

Switch Fuse Changeover 4 Pole



125A-630A, AC23A/415V

Salient Features

- Body of fiber glass reinforced polyester resin.
- Auxiliary contact upto 2 NO. 2 NC.
- Quick make and quick break mechanism.
- Protection against over current and short circuit faults by fuses of high rupturing capacity of 80kA rms.
- Bolt holders for easy installation.

Switch Fuse Changeover 125A to 630A



Range

- 125A, 200 A - Frame I
- 250A, 320 A - Frame II
- 400A, 630 A - Frame III

Definition & Function

SOCOMEH HPL switch fuse Changeover is a manually operated 4pole switch fuse with position I-O-II with backup protective devices as HRC fuses mounted in RYB phases. The switch is provided with an isolating Neutral & offers protection in position I as well as in position II to load connected to common outgoing circuit.

Conformity To Standards

Conforms to IEC947-3/IS : 13947-3 on switch disconnector, Switches & fuse combination units.

Approvals

- Tested at CPRI Bhopal for AC-23A utilisation category test.
- Tested for rated short circuit fused current capacity at 80KA rms.

Features

The particular conception of SOCOMEH HPL switch fuse Changeover, 4pole gives the following advantages :

While breaking the circuit, guarantees sufficient air sectioning clearance.

Protection against overcurrents & short circuit faults by fuses of high rupturing capacity 80 kA rms. Compact & standardised sizes for range 125A-630A. Ideal for switch board manufacturers.

Strong endurance & resistance to heat (Tropicalised)
3 Stable positions (I-O-II) & possible switching from one to the other on load, thereby fulfilling the role of switching device with protection for two modes of supply-one from electricity board & other from standby Source - generator and providing back up protection.

Accessories

- Supply Separators- between two individual supply terminals.
- Fuse barrier between fuses.



Switch Fuse Changeover 125A to 630A

Auxiliary Contacts

- Auxiliary contacts upto 2NO. 2NC (optional) for signalisation, interlocking.

Bs Execution (Bolted Type)

- Available in 6 rating from 125A-630A with 3pole & neutral switched & provided with HRC fuses on 3 poles for bolted type fuses as per IS: 13703 (part 2/6) 1993/IEC269-9-101987)

RATING	SUITABLE HRC FUSE	
	Size	REF
125A	A-4	LK-TCP
160A	A-4	LK-TCP
200A	A-4	LK-TSF
250A	B-1	LK-TSK
320A	B-1	LK-TSK
400A	C-1	LK-TSMS (Big)
630A	C-1	LK-TTS

- Front operation - right side
- External padlockable handle with door interlocking arrangement mounted on an enclosure door or on the panel cover.

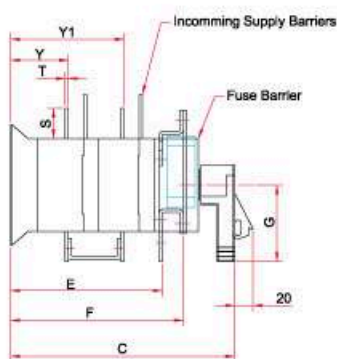
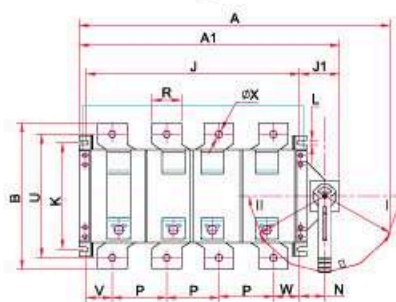
Steel Enclosure

- Switch Fuse Changeover can be supplied in Sheet Steel Enclosures, made of thick gauge sheet steel protected with phosphate coating by seven tank system and powder coated for long life.
- All enclosures are fitted with top and bottom end plates with adequately sized knockouts for cables.

