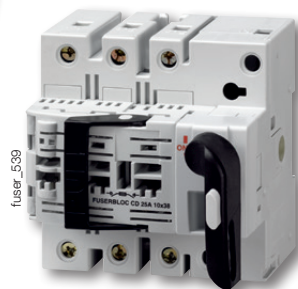


# FUSERBLOC

Direct-control fuse combination switches  
for industrial fuses up to 400 A



**FUSERBLOC**  
from 50 to 400 A



**FUSERBLOC**  
from 25 to 32 A

## Function

The direct-control **FUSERBLOC** is a manually controlled multi-pole fuse combination switch. This control mechanism is suitable for controlling an enclosed device. They make and break on load and provide safety isolation and protection against overcurrent for any low voltage electrical circuit. This range includes direct-control models, with 2, 3 and 4 poles and from 25 to 400A.

## Advantages

### Improved safety

- Complete isolation of the fuse with double breaking per pole (top and bottom of fuse).
- Positive break indication

### High breaking capacity

Protection against overloads and short-circuits thanks to high breaking capacity fuses (100 kA rms).

### Specific functionalities for simplified use

- Mechanical or electronic fuse blown detection system (see DDMM or FMD).

## The solution for

- > Motor feeders
- > Protection of industrial cabinets



## Strong points

- > Improved safety
- > High breaking capacity
- > Specific functionalities for simplified use

## Extended range

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

## Compliance with standards

- > IEC 60947-3
- > EN 60947-3
- > BS EN 60947-3
- > NBN EN 60947-3
- > IEC 60269-1
- > DIN EN 60269-1
- > NF EN 60269-1
- > IEC 60269-2
- > GB/T14048.3
- > VDE 0636-1
- > VDE 0660-107
- > UL standards: see FUSERBLOC UL



## Approvals and certifications<sup>(1)</sup>



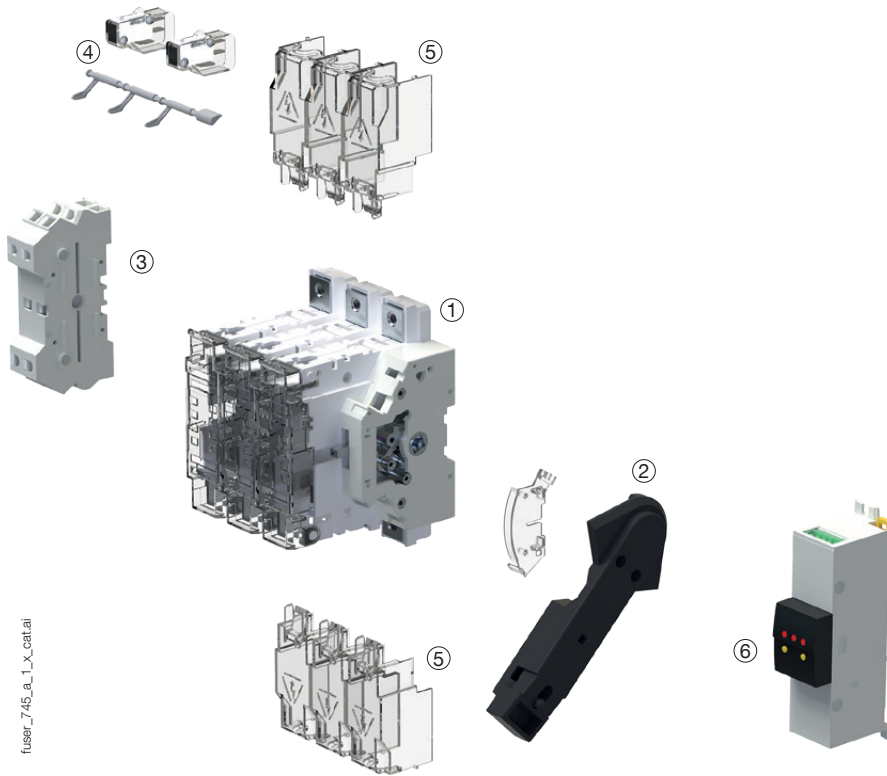
LOVAG



<sup>(1)</sup> Product references on request.

## What you need to know

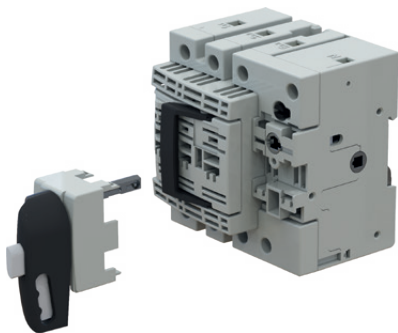
- In addition to the FUSERBLOC rating, product selection also depends on the fuse characteristics and functional specifications, which need to be in accordance with the application. SOCOMEC FUSERBLOC devices are equipped with **NFC/DIN fuses** (for BS fuses, please contact us)



- FUSERBLOC fuse combination switch
- Direct operation handle
- Auxiliary power contacts (position signalling)
- Mechanical fuse melting detection device (DDMM)
- Upstream and downstream terminal shrouds
- Electronic fuse melting detection (FMD) makes it possible to have an automatic supervision or management system. Compatible with BS88, DIN and UL fuses
  - Visual LED signalling
  - Bi-stable relay for automation devices: alarm, tripping, etc.
  - TEST button: test the device is working properly at any time
  - Mounting plate or DIN rail, on door or directly on the FUSERBLOC

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- Whether it is 3-pole + switched neutral or 3-pole + solid neutral, the 25 to 32 A FUSERBLOC with **direct** and **external** control is the best compact solution.



