Enclosed switches

Fuse 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 environment
- Easy setup
- Extensive range

Compliance with standards

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

Other products

- Customised solutions available on request.

Function

Enclosed fuse combination load break 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 shutdown 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 environment
- Insulated enclosure for chemical and food processing applications, indoor or outdoor installation.
- Painted steel for areas at risk of impact.

Easy setup
- Cable access top and/or bottom.
- Cable gland knockouts (≤ 100 A).
- Removable gland plates at top and bottom for steel enclosures ≥ 160 A.
- Plenty of room for cabling.

Extensive range
- Standard range.
- Customised products on request.

Fuse combination load break switch in insulated enclosure

■ *FUSERBLOC* in polyester enclosure



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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.
- Degree of protection: IP55.
- Wall-mounted, 4 brackets included.

Accessories

- Aux contact open (NO) or closed (NC).
- 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	Enclosure H x W x D (mm)
50	11	3 P	3117 **3005**	14 x 51	1 NO AC 3999 0701 1 NC AC 3999 0702	-	3994 **0405**	CP 22	270 X 270 X 171
		4 P	3117 **4005**						
100	13	3 P	3117 **3010**	22 x 58		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



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General characteristics

- From 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 (≤ 63 A) or removable gland plates (≥100A) at top and bottom.
- Degree of protection: IP65.
- Wall mounting brackets included (not available for 32 and 63 A).

Accessories

- Aux contact open (NO) or closed (NC).
- Blown fuse NO/NC auxiliary contact.
- Terminal shrouds.

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	Enclosure H x W x D (mm)	Enclosure Cable-in top and bottom (mm)
32	0	3 P + N	3035 **5003**	14 x 51	1 NO AC 3999 **0701** 1 NC AC 3999 **0702**	-	-	3031 **0011**	CT 32a	300 x 250 x 150	Ø 32 + 2 x Ø 50 + Ø 16
		4 P	3035 **4003**								
63	12	3 P + N	3035 **5006**	00C			-		CT 33	300 x 300 x 150	4 x Ø 32 + Ø 16
		4 P	3035 **4006**								
100	13	3 P + N	3035 **5010**	22 x 58		3998 **3016**	3994 **0410**	included	CT43	400 x 300 x 210	180 x 100
		4 P	3035 **4010**			3998 **4016**	3994 **0410**				
160	13	3 P + N	3035 **5016**	00		3998 **3016**	3899 **3380**		CT 44	400 x 400 x 210	280 x 100
		4 P	3035 **4016**			3998 **4016**					
250	15	3 P + N	3035 **5025**	1		3998 **3025**	3994 **0425**		CT 64	600 x 400 x 250	280 x 100
		4 P	3035 **4025**			3998 **4025**	3994 **0425**				
400	16	3 P + N	3035 **5040**	2		3898 **3040**	3994 **0440**		CT 66	600 x 600 x 300	380 x 100
		4 P	3035 **4040**			3898 **4040**	3994 **0440**				
630	17	3 P + N	3035 **5063**	3		3898 **3080**	3994 **1406**		CT 108	1000 x 800 x 400	660 x 100
		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**				

Characteristics

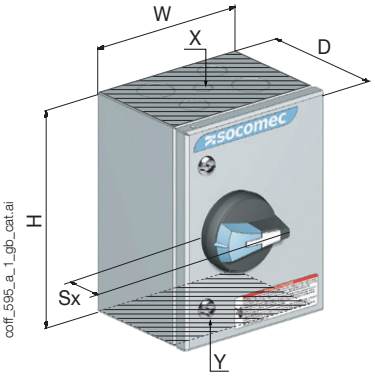
Electrical features according to IEC 60947-3

		FUSERBLOC									
Thermal current I_{th} (40 °C)		**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 body size for front and side operation		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]**	**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	800/800
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	800/800
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	800/800
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	800/800
Operational power in AC-23 (kW)											
At 400 VAC without pre-break in AC [1][3]		15/15	25/25	30/30	51/51	80/80	80/80	132/132	220/220	355/355	450/450
At 690 VAC without pre-break in AC [1][3]		25/25	45/45	55/55	90/90	110/110	110/110	220/220	220/295	295/400	400/400
Reactive power (kvar)											
At 400 VAC [3]		15	23	28	45	75	75	115	185	290	355
gG DIN fuse protected short-circuit withstand current											
Prospective short-circuit current (kA rms) [4]		100	100	100	100	50	100	100	100	100	100
Associated fuse rating (A) [4]		32	50	63	100	160	160	250	400	630	800
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	80
Connection											
Minimum Cu cable cross-section (mm^2)		2.5	6	10	25	35	50	95	185	2 x 150	-
Maximum Cu cable cross-section (mm^2)		16	25	25	95	95	95	240	240	2 x 300	4 x 185

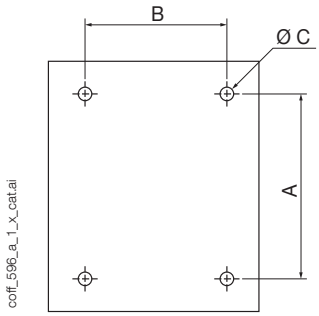
(1) Category with index A = frequent operation / Category with index B = infrequent operation.
(2) With terminal shrouds or phase barrier.
(3) The power value is given for information only; the current values vary from one manufacturer to another.
(4) For a rated operational voltage U_e = 400 VAC

Dimensions

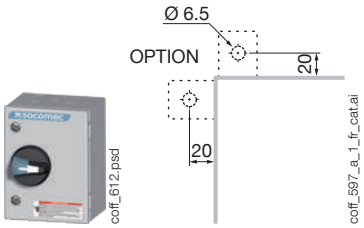
Enclosures



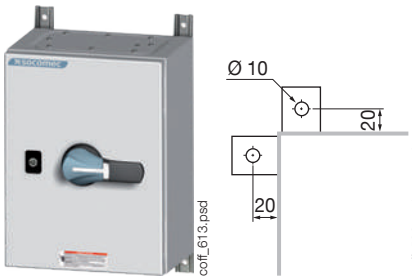
Size	Type	H x W x D (mm)	Sx (mm)	A (mm)	B (mm)	Ø C (mm)	X - Y Cable-in top and bottom[1]
CP 22	3	270 x 270 x 171	45	247	247	6.5	–
CP 32		360 x 270 x 171		337	247		
CP 52		540 x 270 x 171		516	247		
CP 53		540 x 360 x 171		516	337		
CT 32a	1	300 x 250 x 150		262	212		Ø 32 + 2 x Ø 50 + Ø 16
CT 33		300 x 300 x 150		262	262		4 x Ø 32 + Ø 16
CT 43	2	400 x 300 x 210		362	262	12.5	180 x 100
CT 44		400 x 400 x 210		362	362		280 x 100
CT 64		600 x 400 x 250		562	362		
CT 66		600 x 600 x 300		562	562		380 x 100
CT 108		1000 x 800 x 400	60	962	762		660 x 100



Type 1



Type 2



Type 3

