	58.5	77

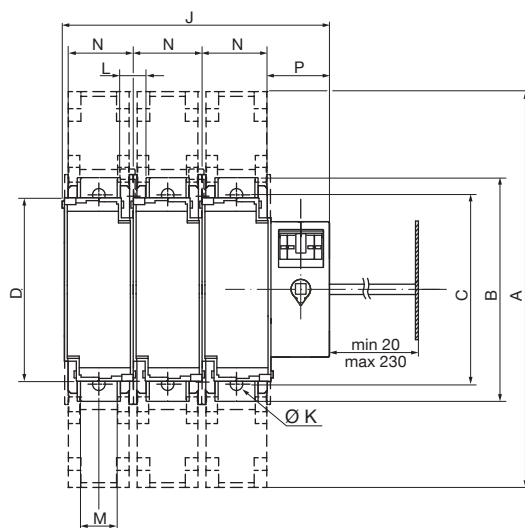
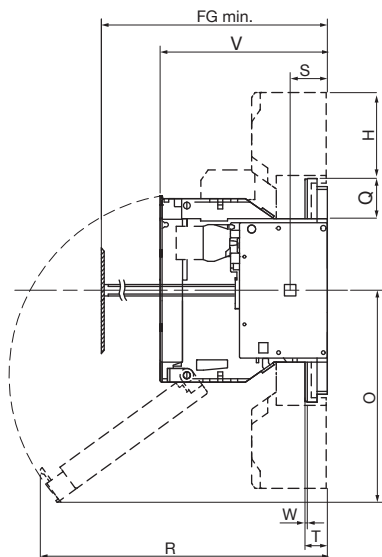
FUSERBLOC BS88

Fuse combination switches

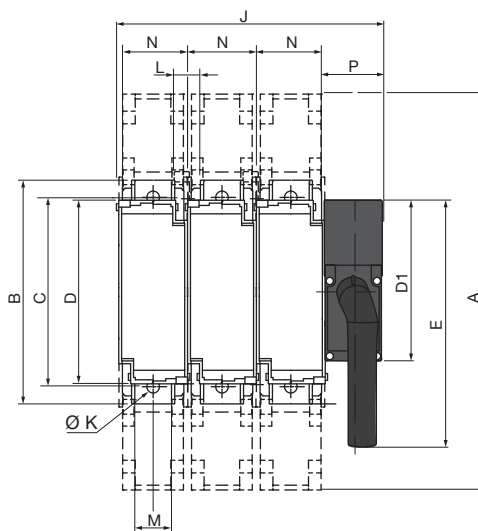
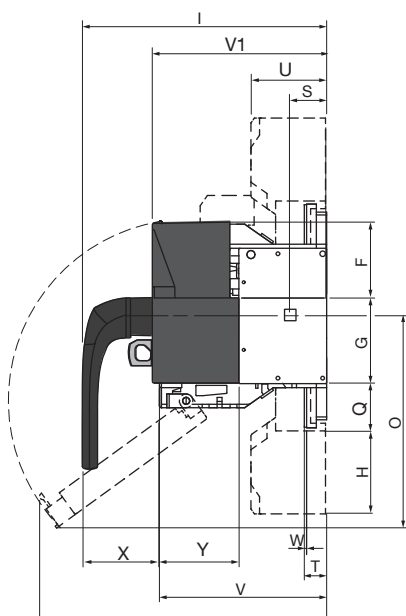
from 20 to 1250 A

Dimensions for direct front/right side operation BS88 (continued)