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# FUSERBLOC

Direct-control fuse combination switches  
for industrial fuses up to 400 A

## References

### NFC and DIN - Direct operation 25 to 125 A

Rating (A) / Fuse size / Casing size	No. of poles	Switch body	Direct handle	Auxiliary contact	Terminal shrouds	Electronic fuse blown indication <sup>(6)</sup>				
CD 25 A / 10 x 38 / 0	3 P	3631 <b>3002</b>	Black 3629 <b>4012</b> <sup>(1)(2)</sup>	Type A 1 contact NO/NC 3999 <b>0001</b> <sup>(3)</sup> Type A 2 contacts NO/NC 3999 <b>0002</b> <sup>(3)</sup>						
	3 P + switched neutral	3631 <b>4002</b>								
	3 P+ solid neutral	3631 <b>5002</b>								
CD 32 A / 10 x 38 / 0	3 P	3631 <b>3003</b>								
	3 P + switched neutral	3631 <b>4003</b>								
	3 P+ solid neutral	3631 <b>5003</b>								
CD 32 A / 14 x 51 / 0	3 P	3631 <b>3004</b>								
	3 P + switched neutral	3631 <b>4004</b>								
	3 P+ solid neutral	3631 <b>5004</b>								
50 A / 14 x 51 / 1	2 P	3615 <b>2005</b>	Black 3629 <b>7900</b> <sup>(5)(2)</sup>							
	3 P	3615 <b>3005</b>								
	4 P	3615 <b>6005</b>								
63 A / 00C / 2	2 P	3615 <b>2006</b>								
	3 P	3615 <b>3006</b>								
	4 P	3615 <b>6006</b>								
100 A / 22 x 58 / 3	2 P	3615 <b>2010</b>					Black 3629 <b>7901</b> <sup>(5)(2)</sup>	Type A 1 contact NO/NC 3999 <b>0021</b> <sup>(3)</sup> Type A 2 contacts NO/NC 3999 <b>0022</b> <sup>(3)</sup>		
	3 P	3615 <b>3010</b>								
	4 P	3615 <b>6010</b>								
125 A / 22 x 58 / 3	2 P	3615 <b>2011</b>								
	3 P	3615 <b>3011</b>								
	4 P	3615 <b>6011</b>								
125 A / 00 / 3	2 P	3615 <b>2012</b>								
	3 P	3615 <b>3012</b>								
	4 P	3615 <b>6012</b>								

(1) Direct front operation.

(2) Standard.

(3) Maximum 2 contacts.

(4) Top or bottom. Provide 2 terminal shrouds for complete upstream and downstream protection.

(5) Direct right side operation.

(6) Mechanical fuse blown auxiliary contact (DDMM), see "Accessories".

