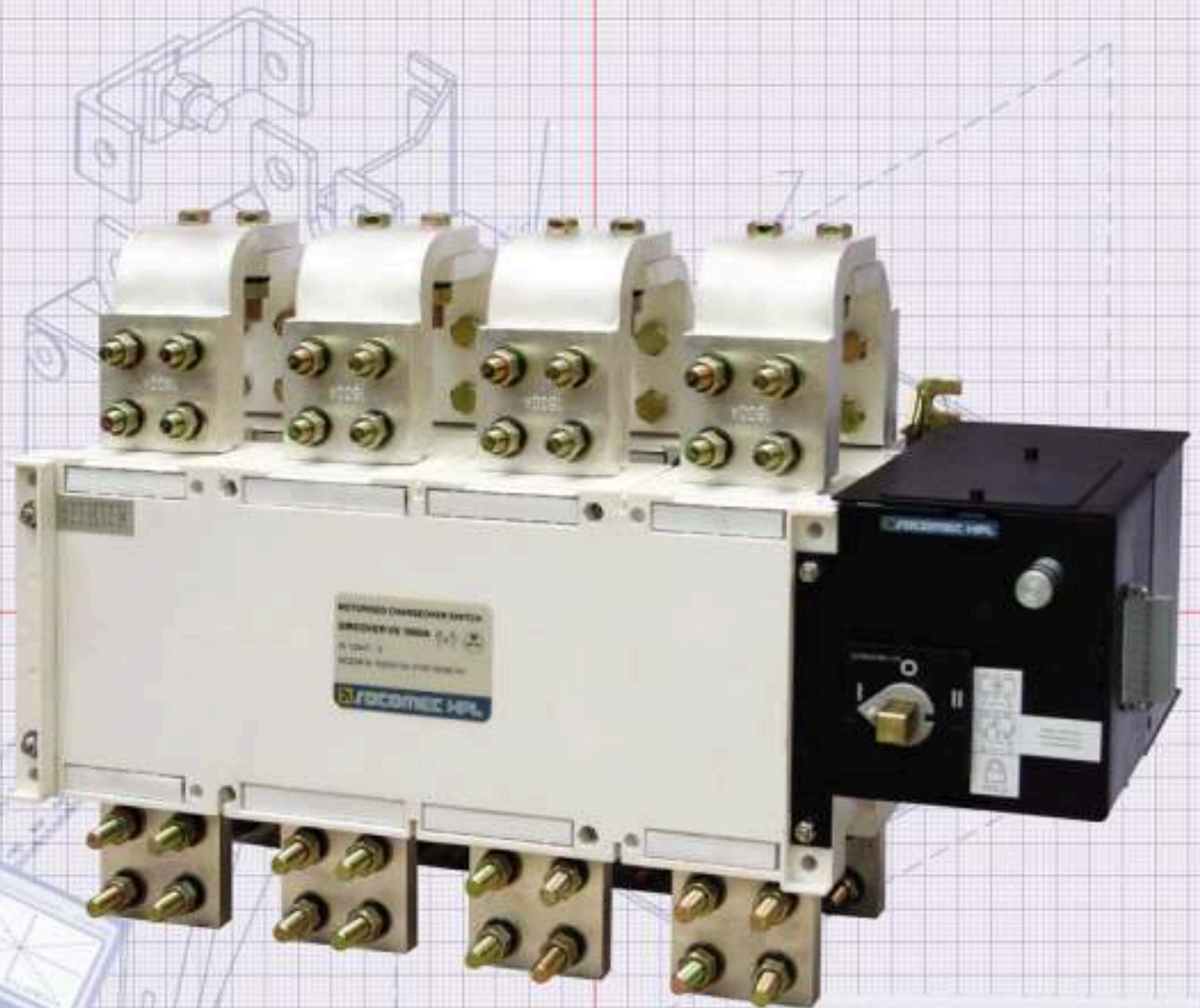


Motorised Onload Changeover

125A - 1600A



Salient Features

Safety in disconnection / on load switching

- A simple strong and reliable mechanism provides a safe changeover of sources, remotely.
- The MOTORISED CHANGEOVER SWITCH can be in 'O' position only by manual operation through emergency handle.
- In the SIRCOVER Type the contacts opening / making is within polyester reinforced glass body.
- For all version, the quick make and quick break feature independent of the operating speed enables the switches to close and open circuits under the most severe conditions (e.g. highly inductive loads - AC 23A duty).

General Characteristics

The ideal conception in SOCOMEH-HPL SIRCOVER Motorised Changeover Switches incorporate the following advantages:

Two stable position (I & II) and changeover from one to the other while functioning.

