

Enclosed switches

Fused combination switches

32 to 800 A



FUSERBLOC enclosure 32 to 63A
Painted steel - IP65



FUSERBLOC enclosure 50 to 160A
Polyester - IP55



FUSERBLOC enclosure 100 to 800A
Painted steel - IP65

The solution for

- > OEM
- > Industries
- > Commercial buildings
- > Electrical distribution



Strong points

- > Safe operation
- > Suitable for all kinds of environments
- > Easy installation
- > Extensive range

Conformity to standards

- > IEC 60947-3
- > IEC 60364
- > EN 60947-3
- > EN 61439
- > EN 60204-1



Other products

- > Customised solutions available on request.

Functions

Enclosed fuse combination switches ensure on-load breaking and making of circuits, protect against overcurrents, and safely isolate all low-voltage electrical circuits by providing protection against contact with live parts and environmental elements, such as dust, water and other hazards. They enable the disconnection and isolation of the power supply as close to the equipment as possible.

Advantages

Safe operation

- Reliable lockout for safe maintenance procedures.
- On-load breaking.
- Ergonomic operating handle, available in red/yellow or black.
- Triple lock in OFF position.

Suitable for all kinds of environments

- Insulated enclosure for chemical and food processing applications, indoor or outdoor installation.
- Painted steel enclosure for areas at risk of impact.

Easy installation

- Cable access top and/or bottom.
- Cable gland knockouts ($\leq 100A$).
- Removable gland plates at top and bottom for steel enclosures $\geq 160A$.
- Plenty of room for cabling.

Extensive range

- Standard range.
- Customised products on request.

Fuse combination switch in insulated enclosure

■ **FUSERBLOC** in polyester enclosure



General characteristics

- From 50 to 160 A.
- 3 poles, 4 poles.
- DIN fuse protection (For BS, please contact us).
- Black handle (red/yellow on request).
- Triple lock in OFF position.
- Polyester enclosure.
- Screw-on front.
- Colour: RAL 7035.
- Ingress Protection rating: IP55.
- Wall-mounted, 4 brackets included.

Accessories

- NO or NC aux. contact.
- Blown fuse NO/NC auxiliary contact.
- Terminal shroud.

References

Rating (A)	Case	No. of poles	With black handle	Fuse size (NF, NH)	Auxiliary contacts	Terminal shroud	Blown fuse NO/NC auxiliary contact	Enclosure	
								Size	H x W x D (mm)
50	11	3 P	3117 3005	14 x 51	1 NO AC 3999 0701	-	3994 0303	CP 22	270 X 270 X 171
		4 P	3117 4005				3994 0405		
100	13	3 P	3117 3010	22 x 58	1 NC AC 3999 0702	3998 3016	3994 0310	CP 32	360 X 270 X 171
		4 P	3117 4010			3998 4016	3994 0410		
160	14	3 P	3117 3016	0		3998 3016	3994 0316	CP 52	540 X 270 X 171
		4 P	3117 4016			3998 4016	3994 0416	CP 53	540 X 360 X 171

■ **FUSERBLOC** in metallic enclosure



General characteristics

- 32 to 800 A.
- 3 poles + solid neutral, 4 poles.
- DIN fuse protection (For BS, please contact us).
- Black handle (red/yellow on request).
- Triple lock in OFF position.
- Painted steel enclosure.
- Hinged door with double bar locking.
- Colour: RAL 7035.
- Cable gland knockouts ($\leq 63A$) or removable gland plates ($\geq 100A$) at top and bottom.

- Ingress Protection rating: IP65.
- Wall mounting brackets included (not available for 32 and 63 A).

Accessories

- NO or NC aux. contact.
- Blown fuse NO/NC auxiliary contact.
- Terminal shroud.

References

Rating (A)	Case	No. of poles	With black handle	Fuse size (NF, NH)	Auxiliary contacts	Terminal shroud	Blown fuse NO/NC auxiliary contact	Bracket kit	Enclosure		
									Size	H x W x D (mm)	Cable entry top and bottom (mm)
32	0	3 P + N	3035 5003	14 x 51		-	-	3031 0011	CT 32a	300 x 250 x 150	$\varnothing 32 + 2 \times \varnothing 50 + \varnothing 16$
		4 P	3035 4003				-		CT 33	300 x 300 x 150	4 x $\varnothing 32 + \varnothing 16$
63	12	3 P + N	3035 5006	00C			-		CT 43	400 x 300 x 210	180 x 100
		4 P	3035 4006				-		CT 44	400 x 400 x 210	280 x 100
100	13	3 P + N	3035 5010	22 x 58	1 NO AC 3999 0701	3998 3016	3994 0410		CT 64	600 x 400 x 250	280 x 100
		4 P	3035 4010			3998 4016	3994 0410		CT 66	600 x 600 x 300	380 x 100
160	13	3 P + N	3035 5016	00	1 NC AC 3999 0702	3998 3016	3899 3380		CT 108	1000 x 800 x 400	660 x 100
		4 P	3035 4016			3998 4016	3994 0425				
250	15	3 P + N	3035 5025	1		3998 3025	3994 0425				
		4 P	3035 4025			3998 4025	3994 0425				
400	16	3 P + N	3035 5040	2		3898 3040	3994 0440				
		4 P	3035 4040			3898 4040	3994 0440				
630	17	3 P + N	3035 5063	3		3898 3080	3994 1406				
		4 P	3035 4063			3898 4080	3994 1406				
800	18	3 P + N	3035 5080	4		3898 3120	3994 1412				
		4 P	3035 4080			3898 4120	3994 1412				

