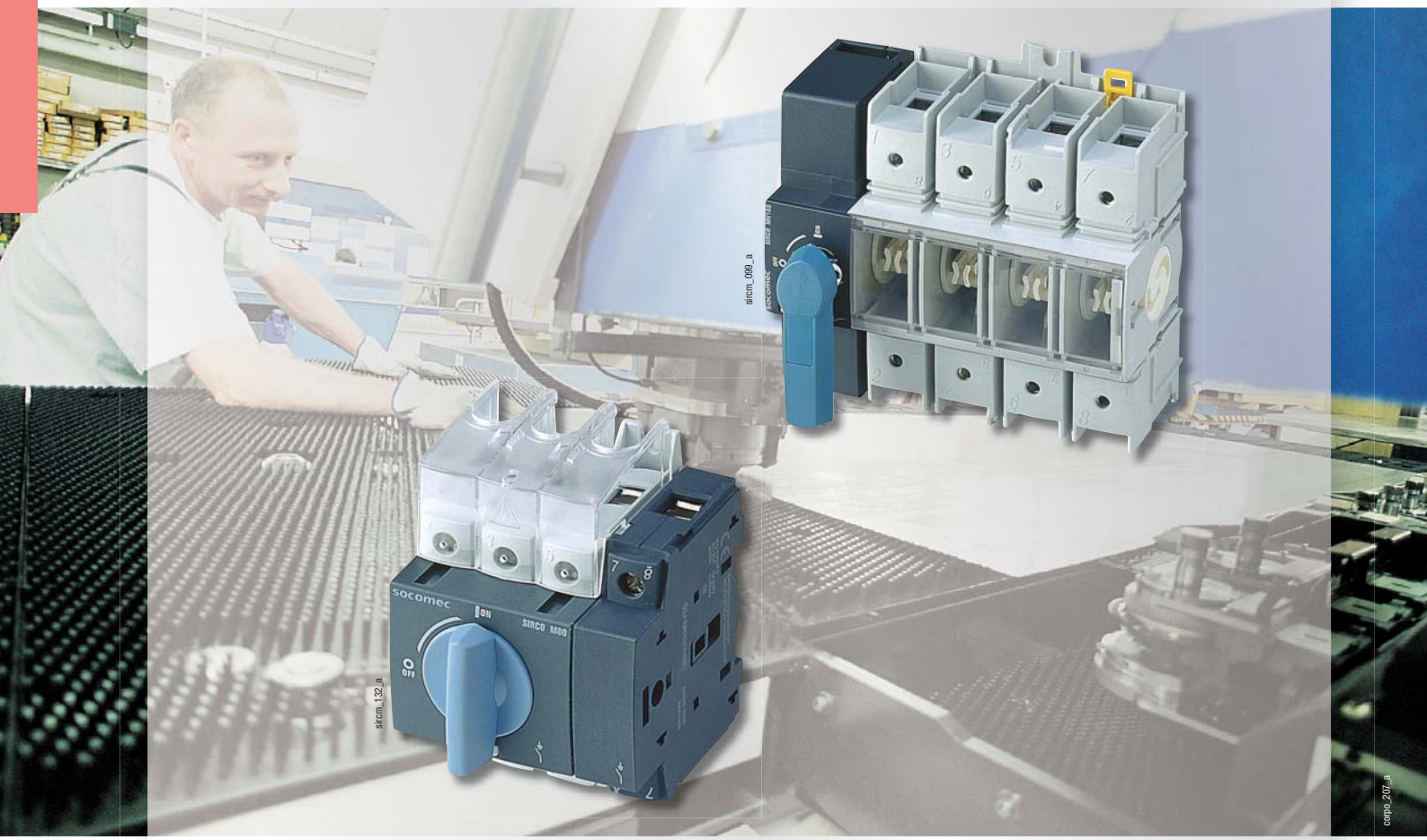


Load break switches from 16 to 160 A

➲ Function

SIRCO M and **MV** are manually operated modulable and modular multipolar load break switches.
They make and break under load conditions and provide safety isolation for any low voltage circuit, particularly for machine control circuits.

➲ Specific characteristics

SIRCO M
- Fully visualised breaking.
- Contact point technology.
- For panel mounting device, use the "Door mounting kit" (see accessories).

SIRCO MV
- Visible double breaking based on contact carriers equipped with sliding contacts (type SIRCO, see page 38).
- Fully visualised breaking.

➲ General characteristics

- Double break per phase.
- DIN rail mounting, panel or modular panel with 45 mm front cut out.
- IP20 devices and accessories.
- Severe load duty categories (AC-22 and AC-23).

➲ Conformity to standards

- IEC 60947-3
- EN 60947-3
- IS13947-3
- Standard UL: see SIRCO M UL

➲ Approvals and certifications(1)

- KEMA
- RINA (Registre Naval Italien)

(1) Product reference on request.

➲ Other products

- The changeover switches are composed of two 3 poles SIRCO M switches and conversion kit.
- They ensure switching, transfer of sources or transfer of two low voltage circuits on load as well as their safety disconnection.



What you need to know

SIRCO M

- SIRCO M can be operated in different ways:


sircm_028_a_2_x_cat

Complete switch body
toggle operation


sircm_029_c_2_x_cat

Direct operation with
handle


sircm_030_a_1_x_cat

External operation
front, left side or right side

- The SIRCO M is a 3 pole device available from 16 to 125 A, complete with an unswitched neutral or PE pole and type M auxiliary pre-break and signalling contacts.
  The basic 3 pole device is available enclosed in a polyester enclosure from 16 to 100 A (see page 492).

