

SIRCO M

Manual changeover switches
from 25 to 125 A



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SIRCO M
I-0-II 3 P 63 A



sircm_191_a_1_cat

SIRCO M
I-0-II 4 P 25 A

The solution for

> Healthcare buildings.
> Manufacturing industry.



Strong points

> Secured breaking.
> Modular device.
> On load switching.

Conformity to standards

> IEC 60947-3

Function

SIRCO M are manually operated three or four pole modular switches with positive break indication. They provide changeover, source inversion or switching under load between two low voltage power circuits, as well as their safety isolation.

Advantages

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

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

On load switching
The SIRCO M changeover switch comprises two mechanically interlocked load break switches which are tested in accordance with 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 handle available for the SIRCO M changeover:
  - **direct front** operation
  - **door interlocked external front** operation
- 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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socomec Innovative Power Solutions

References

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

(1) Defeatable handle.

(2) 2 pieces: For upstream or downstream protection on one side of the changeover switch.

Accessories

See "SIRCO M switches", page 31.

Characteristics according to IEC 60947-3

Thermal current I_{th} (40 °C)		**25 A**	**40 A**	**63 A**	**80 A**	**100 A**	**125 A**
Rated insulation voltage U_i (V)		800	800	800	800	800	800
Rated impulse withstand voltage U_{imp} (kV)		8	8	8	8	8	8
Rated operational currents I_e (A)							
Rated voltage	**Utilisation category**	**A/B**(1)	**A/B**(1)	**A/B**(1)	**A/B**(1)	**A/B**(1)	**A/B**(1)
415 VAC	AC-20 A / AC-20 B	25/25	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-21 A / AC-21 B	25/25	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-22 A / AC-22 B	25/25	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-23 A / AC-23 B	25/25	40/40	63/63	80/80	100/100	125/125
Operational power in AC-23 (kW)							
At 400 VAC without pre-break in AC-23 (kW)(2)		11.3	18	28.4	35.5	45	56.3
Fuse protected short-circuit withstand (kA rms prospective)							
Prospective short-circuit (kA rms)(3)		50	50	50	50	50	25
Associated fuse rating (A)(3)		25	40	63	80	100	125
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s(4)							
Rated short-time withstand current 0.3s Icw (kA rms)		2.3	2.3	2.74	2.74	5	5
Short-circuit capacity (without protection)							
Rated short-time withstand current 1s. I_{cw} (kA rms)		1.26	1.26	1.5	1.5	2.75	2.75
Rated short-circuit making capacity I_{cm} (kA peak)		1.8	1.8	2.1	2.1	3.9	3.9
Connection							
Minimum Cu cable cross-section (mm^2)		1.5	1.5	2.5	2.5	10	10
Maximum Cu cable cross-section (mm^2)		16	16	35	35	70	70
Tightening torque mini / maxi (Nm)		2 / 2.2	2 / 2.2	3.5 / 3.85	3.5 / 3.85	4 / 4.4	4 / 4.4
Mechanical characteristics							
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.

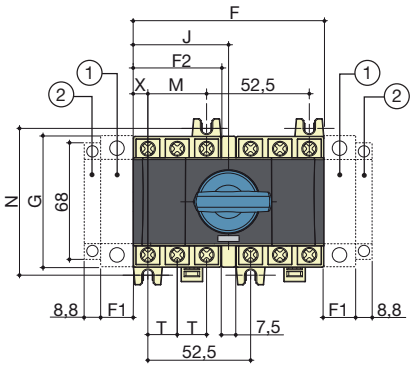
(3) For a rated operational voltage U_e = 400 VAC.

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

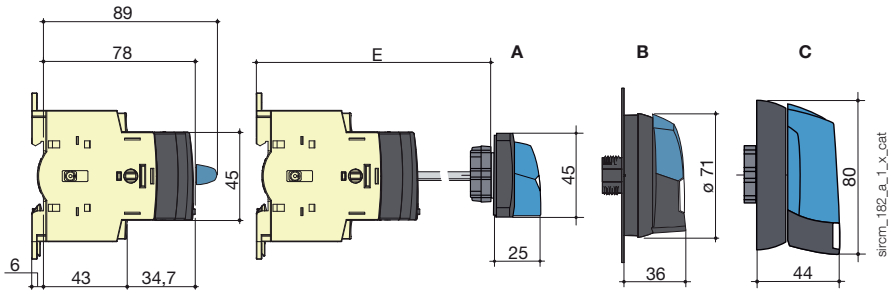
Dimensions

25 to 80 A

Direct front operation for 3/4 pole changeover switches



External front operation for 3/4 pole changeover switches



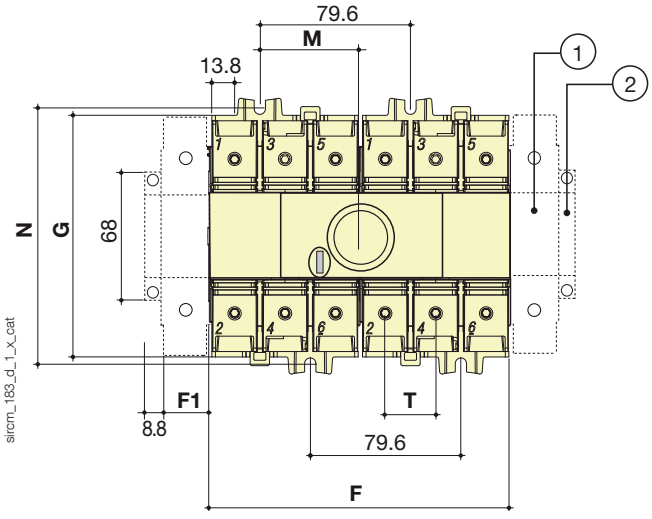
1. Location for: 1 main pole **or** *1 auxiliary contact (See accessories page 34).*
2. Position for 1 auxiliary contact only (for 3 pole changeover the 2nd auxiliary contact is for signalisation only).
Note: Maximum 4 additional blocks (3 pole changeover can be fitted with either one main pole and one A/C block, or two A/C blocks per side; 4 pole changeover can be fitted with only one A/C block per side).

