

References

SIRCO M

SIRCO M - from 16 to 125 A									
Rating (A) / Frame size	No. of poles	Complete switch body toggle operation	Switch body	Direct handle	Door interlocked external front and right side handle ⁽⁸⁾	External left side handle ⁽⁸⁾	Front external handle for changeover switches ⁽⁸⁾	Shaft for external front and side handle ⁽⁸⁾	4 th pole
16 A / M1	3 P	2205 3000	2200 3000 ⁽¹⁾⁽²⁾⁽³⁾	M00 type Blue 2299 5012 Red 2299 5013	S00 type I - O Black IP55 1471 1111 ⁽⁴⁾ Black IP65 1473 1111 ⁽⁴⁾ Red/Yellow IP65 1474 1111 ⁽⁴⁾	S00 type I - O Black IP65 147A 5111 Red/Yellow IP65 147B 5111	S00 type I - O - II Black IP65 1473 1113 ⁽⁴⁾ I - I+II - II Black IP65 1473 1114 ⁽⁴⁾	S0, S00 type 150 mm 1407 0515 200 mm 1407 0520 320 mm 1407 0532	2200 1000
20 A / M1	3 P	2205 3001	2200 3001 ⁽¹⁾⁽²⁾⁽³⁾						2200 1001
25 A / M1	3 P	2205 3002	2200 3002 ⁽¹⁾⁽²⁾⁽³⁾						2200 1002
32 A / M1	3 P	2205 3003	2200 3003 ⁽¹⁾⁽²⁾⁽³⁾						2200 1003
40 A / M1	3 P	2205 3004	2200 3004 ⁽¹⁾⁽²⁾⁽³⁾						2200 1004
63 A / M2	3 P	2205 3006	2200 3006 ⁽¹⁾⁽²⁾⁽³⁾						2200 1006
80 A / M2	3 P	2205 3008	2200 3008 ⁽¹⁾⁽²⁾⁽³⁾	M01 type Blue 2299 5032	S0 type I - O Black IP55 1481 1111 ⁽⁴⁾ Black IP65 1483 1111 ⁽⁴⁾ Red/Yellow IP65 1484 1111 ⁽⁴⁾	S0 type I - O Black IP65 148A 5111 Red/Yellow IP65 148B 5111	S00 type I - O - II Black IP65 1473 0113 I - I+II - II Black IP65 1473 0114		2200 1008
100 A / M3	3 P		2200 3010 ⁽¹⁾⁽²⁾⁽³⁾						2200 1010
125 A / M3	3 P		2200 3011 ⁽¹⁾⁽²⁾⁽³⁾						2200 1011

(1) Front and side operation.

(2) For a 6-pole device in direct operation, order 2 x 3 pole device + conversion kit (for external operation, add the shaft + the handle).

(3) For an 8-pole device in direct operation, order 2 x 3 pole device + 2 x 4th poles + conversion kit (for external operation, add the shaft + the handle).

(4) Defeatable handle.

(5) Top and bottom.

(6) Delivered with a direct handle.

(7) Delivered with a shaft.

(8) Other handles are available. Please see accessory pages.

Accessories

Direct operation handle

For SIRCO M

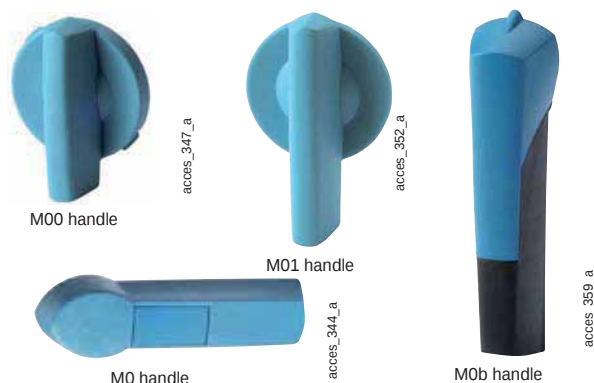
Rating (A) / Frame size	Handle colour	Handle	Reference
16 ... 80 / M1 ... M2	Blue	M00 type	2299 5012 ⁽¹⁾
16 ... 80 / M1 ... M2	Red	M00 type	2299 5013
100 ... 125 / M3	Blue	M01 type	2299 5032 ⁽¹⁾

(1) Standard.

For SIRCO MV

Rating (A)	Handle colour	Handle	Reference
100 ... 160	Blue	M0b type	2299 5042 ⁽¹⁾
100 ... 160	Blue	M0 type	2299 5022

(1) Standard.



External handle operation - SIRCO M

S000 type handle

Rating (A) / Frame size	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
16 ... 80 / M1... M2	Switch	3/4 P	Front and side operation	Black	IP65	no	1463 5111
	Switch	3/4 P	Front and side operation	Red/Yellow	IP65	no	1464 5111
16 ... 80 / M1... M2	Changeover switches I - 0 - II	3/4 P	Front	Black	IP65	no	1463 5113
	Changeover switches I - I+II - II	3/4 P	Front	Black	IP65	no	1463 5114



