

SIRCO M and MV

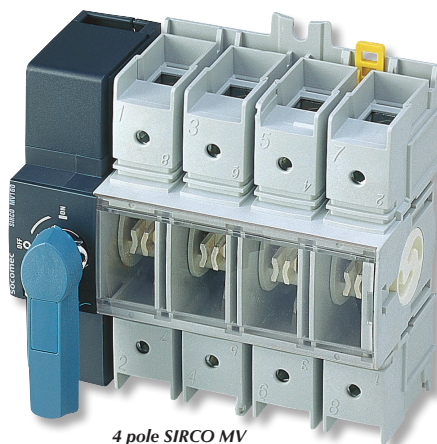
Universal load break switches

16 to 160 A



4 pole SIRCO M
Direct operation

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4 pole SIRCO MV
Direct operation

sirco_099.psd

The solution for

- > Data centres.
- > Industry.
- > Buildings.



Strong points

- > Total integration
- > A wide range of accessories
- > Upgradeability
- > Compliance with major certifications and approvals
- > Specific characteristics

Conformity to standards

- > IEC 60947-3



- > Other standards available



*See SIRCO UL and CSA pages

Approvals and certifications⁽¹⁾



(1) Product part numbers on request.

Functions

SIRCO M and **MV** are manually operated 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. Through the use of accessories, they can be transformed into manual control multipolar load break switches, providing switching, source inversion and on-load changeover between two low voltage power circuits, as well as safety isolation.

Advantages

Total integration

The SIRCO M and MV fully integrate isolation, breaking and switching functions. Within a single product, SIRCO M and MV offer front, right side or left side operation. Their highly functional design enables the product to be easily transformed from a load break switch to a changeover switch, offering a highly innovative modular solution for numerous applications.

A wide range of accessories

A single standard module, which can be complemented with a choice of accessories, offers a range of advantages:

- Simplicity when choosing the device.
- Flexibility to adapt to the most varied applications.
- Reduced stock management and storage costs.

Upgradeability

Its wide range of accessories means that the SIRCO M can be upgraded even after commissioning, enabling future requirements to be met.

Compliance with major certifications and approvals

The SIRCO M & MV range has been designed, tested and qualified according to the criteria defined by international standards IEC 60947-3, UL508 and UL98

This process guarantees a high quality product fully adapted to today's operating requirements.

General characteristics

- Double break per pole.
- IP20 devices and accessories.
- Severe utilisation categories (AC-22 and AC-23).
- Padded contacts

SIRCO M

- Mounting options: DIN-rail, panel or modular panel with 45 mm front cut out
- Positive break indication.
- Product can be mounted on the front of the panel using the "door mounting kit".

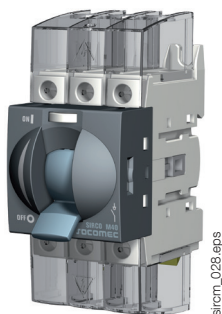
SIRCO MV

- Mounting options: DIN rail, back plate or modular panel with 45 mm cut out
- SIRCO MV: Visible double breaking based on a rotating contact system.

What you need to know

SIRCO M

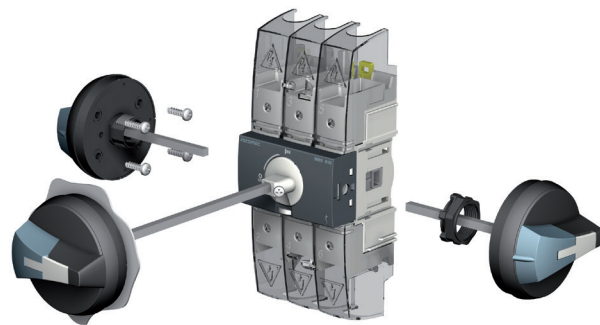
- SIRCO M has 3 methods of operation:



Direct operation by toggle

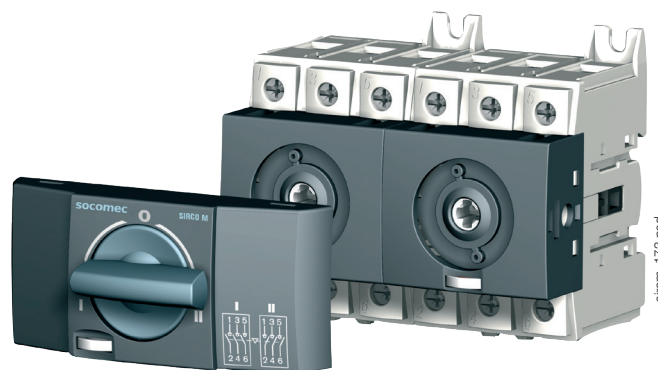


Direct front operation with handle



External operation
front, left side or right side

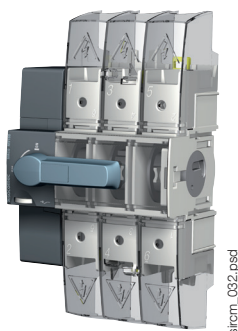
- The SIRCO M is a **3 pole** load break switch available from **16 to 125 A**. It can be combined with switched 4th pole, an unswitched neutral or PE pole and pre-break and signalling auxiliary contacts.
- From **16 to 125 A**, through the wide range of available accessories, it is possible to convert a 3 pole load break switch into a **4, 6 or 8 pole** load break switch or a **3/4 pole changeover switch**. Through use of its door mounting kit, SIRCO M load break switches can be mounted on the panel door.



