



SIRCO M UL98

Load break switches standards UL and CSA
30 to 100 A

Load break
switches



sircm_100_a_1_cat

Rotary switch
SIRCO M 3 x 100 A

Function

SIRCO M non fusible disconnect switches are compact switches that break and make power circuits on and off load and provide safety isolation.

These switches are extremely durable and are tested and approved for use in the most demanding applications.

General characteristics

- Positive break indication.
- Touch safe.
- DIN rail or back plate-mounted.
- Direct or external operation handle.

Specific characteristics

- Contact point technology.

The solution for

- > Power distribution.



Strong points

- > Total integration.
- > Wide range of accessories.
- > Upgradeability.
- > Compliance to major certifications and approvals.
- > Specific characteristics.

Conformity to standards⁽¹⁾

- > IEC 60947-3
- > UL98,
Guide WHTY,
file E201138
- > CSA 22.2#4,
Class 4651-02,
file 112964



⁽¹⁾ Product reference on request.

References

UL98 Non Fusible Disconnect switches

Rating (A)	No. of poles	Switch body	Direct handle	External front and right side handles	Shafts for external front and side handles	Switched fourth pole module	Unswitched neutral pole	Earth module	Auxiliary contacts	Terminal shrouds				
30 A	3 P	2201 3003	Blue 2299 5032	S00 type I - 0 Black 4, 4X 147D 1111	150 mm 5.9 in 1407 0515 200 mm 7.9 in 1407 0520 320 mm 12.6 in 1407 0532 ⁽¹⁾	1 P 2201 1003			M type 1 AC NO + NC 2299 0001	1 P 2294 1011 ⁽³⁾				
60 A	3 P	2201 3006		Red/Yellow 4, 4X 147E 1111		1 P 2201 1006					1 P 2200 5011 ⁽²⁾	1 P 2200 9011 ⁽²⁾	M type 1 AC 2 NC 2299 0011	3 P 2294 3016 ⁽³⁾
100 A	3 P	2200 3010		S0 type I - 0 Black 4, 4X 148D 1111 Red/Yellow 4, 4X 148E 1111		1 P 2200 1010								

(1) Shaft guide reference 14190000, is required for shaft length over 15.7 inches (400 mm).

(2) Not UL.

(3) Top and bottom.

SIRCO M UL98

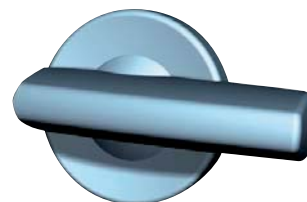
Load break switches standards UL and CSA

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Accessories

Direct operation handle

Rating (A)	Colour	Handle	Reference
30 ... 100	Blue	M01 type	2299 5032



M01 handle

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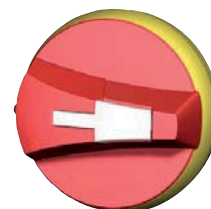
External operation handle

Use

The handle interlocking 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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Front and right side handles I - 0

Rating (A)	Handle colour	Handle	Nema type	Reference
16 ... 80	Black	S00 type	3R, 12	1473 1111
16 ... 80	Red/Yellow	S00 type	3R, 12	1474 1111
16 ... 80	Black	S00 type	4, 4X	147D 1111
16 ... 80	Red/Yellow	S00 type	4, 4X	147E 1111
16 ... 80	Black	S0 type	1, 3R, 12	1483 1111
16 ... 80	Red/Yellow	S0 type	1, 3R, 12	1484 1111
16 ... 80	Black	S0 type	4, 4X	148D 1111
16 ... 80	Red/Yellow	S0 type	4, 4X	148E 1111



S0 handle

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Shafts for external handle

Use

Standard lengths:

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

Other lengths: please consult us.

Rating (A)	Length (inches)	Length (mm)	Reference
30 ... 100	5.9 in	150 mm	1407 0515
30 ... 100	7.9 in	200 mm	1407 0520
30 ... 100	12.6 in	320 mm	1407 0532



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Shaft guide for external handle

Use

This accessory makes shaft introduction easier with up to 15 mm misalignment.

Required for a shaft length from 320 mm.

