



# SIRCOVER

Manually operated transfer switching equipment  
from 63 to 3200 A

Transfer switches



SIRCOVER  
4 P 400 A



SIRCOVER  
4 P 400 A

## Function

SIRCOVER products are manually operated transfer switches with positive break indication. There are 3 ranges in the series:

- SIRCOVER for open transition switching (I-0-II) available in 3 or 4 pole,
- SIRCOVER for overlapping contact switching (I-I+II-II),

For applications where both sources are synchronised and there is to be no interruption to the load supply during transfer - available in 3 or 4 pole,

- SIRCOVER Bypass. This combination of three interlocked load break switches provides 3+6 or 4+8 poles for bypass applications.

They provide on-load transfer between two sources for any low voltage power circuit, as well as safety isolation by double breaking per pole. Other applications include source inversion (e.g. to change the direction of a motor) or grounding/earthing.

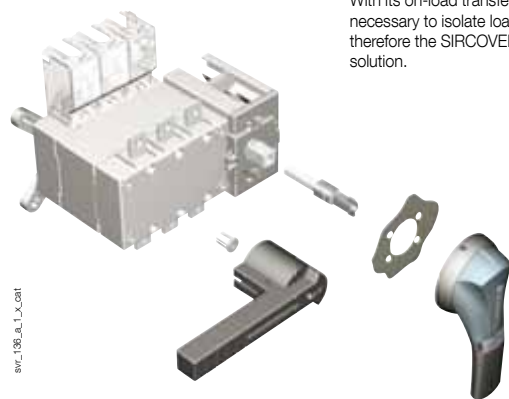
## Advantages

### A complete range

There are 3 SIRCOVER models to meet every need: The standard model I-0-II, the overlapping contact model I-I+II-II and the Bypass model.

### Easy to connect

For ratings of 2000 to 3200 A, we offer copper bar connection pieces. This gives you the option of different connection methods - flat, edgewise with top or bottom bridging.



sv\_108\_a\_1\_x-ent

### Stable positions

SIRCOVER devices have three stable positions, unaffected by voltage fluctuations and vibrations, protecting your loads from network disturbances.

### On-load and isolation switching

With its AC-23 and AC-33 characteristics, tested according to standards IEC 60947-3 and IEC 60947-6-1, the SIRCOVER enables safe on-load switching for any type of load. With its on-load transfer capabilities, it is not necessary to isolate loads prior to transfer therefore the SIRCOVER offers an economical solution.

## The solution for

- > Manufacturing
- > Power distribution



## Strong points

- > Complete range
- > Easy to connect
- > Stable positions
- > On-load and isolation switching

## Conformity to standards

- > IEC 60947-6-1
- > IS/IEC 60947-3



## Enclosed solutions

- > Adapted to harsh mechanical risk and dust hazards
- > Isolation and padlocking
- > Top and bottom extension boxes available
- > Colour: STR RAL 7035
- > Cable gland plates: top & bottom
- > Steel, thickness 1.2 to 2.0 mm
- > Coating: epoxy polyester powder
- > 4 wall mounting brackets provided
- > Door: solid with hinges
- > Metal cam lock