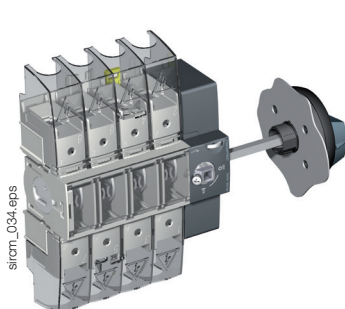
Changeover switches I - 0 - II

SIRCO MV

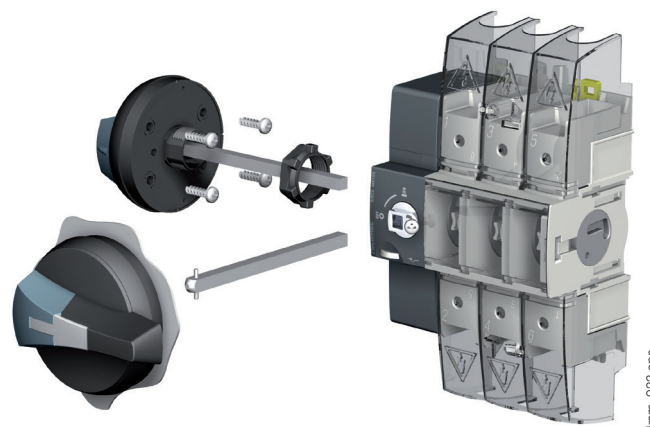
- 3 operations are available:



Direct front operation



External right side operation



External front and left side operation

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

References

SIRCO M

SIRCO M - from 16 to 125 A									
Rating (A) / Frame size	No. of poles	Direct operation by toggle	Case	Direct handle	External front and right side defeatable door handle ⁽⁶⁾	External left side handle ⁽⁶⁾	External front handle for changeover switches ⁽⁶⁾	Shaft for external front and right side handle ⁽⁶⁾	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 - 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⁾	3/4 P ≤ 125 A 6/8 P & COS ≤ 80 A S00 / S0 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⁾						2200 1008
100 A / M3	3 P		2200 3010 ⁽¹⁾⁽²⁾⁽³⁾	M01 type 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	S00 type I - 0 - II Black IP65 1473 0113 I - I+II - II Black IP65 1473 0114	6/8 P & COS 100 ... 125 A S00 type 150 mm 1409 0615 200 mm 1409 0620 320 mm 1409 0632	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 devices + conversion kit (for external operation, add the shaft + handle).

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

(4) Defeatable handle.

(5) Top and bottom

(6) Other handles and shafts are available. Please see Accessories page.

SIRCO M

SIRCO M - from 16 to 125 A									
Rating (A) / Frame size	No. of poles	Direct operation by toggle	Case	Unswitched neutral pole	Unswitched PE pole	Auxiliary contact	Terminal shroud	Door mounting kit	
16 A / M1	3 P	2205 3000	2200 3000 ⁽¹⁾⁽²⁾⁽³⁾	1 P 2200 5005	1 P 2200 9005	Type M 1 module NO + NC 2299 0001	1 P 2294 1005 ⁽⁴⁾ 3 P 2294 3005 ⁽⁴⁾	3/4 P Complete protection IP2X 2299 3309 ⁽⁵⁾ Compact 2299 3409 ⁽⁵⁾	
20 A / M1	3 P	2205 3001	2200 3001 ⁽¹⁾⁽²⁾⁽³⁾						
25 A / M1	3 P	2205 3002	2200 3002 ⁽¹⁾⁽²⁾⁽³⁾						
32 A / M1	3 P	2205 3003	2200 3003 ⁽¹⁾⁽²⁾⁽³⁾						
40 A / M1	3 P	2205 3004	2200 3004 ⁽¹⁾⁽²⁾⁽³⁾						
63 A / M2	3 P	2205 3006	2200 3006 ⁽¹⁾⁽²⁾⁽³⁾	1 P 2200 5009	1 P 2200 9009	1 module 2 NO 2299 0011	1 P 2294 1009 ⁽⁴⁾ 3 P 2294 3009 ⁽⁴⁾	6/8 P Steel support 2299 3609 ⁽⁵⁾	
80 A / M2	3 P	2205 3008	2200 3008 ⁽¹⁾⁽²⁾⁽³⁾						
100 A / M3	3 P		2200 3010 ⁽¹⁾⁽²⁾⁽³⁾	1 P 2200 5011	1 P 2200 9011		1 P 2294 1011 ⁽⁴⁾ 3 P 2294 3016 ⁽⁴⁾	3/4 P Steel support 2299 3609 ⁽⁵⁾	
125 A / M3	3 P		2200 3011 ⁽¹⁾⁽²⁾⁽³⁾						

(1) Front and side operation.

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

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

(4) Top and bottom

(5) Delivered with a shaft.

