

SIRCO M

Manually operated Transfer Switching Equipment
from 25 to 125 A



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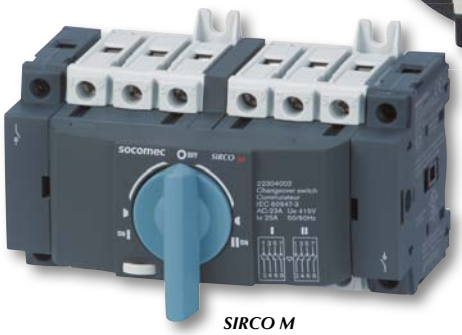
SIRCO M
I-0-II 3P 63 A



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SIRCO M
I-0-II 4P 25 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 **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 1 contact NO + NC 2299 **0001** 1 contact 2 NC 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/M1	3 P	2230 **3004**							
	4 P	2230 **4004**							
63 A/M2	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/M2	3 P	2230 **3008**							
	4 P	2230 **4008**							
100 A/M3	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/M3	3 P	2230 **3011**							
	4 P	2230 **4011**							

(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

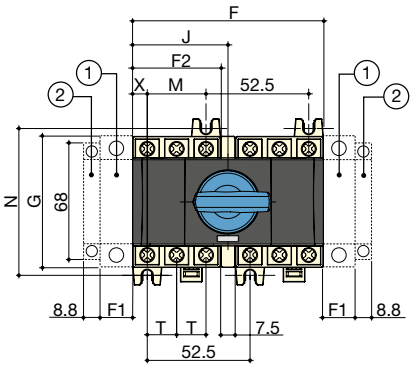
Thermal current I_{th} (40 °C)		**25 A**	**40 A**	**63 A**	**80 A**	**100 A**	**125 A**
Frame size		**M1**	**M1**	**M2**	**M2**	**M3**	**M3**
Rated insulation voltage U_i (V)		800	800	800	800	800	800
Rated impulse withstand voltage U_{imp} (kV)		8	8	8	8	8	8
Rated operational currents I_e (A)							
Rated 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 I_{cw} (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 min / max (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 circuit-breaker references, higher short-circuit current values are available. Please consult us.

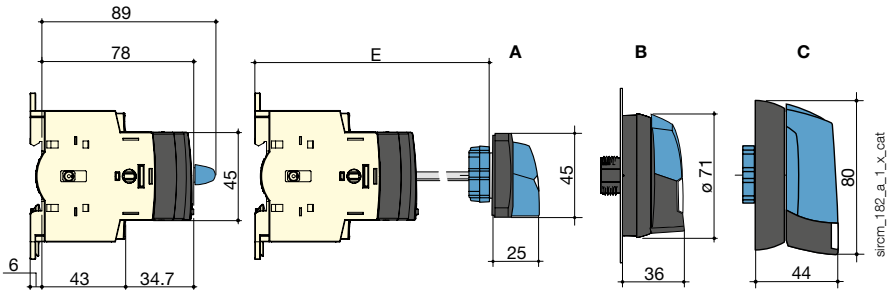
Dimensions

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



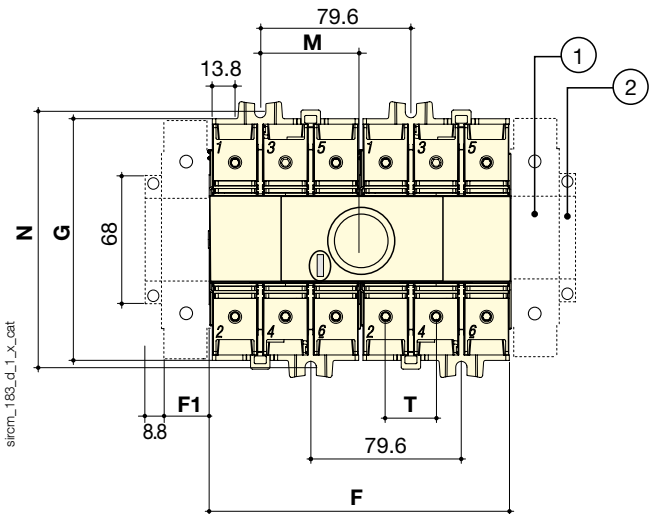
1. Location for: 1 main pole **or** *1 auxiliary contact (See accessories page 34).*
2. Position for 1 auxiliary contact module only.
Note: Maximum of 4 additional blocks (3 pole changeover can be fitted with either one main pole and one A/C block, or two A/C blocks per side; 4 pole changeover can be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