- From 16 to 80 A, it is possible to mount the device on a door and transform a 3 pole switch into a 6 or 8 pole switch or a 3 or 4 pole changeover switch, by adding a conversion kit and a switched 4th pole.


coff_337_a_1_cat

Compact enclosure: see page 492

SIRCO MV

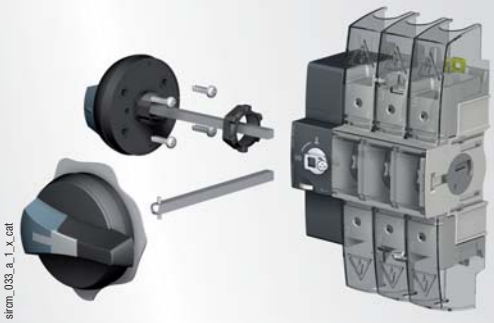
- 3 operations are available:


sircm_032_c_1_x_cat

Direct operation


sircm_034_a_2_x_cat

External right side operation

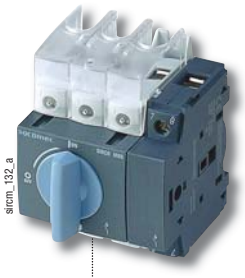

sircm_033_a_1_x_cat

External front and left side operation

- SIRCO MV can be ordered in 3 or 4 pole from 100 to 160 A.
  Two types of auxiliary contacts are available:
  - U type pre-break,
  - M type signalisation.

➲ SIRCO M and MV - References





SIRCO M

Rating (A)	No. of poles	Complete switch body toggle operation	Switch body	Direct handle	External front and right side handle	External left side handle	External front handle for changeover switches	Shaft extensions for external front and side handle	4e pole
16 A	3 P	2205 **3000**	2200 **3000**(1)(2)(3)	Blue 2299 **5012** Red 2299 **5013**	S00 type I - 0 Black IP55 1471 **1111**(4) Black IP65 1473 **1111**(4) Red/Yellow IP65 1474 **1111**(4)	S00 type I - 0 Black IP65 147A **5111** Red/Yellow IP65 147B **5111**	S00 type I - 0 - II Black IP65 1473 **1113**(4) I - I+II - II Black IP65 1473 **1114**(4)	150 mm 1407 **0515** 200 mm 1407 **0520** 320 mm 1407 **0532**	1 P 2200 **1000**
20 A	3 P	2205 **3001**	2200 **3001**(1)(2)(3)						1 P 2200 **1001**
25 A	3 P	2205 **3002**	2200 **3002**(1)(2)(3)						1 P 2200 **1002**
32 A	3 P	2205 **3003**	2200 **3003**(1)(2)(3)						1 P 2200 **1003**
40 A	3 P	2205 **3004**	2200 **3004**(1)(2)(3)						1 P 2200 **1004**
63 A	3 P	2205 **3006**	2200 **3006**(1)(2)(3)						1 P 2200 **1006**
80 A	3 P	2205 **3008**	2200 **3008**(1)(2)(3)						1 P 2200 **1008**
100 A	3 P		2200 **3010**(2)	Blue 2299 **5032**	S0 type I - 0 Black IP55 1481 **1111**(4) Black IP65 1483 **1111**(4) Red/Yellow IP65 1484 **1111**(4)	S0 type I - 0 Black IP65 148A **5111** Red/Yellow IP65 148B **5111**			1 P 2200 **1010**
125 A	3 P		2200 **3011**(2)						1 P 2200 **1011**

Rating (A)	No. of poles	Complete switch body toggle operation	Switch body	Unswitched neutral pole	Unswitched protective earth module	Auxiliary contacts	Terminal shrouds	Conversion kit	Door mounting kit
16 A	3 P	2205 **3000**	2200 **3000**(1)(2)(3)	1 P 2200 **5005**	1 P 2200 **9005**	M type 1 contact NO + NC 2299 **0001** 1 contact 2 NC 2299 **0011**	1 P 2294 **1005**(5) 3 P 2294 **3005**(5)	Switch 6 / 8 P 2269 **6009**(6) Changeover switches I - 0 - II 2209 **6009**(6) Changeover switches I - I+II - II 2299 **6009**(6)	3/4 P Complete protection IP2X 2299 **3309**(7)(8) Overall dimensions reduce 2299 **3409**(7)(8)
20 A	3 P	2205 **3001**	2200 **3001**(1)(2)(3)						
25 A	3 P	2205 **3002**	2200 **3002**(1)(2)(3)						
32 A	3 P	2205 **3003**	2200 **3003**(1)(2)(3)						
40 A	3 P	2205 **3004**	2200 **3004**(1)(2)(3)						
63 A	3 P	2205 **3006**	2200 **3006**(1)(2)(3)	1 P 2200 **5009**	1 P 2200 **9009**		1 P 2294 **1009**(5) 3 P 2294 **3009**(5)		
80 A	3 P	2205 **3008**	2200 **3008**(1)(2)(3)						
100 A	3 P		2200 **3010**(2)	1 P 2200 **5011**	1 P 2200 **9011**		1 P 2294 **1011**(5) 3 P 2294 **3016**(5)		
125 A	3 P		2200 **3011**(2)						

(1) For 8 pole device in direct operation, order 2 x 3 pole device + 2 main poles + conversion kit (for external operation, add the shaft + the handle).
(2) Front and side operation.
(3) For 6-pole device in direct operation, order 2 x 3-pole device + conversion kit (for external operation, add the shaft + the handle).
(4) Defeatable handle.
(5) Top and bottom.
(6) Delivered with a direct handle.
(7) Available for SIRCO M only.
(8) Delivered with a shaft.


sircm_099_a

SIRCO MV

Rating (A)	No. of poles	Switch body	Direct handle	External front handle	External right side handle	External left side handle	Shaft extensions for external front and side	Auxiliary signal contact	Auxiliary contacts for pre-break	Terminal shrouds	Voltage sensing and power supply kit
100 A	3 P	2200 **3110**	Blue 2299 **5042**(1) Blue 2299 **5022**	S0 type I - 0 Black IP55 1491 **0111**(2) Black IP65 1493 **0111**(2) I - 0 Red/Yellow IP65 1494 **0111**(2) S1 type 0 I - 0 Black IP55 1411 **2111**(2) Red/Yellow IP65 1414 **2111**(2)	S0 type I - 0 Black IP55 1491 **0111**(2) Red/Yellow IP65 1494 **0111**(2) S1 type I - 0 Black IP55 1415 **2111** Red/Yellow IP65 1418 **2111**	S0 type I - 0 Black IP65 149A **9111** Red/Yellow IP65 149B **9111** S1 type I - 0 Black IP65 141A **2111** Red/Yellow IP65 141B **2111**	S0 type 150 mm 1409 **0615** 200 mm 1409 **0620** 320 mm 1409 **0632** S1 type 200 mm 1401 **0620** 320 mm 1401 **0632** 400 mm 1401 **0640**	M type 1 contact NO + NC 2299 **0001** 1 contact 2 NC 2299 **0011**	U type NC contact 3999 **0701** 1 contact NO 3999 **0702**	3 P 2294 **3016**(3) 4 P 2294 **4016**(3)	2 pieces 1399 **4006**
	4 P	2200 **4110**									
125 A	3 P	2200 **3012**									
	4 P	2200 **4012**									
160 A	3 P	2200 **3016**									
	4 P	2200 **4016**									

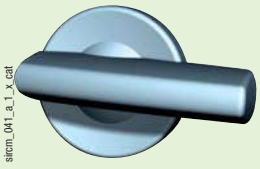
(1) Standard.
(2) Defeatable handle.
(3) Top and bottom.