SIRCO MV

SIRCO MV - from 100 to 160 A									
Rating (A)	No. of poles	Case	Direct handle	External front and right side defeatable door handle ⁽⁴⁾	External left side handle ⁽⁴⁾	Shaft for external front and right side handle ⁽⁴⁾	Auxiliary signal contact	Pre-break auxiliary contact	Terminal shroud
100 A	3 P	2200 3110	M0b type Blue 2299 5042 ⁽¹⁾ M0 type Blue 2299 5022	S0 type I -0 Black IP55 1491 0111 ⁽²⁾ Black IP65 1493 0111 ⁽²⁾ Red/Yellow IP65 1494 0111 ⁽²⁾	S0 type I -0 Black IP65 149A 9111 Red/Yellow IP65 149B 9111	S0 type 150 mm 1409 0615 200 mm 1409 0620 320 mm 1409 0632	Type M 1 module NO + NC 2299 0001 1 module 2 NO 2299 0011	U type 1 NO contact 3999 0701 1 NC contact 3999 0702	3 P 2294 3016 ⁽³⁾ 4 P 2294 4016 ⁽³⁾
	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

(4) Other handles and shafts are available. Please see Accessories page.

Accessories

Direct operation handle

For SIRCO M

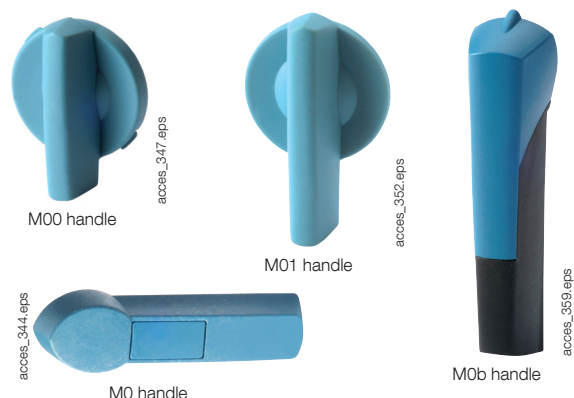
Rating (A) / Frame size	Handle colour	Handle type	Reference
16 ... 80 / M1 ... M2	Blue	M00	2299 5012 ⁽¹⁾
16 ... 80 / M1 ... M2	Red	M00	2299 5013
100 ... 125 / M3	Blue	M01	2299 5032 ⁽¹⁾

(1) Standard.

For SIRCO MV

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

(1) Standard.



External operation handle - 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

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

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

External operation handle - SIRCO M (continued)

S0 type handle

Rating (A) / Frame size	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
100 ... 125 / M3	Switch	3/4 P	Front and side operation	Black	IP55	Yes	1481 1111
	Switch	3/4 P	Front and side operation	Black	IP65	Yes	1483 1111
	Switch	3/4 P	Front and side operation	Red/Yellow	IP65	Yes	1484 1111
	Switch	3/4 P	Left side	Black	IP65	No	148A 5111
	Switch	3/4 P	Left side	Red/Yellow	IP65	No	148B 5111



S0 handle

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S01 type handle

Rating (A) / Frame size	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
16 ... 125 / M1 ... M3	Switch	3/4 P ⁽²⁾	Front and side operation	Black	IP65	Yes	1403 2111
	Switch	3/4 P ⁽²⁾	Front and side operation	Red/Yellow	IP65	Yes	1404 2111
16 ... 80 / M1 ... M2	Changeover switches I - O - II	3/4 P	Front	Black	IP65	Yes	1403 2113
	Changeover switches I - O - II	3/4 P	Front	Black	IP65	Yes	1403 2813⁽¹⁾
	Changeover switches I - I-II - II	3/4 P	Front	Black	IP65	Yes	1403 2114
	Changeover switches I - I-II - II	3/4 P	Front	Black	IP65	Yes	1403 2814⁽¹⁾



S01 handle

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(1) Padlockable in 3 positions.

(2) Can also be used with 6 and 8-pole devices from 16 to 40 A.

External operation handle - SIRCO MV

S0 type handle

Rating (A)	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
100 ... 160	Switch	3/4 P	Front and side operation	Black	IP55	Yes	1491 0111
100 ... 160	Switch	3/4 P	Front and side operation	Black	IP65	Yes	1493 0111
100 ... 160	Switch	3/4 P	Front and side operation	Red/Yellow	IP65	Yes	1494 0111
100 ... 160	Switch	3/4 P	Left side	Black	IP65	No	149A 9111
100 ... 160	Switch	3/4 P	Left side	Red/Yellow	IP65	No	149B 9111



S0 handle

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S1 type handle

Rating (A)	Type	No. of poles	Operation	Handle colour	External IP	Defeatable handle	Reference
100 ... 160	Switch	3/4 P	Front	Black	IP55	Yes	1411 2111
100 ... 160	Switch	3/4 P	Front	Black	IP65	Yes	1413 2111
100 ... 160	Switch	3/4 P	Front	Red/Yellow	IP65	Yes	1414 2111
100 ... 160	Switch	3/4 P	Right side	Black	IP55	No	1415 2111
100 ... 160	Switch	3/4 P	Right side	Black	IP65	No	1417 2111
100 ... 160	Switch	3/4 P	Right side	Red/Yellow	IP65	No	1418 2111
100 ... 160	Switch	3/4 P	Left side	Black	IP65	No	141A 2111
100 ... 160	Switch	3/4 P	Left side	Red/Yellow	IP65	No	141B 2111