# FUSERBLOC

Direct-control fuse combination switches  
for industrial fuses up to 400 A

## NFC and DIN – direct operation 160 to 400 A

Rating (A) / Fuse size / Casing size	No. of poles	Switch body	Direct handle	Auxiliary contact	Terminal shrouds	Electronic fuse blown indication <sup>(5)</sup>		
160 A / 00 / 3	2 P	3615 <b>2015</b>	Black 3629 <b>7901</b> <sup>(4)(1)</sup>	Type A 1 contact NO/NC 3999 <b>0021</b> <sup>(2)</sup> Type A 2 contacts NO/NC 3999 <b>0022</b> <sup>(2)</sup>	2 P 3998 <b>2016</b> <sup>(3)</sup> 3 P 3998 <b>3016</b> <sup>(3)</sup> 4 P 3998 <b>4016</b> <sup>(3)</sup>	3 LED 155 - 260 VAC 3899 <b>3120</b> 3 LED 380 - 690 VAC 3899 <b>3380</b>		
	3 P	3615 <b>3015</b>						
	4 P	3615 <b>6015</b>						
160 A / 0 / 4	2 P	3615 <b>2016</b>	Black 3629 <b>7901</b> <sup>(4)(1)</sup>		Type A 1 contact NO/NC 3999 <b>0021</b> <sup>(2)</sup> Type A 2 contacts NO/NC 3999 <b>0022</b> <sup>(2)</sup>		2 P 3998 <b>2025</b> <sup>(3)</sup> 3 P 3998 <b>3025</b> <sup>(3)</sup> 4 P 3998 <b>4025</b> <sup>(3)</sup>	3 LED 155 - 260 VAC 3899 <b>3120</b> 3 LED 380 - 690 VAC 3899 <b>3380</b>
	3 P	3615 <b>3016</b>						
	4 P	3615 <b>6016</b>						
250 A / 1 / 5	2 P	3615 <b>2024</b>	Black 3629 <b>7901</b> <sup>(4)(1)</sup>	Type A 1 contact NO/NC 3999 <b>0021</b> <sup>(2)</sup> Type A 2 contacts NO/NC 3999 <b>0022</b> <sup>(2)</sup>		2 P 3998 <b>2025</b> <sup>(3)</sup> 3 P 3998 <b>3025</b> <sup>(3)</sup> 4 P 3998 <b>4025</b> <sup>(3)</sup>	3 LED 155 - 260 VAC 3899 <b>3120</b> 3 LED 380 - 690 VAC 3899 <b>3380</b>	
	3 P	3615 <b>3024</b>						
	4 P	3615 <b>6024</b>						
400 A / 2 / 6	2 P	3615 <b>2039</b>	Black 3629 <b>7901</b> <sup>(4)(1)</sup>		Type A 1 contact NO/NC 3999 <b>0021</b> <sup>(2)</sup> Type A 2 contacts NO/NC 3999 <b>0022</b> <sup>(2)</sup>	2 P 3998 <b>2025</b> <sup>(3)</sup> 3 P 3998 <b>3025</b> <sup>(3)</sup> 4 P 3998 <b>4025</b> <sup>(3)</sup>		3 LED 155 - 260 VAC 3899 <b>3120</b> 3 LED 380 - 690 VAC 3899 <b>3380</b>
	3 P	3615 <b>3039</b>						
	4 P	3615 <b>6039</b>						

\* From 630A to 1250A, see the section on front/side-control fuse-combination switches.

(1) Standard.

(2) Maximum 2 contacts. Provide 2 terminal shrouds for complete upstream and downstream protection.

(3) Top or bottom.

(4) Direct right side operation.

(5) Mechanical fuse blown auxiliary contact (DDMM), see "Accessories".

# FUSERBLOC

Direct-control fuse combination switches  
for industrial fuses up to 400 A

## Accessories

### Direct operation handle

Front operation				
Rating (A)	Frame size	Figure N°	Handle colour	References
20 - 32	0	1	Black	3629 <b>4012</b>
20 - 32	0	1	Red	3629 <b>4013</b>

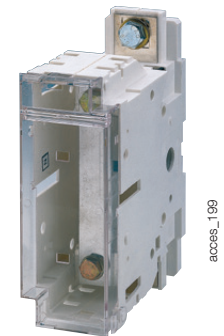
  

Right side operation				
Rating (A)	Frame size	Figure N°	Handle colour	References
32 - 63	1/2	4	Black	3629 <b>7900</b>
100 - 400	3 ... 6	4	Black	3629 <b>7901</b>



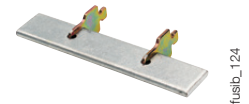
### Solid neutral module

Rating (A)	Frame size	I <sub>max</sub> (A)	Distance (mm)	Reference
50	1	50	27	3629 <b>9227</b>
63	2	63	32	3629 <b>9232</b>
100 ... 160	3	160	36	3629 <b>9236</b>
160	4	160	50	3629 <b>9250</b>
250	5	250	60	3629 <b>9260</b>
400	6	400	66	3629 <b>9266</b>



### Solid neutral link

NFC and DIN devices				
Rating (A)	Frame size	Fuse size	I <sub>max</sub> (A)	Reference
50	1	14 x 51	50	6029 <b>0000</b>
100 ... 125	3	22 x 58	125	6039 <b>0000</b>
63 ... 160	2/3	00C / 00	160	6420 <b>0000</b>
160	4	0	160	6421 <b>0000</b>
250	5	1	250	6421 <b>0001</b>
400	6	2	400	6421 <b>0002</b>



### Type A 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 contact us.

#### References

NO / NC auxiliary contacts			
Rating (A)	Frame size	Contact	Reference
CD 25 ... CD 32	0	1	3999 <b>0001</b>
CD 25 ... CD 32	0	2	3999 <b>0002</b>
50 ... 400 <sup>(1)</sup>	1 ... 6	1	3999 <b>0021<sup>(2)</sup></b>
50 ... 400 <sup>(1)</sup>	1 ... 6	2	3999 <b>0022<sup>(2)</sup></b>

(1) Side direct operation switch only.

(2) Type A auxiliary contacts cannot be mounted in conjunction with an integrated solid neutral.

#### Characteristics

Rating (A)	Current Nominal (A)	Rated operational current (A)			
		250 VAC AC-13	400 VAC AC-13	24 VDC DC-13	48 VDC DC-13
CD 25 ... 400	16	4	2	12	2

#### Connection to the control circuit

By 6.35 mm fast-on terminal.