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

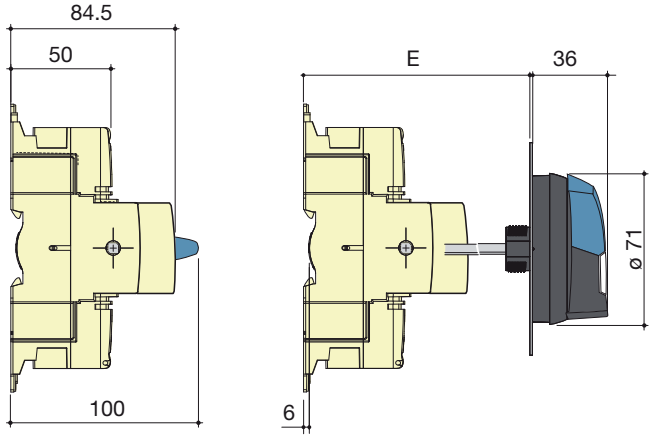
	Overall dimensions		Switch body					Switch mounting		Connection	
Rating (A)	E min	E max	F	F1	F2	G	J	M	N	T	X
25 … 40	105	372	97.5	15	45	68	48.75	30	75	15	7.5
63 … 80	105	372	105	17.5	52.5	76	52.5	35	85	17.5	8.75

100 to 125 A

Direct front operation for 3/4 pole changeover switches



External front operation for 3/4 pole changeover switches



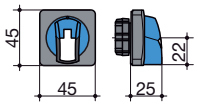
1. Location for: 1 main pole **or** *1 auxiliary contact (See accessories page 34).*
2. Position for 1 auxiliary contact only (this contact is for signalisation only).
Note: Maximum 4 additional blocks (3 pole changeover can be fitted with either one main pole and one A/C block, or two A/C blocks per side; 4 pole changeover can be fitted with only one A/C block per side).

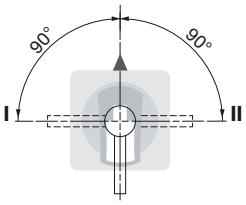
	Overall dimensions		Switch body			Switch mounting		Connection
Rating (A)	E min	E max	F	F1	G	M	N	T
100 … 125	105	372	159	26	124.5	52.8	131.5	26

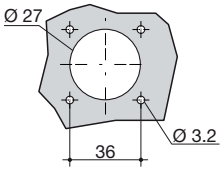
Dimensions for external handles

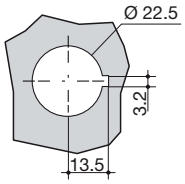
25 to 80 A

Handle type	Front operation Direction of operation	Door drilling
S000 type Changeover switches I-0-II and I - I+II - II	**0** or **I+II**	With 4 fixing screws With fixing nut



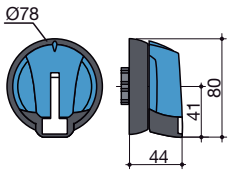


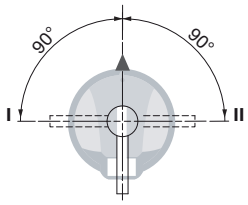


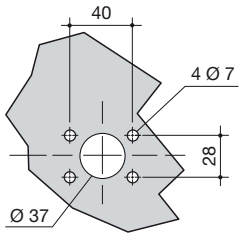


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Handle type	Front operation Direction of operation	Door drilling
S01 type Changeover switches I-0-II and I - I+II - II	**0** or **I+II**	IP65 with 4 fixing screws



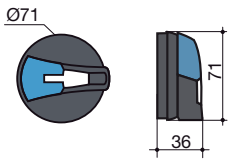


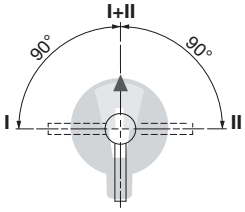


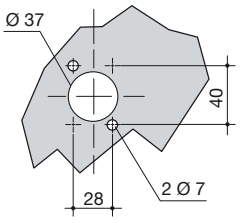
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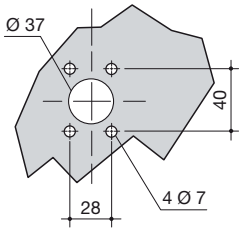
25 to 125 A

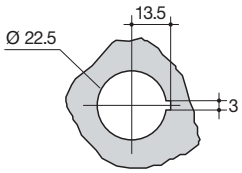
Handle type	Front operation Direction of operation	Door drilling
S00 type Changeover switches I-0-II and I - I+II - II	**0** or **I+II**	IP55 with 2 fixing clips IP65 with 4 fixing screws With fixing nut











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