



FCOS

Switch fuse changeover
from 125 to 630 A

Changeover
switches



Function

The **SOCOMEFCOS** is a manually operated 4 poles changeover with protective devices as HRC fuses mounted on the load side. The switch is provided with an isolating neutral and offers protection against overload and short-circuit in position I and II.

Operations

Direct

The pad lockable handle is mounted directly on the FCOS and lockable in ON/OFF position.

External

The pad lockable handle is to be mounted on the panel door and lockable in ON/OFF position. The external front operation ensures that the door is interlocked in ON position.

General Characteristics

- 3 stable positions (I - O - II)
- Bridging Bars mounted on all ratings as standard
- Very compact design
- Resistant to Tropical conditions and Polluted environment
- Quick Make & Quick Break
- High thermal and Dynamic withstand capacity
- Available in open execution and Sheet Steel Enclosure for top or bottom cable connection
- High performance: AC23 Category
- Bounce Free contacts
- Unique Safety Handle with built in door Padlock facility
- High Electrical and Mechanical Endurance
- BS type HRC fuses
- Prospective short-circuit rating with fuses up to 80kA rms

The solution for

- > Safe supply of medium critical loads, with protection



Strong points

- > Safe and easy to use
- > Stable positions
- > Large connection capabilities for direct aluminium cable connection
- > Overload and short-circuit current protection up to 80 kA

Conformity to standards

- > IS/IEC 60947-3



Characteristics

125 to 630 A

FCOS from 125 to 630 A						
References	GF01254POI ⁽¹⁾	GF02004POI ⁽¹⁾	GF02504POI ⁽¹⁾⁽²⁾	GF03204POI ⁽¹⁾	GF04004POI ⁽¹⁾⁽²⁾	GF06304POI ⁽¹⁾⁽²⁾
Thermal current I_{th} (40°C)						
Max. normal rating of fuses	125 A	200 A	250 A	320 A	400 A	630 A
Insulation voltage U _i (V)	1000	1000	1000	1000	1000	1000
Dielectric strength (V) 50 Hz 1 mn.	5000	5000	5000	5000	8000	8000
Impulse voltage (kV)	6	6	8	8	12	12
Rated operational currents I_e (A)						
415 VAC-AC 23A	125	200	250	320	400	630
500 VAC-AC 23A	100	160	200	250	315	315
280 VDC-DC 21A	125	200	250	320	400	630
260 VDC-DC 22A	125	200	250	320	400	500
260 VDC-DC 23A	125	160	200	250	400	500
440 VDC-DC 21A	125	200	250	320	400	500
440 VDC-DC 22A	125	160	200	250	400	500
440 VDC-DC 23A	125	160	200	250	400	500
Motor power (kW) 415V						
415 VAC without pre-break auxiliary contact	63	80	132	160	200	220
500 VAC without pre-break auxiliary contact	63	63	140	220	220	220
690 VAC without pre-break auxiliary contact	55	55	90	150	150	150
415 VAC with pre-break auxiliary contact	63	80	132	160	220	355
500 VAC with pre-break auxiliary contact	80	80	160	220	280	355
690 VAC with pre-break auxiliary contact	110	110	110	220	220	295
Motor reactive 415 VAC (kVAR)	55	60	100	125	150	2 x 125
Protection						
Short-circuit current with fuses (kA rms)	80	80	80	80	80	80
Fuse rating	125	200	250	315	400	630
Fuse type	A4	B2	B3	B3	C1	C2
Peak short-circuit making capacity (kA rms)	20	20	30	45	45	45
Admissible short time current 1 sec (kA rms)	7	7	9	13	13	13
Making & breaking characteristics						
Breaking capacity (A rms) 415 VAC pf-0.35	1000	1600	2000	2520	3200	5040
Making capacity (A rms) 415 VAC pf-0.35	1250	2000	2500	3150	4000	6300
Endurance						
Mechanical No. of operations	8000	8000	8000	5000	5000	5000
Electrical No. of operations	1000	1000	1000	1000	1000	1000
Operating force (Nm)	9.5	9.5	11	11	17	17
Connection						
Min. Cu cable/bus bar size (mm ²)	50	95	120	185	240	40 x 5 x 2
Min. Al cable/bus bar size (mm ²)	70	150	185	240	300	40 x 8 x 2

1. Includes switch + handle + door interlock.

2. 1 NO, NC factory fitted.