#### Electrical characteristics

30,000 operations.



## Locking the fuse protection hood for direct-control devices

### Use

On NFC and DIN, side direct operation, opening of the fuse protection cover is not possible when FUSERBLOC is engaged (position I).

Rating (A)	Frame size	Fuse size	No. of poles	Reference
63	2	00C	2 / 3 / 4	3999 <b>8906</b>
100 ... 125	3	22 x 58	2 / 3 / 4	3999 <b>8912</b>
125 ... 160	3	00	2 / 3 / 4	3999 <b>8912</b>
160	4	0	2 P	3999 <b>8216</b>
160	4	0	3 P	3999 <b>8316</b>
160	4	0	4 P	3999 <b>8416</b>
250	5	1	2 P	3999 <b>8225</b>
250	5	1	3 P	3999 <b>8325</b>
250	5	1	4 P	3999 <b>8425</b>
400	6	2	2 P	3999 <b>8240</b>
400	6	2	3 P	3999 <b>8340</b>
400	6	2	4 P	3999 <b>8440</b>

## Terminal shrouds

### Use

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

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

Rating (A)	Frame size	Position	No. of poles	Reference
100 ... 160	3/4	Upstream/downstream	2 P	3998 <b>2016</b>
100 ... 160	3/4	Upstream/downstream	3 P	3998 <b>3016</b>
100 ... 160	3/4	Upstream/downstream	4 P	3998 <b>4016</b>
250 - 400	5/6	Upstream/downstream	2 P	3998 <b>2025</b>
250 - 400	5/6	Upstream/downstream	3 P	3998 <b>3025</b>
250 - 400	5/6	Upstream/downstream	4 P	3998 <b>4025</b>



fuser\_314

# FUSERBLOC

Direct-control fuse combination switches  
for industrial fuses up to 400 A

## Accessories (continued)

### DDMM auxiliary contact for devices with DIN fuse with striker

#### Use

For fuse cartridge with striker (size 14 x 51; 22 x 58; 0; 1; 2; 3 and 4).

#### Electrical principle

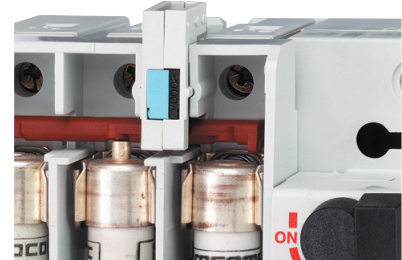
NO/NC auxiliary contact detects fuse blowing.

#### Connection to the control circuit

By 6.35 mm fast-on terminal.

#### Mechanical characteristics

30,000 operations.



fuser\_311

DDMM for cylindrical fuses

#### References

##### NO/NC type auxiliary contacts for 2 poles

Rating (A)	Frame size	Fuses	Contact	Reference
50	1	14 x 51	1 <sup>st</sup>	3994 0405
100 ... 125	3	22 x 58	1 <sup>st</sup>	3994 0210
160	4	NH0	1 <sup>st</sup>	3994 0216
250 - 400	5/6	NH1-NH2	1 <sup>st</sup>	3994 0225

##### NO/NC type auxiliary contacts for 3 poles

Rating (A)	Frame size	Fuses	Contact	Reference
CD 32	0	14 x 51	1 <sup>st</sup>	3994 0303
50	1	14 x 51	1 <sup>st</sup>	3994 0405
100 ... 125	3	22 x 58	1 <sup>st</sup>	3994 0310
160	4	NH0	1 <sup>st</sup>	3994 0316
250 - 400	5/6	NH1-NH2	1 <sup>st</sup>	3994 0325
50 ... 250			2:	3994 1901
400	6		2:	3994 1902

##### NO/NC type auxiliary contacts for 4-pole or 3-pole + neutral

Rating (A)	Frame size	Fuses	Contact	Reference
50	1	14 x 51	1 <sup>st</sup>	3994 0405
100 ... 125	3	22 x 58	1 <sup>st</sup>	3994 0410
160	4	NH0	1 <sup>st</sup>	3994 0416
250 - 400	5/6	NH1-NH2	1 <sup>st</sup>	3994 0425
50 ... 250			2:	3994 1901



fuser\_312

DDMM for NH fuses

#### Characteristics

Rating (A)	Current Nominal (A)	Rated operational current (A)			
		250 VAC AC-13	400 VAC AC-13	24 VDC DC-13	48 VDC DC-13
CD 32 ... 1250	16	4	3	12	2

### Electronic fuse blown indication (FMD)

#### Use

For BS88, DIN and UL fuse cartridge, with or without striker.

#### Principle

The Fuse Melting Device (FMD) detects fuse blowing using a bistable relay and a signalling LED. It can be mounted on a DIN rail, a back plate, next to the FUSERBLOC, or on the door.