200 - 250 A



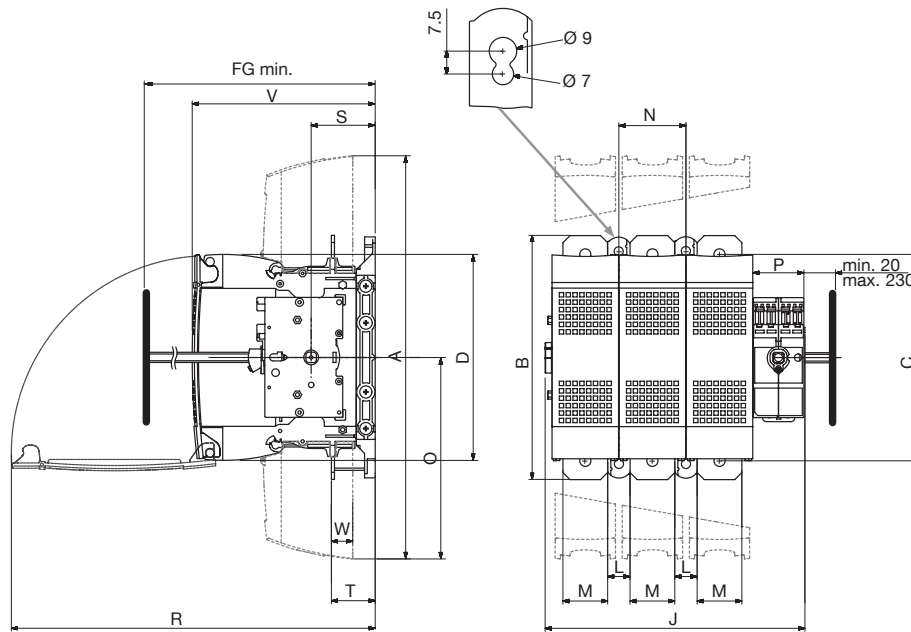
fuser_748_a_1_x_cat.ai



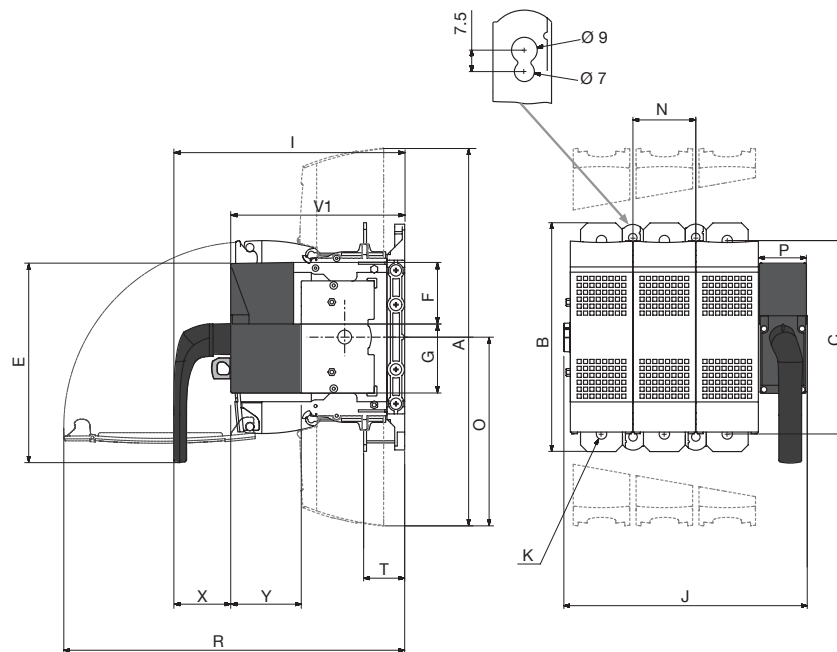
fuser_749_a_1_x_cat.ai

Rating (A)	BS88 fuse size	Frame size	Fg min.												J																		
				A	B	C	D	D1	E	F	G	H	I	4P	K	L	M	N	O	P	Q	R	S	T	U	V	V1	W	X	Y			
200	B1 - B2	15	154	345	195	166	162	143	220	67.5	75.5	110	212.1	234	294	8.5	28	32	60	185	51.6	52	251	31	19.5	65	146	142	2.5	58.5	77		
250	B1 - B2 - B3	15	154	345	195	166	162	143	220	67.5	75.5	110	212.1	234	294	8.5	28	32	60	185	51.6	52	251	31	19.5	65	146	142	2.5	58.5	77		

315 - 400 A



fuser_733_c_1_x_catt.ai



fuser_750_a_1_x_catt.ai

Rating (A)	BS88 fuse size	Frame size	Fg min.	A	B	C	D	D1	E	F	G	I	J		K	L	M	N	O	P	R	S	T	V	V1	W	X	Y
													3P	4P														
315	B1-B2-B3	16	188	397	240	203	203	143	220	67.5	75.5	239	256	321	11	34	32	66	199	50	360	63	43	180	184	3	58.5	77
400	B1-B2-B3-B4	16	188	397	240	203	203	143	220	67.5	75.5	239	256	321	11	34	32	66	199	50	360	63	43	180	184	3	58.5	77