S1 handle

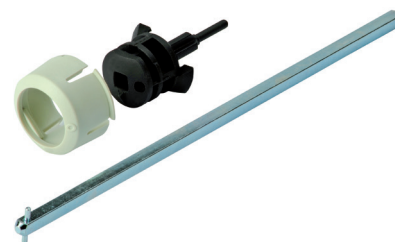
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Accessories (continued)

Shaft for external operation

SIRCO M 3/4 P

Rating (A) / Frame size	Handle type	Type	Length (mm)	Reference
16 ... 125 / M1... M3	S000 / S00 / S0	Switch	150 mm	1407 0515
	S000 / S00 / S0	Switch	200 mm	1407 0520
	S000 / S00 / S0	Switch	320 mm	1407 0532
	S01	Switch	200 mm	1404 0520
	S01	Switch	320 mm	1404 0532
	S01	Switch	400 mm	1404 0540



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Use

Shaft lengths:

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

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

For 6/8 pole switches and changeover switches shaft extensions are for front operation only.

SIRCO M 6/8 pole load break switches and 3/4 pole changeover switches

Rating (A)	Handle type	Type	Length (mm)	Reference
16 ... 80 / M1...M2	S000, S00	6/8 P and changeover switch	150 mm	1407 0515
	S000, S00	6/8 P and changeover switch	200 mm	1407 0520
	S000, S00	6/8 P and changeover switch	320 mm	1407 0532
100 ... 125 / M3	S00	6/8 P and changeover switch	150 mm	1409 0615
	S00	6/8 P and changeover switch	200 mm	1409 0620
	S00	6/8 P and changeover switch	320 mm	1409 0632
16 ... 40 / M1	S01	6/8 P	200 mm	1404 0520
	S01	6/8 P	320 mm	1404 0532
	S01	6/8 P	400 mm	1404 0540
16 ... 80 / M1 ... M2	S01	Changeover switch	200 mm	1404 0520
	S01	Changeover switch	320 mm	1404 0532
	S01	Changeover switch	400 mm	1404 0540

For SIRCO MV

Rating (A)	Handle type	Type	Length (mm)	Reference
100 ... 160	S0	Switch	150 mm	1409 0615
100 ... 160	S0	Switch	200 mm	1409 0620
100 ... 160	S0	Switch	320 mm	1409 0632
100 ... 160	S1	Switch	200 mm	1401 0620
100 ... 160	S1	Switch	320 mm	1401 0632
100 ... 160	S1	Switch	400 mm	1401 0640

Shaft guide for external operation

Use

Allows you to guide the shaft into the external handle.

This accessory enables the handle to engage the extension shaft with a misalignment of up to 15 mm.

Recommended for shaft lengths over 320 mm.

Description	Handle type	Available for order in multiples of	Reference
Shaft guide	S00 and S0 / S000	10 pieces	1419 0000
Shaft guide	S01 and S1	1 piece	1429 0000



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Additional poles for SIRCO M

4th pole

Rating (A) / Frame size	No. of poles	Type	Reference
16 / M1	1 P	switched	2200 1000
20 / M1	1 P	switched	2200 1001
25 / M1	1 P	switched	2200 1002
32 / M1	1 P	switched	2200 1003
40 / M1	1 P	switched	2200 1004
63 / M2	1 P	switched	2200 1006
80 / M2	1 P	switched	2200 1008
100 / M3	1 P	switched	2200 1010
125 / M3	1 P	switched	2200 1011

Use

Add one or two additional poles to transform:

- a 3-pole SIRCO M into a 4-pole load break switch,
- a 6-pole SIRCO M into an 8-pole load break switch,
- a 3-pole SIRCO M into a 4-pole changeover switch.

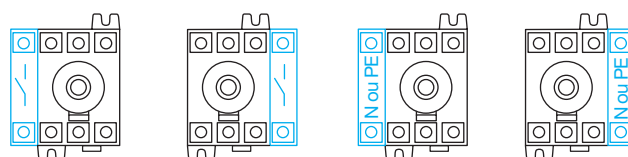


Neutral pole

Rating (A) / Frame size	No. of poles	Type	Reference
16 ... 40 / M1	1 P	unswitched	2200 5005
63 ... 80 / M2	1 P	unswitched	2200 5009
100 ... 125 / M3	1 P	unswitched	2200 5011

Use

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

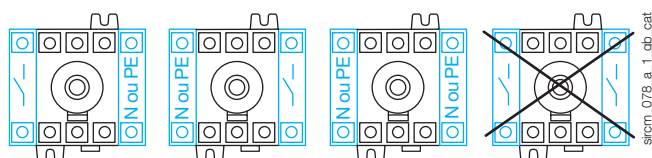


Protective earth pole

Rating (A) / Frame size	No. of poles	Type	Reference
16 ... 40 / M1	1 P	unswitched	2200 9005
63 ... 80 / M2	1 P	unswitched	2200 9009
100 ... 125 / M3	1 P	unswitched	2200 9011

Use

Adds 1 protective earth pole to the load break switch.



Additional pole configuration

Terminal shroud

Use

Top or bottom protection against direct contact with the terminals.