#### References

##### For FUSERBLOC 63 to 1250 A - size 000 to 4

No. of LEDs	Ph/Ph operational voltage	Reference
3	120 - 260 VAC	3899 3120
3	380 - 690 VAC	3899 3380

#### Accessories

Accessories	Reference
Kit to connect accessories	Standard 3819 9120
Kit to connect accessories	Door mounted 3829 9120

#### Relay characteristics

Rating (A)	Relay operational current I <sub>c</sub> (A)	
	AC-15	DC-13
63 - 1250	2.5 A	0.2



3-LED version

## Key handle interlocking system

### Use

- Locking in position 0 of the direct, front or right side operation:
- using a padlock (not supplied) in direct right side operation: available as standard on the handle,
- using a padlock (not supplied): right-side or front operation switch from 50 to 1250 A, integrated as standard
- using a lock (not supplied) in external operation.

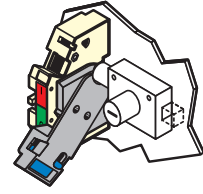


Fig. 1

access\_042\_a\_1\_x\_cat

### Locking using RONIS EL 11 AP lock (not supplied)

Rating (A)	Frame size	Command	Figure N°	Reference
50 ... 63	1/2	direct	1	3629 <b>7903</b>
100 - 400	3 ...6	direct	1	3629 <b>7913</b>

## Label

### Use

Customisable self-adhesive label allowing identification of the devices.

Dimensions W x H (mm)	To be ordered in multiples of	Reference
18 x 13	50	7769 <b>9999</b>



access\_044



# FUSERBLOC

Direct-control fuse combination switches

for industrial fuses up to 400 A

## Characteristics according to IEC 60947-3

### 25 to 125 A

References	3631 x002	3631 x003	3631 x004	3615 x005	3615 x006	3615 x010	3615 x011	3615 x012
Type	CD 25 A	CD 32 A	CD 32 A	Mod. 50 A	Mod. 63 A	Mod. 100 A	Mod. 125 A	Mod. 125 A
Frame size	0	0	0	1	2	3	3	3
Casing pitch per power pole (mm)	-	-	-	27	32	36	36	36
Number of poles	3, 4(NC), 4(NP)	3, 4(NC), 4(NP)	3, 4(NC), 4(NP)	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4
Rated thermal current $I_{th}$ (35 °C)	25 A	32 A	32 A	50 A	63 A	100 A	125 A	125 A
NFC/DIN fuse size	NFC 10 x 38	NFC 10 x 38	NFC 14 x 51	NFC 14 x 51	NH000	NFC 22 x 58	NFC 22 x 58	NH00
Rated operational voltage $U_e$ (V)	690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V
Rated insulation voltage $U_i$ (V)	800	800	690	800	800	800	800	800
Rated impulse withstand voltage $U_{imp}$ (kV)	8	8	8	8	8	8	8	8
<b>Short-circuit characteristics</b>								
Prospective short-circuit current at $U_e$ 400/415V AC (kA rms)	100	100	100	100	100	100	100	50
Prospective short-circuit current at $U_e$ 660/690V AC (kA rms)	100	100	-	100	100	100	100	50
Rated peak withstand current in $I_{cc}$ $U_e$ 415 V AC (kA peak) (single switch)	5.5	5.5	5.5	5.52	7.3	11.9	13.6	-
Rated peak withstand current in $I_{cc}$ $U_e$ 690 V AC (kA peak) (single switch)	5.2	6.1	-	6.5	7.3	15.8	20.4	10.4
<b>Rated operational current (A)</b>								
Nominal voltage	Operating category	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>