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

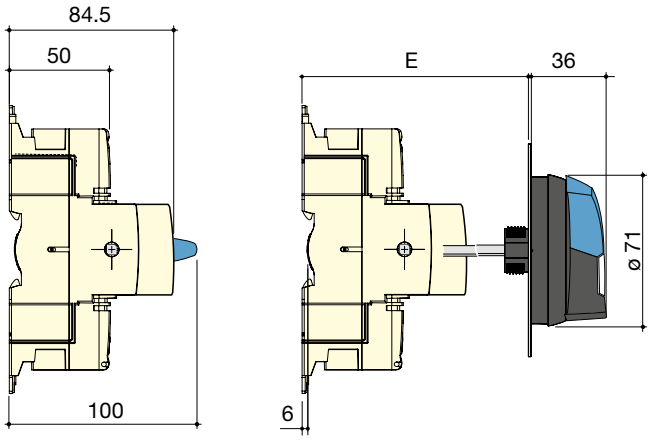
Rating (A)	Frame size	Overall dimensions		Switch body					Switch mounting		Connection	
		E min	E max	F	F1	F2	G	J	M	N	T	X
25 … 40	M1	105	372	97.5	15	45	68	48.75	30	75	15	7.5
63 … 80	M2	105	372	105	17.5	52.5	76	52.5	35	85	17.5	8.75

100 to 125 A / M3

Direct front operation for 3/4 pole changeover switches



External front operation for 3/4 pole changeover switches



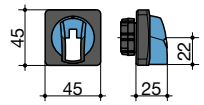
1. Location for: 1 main pole **or** *1 auxiliary contact (See accessories page 34).*
2. Position for 1 auxiliary contact module only.
Note: Maximum of 4 additional blocks (3 pole changeover can be fitted with either one main pole and one A/C block, or two A/C blocks per side; 4 pole changeover can be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

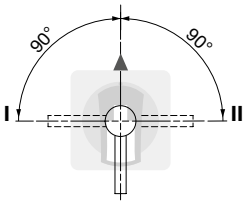
Rating (A)	Frame size	Overall dimensions		Switch body			Switch mounting		Connection
		E min	E max	F	F1	G	M	N	T
100 … 125	M3	105	372	159	26	124.5	52.8	131.5	26

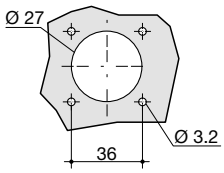
Dimensions for external handles

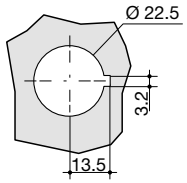
25 to 80 A / M1 to M2

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









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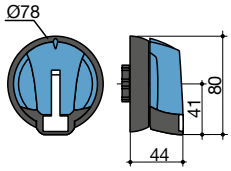
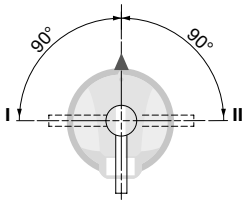
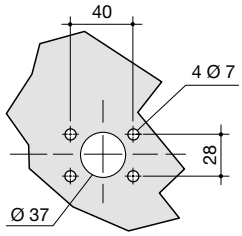
Handle type	Front operation Direction of operation	Door drilling
S01 type Transfer switches I-0-II and I - I+II - II	**0** or **I+II**	IP65 with 4 fixing screws







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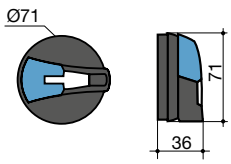
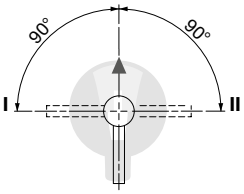
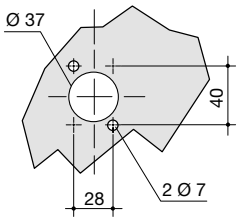
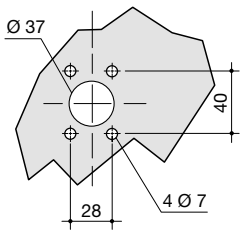
25 to 125 A / M1 to M3

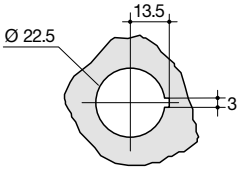
Handle type	Front operation Direction of operation	Door drilling
S00 type Transfer switches I-0-II and I - I+II - II	**0** or **I+II**	IP55 with 2 fixing clips IP65 with 4 fixing screws With fixing nut











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