Positions

- O - Circuits I and II open (Neutral Position) through manual operation
- I - Circuit-I close and circuit II open (transformer supply "ON" and generator supply "OFF")
- II - Circuit I open and Circuit II close (generator supply "ON" and transformer supply "OFF")

Range

Four pole version in 415 volts

125A, 200A, 250A, 320A, 400A, 630A 800A, 1250, and 1600A



630A



800A



1250A

Function

Socomec HPL MOTORISED ONLOAD CHANGEOVER SWITCHES. 'Operate as a Changeover giving two stable position I & II and help in changeover from one supply source to another' remotely.

Design

Motorised Changeover Switches are manufactured from SIRCOVER moulded case on load switches. In case of control supply failure, Emergency Handle arrangement is provided for manual operation of switch in "OFF" position or selecting the supply. The switch frames are back to back. The whole range is motor operated.

Conformity

IS 13947 - Part 3

IEC 947-3, IEC 664

BSEN 60947-3

VDE 0680 - NBC 63408

NFEN 60947-3 NFC 12100 (Security Rules, Emergency Sources)

Contact System

Clearly apparent operation.

High thermal and dynamic strength to withstand rated fused short circuit current level 80 KA rms.

Are rated for AC-23A utilization category.

Approvals

Bureau Veritas, Lloyds Register of Shipping,

Tested at CPRI, Bhopal / Bangalore

Factory Fitted Auxiliary Contacts

The auxiliary contacts are of "CO" type, they provide position signalization or prebreak control. They are designed with 6.35mm Fast on connectors.

Installation

- Socomec HPL Changeover switches are ideal choice for installation in A.M.F. panel or for remote operation.
- Strong Padlockable in 'OFF' position.
- Connection on terminals is very easy, as they are large and accessible.

Electrical & Mechanical Characteristics

Thermal Current (Ith) 40% C	125A	200A	250A	320A	400A	630A	800A	1000A	1250A	1600A
Max. Normal rating of fuses	125	200	250	315	400	630	800	1000	1250	1250
Insulation voltage UI (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Dielectric strength (V) 50Hz 1 mm	5000	5000	5000	5000	8000	8000	8000	8000	10000	10000
Impulse voltage (kV)	6	6	8	8	12	12	12	12	12	12
Rated operational Current Ie (A)										
415V AC: AC 23A	125	200	250	320	400	630	800	1000	1000	1000
500V AC: AC 23A	100	160	200	250	315	315	630	1000	1000	1000
260 V DC : DC 21 A	125	200	250	320	400	630	800	1000	1250	1600
DC 22A	125	200	250	320	400	500	800	1000	1250	1250
DC 23A	125	160	200	250	400	500	800	1000	1250	*1250
440V DC DC 21A	125	200	250	320	400	500	630	1000	1250	1600
DC 22A	125	160	200	250	400	500	800	1000	1250	1250
DC 23A	125	160	200	250	400	500	800	1000	1000	1000
Motor Power (KW) 415V										
415V AC without pre break Aux. contact	63	80	132	160	200	220	450	560	560	560
500V AC without pre break Aux. contact	63	63	140	220	220	220	450	560	560	710
690V AC without pre break Aux. contact	55	55	90	150	150	150	185	400	400	475
415V AC with pre break Aux. contact	63	80	132	160	220	355	450	560	710	710
500V AC with pre break Aux. contact	80	80	160	220	280	355	550	710	710	900
690V AC with pre break Aux. contact	110	110	110	220	220	295	475	600	600	750
Motor Reactive 415V AC (kVAR)	55	60	100	125	150	2x125	2X150	3X150	4X125	5X150
Overload Capacity										
Short circuit current with fuses (kArms)	80	80	80	80	80	80	80	80	80	80
Fuse rating	125	200	250	315	400	630	800	1000	1250	2X800
Peak short circuit making capacity (kArms)	20	20	30	45	45	45	55	105	105	110
Admissible short time current 1 sec (kArms)	7	7	9	13	13	13	26	50	50	50
Making & Breaking Characteristics										
Breaking Capacity (Arms) 415V AC pf=0.35	1000	1600	2000	2520	3200	5040	6400	8000	8000	8000
Making Capacity (Arms) 415V AC pf=0.35	1250	2000	2500	3150	4000	6300	8000	10000	10000	10000
Endurance										
Mechanical No. of Operations	8000	8000	8000	5000	5000	5000	4000	4000	4000	3000
Electrical No. of Operations	1000	1000	1000	1000	1000	1000	500	500	500	500
Operating Force (Nm)	9.5	9.5	11	11	17	17	40	40	40	40
Connection										
Min. Cu Cable/Bus bar size (mm ²)	50	95	120	185	30x5x2	40x5x2	50x5x2	60x5x2	80x5x2	100x5x2
Min. Al Cable/Bus bar size (mm ²)	70	150	185	240	32x8x2	40x8x2	50x8x2	50x10x2	63x12x2	100x8x2

