



# SIRCO M

Manually operated Transfer Switching Equipment  
from 25 to 125 A

Transfer switches

sircm\_191\_a\_1\_cat



**SIRCO M**  
I-0-II 4P 25 A

sircm\_192\_a\_1\_cat



**SIRCO M**  
I-0-II 3P 63 A

## The solution for

- > Healthcare buildings
- > Manufacturing industry



## Strong points

- > Secured breaking
- > Modular device
- > Improved on-load switching

## Conformity to standards

- > IEC 60947-3



## Function

**SIRCO M** are manually operated 3 or 4 pole modular transfer switches with positive break indication. They provide on-load transfer between two sources for any low voltage power circuit, as well as safety isolation. Other applications include source inversion (e.g. to change the direction of a motor) or grounding/earthing.

## Advantages

### Secured breaking

SIRCO M transfer switches include contact point technology and double break per pole as standard, enabling safe, optimal operation of LV electrical circuits.

### Modular device

Thanks to their modular format, SIRCO M transfer switches can be fixed to a DIN rail, a backplate or a modular panel.

### Improved on-load switching

The SIRCO M switch comprises two mechanically interlocked load break switches which are tested in accordance to standard IEC 60947-3. Its AC23 characteristics enable it to perform on-load changeover switching.

## What you need to know

- There are two types of operating handles available for the SIRCO M transfer switches:
  - **direct front** handle
  - **external front** handle
- The SIRCO M changeover switch is available in **3 and 4 pole, from 25 to 125 A**, with pre-break or signalisation auxiliary contacts (accessories).



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## References

Rating (A) / Frame size	No. of poles	Switch body	Direct handle	External handle with 1 position padlocking	External handle with 3 position padlocking	Shaft extension for external front handle	Auxiliary contact	Terminal shrouds	Bridging kit						
25 A/M1	3 P	2230 <b>3002</b>	Blue 2239 <b>5012</b> Red 2239 <b>5013</b>	S000 type I - 0 - II Black IP65 1463 <b>5113</b> <sup>(1)</sup>	S01 type I - 0 - II Black IP65 1403 <b>2813</b>	S00, S000 type 150 mm 1407 <b>0515</b>	M type 1 contact NO + NC 2299 <b>0001</b>	1 P 2294 <b>1005</b> <sup>(2)</sup> 3 P 2294 <b>3005</b> <sup>(2)</sup>	3 P 2299 <b>3005</b> 4 P 2299 <b>4005</b>						
	4 P	2230 <b>4002</b>				200 mm 1407 <b>0520</b>									
40 A/M1	3 P	2230 <b>3004</b>				S00 type I - 0 - II Black IP65 1473 <b>1113</b> <sup>(1)</sup>				S01 type I - 0 - II Black IP65 1403 <b>2113</b> <sup>(1)</sup>	320 mm 1407 <b>0532</b>	1 contact 2 NC 2299 <b>0011</b>	1 P 2294 <b>1009</b> <sup>(2)</sup> 3 P 2294 <b>3009</b> <sup>(2)</sup>	3 P 2299 <b>3009</b> 4 P 2299 <b>4009</b>	
	4 P	2230 <b>4004</b>									S01 type 200 mm 1404 <b>0520</b>				
63 A/M2	3 P	2230 <b>3006</b>				S00 type I - 0 - II Black IP65 1403 <b>2113</b> <sup>(1)</sup>				S01 type I - 0 - II Black IP65 1403 <b>2113</b> <sup>(1)</sup>	320 mm 1404 <b>0532</b>	1 contact 2 NC 2299 <b>0011</b>	1 P 2294 <b>1009</b> <sup>(2)</sup> 3 P 2294 <b>3009</b> <sup>(2)</sup>	3 P 2299 <b>3009</b> 4 P 2299 <b>4009</b>	
	4 P	2230 <b>4006</b>									S01 type 200 mm 1404 <b>0520</b>				
80 A/M2	3 P	2230 <b>3008</b>				S00 type I - 0 - II Black IP65 1473 <b>1113</b> <sup>(1)</sup>				S01 type I - 0 - II Black IP65 1403 <b>2113</b> <sup>(1)</sup>	320 mm 1404 <b>0532</b>	1 contact 2 NC 2299 <b>0011</b>	1 P 2294 <b>1011</b> <sup>(2)</sup> 3 P 2294 <b>3016</b> <sup>(2)</sup>	3 P 2299 <b>3009</b> 4 P 2299 <b>4009</b>	
	4 P	2230 <b>4008</b>									S01 type 200 mm 1404 <b>0520</b>				
100 A/M3	3 P	2230 <b>3010</b>				Blue 2239 <b>5022</b> Red 2239 <b>5023</b>				S00 type I - 0 - II Black IP65 1473 <b>0113</b>	S01 type I - 0 - II Black IP65 1403 <b>2113</b> <sup>(1)</sup>	S00 type 150 mm 1409 <b>0615</b>	1 contact 2 NC 2299 <b>0011</b>	1 P 2294 <b>1011</b> <sup>(2)</sup> 3 P 2294 <b>3016</b> <sup>(2)</sup>	3 P 2299 <b>3009</b> 4 P 2299 <b>4009</b>
	4 P	2230 <b>4010</b>										200 mm 1409 <b>0620</b>			
125 A/M3	3 P	2230 <b>3011</b>	Blue 2239 <b>5022</b> Red 2239 <b>5023</b>	S00 type I - 0 - II Black IP65 1473 <b>0113</b>	S01 type I - 0 - II Black IP65 1403 <b>2113</b> <sup>(1)</sup>	320 mm 1409 <b>0632</b>	1 contact 2 NC 2299 <b>0011</b>	1 P 2294 <b>1011</b> <sup>(2)</sup> 3 P 2294 <b>3016</b> <sup>(2)</sup>	3 P 2299 <b>3009</b> 4 P 2299 <b>4009</b>						
	4 P	2230 <b>4011</b>				S01 type 200 mm 1409 <b>0632</b>									