Available in 1 or 3 pole versions for SIRCO M and 3 or 4 pole versions for SIRCO MV.

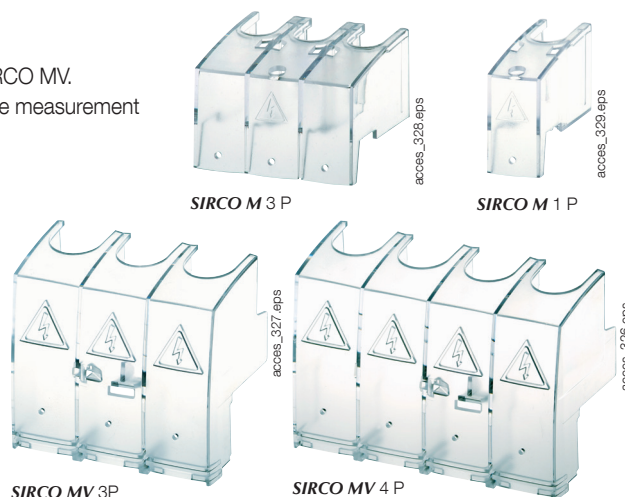
An opening on each terminal shroud makes it possible to insert a temperature measurement probe.

For SIRCO M

Rating (A) / Frame size	No. of poles	Position	Reference
16 ... 40 / M1	1 P	top and bottom	2294 1005
16 ... 40 / M1	3 P	top and bottom	2294 3005
63 ... 80 / M2	1 P	top and bottom	2294 1009
63 ... 80 / M1	3 P	top and bottom	2294 3009
100 ... 125 / M3	1 P	top and bottom	2294 1011
100 ... 125 / M3	3 P	top and bottom	2294 3016

For SIRCO MV

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



Accessories (continued)

Type M auxiliary contact

Use

These pre-break and signalling position 0 and I auxiliary contacts are available in NO+NC or 2NO versions.

They anticipate the switching of the main poles. They can be mounted on the right or left side of the device.

For SIRCO M

Rating (A) / Frame size	Number of AC	Type of AC	Reference
16 ... 125 / M1...M3	1 AC	NO + NC	2299 0001
	1 AC	2 NO	2299 0011

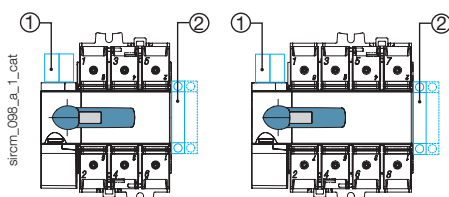
For SIRCO MV

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

Characteristics

Contact type	Rated current (A)	Operating current I _o (A)	
		AC-13	AC-15
NO + NC	10	10	6

Auxiliary contact configuration for SIRCO MV



1. Maximum 2 U type auxiliary contacts.
2. Maximum 2 M type auxiliary contact modules.

For SIRCO MV

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

Characteristics

Contact type	Rated current (A)	Operating current I _o (A)			
		250 VAC AC-15	400 VAC AC-15	24 VDC DC-13	48 VDC DC-13
NC	10	3	1.8	2.8	1.4
NO	10	3	1.8	2.8	1.4

Conversion kit

Use

It must be ordered together with the handle for external operation.

This accessory enables the assembly of two 3-pole switches (+ additional pole) to create:

- a 6 or 8 pole SIRCO M load break switch,
- a 3 or 4 pole SIRCO M changeover switch,

SIRCO M changeover switches provide on load changeover switching between two sources or two low voltage power circuits, as well as their safety isolation (I - 0 - II); transfer without interruption of the supply is also possible (I - I+II - II).

6/8 pole switch

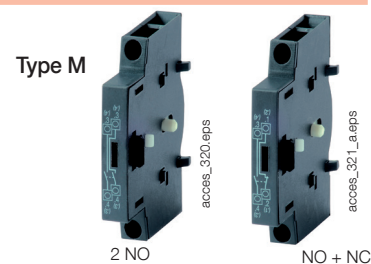
Rating (A) / Frame size	Type	Reference
16 ... 80 / M1 ... M2	6/8 P switch	2269 6009
100 ... 125 / M3	6/8 P switch	2269 6011

Changeover switches I - 0 - II

Rating (A) / Frame size	Type	Reference
16 ... 80 / M1 ... M2	Changeover switches I - 0 - II	2209 6009
100 ... 125 / M3	Changeover switches I - 0 - II	2209 6011

Changeover switches I - I+II - II

Rating (A) / Frame size	Type	Reference
16 ... 80 / M1 ... M2	Changeover switches I - I+II - II	2299 6009
100 ... 125 / M3	Changeover switches I - I+II - II	2299 6011



Auxiliary contact configuration for SIRCO M

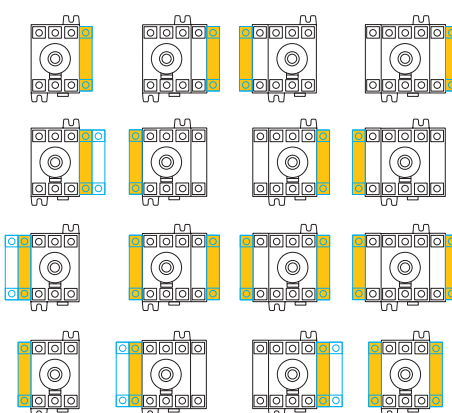
Max.: 2 blocks / Max.: 2 AC



Pre-break

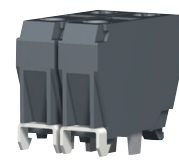


No pre-break



sirco_188_a_1_x_cat

U type



Use

These NO or NC pre-break and signalling auxiliary contacts clip onto the device.