Handle type	Reference
S0	1419 0000



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Additional pole for SIRCO M

4th pole

Rating (A)	No. of poles	Type	Reference
30	1 P	switched	2201 1003
60	1 P	switched	2201 1006
100	1 P	switched	2200 1010

Use

Adding one or two additional poles transforms a load break switch from 3 poles to 4 poles.



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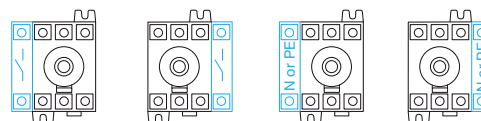
Solid neutral pole

Rating (A)	No. of poles	Type	Reference
30 ... 100	1 P	unswitched	2200 5011 ⁽¹⁾

(1) Not UL.

Use

Transforms the 3-pole switch into a 3-pole + solid neutral.



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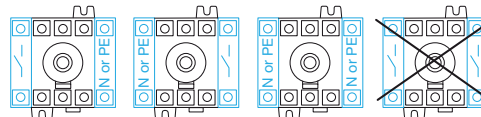
Earth module

Rating (A)	No. of poles	Type	Reference
30 ... 100	1 P	unswitched	2200 9011 ⁽¹⁾

(1) Not UL.

Use

Adds 1 earth module pole to the switch-disconnector.



Terminal shrouds

Use

Top and bottom additional protection against direct contact with the terminals or connection parts. 1 or 3 pole are available.

Perforation on each terminal cover enables remote thermographic inspection without dismantling.

Rating (A)	No. of poles	Position	Reference
30 ... 100	1 P	top and bottom	2294 1011
30 ... 100	3 P	top and bottom	2294 3016



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M type auxiliary contacts

Use

Pre-break and signalisation of positions 0 and I by NO+NC or 2 NO auxiliary contacts.

They can be mounted on the left or on the right side of the switch.

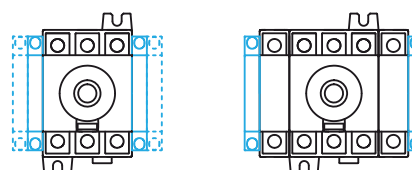
Max 4 auxiliary contacts (2 modules).

Characteristics
A300.

Rating (A)	Nb de CA	AC type	Reference
30 ... 100	1 AC	NO + NC	2299 0001
30 ... 100	1 AC	2 NC	2299 0011



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Auxiliary contacts configurations for SIRCO M

SIRCO M UL98

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Characteristics

Characteristics according to UL98/CSA22.2#4

General use rating	SIRCO M UL98 - 30 to 100 A		
	30 A	60 A	100 A
Short-circuit rating at 480 VAC (kA)	100	100	100
Short circuit rating at 600 VAC (kA)	100	100	25
Type of fuse	J	J	J
Max fuse rating (A)	30	60	100
Max. motor hp / FLA 3 ph motor max.			
220-240 VAC	10 / 28	20 / 54	20 / 54
440-480 VAC	20 / 27	40 / 52	50 / 65
600 VAC	25 / 27	50 / 52	50 / 52
Max. motor hp / FLA 1 ph motor max.			
120 VAC	2 / 24	3 / 34	5 / 56
240 VAC	5 / 28	10 / 50	10 / 50
Connection terminals			
Solid - 1 wire	#12 - #10	#12 - #10	#12 - #10
Stranded - 1 wire	#12 - 2/0	#12 - 2/0	#12 - 2/0
Mechanical characteristics			
Endurance (number of operating cycles)	10000	10000	10000
Operating torque (lbs.in/Nm)	12.4/1.4	12.4/1.4	12.4/1.4
Auxiliary contacts			
Electrical characteristics	A300	A300	A300

Characteristics according to IEC 60647-3

Thermal current I_{th} at 40°C (A)	SIRCO M UL98 - 30 to 100 A			
	30 A	60 A	100 A	
Rated insulation voltage U_i (V)	800	800	800	
Rated impulse withstand voltage U_{imp} (kV)	8	8	8	
Rated operational currents I_e (A)				
Rated voltage	Utilisation category	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾
400 VAC	AC-22 A	32	63	100
400 VAC	AC-23 A	32	63	100
690 VAC	AC-22 A	32	63	80
690 VAC	AC-23 A	32	63	63
Operational power in AC-23 (kW)				
At 400 VAC without prebreak AC in AC23 (kW) ⁽²⁾⁽³⁾		15	30	45
At 500VAC without prebreak AC in AC23 (kW) ⁽²⁾⁽³⁾		15	30	45
At 690VAC without prebreak AC in AC23 (kW) ⁽²⁾⁽³⁾		18.5	30	45
Overload capacity (U_e 415 VAC)				
Rated short-circuit making capacity I_{cm} (kA peak) ⁽⁴⁾		12	12	12
Connection				
Min. connection section/ (mm ²)		2.5	2.5	10
Max. connection section/ (mm ²)		70	70	70

(1) Category with index A = frequent operation.