415 V CA	AC 21 A / AC 21 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
415 V CA	AC 22 A / AC 22 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
415 V CA	AC 23 A / AC 23 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
500 V CA	AC 21 A / AC 21 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
500 V CA	AC 22 A / AC 22 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
500 V CA	AC 23 A / AC 23 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
690 V CA	AC 20 A / AC 20 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
690 V CA	AC 21 A / AC 21 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
690 V AC <sup>(2)</sup>	AC 22 A / AC 22 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
690 V AC <sup>(2)</sup>	AC 23 A / AC 23 B	25/25	32/32	32/32	50/50	63/63	100/100	125/125
220 V DC	DC 21 A / DC 21 B	-/25	-/32	-/32	-	-/63	100/100	125/125
220 V DC	DC 22 A / DC 22 B	-/25	-/32	-/32	-	-	100/100	125/125
220 V DC	DC 23 A / DC 23 B	-/25 <sup>(3)</sup>	-/25 <sup>(3)</sup>	-/25 <sup>(3)</sup>	-	-	100/100	125/125
440 V DC	DC 21 A / DC 21 B	-	-	-	-	-/63 <sup>(4)</sup>	100 <sup>(4)</sup> /100 <sup>(4)</sup>	125 <sup>(4)</sup> /125 <sup>(4)</sup>
440 V DC	DC 22 A / DC 22 B	-	-	-	-	-	100 <sup>(4)</sup> /100 <sup>(4)</sup>	125 <sup>(4)</sup> /125 <sup>(4)</sup>
440 V DC	DC 23 A / DC 23 B	-	-	-	-	-	100 <sup>(4)</sup> /100 <sup>(4)</sup>	125 <sup>(4)</sup> /125 <sup>(4)</sup>
<b>Rated operational power in AC-23 (kW)</b>								
At $U_e$ 415 VAC without pre-break auxiliary contact <sup>(1)(5)</sup>		11/11	15/15	15/15	25/25	30/30	51/51	63/63
At $U_e$ 690 VAC without pre-break auxiliary contact <sup>(1)(5)</sup>		22/22	25/25	25/25	45/45	55/55	90/90	90/90
<b>Reactive power (kvar)</b>								
At $U_e$ 415 VAC <sup>(5)</sup>		11	15	15	23	28	45	55
<b>Dissipated power (W / pole)</b>								
Dissipated power		3.1	4.1	5.9	7.3	8.4	14.5	19.9
Power dissipated by fuse		2.4	2.9	4.3	4.6	6	9	11
Power dissipated by switch body		0.7	1.2	1.6	2.45	4.35	6.8	8.63
<b>Wiring capacity of conductors</b>								
Minimum Cu cable cross-section (mm <sup>2</sup> )		2.5	2.5	2.5	6	10	25	35
Minimum Cu cable cross-section (mm <sup>2</sup> )		16	16	16	25	25	95	95
Maximum busbar width (mm)		-	-	-	-	-	20	20
Min. tightening torque (Nm)		2	2	2	3	3	9	9
<b>Mechanical characteristics</b>								
Durability (number of operating cycles)		10 000	10 000	10 000	10 000	10 000	10 000	10 000
Operating torque (Nm)		4.1	4.1	4.1	8.7	8.7	9.7	10.2
Weight of a 3-pole device without extras (kg)		0.48	0.48	0.50	0.80	1	1.5	1.5
Weight of a 4-pole device without extras (kg)		0.50	0.50	0.52	1	1.3	2	2
Weight of 1 P extra (kg)		-	-	-	0.2	0.3	0.5	0.5
Storage temperature (°C)		-50 ... +85						
Operating temperature (°C)		-20 ... +70						
Regulatory compliance		IEC 60947-3						
Certification		IEC, KEMA, Lloyd's and CCC						
Degree of pollution		3	3	3	3	3	3	3