S000 handle

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S00 type handle

Rating (A) / Frame size	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
16 ... 80 / M1... M2	Switch	3/4 P ⁽¹⁾	Front and side operation	Black	IP55	yes	1471 1111
	Switch	3/4 P ⁽¹⁾	Front and side operation	Black	IP65	yes	1473 1111
	Switch	3/4 P ⁽¹⁾	Front and side operation	Red/Yellow	IP65	yes	1474 1111
	Switch	3/4 P	Left side	Black	IP65	no	147A 5111
	Switch	3/4 P	Left side	Red/Yellow	IP65	no	147B 5111
100 ... 125 / M3	Switch	6/8 P	Front	Black	IP55	yes	1471 0111
	Switch	6/8 P	Front	Black	IP65	yes	1473 0111
	Switch	6/8 P	Front	Red/Yellow	IP65	yes	1474 0111
16 ... 80 / M1... M2	Changeover switches I - 0 - II	3/4 P	Front	Black	IP65	yes	1473 1113
	Changeover switches I - I+II - II	3/4 P	Front	Black	IP65	yes	1473 1114
100 ... 125 / M3	Changeover switches I - 0 - II	3/4 P	Front	Black	IP65	yes	1473 0113
	Changeover switches I - I+II - II	3/4 P	Front	Black	IP65	yes	1473 0114



S00 handle

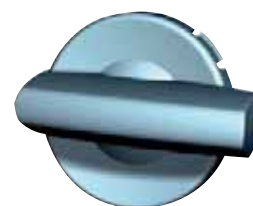
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(1) Can also be used with 6 and 8 poles with front operation.

Accessories

Direct operation handle

Rating (A)	Handle color	Handle type	Reference
16 ... 80	Blue	M00	2299 5012



M00 handle

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External operation handle

Use

The handle locking function prevents the user from opening the door of the enclosure when the switch is in the "ON" position (only if the handle is fitted on the door).

Opening the door when the switch is in the "ON" position is possible by defeating the interlocking function with the use of a tool (authorised persons only). The interlocking function is restored when the door is closed. The handle is padlockable with 3 padlocks.



S00 handle

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S0 handle

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S01 handle

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Front and right side handles I - O

Rating (A)	Handle color	Handle type	Nema / UL type	Standard Reference	Heavy duty Reference
16 ... 80	Black	S00	3R, 12	1473 1111	
16 ... 80	Red / Yellow	S00	3R, 12	1474 1111	
16 ... 80	Black	S00	4, 4X	147D 1111	
16 ... 80	Red / Yellow	S00	4, 4X	147E 1111	
16 ... 80	Black	S0	1, 3R, 12	1483 1111	
16 ... 80	Red / Yellow	S0	1, 3R, 12	1484 1111	
16 ... 80	Black	S0	4, 4X	148D 1111	
16 ... 80	Red / Yellow	S0	4, 4X	148E 1111	
16 ... 80	Black	S01	3R, 12	140F 2111	
16 ... 80	Red / Yellow	S01	3R, 12	140G 2111	
16 ... 80	Black	S01	4, 4X	140D 2111	140D 2911
16 ... 80	Red / Yellow	S01	4, 4X	140E 2111	140E 2911

(1) Not UL.

Front handle for transfer switches I - O - II

Rating (A)	Handle color	Handle type	Nema / UL type	Reference
16 ... 80	Black	S00	IP65	1473 1113⁽¹⁾

Front handle for transfer switches I - I+II - II

Rating (A)	Handle color	Handle type	Nema / UL type	Reference
16 ... 80	Black	S00	IP65	1473 1114⁽¹⁾

Shafts for external handle

Use

Standard lengths:

- 150 mm,
- 200 mm,
- 320 mm.

Other lengths: please consult us.

For 3/4 pole switches, shaft extensions for external front and side handle.

For 6/8 pole switches and SIRCOVER M transfer switches.



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For 3/4 pole

Rating (A)	Handle type	Length		Reference
		(in)	(mm)	
16 ... 80	S00	5.9	150	1407 0515
16 ... 80	S00	7.9	200	1407 0520
16 ... 80	S00	12.6	320	1407 0532
16 ... 80	S01	7.9	200	1404 0520
16 ... 80	S01	12.6	320	1404 0532
16 ... 80	S01	15.7	400	1404 0540

For 6/8 pole

Rating (A)	Handle type	Length		Reference
		(in)	(mm)	
16 ... 80	S00	5.9	150	1407 0515
16 ... 80	S00	7.9	200	1407 0520
16 ... 80	S00	12.6	320	1407 0532

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 - O - II Black IP65 1463 5113⁽¹⁾	S01 type I - O - II Black IP65 1403 2813	S00, S000 type 150 mm 1407 0515	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				200 mm 1407 0520			
40 A/M1	3 P	2230 3004				320 mm 1407 0532		1 P 2294 1009⁽²⁾ 3 P 2294 3009⁽²⁾	3 P 2299 3009 4 P 2299 4009
	4 P	2230 4004				S01 type 200 mm 1404 0520			
63 A/M2	3 P	2230 3006				320 mm 1404 0532			
	4 P	2230 4006				S00 type 150 mm 1409 0615			
80 A/M2	3 P	2230 3008				200 mm 1409 0620		1 P 2294 1011⁽²⁾ 3 P 2294 3016⁽²⁾	
	4 P	2230 4008				320 mm 1409 0632			
100 A/M3	3 P	2230 3010	Blue 2239 5022 Red 2239 5023	S00 type I - O - II Black IP65 1473 0113					
	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_m (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
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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
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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.