(1) Defeatable handle.

(2) 3 pole: for upstream and downstream protection, order quantity 2 x 3 pole shrouds. For a 4 pole device, order quantity 2 x 3 pole + 2 x 1 pole shrouds.

## Accessories

See "SIRCO M switches" page 26.

## Characteristics according to IEC 60947-3

Thermal current $I_{th}$ (40 °C)	25 A	40 A	63 A	80 A	100 A	125 A
<b>Frame size</b>	<b>M1</b>	<b>M1</b>	<b>M2</b>	<b>M2</b>	<b>M3</b>	<b>M3</b>
Rated insulation voltage U <sub>i</sub> (V)	800	800	800	800	800	800
Rated impulse withstand voltage U <sub>imp</sub> (kV)	8	8	8	8	8	8
<b>Rated operational currents I<sub>e</sub> (A)</b>						
<b>Rated voltage</b>	<b>Utilisation category</b>	<b>A/B</b> <sup>(1)</sup>	<b>A/B</b> <sup>(1)</sup>	<b>A/B</b> <sup>(1)</sup>	<b>A/B</b> <sup>(1)</sup>	<b>A/B</b> <sup>(1)</sup>
415 VAC	AC-20 A / AC-20 B	25/25	40/40	63/63	80/80	100/100
415 VAC	AC-21 A / AC-21 B	25/25	40/40	63/63	80/80	100/100
415 VAC	AC-22 A / AC-22 B	25/25	40/40	63/63	80/80	100/100
415 VAC	AC-23 A / AC-23 B	25/25	40/40	63/63	80/80	100/100
<b>Operational power in AC-23 (kW)</b>						
At 400 VAC without pre-break in AC-23 (kW) <sup>(2)</sup>	11.3	18	28.4	35.5	45	56.3
<b>Fuse protected short-circuit withstand (kA rms prospective)</b>						
Prospective short-circuit (kA rms) <sup>(3)</sup>	50	50	50	50	50	25
Associated fuse rating (A) <sup>(3)</sup>	25	40	63	80	100	125
<b>Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s<sup>(4)</sup></b>						
Rated short-time withstand current 0.3s I <sub>sc</sub> (kA rms)	2.3	2.3	2.74	2.74	5	5
<b>Short-circuit capacity (without protection)</b>						
Rated short-time withstand current 1s I <sub>sc</sub> (kA rms)	1.26	1.26	1.5	1.5	2.75	2.75
Rated short-circuit making capacity I <sub>cm</sub> (kA peak)	1.8	1.8	2.1	2.1	3.9	3.9
<b>Connection</b>						
Minimum Cu cable cross-section (mm <sup>2</sup> )	1.5	1.5	2.5	2.5	10	10
Maximum Cu cable cross-section (mm <sup>2</sup> )	16	16	35	35	70	70
Tightening torque min / max (Nm)	2 / 2.2	2 / 2.2	3.5 / 3.85	3.5 / 3.85	4 / 4.4	4 / 4.4
<b>Mechanical characteristics</b>						
Durability (number of operating cycles)	10000	10000	10000	10000	10000	8000
Weight of a 3 pole device (kg)	0.41	0.41	0.58	0.58	1.1	1.1
Weight of a 4 pole device (kg)	0.51	0.51	0.75	0.75	1.46	1.46

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

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

(3) For a rated operational voltage U<sub>e</sub> = 400 VAC.