➲ Accessories

Direct operation handle


sircm_071_b_1_x_cat

M00 handle


sircm_041_a_1_x_cat

M01 handle


sircm_042_b_1_x_cat

M0 handle


acces_268_a

M0b handle

For SIRCO M

Rating (A)	Handle colour	Handle	Reference
16 … 80	Blue	M00 type	2299 **5012**
16 … 80	Red	M00 type	2299 **5013**
100 ... 125	Blue	M01 type	2299 **5032**

For SIRCO MV

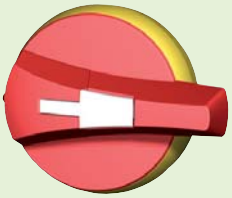
Rating (A)	Handle colour	Handle	Reference
100 ... 160	Blue	M0B type	2299 **5042**(1)
100 ... 160	Blue	M0 type	2299 **5022**

(1) Standard.

External handle operation - SIRCO M


acces_278_a_2_cat

S00 handle


acces_263_a_2_cat

S0 handle

Front and right side operation I - 0

Rating (A)	Handle colour	Handle	External IP	Reference
16 … 80	Black	S00 type	IP55	1471 **1111**
16 … 80	Black	S00 type	IP65	1473 **1111**
16 … 80	Red/Yellow	S00 type	IP65	1474 **1111**
100 … 125	Black	S0 type	IP55	1481 **1111**(1)
100 ... 125	Black	S0 type	IP65	1483 **1111**(1)
100 ... 125	Red/Yellow	S0 type	IP65	1484 **1111**(1)

(1) Defeatable handle.

Left side operation I - 0

Rating (A)	Handle colour	Handle	External IP	Reference
16 ... 80	Black	S00 type	IP65	147A **5111**
16 ... 80	Red/Yellow	S00 type	IP65	147B **5111**
100 ... 125	Black	S0 type	IP65	148A **5111**
100 ... 125	Red/Yellow	S0 type	IP65	148B **5111**

Front operation for changeover switches I - 0 - II

Rating (A)	Handle colour	Handle	External IP	Reference
16 … 80	Black	S00 type	IP65	1473 **1113**

Front operation for changeover switches I - I+II - II

Rating (A)	Handle colour	Handle	External IP	Reference
16 … 80	Black	S00 type	IP65	1473 **1114**

External handle operation - SIRCO MV


acces_279_a_2_cat

S0 handle


acces_284_a_2_cat

S1 handle

S0 type handle - Front and right side operation I - 0

Rating (A)	Handle colour	External IP	Reference
100 ... 160	Black	IP55	1491 **0111**(1)
100 ... 160	Black	IP65	1493 **0111**(1)
100 ... 160	Red/Yellow	IP65	1494 **0111**(1)

(1) Defeatable handle.

S0 type handle - Left side operation I - 0

Rating (A)	Handle colour	External IP	Reference
100 ... 160	Black	IP65	149A **9111**(1)
100 ... 160	Red/Yellow	IP65	149B **9111**(1)

(1) Defeatable handle.

S1 type handle - Front operation I - 0

Rating (A)	Handle colour	External IP	Reference
100 ... 160	Black	IP55	1411 **2111**(1)
100 ... 160	Black	IP65	1413 **2111**(1)
100 ... 160	Red/Yellow	IP65	1414 **2111**(1)

(1) Defeatable handle.

S1 type handle - Right side operation I - 0

Rating (A)	Handle colour	External IP	Reference
100 ... 160	Black	IP55	1415 **2111**
100 ... 160	Black	IP65	1417 **2111**
100 ... 160	Red/Yellow	IP65	1418 **2111**

S1 type handle - Left side operation I - 0

Rating (A)	Handle colour	External IP	Reference
100 ... 160	Black	IP65	141A **2111**
100 ... 160	Red/Yellow	IP65	141B **2111**

Shaft for external handle


sircm_045_a_2_x_cat

Use
Standard lengths:
- 150 mm,
- 200 mm,
- 320 mm.

Other lengths: consult us.

For 3/4 pole switches, shaft extensions for external front and side handle.
For 6/8 pole switches and SIRCOVER M changeover switches, shaft extensions for front operation only.

For SIRCO M

Rating (A)	Handle	Shaft length (mm)	Reference
16 ... 125	S00 type	150 mm	1407 **0515**
16 ... 125	S00 type	200 mm	1407 **0520**
16 ... 125	S00 type	320 mm	1407 **0532**

For SIRCO MV

Rating (A)	Handle	Shaft length (mm)	Reference
100 ... 160	S0 type	150 mm	1409 **0615**
100 ... 160	S0 type	200 mm	1409 **0620**
100 ... 160	S0 type	320 mm	1409 **0632**
100 ... 160	S1 type	200 mm	1401 **0620**
100 ... 160	S1 type	320 mm	1401 **0632**
100 ... 160	S1 type	400 mm	1401 **0640**

Shaft guide for external operation

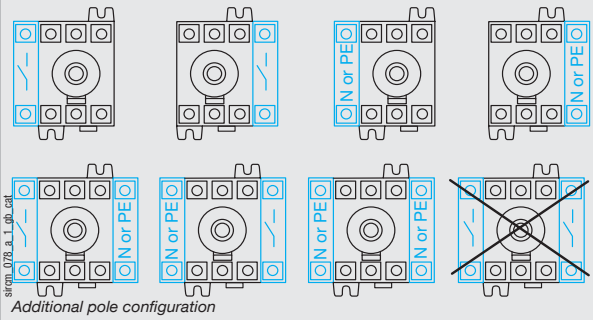

acces_260_a_2_cat

Use
To guide the extension shaft into the external handle.
This accessory enables handle to engage extension shaft with a misalignment of up to 15 mm.
Required for a shaft length over 320 mm.