Maximum 2 auxiliary contacts. Only available for SIRCO MV switches.



Conversion kit for 6 or 8 pole load break switches



Conversion kit for changeover switches I - 0 - II



Conversion kit for changeover switches I - I+II - II

Door mounting kit⁽¹⁾

Use

This kit enables direct mounting on the door and right or left side of the panel with the standard device.

The connection terminals of the switch are always accessible.

The external handle is quick and easy to install with the supplied internal locking nut, which mounts on the inside of the enclosure.

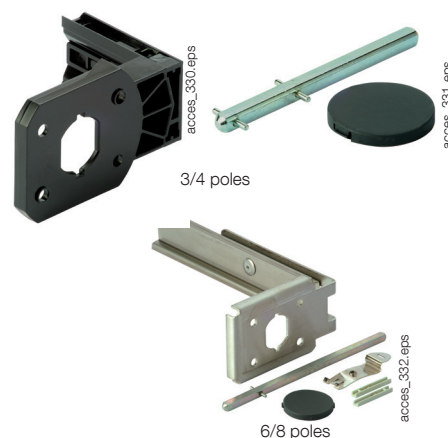
3 kits are available:

- one for complete protection IP2X
- one with compact design
- one in steel for 6/8 P and 100/125 A.

For SIRCO M

(1) Kit compatible with S000 type handle only.

Rating (A) / Frame size	No. of poles	Description	Reference
16 ... 80 / M1 ... M2	3/4 P	Complete protection IP2X	2299 3309
	3/4 P	Compact version	2299 3409
	6/8 P	Steel support	2299 3609
100 ... 125	3/4 P	Steel support	2299 3609



Cap for side mounting

Use

This accessory allows the front face of a SIRCO M to be capped when the switch is side operated. 20 pieces supplied per pack.

These pieces clip into place directly on the device.

For SIRCO M

Rating (A) / Frame size	Pack	Reference
16 ... 125 / M1 ... M3	20 pieces	2299 9409



Coupling kit

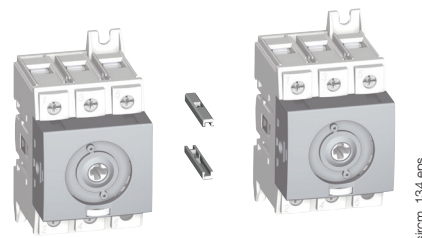
Use

These accessories are used to join two 3/4 switches to create a 6 or 8 pole switch for external side operation. Supplied in a pack of 40.

For multi-pole versions. Please contact us.

For SIRCO M

Rating (A) / Frame size	Pack	Reference
16 ... 80 / M1 ... M2	40 pieces	2299 9909



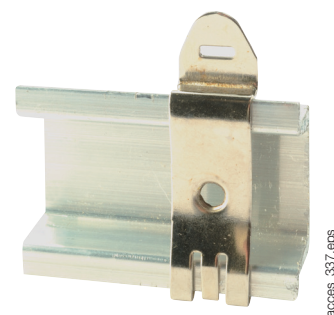
Fixomega

Use

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

For SIRCO MV

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



Voltage sensing tags and power supply kit

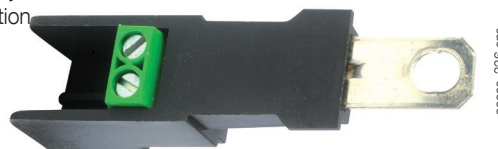
Use

Allows connection of 2 x 1.5 mm² voltage sensing or power supply cables.

This single-pole voltage sensing tap allows the connection of 2 x 1.5 mm² voltage sensing or power supply cables to any MV terminal without reducing its connection capacity.

For SIRCO MV

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



Characteristics

Characteristics according to IEC 60947-3

	SIRCO M - from 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
Frame size	M1	M1	M1	M1	M1	M2	M2	M3	M3
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 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⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC-20 A / AC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
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-20 A / AC-20 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-20 A / AC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
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
110 VDC	DC-20 A / DC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
110 VDC	DC-21 A / DC-21 B	16/16 ⁽²⁾	20/20 ⁽²⁾	25/25 ⁽²⁾	32/32 ⁽²⁾	40/40 ⁽²⁾	63/63 ⁽²⁾	80/80 ⁽²⁾	100/100 ⁽²⁾	125/125 ⁽²⁾
250 VDC	DC-20 A / DC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
250 VDC	DC-21 A / DC-21 B	16/16 ⁽³⁾	20/20 ⁽³⁾	25/25 ⁽³⁾	32/32 ⁽³⁾	40/40 ⁽³⁾	63/63 ⁽³⁾	80/80 ⁽³⁾	100/100 ⁽³⁾	125/125 ⁽³⁾
400 VDC	DC-20 A / DC-20 B	16/16	20/20	25/25	32/32	40/40	63/63	80/80	100/100	125/125
400 VDC	DC-21 A / DC-21 B	16/16 ⁽⁴⁾	20/20 ⁽⁴⁾	25/25 ⁽⁴⁾	25/25 ⁽⁴⁾	25/25 ⁽⁴⁾	40/40 ⁽⁴⁾	40/40 ⁽⁴⁾	63/63 ⁽⁴⁾	63/63 ⁽⁴⁾