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

(2) With terminal shrouds or phase barrier.

(3) 3-pole device with 2 poles in series for the '+' and 1 pole for the '-'.  
(4) 4-pole device with 2 poles in series per polarity.

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

(6) For a rated operational voltage  $U_e = 400$  VAC

## 160 to 400 A

References	3615 x015	3615 x016	3615 x024	3615 x039	
Type	Mod. 160 A	Mod. 160 A	Mod. 250 A	Mod. 400 A	
Frame size	3	4	5	6	
Casing pitch per power pole (mm)	36	50	60	66	
Number of poles	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	
Rated thermal current $I_{th}$ (35 °C)	160 A	160 A	250 A	400 A	
NFC/DIN fuse size	NH00	NH0	NH1	NH2	
Rated operational voltage $U_e$ (V)	690 V	600 V	690 V	690 V	
Rated insulation voltage $U_i$ (V)	800	800	800	1,000	
Rated impulse withstand voltage $U_{imp}$ (kV)	8	8	8	12	
<b>Short-circuit characteristics</b>					
Prospective short-circuit current at $U_e$ 400/415V AC (kA rms)	50	100	100	50	
Prospective short-circuit current at $U_e$ 660/690V AC (kA rms)	50	50	50	50	
Rated peak withstand current in $I_{cc}$ $U_e$ 415 V AC (kA peak) (single switch)	18.95	22.66	23.9	33.5	
Rated peak withstand current in $I_{cc}$ $U_e$ 690 V AC (kA peak) (single switch)	13.5	14	29	29.9	
<b>Rated operational current (A)</b>					
Nominal voltage	Operating category	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>
415 V CA	AC 21 A / AC 21 B	160/160	160/160	250/250	400/400
415 V CA	AC 22 A / AC 22 B	160/160	160/160	250/250	400/400
415 V CA	AC 23 A / AC 23 B	160/160	160/160	250/250	400/400
500 V CA	AC 21 A / AC 21 B	160/160	160/160	250/250	-/400
500 V CA	AC 22 A / AC 22 B	160/160	160/160	250/250	-/400
500 V CA	AC 23 A / AC 23 B	160/160	160/160	250/250	-
690 V CA	AC 20 A / AC 20 B	160/160	160/160	250/250	400/400
690 V CA	AC 21 A / AC 21 B	160/160	160/160	250/250	-/400
690 V AC <sup>(2)</sup>	AC 22 A / AC 22 B	160/160	160/160	250/250	-/400
690 V AC <sup>(2)</sup>	AC 23 A / AC 23 B	125/125	125/125	250/250	250/315
220 V DC	DC 21 A / DC 21 B	160/160	160/160	250/250	-
220 V DC	DC 22 A / DC 22 B	160/160	160/160	250/250	-
220 V DC	DC 23 A / DC 23 B	125/125	125/125	200/200	-
440 V DC	DC 21 A / DC 21 B	160 <sup>(3)</sup> /160 <sup>(3)</sup>	160 <sup>(3)</sup> /160 <sup>(3)</sup>	250 <sup>(3)</sup> /250 <sup>(3)</sup>	-
440 V DC	DC 22 A / DC 22 B	160 <sup>(3)</sup> /160 <sup>(3)</sup>	160 <sup>(3)</sup> /160 <sup>(3)</sup>	250 <sup>(3)</sup> /250 <sup>(3)</sup>	-
440 V DC	DC 23 A / DC 23 B	125 <sup>(3)</sup> /125 <sup>(3)</sup>	125 <sup>(3)</sup> /125 <sup>(3)</sup>	200 <sup>(3)</sup> /200 <sup>(3)</sup>	-
<b>Rated operational power in AC-23 (kW)</b>					
At $U_e$ 415 VAC without pre-break auxiliary contact <sup>(1)(5)</sup>		80/80	80/80	132/132	220/220
At $U_e$ 690 VAC without pre-break auxiliary contact <sup>(1)(5)</sup>		110/110	110/110	220/220	220/295
<b>Reactive power (kvar)</b>					
At $U_e$ 415 VAC <sup>(5)</sup>		75	75	115	185
<b>Dissipated power (W / pole)</b>					
Dissipated power		21.6	23	41.1	57.4
Power dissipated by fuse		12	15	23	33
Power dissipated by switch body		10.4	10.4	19	24.4
<b>Wiring capacity of conductors</b>					
Minimum Cu cable cross-section (mm <sup>2</sup> )		35	50	95	185
Minimum Cu cable cross-section (mm <sup>2</sup> )		95	95	240	240
Maximum busbar width (mm)		20	20	32	45
Min. tightening torque (Nm)		9	9	20	20
<b>Mechanical characteristics</b>					
Durability (number of operating cycles)		10 000	10 000	10 000	10 000
Operating torque (Nm)		10.2	9.7	13	17
Weight of a 3-pole device without extras (kg)		1.8	1.8	3.2	4.8
Weight of a 4-pole device without extras (kg)		2.3	2.3	4.5	6.1
Weight of 1 P extra (kg)		0.5	0.5	1.3	1.3
Storage temperature (°C)		-50 ...+85			
Operating temperature (°C)		-20...+70			
Regulatory compliance		IEC 60947-3			
Certification		IEC, KEMA, Lloyd's and CCC			
Degree of pollution		3	3	3	3

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

(2) With terminal shrouds or phase barrier.

(3) 3-pole device with 2 poles in series for the '+' and 1 pole for the '-'.  
(4) 4-pole device with 2 poles in series per polarity.

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

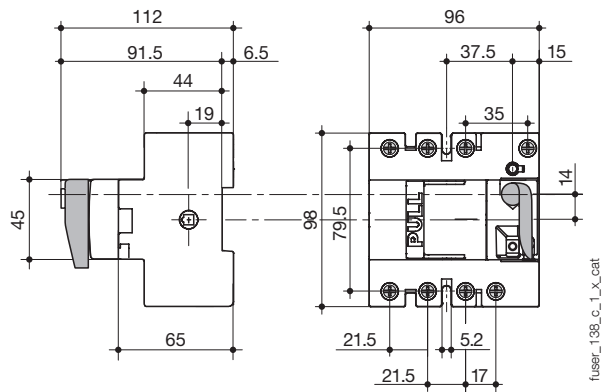
(6) For a rated operational voltage  $U_e = 400$  VAC

# FUSERBLOC

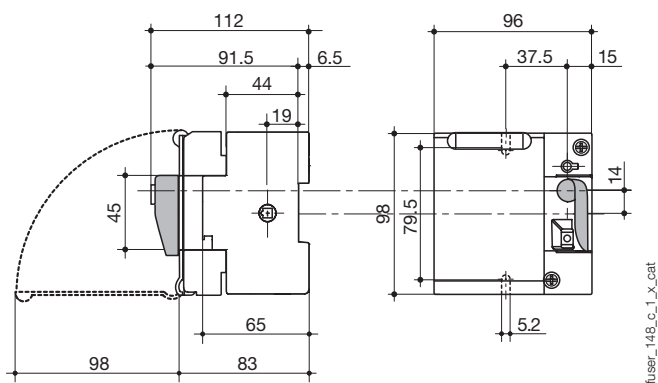
Direct-control fuse combination switches  
for industrial fuses up to 400 A