Characteristics according to IEC 60947-3 and IEC 60947-6-1

63 to 400 A

Thermal current I <sup>th</sup> at 40°C	63 A	100 A	CD 125 A	125 A	160 A	200 A	250 A	315 A	400 A		
Frame size	B2	B2	B2	B3	B3	B3	B4	B4	B4		
Rated insulation voltage U <sub>i</sub> (V)	800	800	800	800	800	800	1000	1000	1000		
Rated impulse withstand voltage U <sub>imp</sub> (kV)	6	6	6	8	8	8	12	12	12		
<b>Rated operational currents I<sub>e</sub> (A) according to IEC 60947-6-1</b>											
Rated voltage	Utilisation category		A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	
415 VAC	AC-31 B		63	100	125	125	160	200	250	315	400
415 VAC	AC-32 B		63	80	80				200	315	400
415 VAC	AC-33 B							200	200	200	
<b>Rated operational currents I<sub>e</sub> (A) according to IEC 60947-3</b>											
Rated voltage	Utilisation category		A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	
415 VAC	AC-21 A / AC-21 B		63/63	100/100	100/125	125/125	160/160	200/200	250/250	315/315	400/400
415 VAC	AC-22 A / AC-22 B		63/63	100/100	100/100	125/125	160/160	200/200	250/250	315/315	400/400
415 VAC	AC-23 A / AC-23 B				-/63	125/125	125/125	125/125	200/200	315/315	400/400
500 VAC	AC-21 A / AC-21 B					125/125	160/160	200/200	250/250	315/315	400/400
500 VAC	AC-22 A / AC-22 B					125/125	160/160	200/200	200/250	200/315	200/400
500 VAC	AC-23 A / AC-23 B					80/80	80/80	80/80	200/200	200/200	200/200
690 VAC <sup>(3)</sup>	AC-21 A / AC-21 B					125/125	160/160	200/200	200/200	200/200	200/200
690 VAC <sup>(3)</sup>	AC-22 A / AC-22 B					125/125	125/125	125/125	160/160	160/160	160/160
690 VAC <sup>(3)</sup>	AC-23 A / AC-23 B					63/80	63/80	63/80	125/125	125/125	125/125
220 VDC	DC-21 A / DC-21 B					125/125	160/160	200/200	250/250	250/250	250/250
220 VDC	DC-22 A / DC-22 B					125/125	160/160	200/200	250/250	250/250	250/250
220 VDC	DC-23 A / DC-23 B					125/125	125/125	125/125	200/200	200/200	200/200
440 VDC <sup>(2)</sup>	DC-21 A / DC-21 B					125/125	125/125	125/125	200/200	200/200	200/200
440 VDC <sup>(2)</sup>	DC-22 A / DC-22 B					125/125	125/125	125/125	200/200	200/200	200/200
440 VDC <sup>(2)</sup>	DC-23 A / DC-23 B					125/125	125/125	125/125	200/200	200/200	200/200
<b>Operation power in AC-23 (kW)<sup>(4)</sup></b>											
At 415 VAC without AC pre-break		-/30	-/30	-/30	58/58	75/75	100/100	100/100	145/145	190/190	
At 690 VAC without AC pre-break					50/62	50/62	50/62	90/90	90/90	90/90	
<b>Reactive power (kvar)<sup>(4)</sup></b>											
At 415 VAC (kvar)		-/30	-/30	-/30	60/60	75/75	100/100	125/125	150/150	200/200	
<b>Fuse protected short-circuit withstand as per IEC 60947-3 (kA rms prospective)</b>											
Prospective short-circuit current with gG DIN fuses at 415 VAC (kA rms)		50	25	15	100	100	50	50	50	50	
Prospective short-circuit current with gG DIN fuses at 690 VAC (kA rms)								50	50	50	
Associated fuse rating (A)		63	100	125	125	160	200	250	315	400	
<b>Short-circuit withstand without protection as per IEC 60947-3</b>											
Rated short-time withstand current 0.3s I <sub>sw</sub> at 415 VAC (kA rms)		3.5	3.5	3.5	12	12	12	15 <sup>(5)</sup>	15 <sup>(5)</sup>	15 <sup>(5)</sup>	
Rated short-time withstand current 1s I <sub>sw</sub> at 415 VAC (kA rms)		2.5	2.5	2.5	7	7	7	8 <sup>(5)</sup>	8 <sup>(5)</sup>	8 <sup>(5)</sup>	
Rated peak withstand current at 415 VAC (kA peak)		15	15	15	20	20	20	30	30	30	
<b>Short-circuit withstand without protection as per IEC 60947-6-1</b>											
Rated short-time withstand current 30 ms I <sub>sw</sub> at 415 VAC (kA rms)		5	5	-	10	10	10	10	10	10	
<b>Connection</b>											
Minimum Cu cable cross-section (mm <sup>2</sup> )		10	10	10	35	35	50	95	120	185	
Recommended Al cable cross-section (mm <sup>2</sup> )		35	50	50	70	95	150	185	240	300	
Recommended Al busbar cross-section (mm <sup>2</sup> )					20x8	20x8	25x10	25x10	40x10	40x12	
Maximum Cu cable cross-section (mm <sup>2</sup> )		50	50	50	50	95	120	150	240	240	
Maximum busbar width (mm)					25	25	25	32	32	50	
Maximum busbar width with spreaders (mm)					25	25	25	25	40	40	
Tightening torque min/max (Nm)		1.2/3	1.2/3	1.2/3	9/13	9/13	9/13	20/26	20/26	20/26	
<b>Mechanical characteristics</b>											
Durability (number of operating cycles)		25000	25000	25000	10000	10000	10000	8000	8000	5000	
Weight of a 3 pole device with no accessories (kg)					2.9	2.9	2.9	3.8	3.9	3.9	
Weight of a 4 pole device with no accessories (kg)					4.1	4.1	4.1	4.6	4.6	4.6	

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

(2) 3-pole device with 2 pole in series for the "+" an 1 pole for the "-".

4-pole device with 2 poles in series by polarity.

(3) Interphase barriers must be installed on the products.

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

(5) Values given at 690 VAC.