Operational power in AC-23 (kW)

400 VAC without pre-break AC (kW) ⁽⁵⁾	7.5	9	11	15	18.5	30	37	45	55
500 VAC without pre-break AC (kW) ⁽⁵⁾	7.5	9	11	15	18.5	30	37	45	55
690 VAC without pre-break AC (kW) ⁽⁵⁾	7.5	11	15	15	15	30	37	45	55

Fuse protected short-circuit withstand (prospective kA rms)⁽⁶⁾

Prospective short-circuit current (kA rms)	50	50	50	50	50	50	50	25	25
Associated fuse rating (A)	16	20	25	32	40	63	80	100	125

Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s

Rated short-time withstand current 0.3s. I_{cw} (kA rms)	2.5	2.5	2.5	2.5	2.5	3	3	5	5
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Short-circuit operation (switch only)

Rated short-time withstand current: 1 s. I_{cw} (kA rms)	1.26	1.26	1.26	1.26	1.26	1.5	1.5	2.75	2.75
Rated peak withstand current (peak kA) ⁽⁶⁾	6	6	6	6	6	9	9	12	12

Connection

Minimum Cu cable cross-section (mm ²)	1.5	1.5	1.5	1.5	1.5	2.5	2.5	10	10
Maximum copper cable cross-section (mm ²)	16	16	16	16	16	35	35	70	70
Min./max. tightening torque (Nm)	2 / 2.2	2 / 2.2	2 / 2.2	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)	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Operating effort - 3-pole device (Nm)	1	1	1	1	1	1.4	1.4	1.6	1.6
Operating effort - 4-pole device (Nm)	1.2	1.2	1.2	1.2	1.2	1.6	1.6	2	2
Weight of a 3-pole device (kg)	0.18	0.18	0.18	0.18	0.18	0.27	0.27	0.55	0.55
Weight of a 4-pole device (kg)	0.23	0.23	0.23	0.23	0.23	0.33	0.33	0.72	0.72
Weight of a 6-pole device (kg)	0.40	0.40	0.40	0.40	0.40	0.59	0.59	1.30	1.30
Weight of an 8-pole device (kg)	0.50	0.50	0.50	0.50	0.50	0.69	0.69	1.65	1.65
Weight of a 3-pole device (kg)	0.40	0.40	0.40	0.40	0.40	0.59	0.59	1.30	1.30
Weight of a 4-pole device (kg)	0.50	0.50	0.50	0.50	0.50	0.69	0.69	1.65	1.65

(1) Category with index A = frequent operation / Category with index B = infrequent operation.

(2) One pole per polarity.

(3) 3-pole device with 2 poles in series for the "+" and 1 pole for the "-".

(4) 4-pole device with 2 poles in series per polarity.

(5) The power value is given for information only; current values vary from one manufacturer to another.

(6) For a rated operational voltage $U_e = 415$ VAC.

Characteristics

Characteristics according to IEC 60947-3

	SIRCO MV - from 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 I_e (A)

Rated voltage	Utilisation category	A/B⁽¹⁾	A/B⁽¹⁾	A/B⁽¹⁾
415 VAC	AC-20 A / AC-20 B	100/100	125/125	160/160
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-20 A / AC-20 B	100/100	125/125	160/160
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
110 VDC	DC-20 A / DC-20 B	100/100	125/125	160/160
110 VDC	DC-21 A / DC-21 B	100/100 ⁽²⁾	125/125 ⁽²⁾	160/160 ⁽²⁾
250 VDC	DC-20 A / DC-20 B	100/100	125/125	160/160
250 VDC	DC-21 A / DC-21 B	100/100 ⁽³⁾	125/125 ⁽³⁾	160/160 ⁽³⁾
400 VDC	DC-20 A / DC-20 B	100/100	125/125	160/160
400 VDC	DC-21 A / DC-21 B	100/100 ⁽⁴⁾	125/125 ⁽⁴⁾	160/160 ⁽⁴⁾

Operational power in AC-23 (kW)

400 VAC without pre-break AC (kW) ⁽⁵⁾	45	55	75
500 VAC without pre-break AC (kW) ⁽⁵⁾	45	55	75
690 VAC without pre-break AC (kW) ⁽⁵⁾	45	75	75

Fuse protected short-circuit withstand (prospective kA rms)⁽⁶⁾

Prospective short-circuit current (kA rms)	100	65	50
Associated fuse rating (A)	100	125	160

Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s

Rated short-time withstand current 0.3s. I_{cw} (kA rms)	7	7	7
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Short-circuit operation (switch only)

Rated short-time withstand current: 1 s. I_{cw} (kA rms)	4	4	4
Rated peak withstand current (peak kA) ⁽⁶⁾	12	12	12

Connection

Minimum Cu cable cross-section (mm ²)	10	10	10
Maximum copper cable cross-section (mm ²)	70	70	70
Min./max. tightening torque (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 - 3-pole device (Nm)	4	4	4
Operating effort - 4-pole device (Nm)	4.2	4.2	4.2
Weight of a 3-pole device (kg)	0.68	0.68	0.68
Weight of a 4-pole device (kg)	0.85	0.85	0.85

(1) Category with index A = frequent operation / Category with index B = infrequent operation.