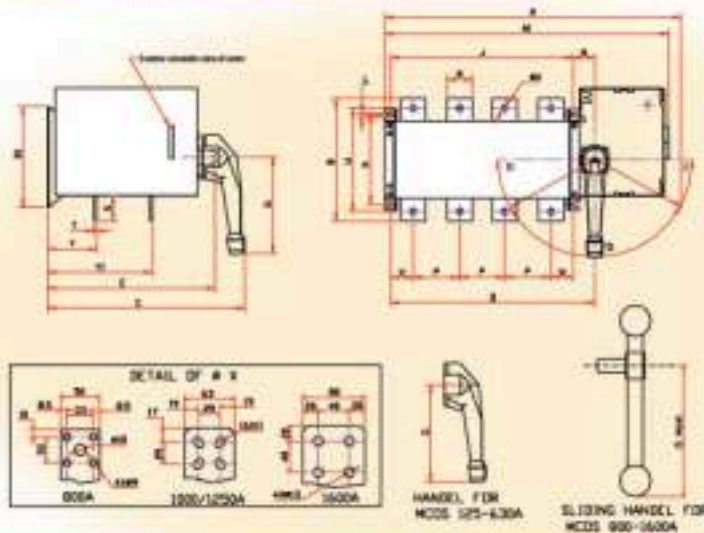
Application

The SOCOMEH HPL SIRCOVER Motorised Changeover Switches are especially designed for control and disconnection of all kinds of circuits-distribution feeders / motor loads.
By means of manual operation, motorised changeover per forms circuit switching off for maintenance with padlocking.

Reliability

The moulded body's raw material is fiberglass-reinforced polyester. It has a very high mechanical strength, self extinguishing and gives a high dielectric strength to the switches.
The choice of this raw material and the surface treatment of the current carrying part with silver plating enable use of the switches in tropical conditions (relative humidity 95%, 45j C)

MCOS 125A - 1600A Over all Dimension



Overall Dimensions							Fixing of SW.					Connection Terminals										
Rating	A	A1	B	B1	C	E	G	J	K	L	N	O	P	R	S	T	U	V	W	ØX	Y	Y1
4 X 125 A	402	320	135	115	163	220	212	151	95	7	30	181	36	20	25	3.5	115	20.5	22.5	9	80	146
4 X 200 A	402	320	145	115	263	220	212	151	95	7	30	181	36	20	30	4.0	115	20.5	22.5	11	80	146
4 x 250 A	462	380	160	130	285	233	212	211	110	7	30	241	50	25	30	3.5	130	27.5	33.5	11	80	156
4 x 320 A	462	380	160	130	285	233	212	211	110	7	30	241	50	25	30	3.5	130	27.5	33.5	11	80	157
4 x 400 A	538	455	235	200	325	270	212	271	180	9	45	316	65	32	38	5.0	205	38	38	11	80	190
4 x 630 A	538	455	260	200	325	270	212	271	180	9	45	316	65	40	50	6.0	220	38	38	13	80	190
4 x 800 A	861	580	320	250	370	333	470	340	220	11	51	391	80	50	60	6.0	268	48	52	x	107	250
4 X 1000 A	995	714	332	250	370	333	470	474	220	11	51	525	120	63	65	6.0	267	52	62	x	107	251
4 X 1250 A	995	714	332	250	370	333	470	474	220	11	51	525	120	63	65	7.0	267	52	62	x	108	252
4 x 1600 A	995	714	362	250	370	333	470	474	220	11	51	525	120	80	80	15.0	282	52	62	x	112	256

All Dimension in mm

- Ahmedabad 079-30021025
- Bangalore 080-22863068
- Chandigarh 0172-5077815
- Chennai 044-28551530
- Agra
- Allahabad
- Bareilly
- Bahadurgarh
- Bhopal
- Bhubaneswar
- Calicut
- Coimbatore
- Cochin 0484-2354595
- Guwahati 0361-2450889
- Hyderabad 040-66687878
- Indore 0731-2330595-96
- Dehradun
- Goa
- Gorkhpur
- Hubli
- Jabalpur
- Jammu
- Jodhpur
- Kolhapur
- Jaipur 0141-5106268
- Kanpur 0512-2318017
- Kolkata 033-65394379
- Lucknow 0522-4021687
- Mangalore
- Mysore
- Patiala
- Patna
- Mumbai 022-32965178
- Nagpur 0712-2558581
- Pune 020-25672928
- Raipur 0771-5541590
- Pondicherry
- Rajkot
- Salem
- Silchar
- Srinagar
- Siliguri
- Ranchi 9931762403
- Vadodara 0265-3082033
- Sonapat
- Surat
- Trichy
- Trivandrum
- Udaipur
- Vapi
- Varanasi
- Vijaywada
- Vizag