Description	Handle type	Reference
Shaft guide	S00 and S0	1419 **0000**
Shaft guide	S1	1429 **0000**

Additional pole for SIRCO M


sircm_072_b_1_x_cat



sircm_078_a_1_gb_cat

Additional pole configuration

4e pole

Use
Adds one or two poles and transforms:
- 3 pole load break switches into a 4 pole,
- 6 pole load break switches into a 8 pole,
- 3 pole changeover switches into a 4 pole.

Rating (A)	No. of poles	Type	Reference
16	1 P	switched	2200 **1000**
20	1 P	switched	2200 **1001**
25	1 P	switched	2200 **1002**
32	1 P	switched	2200 **1003**
40	1 P	switched	2200 **1004**
63	1 P	switched	2200 **1006**
80	1 P	switched	2200 **1008**
100	1 P	switched	2200 **1010**
125	1 P	switched	2200 **1011**

Neutral pole

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

Rating (A)	No. of poles	Type	Reference
16 … 40	1 P	unswitched	2200 **5005**
63 … 80	1 P	unswitched	2200 **5009**
100 ... 125	1 P	unswitched	2200 **5011**

Protective earth module

Use
Adds 1 protective earth module pole to the switch-disconnector.

Rating (A)	No. of poles	Type	Reference
16 … 40	1 P	unswitched	2200 **9005**
63 … 80	1 P	unswitched	2200 **9009**
100 ... 125	1 P	unswitched	2200 **9011**

Terminal shrouds


sircm_049_a_1_cat

Use

Top and bottom protection against direct contact with the terminals or connection parts.
Available in 1 or 3 pole versions for SIRCO M and 3 or 4 pole for SIRCO MV.
An opening on each terminal cover makes it possible to insert a probe to measure temperature.

For SIRCO M

Rating (A)	No. of poles	Position	Reference
16 … 40	1 P	top / bottom	2294 **1005**
16 … 40	3 P	top / bottom	2294 **3005**
63 … 80	1 P	top / bottom	2294 **1009**
63 … 80	3 P	top / bottom	2294 **3009**
100 ... 125	1 P	top / bottom	2294 **1011**(1)
100 ... 125	3 P	top and bottom	2294 **3016**(1)

(1) Reference composed of 2 pieces.

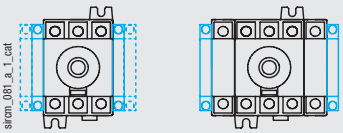
For SIRCO MV

Rating (A)	No. of poles	Position	Reference
100 … 160	3 P	top / bottom	2294 **3016**
100 … 160	4 P	top / bottom	2294 **4016**

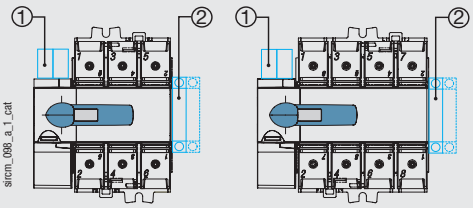
Auxiliary contacts

M type


sircm_075_b_2_cat


sircm_061_a_1_cat

Auxiliary contacts configurations for SIRCO M



sircm_068_a_1_cat

Auxiliary contacts configurations for SIRCO MV
1. Maximum 2 "U" type auxiliary contacts.
2. Maximum 4 "M" type auxiliary contacts

Use

Pre-break and signalisation of positions 0 and I by NO+NC or 2 NO auxiliary contacts.
They allow to anticipate the switching of the main poles. They can be mounted on the left or on the right side of the device.
Max 4 auxiliary contacts (2 modules).

Pre-break is not guaranteed on the **SIRCO MV**.

Characteristics

NO+NC auxiliary contacts: IP2 with front operation.

For SIRCO M

Rating (A)	Number of AC	Type of AC	Reference
16 … 125	1 AC	NO + NC	2299 **0001**
16 … 125	1 AC	2 NC	2299 **0011**

For SIRCO MV

Rating (A)	Number of AC	Type of AC	Reference
100 … 160	1 AC	NO + NC	2299 **0001**
100 … 160	1 AC	2 NC	2299 **0011**

Characteristics

		Operating current I_e (A) 230 VAC	
Contact type	Nominal current (A)	AC-13	AC-15
NO + NC	10	10	6

U type


sircm_048_a_1_x_cat

Use

Pre-break and signalisation by NO or NC auxiliary contact.
Maximum 2 auxiliary contacts.
For use only with SIRCO MV switches.

For SIRCO MV

Rating (A)	Number of AC	Type of AC	Reference
100 … 160	1 AC	NC	3999 **0701**
100 … 160	1 AC	NO	3999 **0702**

Conversion kit


sircm_050_c_2_cat

Conversion kit for 6/8 pole load break switches


sircm_097_b_2_x_cat

Escutcheon for 3/4-pole changeover switches (I - 0 - II) or (I - I+II - II)


sircm_086_b_1_cat

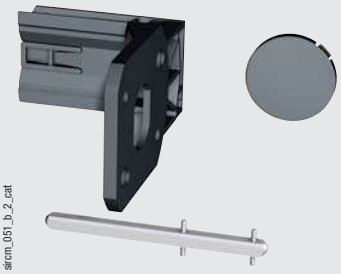
Use

It must be ordered at the same time as the handle for external control.
This accessory enables the assembly of two 3 pole switches and additional poles in order to achieve:
- 6 or 8-pole SIRCO M load break switches,
- 3 or 4-pole SIRCOVER M changeover switches.

SIRCOVER M changeover switches ensure switching, transfer of sources (I - 0 - II) or transfer of two low voltage circuits on load (I - I+II - II), with the continuity of power supply.