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Characteristics

Electrical characteristics according to IEC 60947-3

Thermal current I_{th} (40 °C)	FUSERBLOC									
	CD 32 A	50 A	63 A	100 A	160 A	160 A	250 A	400 A	630 A	800 A
NFC/DIN fuse size	14 x 51	14 x 51	00C	22 x 58	00	0	1	2	3	4
Switch frame size	0	11	12	13	13	14	15	16	17	18
Enclosed thermal current I_{th} (35 °C) (A)	32	50	57	100	160	160	240	400	630	800
Enclosed thermal current I_{th} (50 °C) (A)	29	48	52	86	138	138	207	345	544	691
Rated insulation voltage U_i (V)	800	800	800	800	800	800	800	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	8	8	8	8	8	8	8	12	12	12
Rated operational currents I_e (A)										
Rated voltage	Utilisation category	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
400 VAC	AC-22 A / AC-22 B	32/32	50/50	63/63	100/100	160/160	160/160	250/250	400/400	630/630
400 VAC	AC-23 A / AC-23 B	32/32	50/50	63/63	100/100	160/160	160/160	250/250	400/400	630/630
690 VAC	AC-22 A / AC-22 B	32/32	50/50	63/63	100 ⁽²⁾ /100 ⁽²⁾	160 ⁽²⁾ /160 ⁽²⁾	160 ⁽²⁾ /160 ⁽²⁾	250 ⁽²⁾ /250 ⁽²⁾	400/400	500/630
690 VAC	AC-23 A / AC-23 B	32/32	50/50	63/63	100 ⁽²⁾ /100 ⁽²⁾	125 ⁽²⁾ /125 ⁽²⁾	125 ⁽²⁾ /125 ⁽²⁾	250 ⁽²⁾ /250 ⁽²⁾	315/400	315/400
Operational power in AC-23 (kW)										
At 400 VAC without pre-break AC ⁽¹⁾⁽³⁾		15/15	25/25	30/30	51/51	80/80	80/80	132/132	220/220	355/355
At 690 VAC without pre-break AC ⁽¹⁾⁽³⁾		25/25	45/45	55/55	90/90	110/110	110/110	220/220	220/295	295/400
Reactive power (kvar)										
At 400 VAC ⁽³⁾		15	23	28	45	75	75	115	185	290
gG DIN fuse protected short-circuit withstand current										
Prospective short-circuit current (kA rms.) ⁽⁴⁾		100	100	100	100	50	100	100	100	100
Associated fuse rating (A) ⁽⁴⁾		32	50	63	100	160	160	250	400	630
Short-circuit operation (switch only)										
Rated peak withstand current (kA peak) ⁽⁴⁾		5.5	7.6	10.6	20	20	22.7	32.5	40	70
Connection										
Minimum copper cable cross-section (mm ²)		2.5	6	10	25	35	50	95	185	2 x 150
Maximum copper cable cross-section (mm ²)		16	25	25	95	95	95	240	240	2 x 300

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

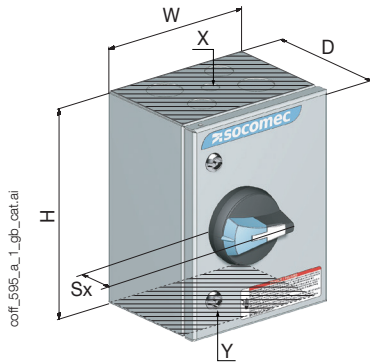
(2) With terminal shrouds or inter-phase barrier.

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

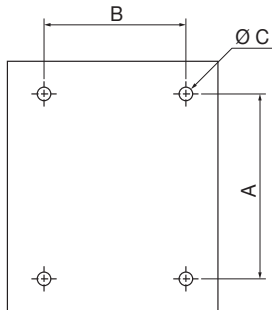
(4) For a rated operational voltage $U_e = 400$ VAC.

Dimensions

Enclosures



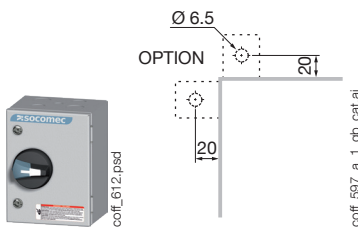
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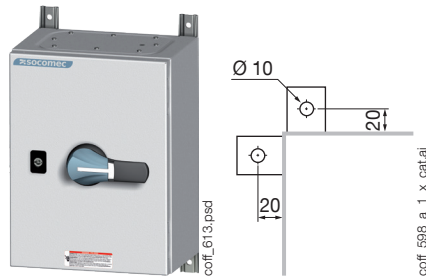
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Size	Type	H x W x D (mm)	Sx (mm)	A (mm)	B (mm)	Ø C (mm)	X - Y Cable entry top and bottom ⁽¹⁾
CP 22	3	270 x 270 x 171	45	247	247	6.5	-
CP 32		360 x 270 x 171		337	247		
CP 52		540 x 270 x 171		516	247		
CP 53		540 x 360 x 171		516	337		
CT 32a	1	300 x 250 x 150		262	212	12.5	Ø 32 + 2 x Ø 50 + Ø 16
CT 33		300 x 300 x 150		262	262		4 x Ø 32 + Ø 16
CT 43	2	400 x 300 x 210		362	262		180 x 100
CT 44		400 x 400 x 210		362	362		280 x 100
CT 64		600 x 400 x 250		562	362		380 x 100
CT 66		600 x 600 x 300		562	562		660 x 100
CT 108		1000 x 800 x 400		962	762		

Type 1



Type 2



Type 3