FUSERBLOC BS88

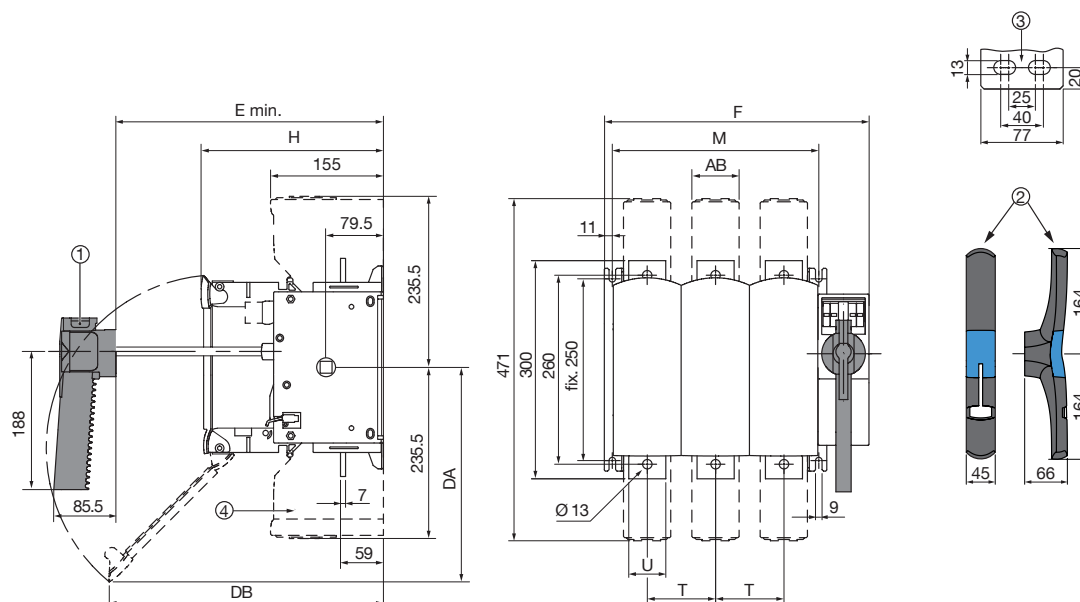
Fuse combination switches

from 20 to 1250 A

Dimensions for direct front/right side operation BS88 (continued)

External and direct operation

BS88 630 to 1250 A



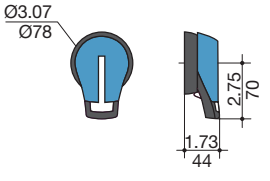
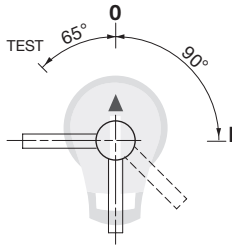
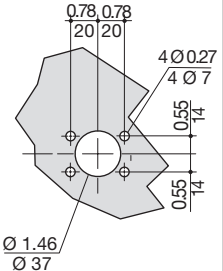
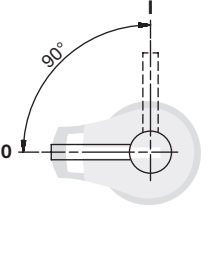
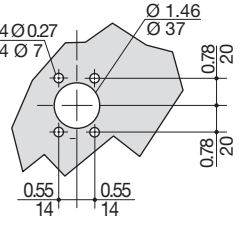
1. For handle frame size 17.
2. For handle frame size 18.
3. Connection terminals for frame size 18.
4. Terminal shrouds.

Rating (A)	BS88 Fuse size	Frame size	Overall dimensions	Switch body					Switch mounting		Connection		Terminal shrouds
			E min	F 3p.	F 4p.	H	DA	DB	M 3p.	M 4p.	T	U	
630	C1-C2	17	265	364	458	250	300	380	284	378	94	51	65
800	C1-C2-C3	17	265	364	458	250	300	380	284	378	94	51	65
1250	D1	18	304	442	562	289	355	295	362	482	120	77	88

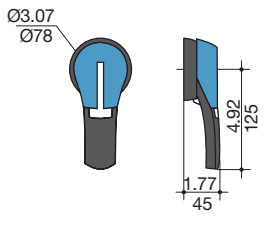
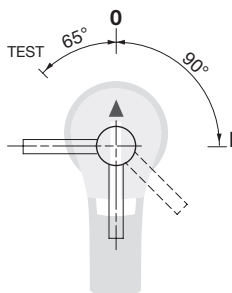
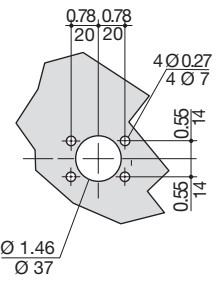
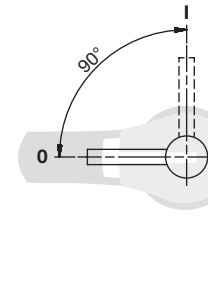
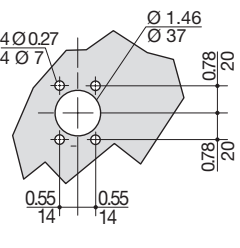
fuser_415_g_1_x_cat