Rating (A)	Type	Reference
16 … 80	Load break switches 6 / 8 P	2269 **6009**
16 … 80	Changeover switch 3/4 pole (I - 0 - II)	2209 **6009**
16 … 80	Changeover switch 3/4 pole (I - I+II - II)	2299 **6009**

Door mounting kit


sircm_051_b_2_cat

Use
This kit enables direct mounting of the switch on the door panel, on the right or left side of the panel.
Moreover, the connection clamps of the switch are always accessible.

The external handle is quick and easy to install due to an internal locking nut mounted on the inside of the enclosure.
2 kits are available:
- one for complete protection IP2X
- one with overall dimensions reduced.

For SIRCO M

Rating (A)	No. of poles	Description	Reference
16 … 80	3/4 P	Complete protection IP2X	2299 **3309**
16 … 80	3/4 P	Overall dimensions reduce	2299 **3409**

Cap for side operation mounting


sircm_126_a_2_cat

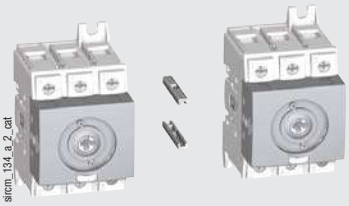
Use
Accessory for capping the front face of the **SIRCO M** when utilising in side operation, 20 units per pack.

This piece can be snapped on the switch body directly.

For SIRCO M

Rating (A)	Pack	Reference
16 ... 80	20 pieces	2299 **9409**

6/8 pole joining accessory


sircm_134_a_2_cat

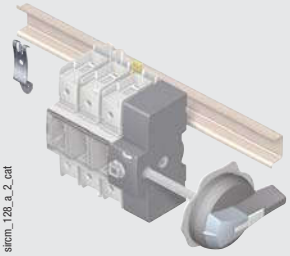
Use
40 units per pack, they allow the joining of two 3 pole switches (+ additional pole) in order to form a 6 or 8 pole switch for external side operation.

For multi-pole switches, please consult us.

For SIRCO M

Rating (A)	Pack	Reference
16 ... 80	40 pieces	2299 **9909**

DIN rail locking clip


sircm_128_a_2_cat

Use
This locking clip prevents the **SIRCO MV** from sliding when DIN rail mounted.

For SIRCO MV

Rating (A)	Type	Reference
100 ... 160	M4	5000 **0041**
100 ... 160	M5	5000 **0051**

Voltage sensing and power supply tap


altysm_026_a_1_cat

Use
It allows connection of 2 x ≤ 1.5 mm² voltage sensing or power cables.

For SIRCO MV

Rating (A)	Pack	Reference
100 ... 160	2 pieces	1399 **4006**

➲ Characteristics according to IEC 60947-3

SIRCO M - 16 to 125 A

Thermal current I_{th} (40°C)		**16 A**	**20 A**	**25 A**	**32 A**	**40 A**	**63 A**	**80 A**	**100 A**	**125 A**
Rated insulation voltage U_i (V)		800	800	800	800	800	800	800	800	800
Rated impulse withstand voltage U_{imp} (kV)		8	8	8	8	8	8	8	8	8
Rated operational currents Ie (A)										
Rated voltage	Load duty category	A/B[1]	A/B[1]	A/B[1]	A/B[1]	A/B[1]	A/B[1]	A/B[1]	A/B[1]	A/B[1]
415 VAC	AC-21 A / AC-21 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-22 A / AC-22 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-23 A / AC-23 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
500 VAC	AC-21 A / AC-21 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
500 VAC	AC-22 A / AC-22 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
500 VAC	AC-23 A / AC-23 B	16/16	20/20	25/25	25/25	25/25	63/63	63/63	80/80	100/100
690 VAC	AC-21 A / AC-21 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
690 VAC	AC-22 A / AC-22 B	16/16	20/20	25/25	32/32	32/40	40/63	63/80	80/100	100/125
690 VAC	AC-23 A / AC-23 B	16/16	20/20	25/25	25/25	25/25	40/40	40/40	63/63	63/63
Operational power in AC-23 (kW)										
At 400 VAC without pre-break in AC-23 (kW)[1][2]		7.5	9	11	15	18.5	30	37	45	55
At 500 VAC without pre-break in AC-23 (kW)[1][2]		7.5	9	11	15	18.5	30	37	45	55
At 690 VAC without pre-break in AC-23 (kW)[1][2]		7.5	11	15	15	15	30	37	45	55
Fuse protected short-circuit withstand (kA rms prospective)										
Prospective short-circuit (kA rms)[3]		50	50	50	50	50	50	50	25	25
Associated fuse rating (A)[3]		16	20	25	32	40	63	80	100	125
Short-circuit capacity (U_e 415 VAC)										
Rated short-time withstand current 0.3 s. I_{cw} (kA eff.)		2.5	2.5	2.5	2.5	2.5	3	3	5	5
Rated peak withstand current (kA peak)[3]		6	6	6	6	6	9	9	12	12
Connection										
Minimum Cu cable section (mm^2)		1.5	1.5	1.5	1.5	1.5	2.5	2.5	10	10
Maximum Cu cable section (mm^2)		16	16	16	16	16	35	35	70	70
Tightening torque min/max (Nm)		2 / 2.2	2 / 2.2	2 / 2.2	2 / 2.2	2 / 2.2	3.5 / 3.85	3.5 / 3.85		
Mechanical characteristics										
Durability (number of operating cycles)		100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000
Operating effort (Nm)		0.8	0.8	0.8	0.8	0.8	1	1		
Weight of a 3 pole device (kg)		0.16	0.16	0.16	0.16	0.16	0.26	0.26	0.7	0.7

(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.