# SIRCOVER

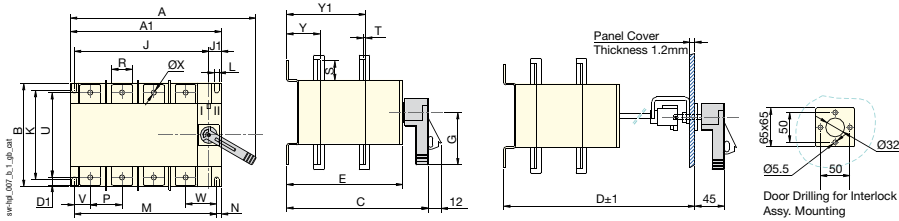
Manually operated transfer switching equipment  
from 63 to 3200 A

## Dimensions

### 63 to CD 125 A / B2

Direct front operation

External front operation

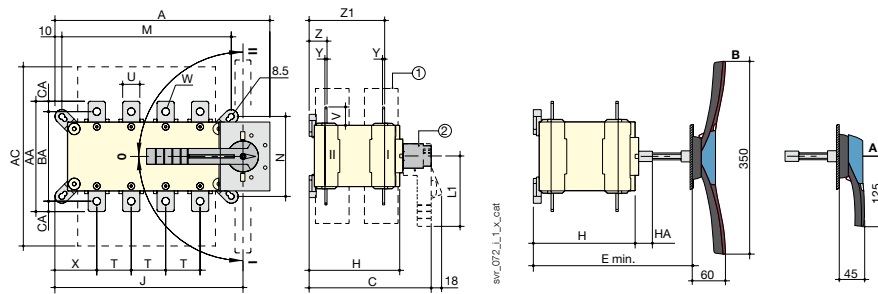


Rating (A)/ Frame size	Dimensions										Fixing of Sw.					Connection terminal							Sw. Wt. Open Ex. (kg)		
	A	A1	B	C	D	D1	E	G	J	J1	K	L	M	N	P	R	S	T	U	V	W	ØX		Y	Y1
4 x 63 ... CD 125 / B2	181	141.5	111	168.5	192	44	127	62	116	18	95	6.5	127	6.25	27	14	16	2.6	91	11	35	6.5	45	101	2

### 125 to 1600 A / B3 to B7

Direct front operation

External front operation



A. S2 type handle for external operation: 125 to 630 A  
B. S4 type handle for external operation: 800 to 1600 A

1. Terminal shrouds  
2. Direct operation handle:  
- 125 to 630 A: L1 = 140 mm,  
- 800 to 1600 A: L1 = 210 mm.

Rating (A)/ Frame size	Overall dimensions				Terminal shrouds	Switch body				Switch mounting				Connection										
	A 3p.	A 4p.	C	E min		AC	H	HA	J 3p.	J 4p.	M 3p.	M 4p.	N	T	U	V	W	X 3p.	X 4p.	Y	Z	Z1	AA	BA
125 / B3	221	255	240	230...458	230	170	25	182	212	156	186	101	36	20	25	8.5	56	50	3.5	45.5	141.4	135	115	10
160 / B3	221	255	240	230...458	230	170	25	182	212	156	186	101	36	20	25	8.5	56	50	3.5	45.5	141.4	135	115	10
200 / B3	221	255	240	230...458	230	170	25	182	212	156	186	101	36	20	25	8.5	56	50	3.5	45.5	141.4	135	115	10
250 / B4	262	316	240	230...458	348	170	25	223	273	196	246	116	50	25	30	11	61	61	3.5	46.8	141	160	130	15
315 / B4	262	316	240	230...458	348	170	25	223	273	196	246	116	50	35	35	11	61	61	3.5	46.8	141	170	140	15
400 / B4	262	316	240	230...458	348	170	25	223	273	196	246	116	50	35	35	11	61	61	3.5	46.8	141	170	140	15
500 / B5	323	383	254	244...472	464	184	25	272	332	246	306	176	65	32	37	13	70.5	65.5	5	61	134	235	205	15
630...CD 800 / B5	323	383	254	244...472	464	184	25	272	332	246	306	176	65	45	50	13	70.5	65.5	5	61	134	260	220	20
800 / B6	386	466	375	425 ... 577	459	298	29	306.5	386.5	255	336	250	80	50	60.5	15	48	48	7	66.5	253.5	321		26.5
1000 / B6	386	466	375	425 ... 577	459	298	29	306.5	386.5	255	336	250	80	50	60.5	15	48	48	7	66.5	253.5	321		26.5
1250 / B6	386	466	375	425 ... 577	459	298	29	306.5	386.5	255	336	250	80	60	65	16x11	48	48	7	66.5	255.5	330		29.5
1600/B7	478	598	375	425 ... 577	461	298	29	388.5	518.5	347	467	250	120	90	43.5	12.5x5	54	54	8	66.5	255.5	288		15