(2) A/B: Category with index A = frequent operation - Category with index B = infrequent operation.

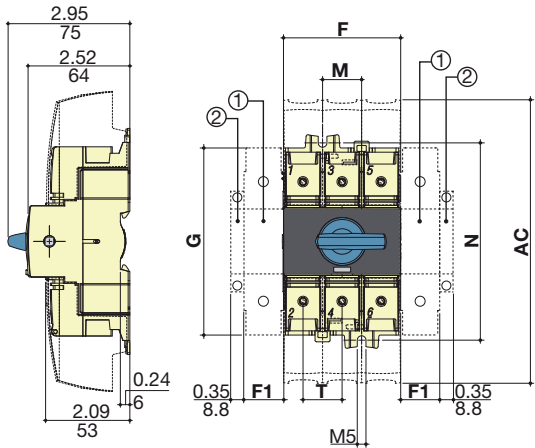
(3) The power value is given for information only, the current values vary from one manufacturer to another.

(4) For a rated operating voltage $U_e = 400$ VAC.

Dimensions (in / mm)

30 to 100 A

Direct handle

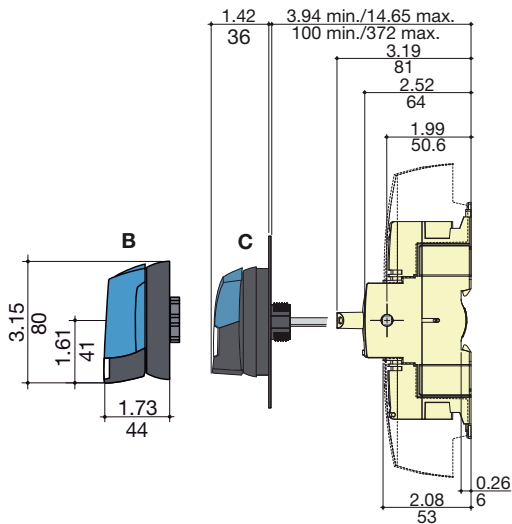


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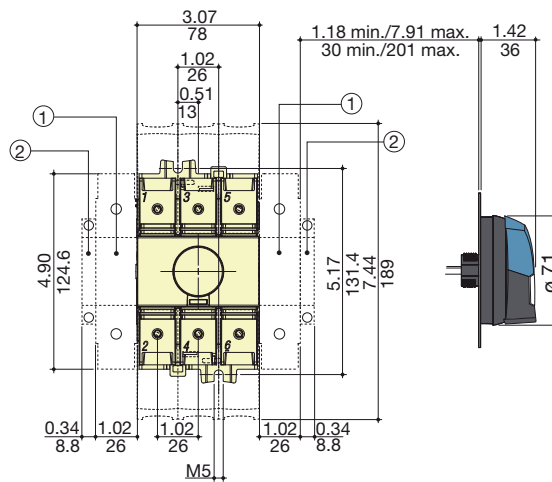
1. Position for 1 switched fourth pole module (1 per device max.) or 1 unswitched neutral pole or 1 earth module or 1 auxiliary contact.
2. Position for 1 auxiliary contact only.

Note: Maximum of 4 additional blocks.

External front handle



External side handle



sircm-ul_003_a_1_gb_cat

1. Position for 1 switched fourth pole module (1 per device max.) or 1 unswitched neutral pole or 1 earth module or 1 auxiliary contact.
2. Position for 1 auxiliary contact only.

Note: Maximum of 4 additional blocks.

External handles dimensions (in / mm)

30 to 100 A

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling	
S00 type			With 4 fixing screws	With fixing nut

poign_048_b_1_gb_cat