➲ Characteristics according to IEC 60947-3

SIRCO MV - 100 to 160 A

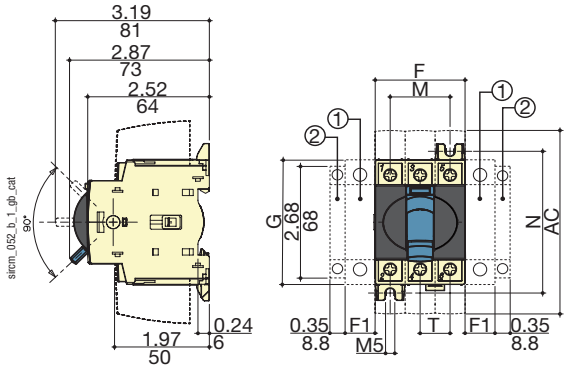
Thermal current I_{th} (40°C)		**100 A**	**125 A**	**160 A**
Rated insulation voltage U_i (V)		800	800	800
Rated impulse withstand voltage U_{imp} (kV)		8	8	8
Rated operational currents Ie (A)				
Rated voltage	Load duty category	A/B[1]	A/B[1]	A/B[1]
415 VAC	AC-21 A / AC-21 B	100/100	125/125	160/160
415 VAC	AC-22 A / AC-22 B	100/100	125/125	160/160
415 VAC	AC-23 A / AC-23 B	100/100	125/125	125/160
500 VAC	AC-21 A / AC-21 B	100/100	125/125	160/160
500 VAC	AC-22 A / AC-22 B	100/100	125/125	125/160
500 VAC	AC-23 A / AC-23 B	80/80	100/100	100/100
690 VAC	AC-20 A / AC-20 B	100/100	125/125	160/160
690 VAC	AC-21 A / AC-21 B	100/100	125/125	160/160
690 VAC	AC-22 A / AC-22 B	63/80	80/100	100/125
690 VAC	AC-23 A / AC-23 B	63/63	80/80	80/80
Reactive power (kvar)				
At 400 VAC (kvar)[2]		45	55	75
Operational power in AC-23 (kW)				
At 400 VAC without pre-break in AC-23 (kW)[1][2]		45	55	75
At 500 VAC without pre-break in AC-23 (kW)[1][2]		45	55	75
At 690 VAC without pre-break in AC-23 (kW)[1][2]		45	75	75
Fuse protected short-circuit withstand (kA rms prospective)				
Prospective short-circuit (kA rms)[3]		100	65	50
Associated fuse rating (A)[3]		100	125	160
Short-circuit capacity (U_e 415 VAC)				
Rated short-time withstand current 0.3 s. I_{cw} (kA eff.)		7	7	7
Rated peak withstand current (kA peak)[3]		12	12	12
Connection				
Minimum Cu cable section (mm²)		10	10	10
Maximum Cu cable section (mm²)		70	70	70
Tightening torque min/max (Nm)		4 / 4.4	4 / 4.4	4 / 4.4
Mechanical characteristics				
Durability (number of operating cycles)		50 000	50 000	50 000
Operating effort (Nm)		4	4	4
Weight of a 3 pole device (kg)		0.7	0.7	0.7
Weight of a 4 pole device (kg)		0.9	0.9	0.9

(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.

SIRCO M

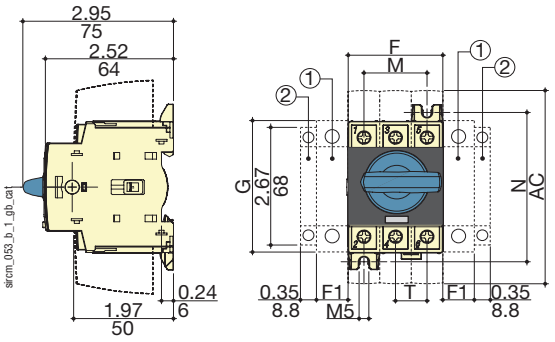
SIRCO M 16 to 80 A

Toggle operation



1. Location for: 1 switched fourth pole module (1 per device max.) **or** *1 unswitched neutral pole*
or *1 protective earth module* **or** *1 auxiliary contact.*
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

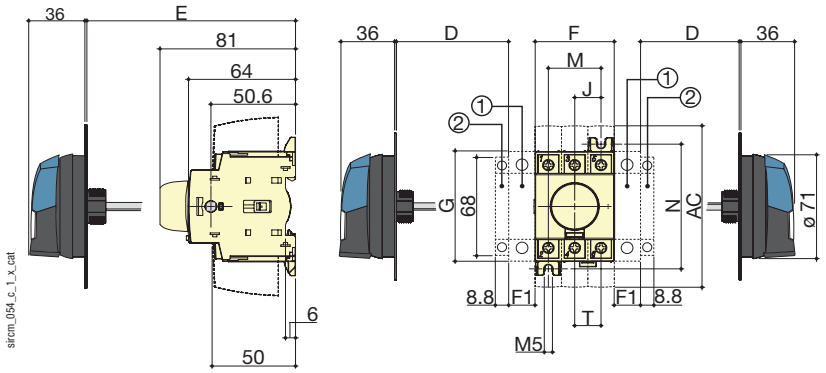
Direct operation with handle



1. Location for: 1 switched fourth pole module (1 per device max.) **or** *1 unswitched neutral pole*
or *1 protective earth module* **or** *1 auxiliary contact.*
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

External front operation

External side operation

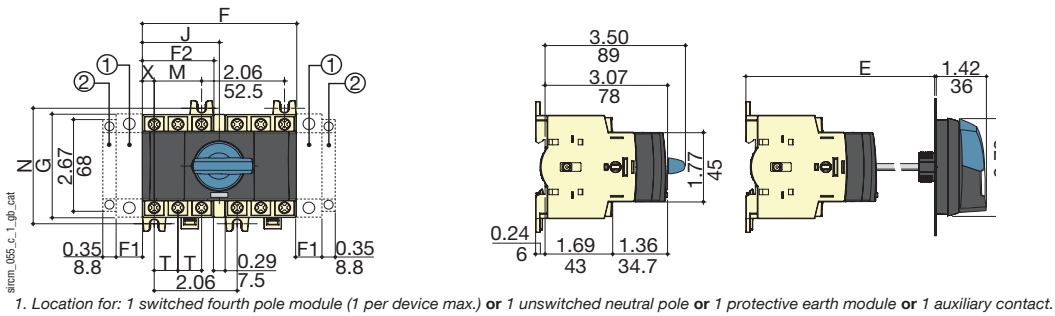


1. Location for: 1 switched fourth pole module (1 per device max.) **or** *1 unswitched neutral pole* **or** *1 protective earth module* **or** *1 auxiliary contact.*
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