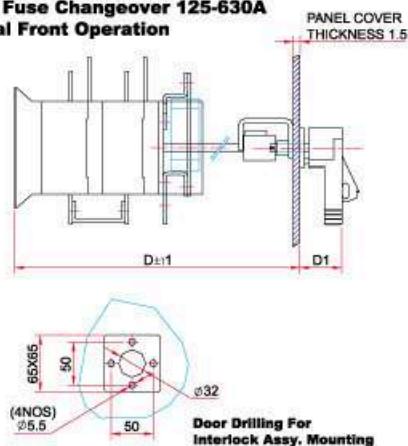


Dimensions

Switch Fuse Changeover 125-630A
Direct Front Operation



Switch Fuse Changeover 125-630A
External Front Operation



RATING	OVER ALL DIMENSION							FIXING OF SW.							CONNECTION TERMINAL							SW. WT. Open Ex.			
	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 A	305	232	142	275	287	65	150	185	118	162	58	95	7.0	26	44	22	28	3.0	118	15	15	8.5	54	120	5.5 Kg.
4 x 200 A	363	285	192	315	328	65	177	208	130	217	63	111	7.0	26	47	25	35	4.5	123	10.5	10.5	10.5	62	140	10.0 Kg.
4 x 250 A	363	285	192	315	328	65	177	208	130	217	63	111	7.5	27	64	32	46	4.5	152	12	16	12	62	140	10.2 Kg.
4 x 320 A	363	285	192	315	328	65	177	208	130	217	63	111	7.5	27	64	32	46	4.5	152	12	16	12	62	140	10.2 Kg.
4 x 400 A	458	360	235	401	413	65	254	298	142	270	80	180	9.0	45	72	40	40	5.0	205	23	19	11	84	195	19.3 Kg.
4 x 630 A	458	360	270	401	413	65	254	298	142	270	80	180	9.0	45	80	55	55	5.0	230	8	7	14.5	84	195	25.6 Kg.

All Dimension in mm

Electrical & Mechanical Characteristics

Thermal Current (Ith) 40°C	125A	200A	250A	320A	400A	630A
Max. Normal rating of fuses	125	200	250	315	400	630
Insulation voltage UI (V)	1000	1000	1000	1000	1000	1000
Dielectric strength (V) 50Hz 1mnt.	5000	5000	5000	5000	8000	8000
Impulse voltage (KV)	6	6	8	8	12	12
Rated Operational Current Ie (A)						
415V AC: AC 23A	125	200	250	320	400	630
500V AC: AC 23A	100	160	200	250	315	315
260V DC: DC 21A	125	200	250	320	400	630
DC 22A	125	200	250	320	400	500
DC 23A	125	160	200	250	400	500
440V DC DC 21A	125	200	250	320	400	500
DC 22A	125	160	200	250	400	500
DC 23A	125	160	200	250	400	500
Motor Power (KW) 415V						
415V AC without pre break Aux. contact	63	80	132	160	200	220
500V AC without pre break Aux. contact	63	63	140	220	220	220
690V AC without pre break Aux. contact	55	55	90	150	150	150
415V AC with pre break Aux. contact	63	80	132	160	220	355
500V AC with pre break Aux. contact	80	80	160	220	280	355
690V AC with pre break Aux. contact	110	110	110	220	220	295
Motor Reactive 415V AC (kVAR)	55	60	100	125	150	2 x 125
Overload Capacity						
Short circuit current with fuses (kArms)	80	80	80	80	80	80
Fuse rating	125	200	250	315	400	630
Peak short circuit making capacity (kArms)	20	20	30	45	45	45
Admissible short time current 1sec (kArms)	7	7	9	13	13	13
Making & Breaking Characteristics						
Breaking Capacity (Arms) 415V AC pf=0.35	1000	1600	2000	2520	3200	5040
Making capacity (Arms) 415V AC 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	30X5X2	40X5X2
Min. Al Cable / Bus bar size (mm ²)	70	150	185	240	32X8X2	40X8X2



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Due to continuous development, specifications and features are subject to change without prior notice.