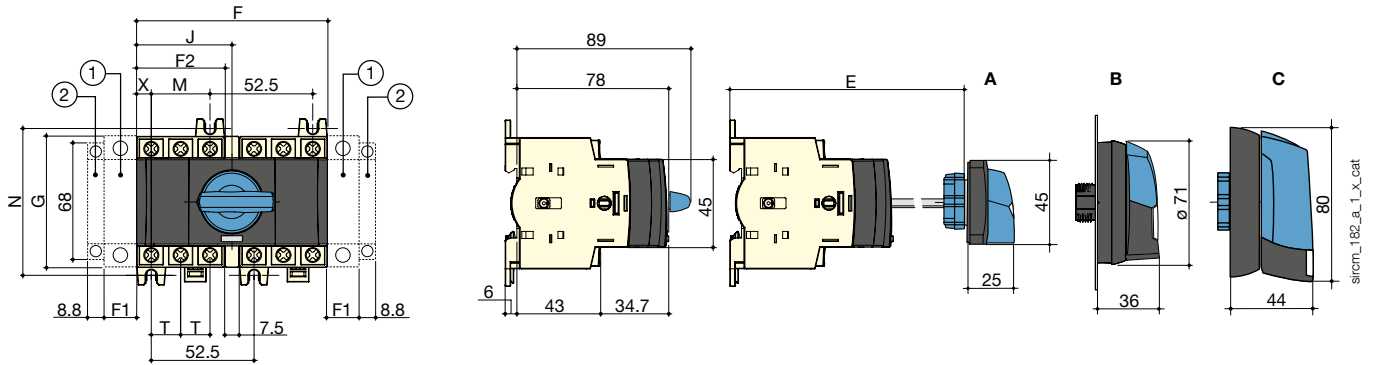
(4) Value for coordination with any circuit breaker that ensures tripping in less than 0.3s. For coordination with specific circuit-breaker references, higher short-circuit current values are available. Please consult us.

### Dimensions

#### 25 to 80 A / M1 to M2

Direct front operation for 3/4 pole changeover switches

External front operation for 3/4 pole changeover switches



1. Location for: 1 main pole or 1 auxiliary contact (See accessories page 34).  
2. Position for 1 auxiliary contact module only.

A. S000 handle  
B. S00 handle  
C. S01 handle

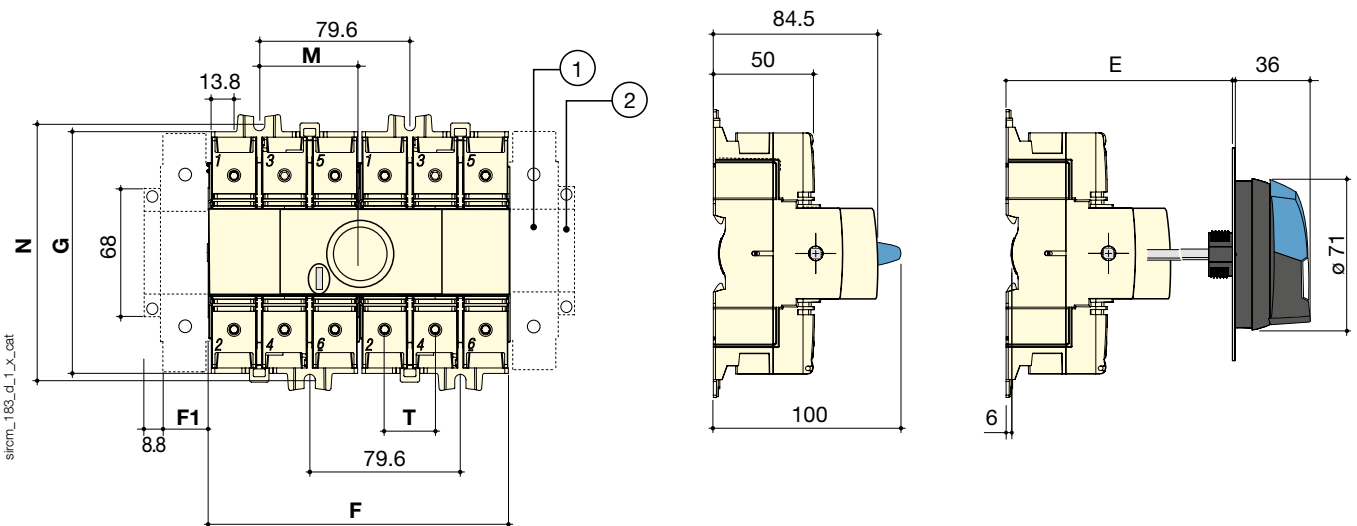
**Note:** Maximum of 4 additional blocks (3 pole changeover can be fitted with either one main pole and one A/C block, or two A/C blocks per side; 4 pole changeover can be fitted with only one A/C block per side).