	Overall dimensions				Terminal shrouds	Switch body				Switch mounting		Connection
Rating (A)	D min	D max	E min	E max	AC	F	F1	G	J	M	N	T
16…40	30	235	100	372	110	45	15	68	15	30	75	15
63…80	30	235	100	372	110	52.5	17.5	76	17.5	35	85	17.5

Direct front operation for 6/8-pole load break switches or 3/4-pole changeover switches

External front operation for 6/8-pole load break switches or 3/4-pole changeover switches

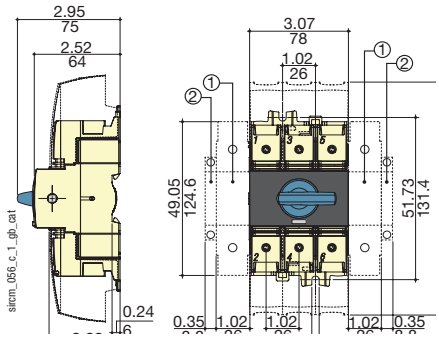


1. Location for: 1 switched fourth pole module (1 per device max.) **or** *1 unswitched neutral pole* **or** *1 protective earth module* **or** *1 auxiliary contact.*
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

	Overall dimensions		Switch body					Switch mounting		Connection	
Rating (A)	E min	E max	F	F1	F2	G	J	M	N	T	X
16…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

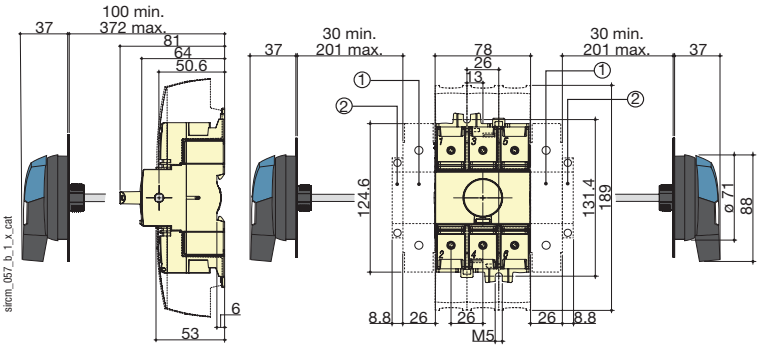
SIRCO M 100 to 125 A

Direct operation with handle



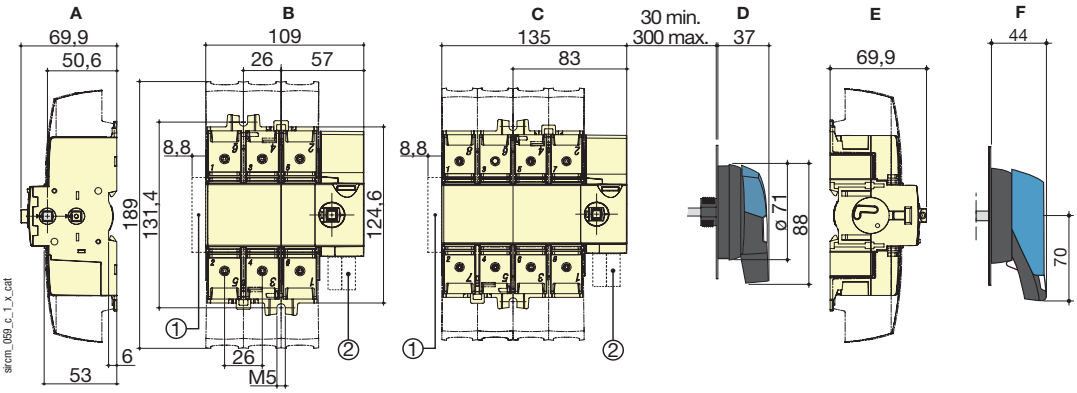
1. Location for: 1 switched fourth pole module (1 per device max.)
or *1 unswitched neutral pole* **or** *1 protective earth module* **or** *1 auxiliary contact.*
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

External front operation



1. Location for: 1 switched fourth pole module (1 per device max.)
or *1 unswitched neutral pole* **or** *1 protective earth module* **or** *1 auxiliary contact.*
2. Position for 1 auxiliary contact only.
Note: max 4 additional blocks

External side operation

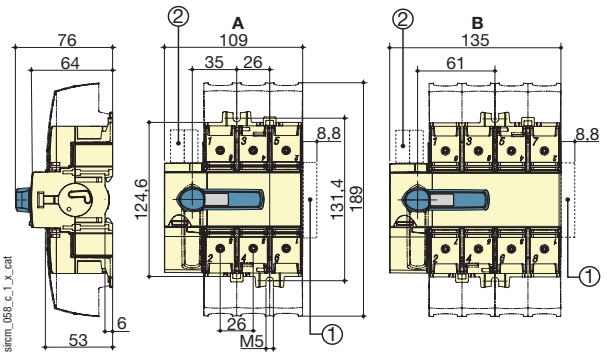


A. Right side operation
B. 3 pole
C. 4 pole
D. S0 type handle
E. Left side operation
F. S1 type handle
1. Maximum 4 "M" type auxiliary contacts
2. Maximum 2 "U" type auxiliary contacts

SIRCO MV

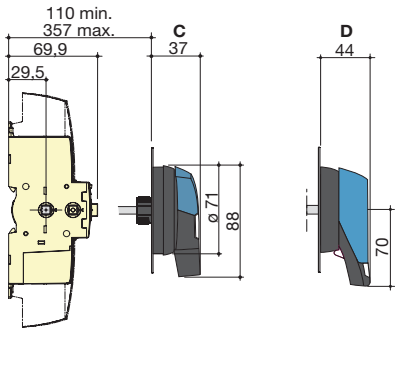
SIRCO MV 100 to 160 A

Direct front operation



A. 3 pole
B. 4 pole

External front operation

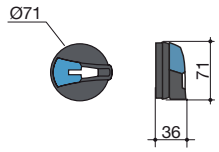
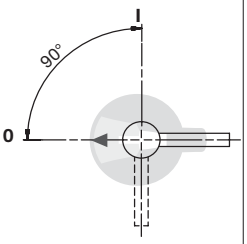
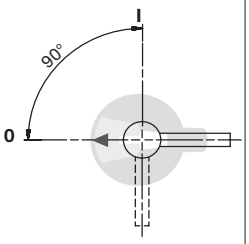
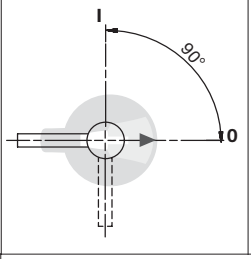
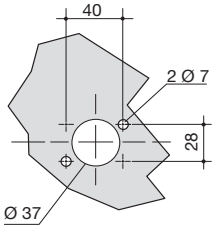
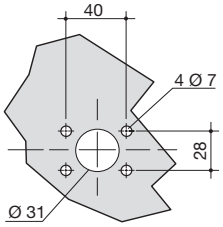
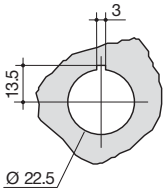