Dimensions for external operation handles

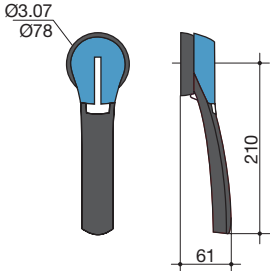
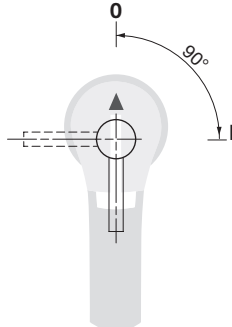
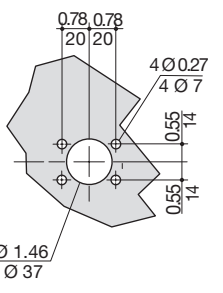
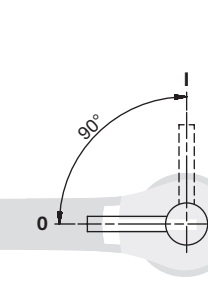
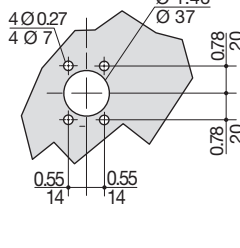
BS88 - 32 to 63 A - 25 to 63 A

Handle type	Front operation		Right and left side operation	
	Direction of operation	Door drilling	Direction of operation	Door drilling
S1 type Box size 0 				

BS88 - 100 to 400 A

Handle type	Front operation		Right and left side operation	
	Direction of operation	Door drilling	Direction of operation	Door drilling
S2 type Box size 11-16 				

BS88 - 630 to 800 A

Handle type	Front operation		Right and left side operation	
	Direction of operation	Door drilling	Direction of operation	Door drilling
S3 type Box size 17 				

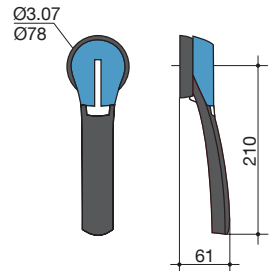
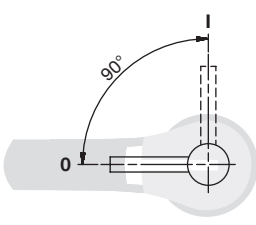
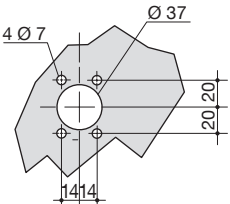
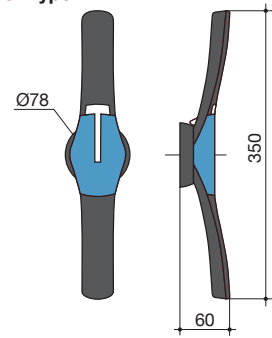
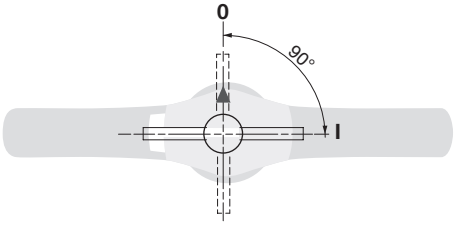
FUSERBLOC BS88

Fuse combination switches

from 20 to 1250 A

Dimensions for external operation handles (continued)

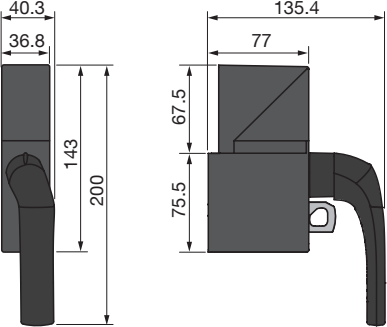
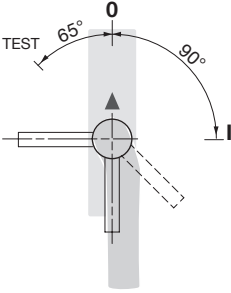
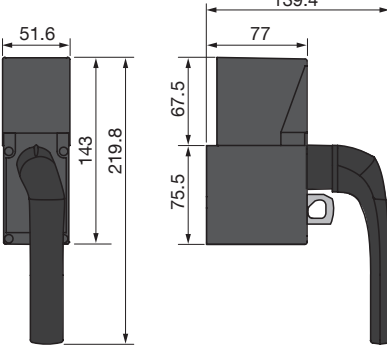
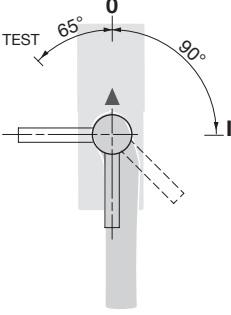
BS88 - 1250 A

Handle type	Front operation Direction of operation	Right and left side operation Direction of operation	Door drilling
S3 type Box size 18 			
S4 type 			

fuser_754_b_1_gb_cat

Dimensions for direct front operation handle assembly

50 to 400 A

Handle type	Direct operation Operating direction
50 to 160 A Case 11 to 14 	
250 to 400 A Case 15 to 16 	

fuser_753_a_1_en_cat.ai