Rating (A)	Frame size	Overall dimensions		Switch body					Switch mounting		Connection	
		E min	E max	F	F1	F2	G	J	M	N	T	X
25 ... 40	M1	105	372	97.5	15	45	68	48.75	30	75	15	7.5
63 ... 80	M2	105	372	105	17.5	52.5	76	52.5	35	85	17.5	8.75

#### 100 to 125 A / M3

Direct front operation for 3/4 pole changeover switches

External front operation for 3/4 pole changeover switches



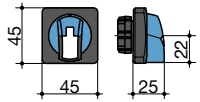
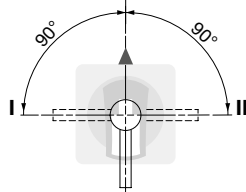
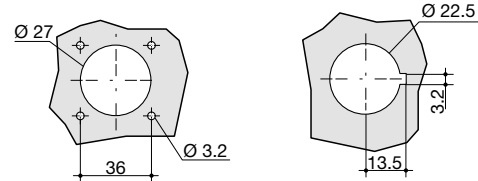
1. Location for: 1 main pole or 1 auxiliary contact (See accessories page 34).  
2. Position for 1 auxiliary contact module only.

**Note:** Maximum of 4 additional blocks (3 pole changeover can be fitted with either one main pole and one A/C block, or two A/C blocks per side; 4 pole changeover can be fitted with only one A/C block per side).

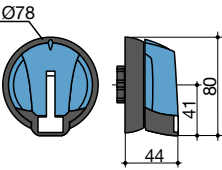
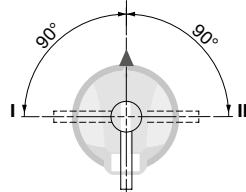
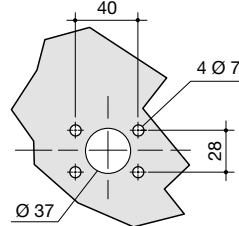
Rating (A)	Frame size	Overall dimensions		Switch body			Switch mounting		Connection
		E min	E max	F	F1	G	M	N	T
100 ... 125	M3	105	372	159	26	124.5	52.8	131.5	26

Dimensions for external handles

25 to 80 A / M1 to M2

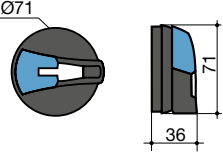
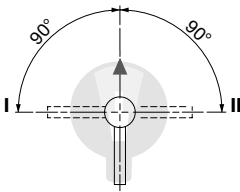
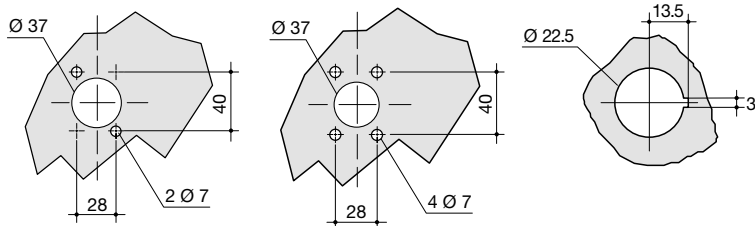
Handle type	Front operation Direction of operation	Door drilling
<p><b>S000 type</b> Transfer switches I-0-II and I - I+II - II</p> 	<p>0 or I+II</p> 	<p>With 4 fixing screws      With fixing nut</p> 

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Handle type	Front operation Direction of operation	Door drilling
<p><b>S01 type</b> Transfer switches I-0-II and I - I+II - II</p> 	<p>0 or I+II</p> 	<p>IP65 with 4 fixing screws</p> 

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25 to 125 A / M1 to M3

Handle type	Front operation Direction of operation	Door drilling
<p><b>S00 type</b> Transfer switches I-0-II and I - I+II - II</p> 	<p>0 or I+II</p> 	<p>IP55 with 2 fixing clips      IP65 with 4 fixing screws      With fixing nut</p> 

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