C. S0 type handle
D. S1 type handle
1. Maximum 4 "M" type auxiliary contacts
2. Maximum 2 "U" type auxiliary contacts

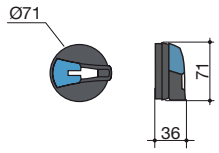
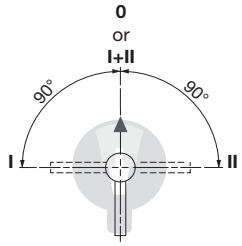
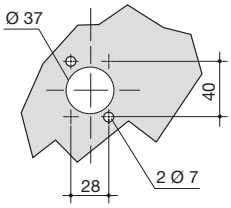
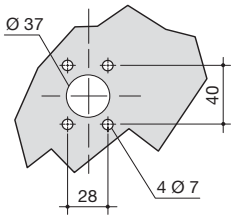
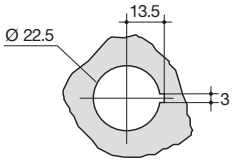
➲ Dimensions for external handles

SIRCO M

SIRCO M 16 to 80 A

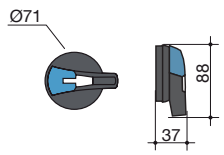
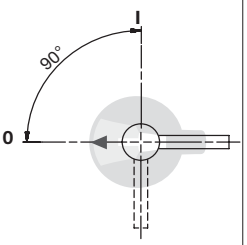
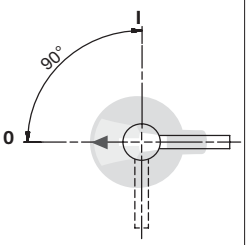
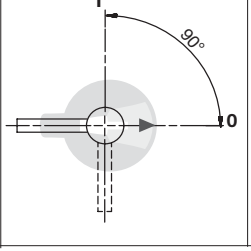
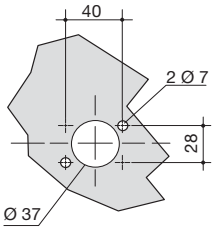
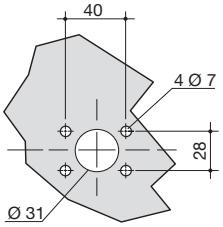
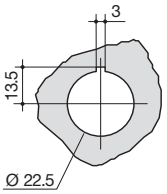
Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling
S00 type Load break switches 		**Right side operation**  **Left side operation** 	IP55 with 2 fixing clips  IP65 with 4 fixing screws  With fixing nut 

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

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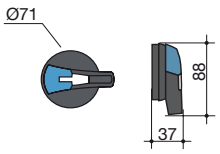
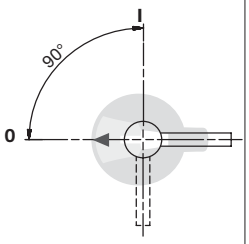
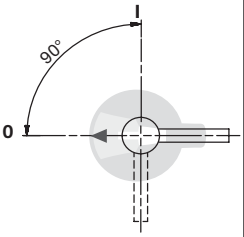
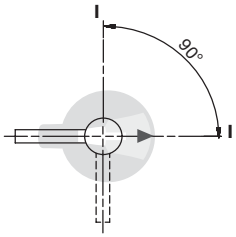
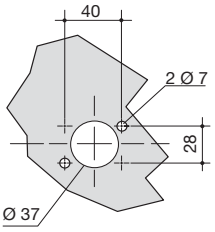
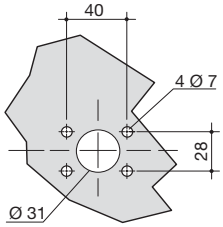
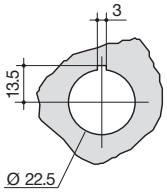
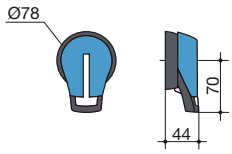
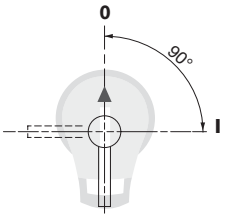
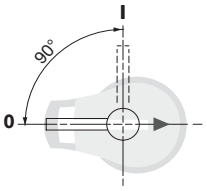
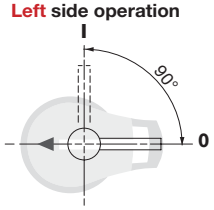
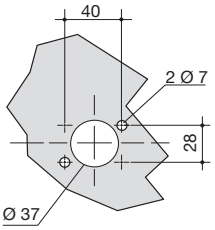
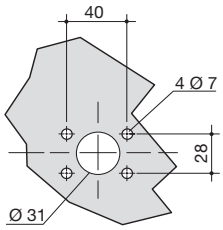
SIRCO M 100 to 125 A

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling
S0 type Load break switches 		**Right side operation**  **Left side operation** 	IP55 with 2 fixing clips  IP65 with 4 fixing screws  With fixing nut 

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SIRCO MV

SIRCO MV 100 to 160 A

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling
S0 type Load break switches 		**Right side operation**  **Left side operation** 	IP55 with 2 fixing clips  IP65 with 4 fixing screws  With fixing nut 
S1 type Load break switches 		**Right side operation**  **Left side operation** 	IP55 with 2 fixing clips  IP65 with 4 fixing screws 

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