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Accessories

Handle

Rating (A)	Reference
125	42990003GI
200 ... 250	42990005GI
320	42990007GI
400	42990008GI
630	42990009GI



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Door Interlock assembly

Rating (A)	Reference
125 ... 630	42590003GI



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Bridging bars

Rating (A)	Reference
125	41094013F-SA
200 ... 320	41094032F-SA
400	41094040F-SA
630	41094063F-SA



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Auxiliary contact

1 st auxiliary contact	
Rating (A)	Reference
125 ... 630	42091040GI



2 nd auxiliary contact	
Rating (A)	Reference
125 ... 630	42092040GI



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Supply barrier

Rating (A)	Reference
125	G89B595GI
200 ... 320	G89B596GI
400 ... 630	G89B597GI



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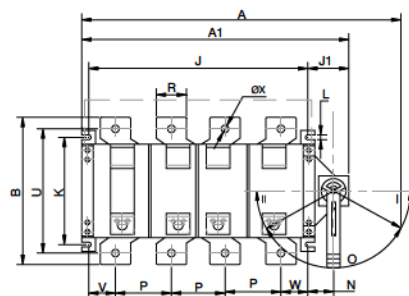
Fuse barrier

Rating (A)	Reference
125	G891088GI
200 ... 320	G891157GI
400 ... 630	G89B594GI

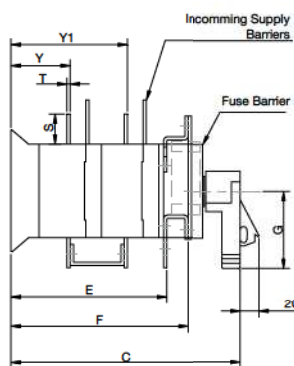
Dimensions (mm)

125 to 630 A

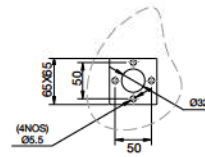
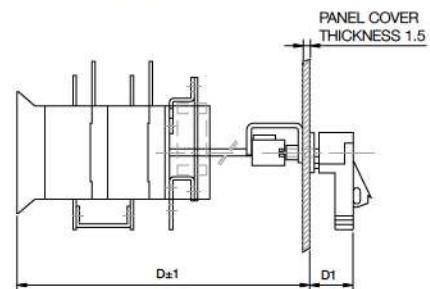
Direct front operation



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External front operation



DOOR DRILLING FOR INTERLOCK ASSY. MOUNTING

Rating (A)	Overall dimensions							Fixing of Sw.							Connection terminal							Sw. Wt. Open Ex. (kg)			
	A	A1	B	C	D	D1	E	F	G	J	J1	K	L	N	P	R	S	T	U	V	W		ØX	Y	Y1
4 x 125	305	227	142	275	287	65	150	185	115	159	58	95	7.0	26	45	22	28	3.0	118	12	12	8.5	54	120	5.5
4 x 200	363	285	192	315	328	65	177	208	115	212	63	111	7.5	27	64	32	46	4.5	152	7	13	12	62	140	10.2
4 x 250	363	285	192	315	328	65	177	208	127	212	63	111	7.5	27	64	32	46	4.5	152	7	13	12	62	140	10.2
4 x 320	363	285	192	315	328	65	177	208	127	212	63	111	7.5	27	64	32	46	4.5	152	7	13	12	62	140	10.2
4 x 400	458	360	235	401	413	65	254	298	140	271	80	180	9.0	45	73	40	40	5.0	205	26	26	11	84	195	19.3
4 x 630	458	360	270	401	413	65	254	298	140	271	80	180	9.0	45	81	55	55	5.0	230	14	14	14.5	84	195	25.6



Enclosed *FCOS*

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- > Overload and short-circuit current protection up to 80 kA

Conformity to standards

- > IS/IEC 60947-3



Function

Manually operated sheet steel enclosed fuse changeover switches provide changeover, source inversion or switching under load between two low voltage power circuits, their safety isolation and overload as well as short-circuit protection. The enclosure provides protection against contact with live parts as well as environmental factors such as dust, water and other hazards.

- On load manual changeover between 2 sources
- Emergency breaking
- Selection between two loads
- Safe isolation of downstream loads for maintenance purpose
- Protection of the downstream load against short-circuits and overloads.

General Characteristics

- Black handle padlockable in 0/III position
- CRCA sheet (Door 1.2 mm, Body 1.6 mm)
- Colour shade: RAL 7035 coating of epoxy polyester powder 70 micron
- 2 external earthing points on each side
- Wall mounted with 4 bolts
- Door locking system allows opening of door only in off position
- Incoming & outgoing easily interchangeable at site
- Removable plate top & bottom
- Door with solid hinges
- BS type HRC fuses
- Prospective short-circuit rating with fuses up to 80 kA rms

References & dimensions

Rating (A)	Reference	L (mm)	W (mm)	X (mm)	Y (mm)	H (mm)
125	GF01254PEI	355	285	245	385	310
200	GF02004PEI	425	375	335	455	353
250	GF02504PEI	425	375	335	455	353
320	GF03204PEI	425	375	335	455	353
400	GF04004PEI	510	475	422	560	437
630	GF06304PEI	510	475	422	560	437