## Dimensions - direct operation

25 A (size 10 x 38)



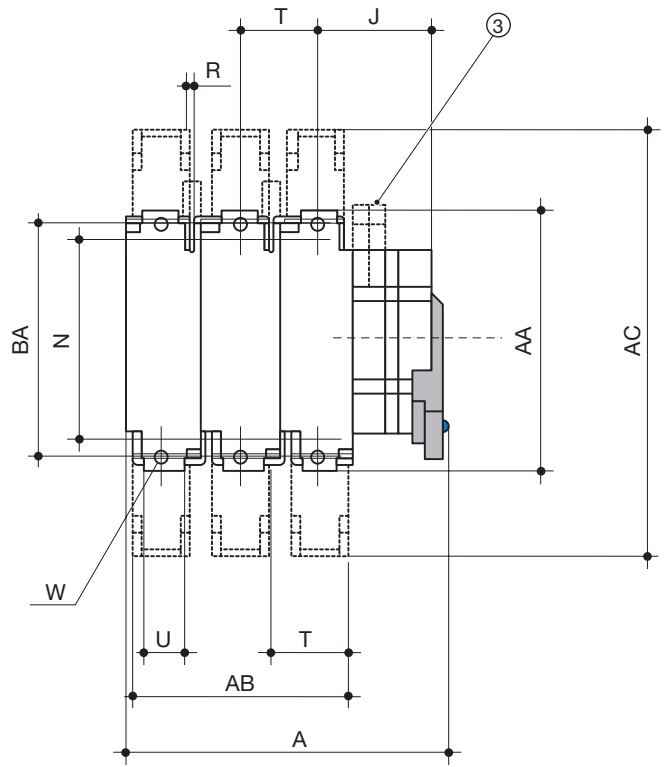
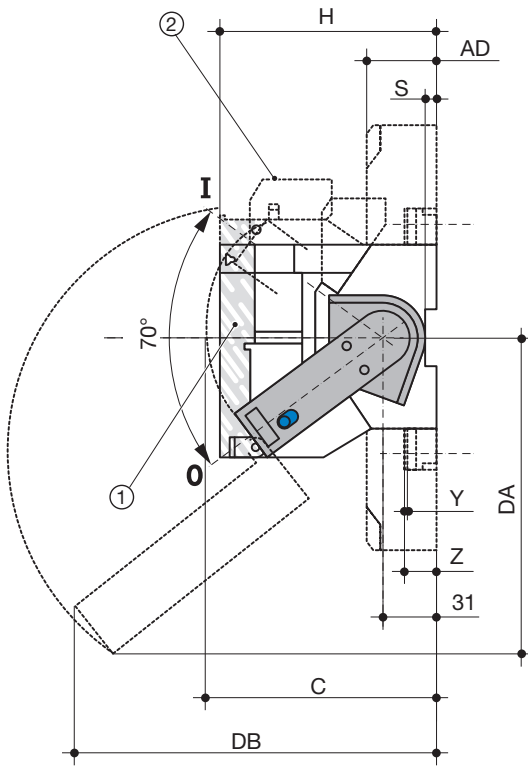
32 A (size 14 x 51)



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Direct-control fuse combination switches  
for industrial fuses up to 400 A

50 to 400 A



fuser\_064\_b\_1\_gb\_cat

1. Protection screen lockable in position I
2. 1 or 2 auxiliary contacts type DDMM
3. 1 or 2 auxiliary contacts type A

Rating (A)	Fuse size	Frame size	Overall dimensions			Terminal shrouds				Case				Switch mounting				Connection					
			A 3p.	A 4p.	C	AB 3p.	AB 4p.	AC	AD	H	J	DA	DB	N	R	S	T	U	W	Y	Z	AA	BA
50	14 x 51	1	118	145	134					87	33.5			106	5.4	6.5	27					118	
63	00C	2	133	165	134					116	36	159	145	106	5.4	6.5	32					118	
100	22 x 58	3	150	186	173	108	144	268	44	116	38			127	5.4		36	20	8.5	2.5	19.5	162	141
125	22 x 58	3	150	186	173	108	144	268	44	116	38			127	5.4		36	20	8.5	2.5	19.5	162	141
125	00	3	150	186	173	108	144	268	44	126	38	141	193	127	5.4		36	20	8.5	2.5	19.5	162	141
160	00	3	150	186	173	108	144	268	44	126	38	141	189	127	5.4		36	20	8.5	2.5	19.5	162	141
160	0	4	192	242	173	136	172	268	44	136	45	174	229	140	5.4		50	20	8.5	2.5	19.5	162	141
250	1	5	253	313	173	180	240	345	65	146	81	185	251	162	6.4		60	32	11	2.5	19.5	195	166
400	2	6	271	337	173	192	258	355	65	149	86	200	260	172	6.4		66	50	11	3	20	205	175