(2) One pole per polarity.

(3) 2 poles in series for the "+" and 1 pole for the "-".

(4) 2 poles in series per polarity.

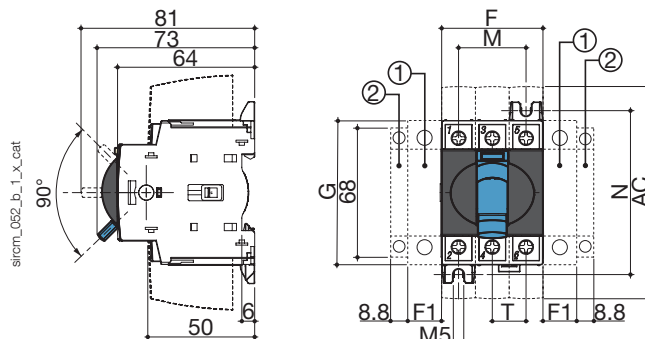
(5) The power value is given for information only; current values vary from one manufacturer to another.

(6) For a rated operational voltage $U_e = 415$ VAC.

Dimensions

SIRCO M1 and M2 16 to 80 A

Toggle operation

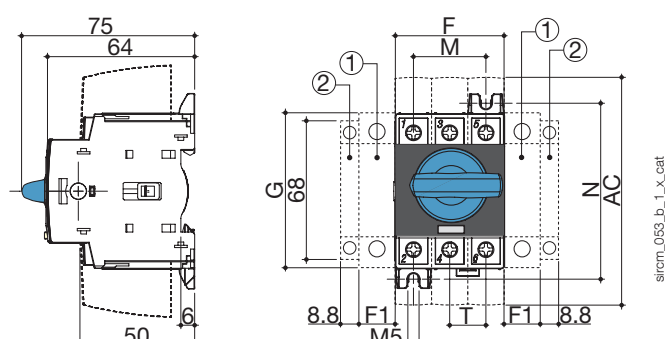


1. Location for: 1 switched fourth pole (1 per device max.) **or** 1 unswitched neutral pole **or** 1 protective earth pole **or** 1 auxiliary contact.

2. Location for 1 auxiliary contact only.

Note: max. 2 additional blocks.

Direct operation with handle

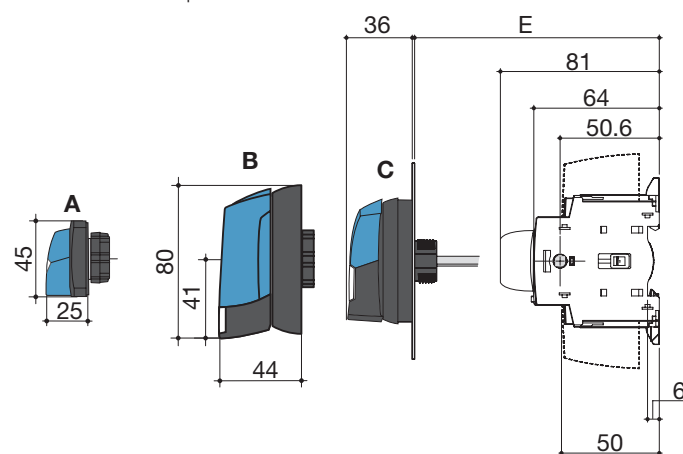


1. Location for: 1 switched fourth pole (1 per device max.) **or** 1 unswitched neutral pole **or** 1 protective earth pole **or** 1 auxiliary contact.

2. Location for 1 auxiliary contact only.

Note: max. 2 additional blocks.

External front operation

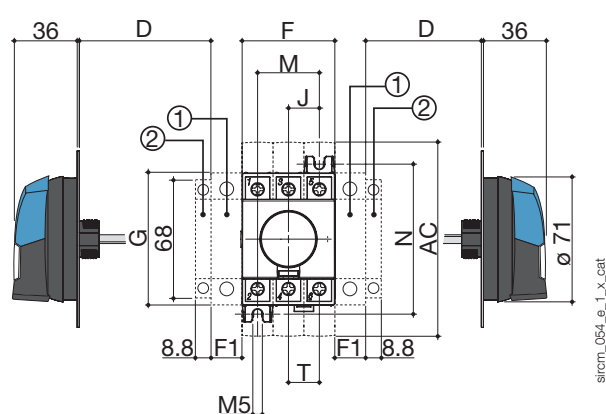


1. Location for: 1 switched fourth pole (1 per device max.) **or** 1 unswitched neutral pole **or** 1 protective earth pole **or** 1 auxiliary contact.

2. Location for 1 auxiliary contact only.

Note: max. 2 additional blocks.

External side operation



A. Handle S000

B. S01 handle

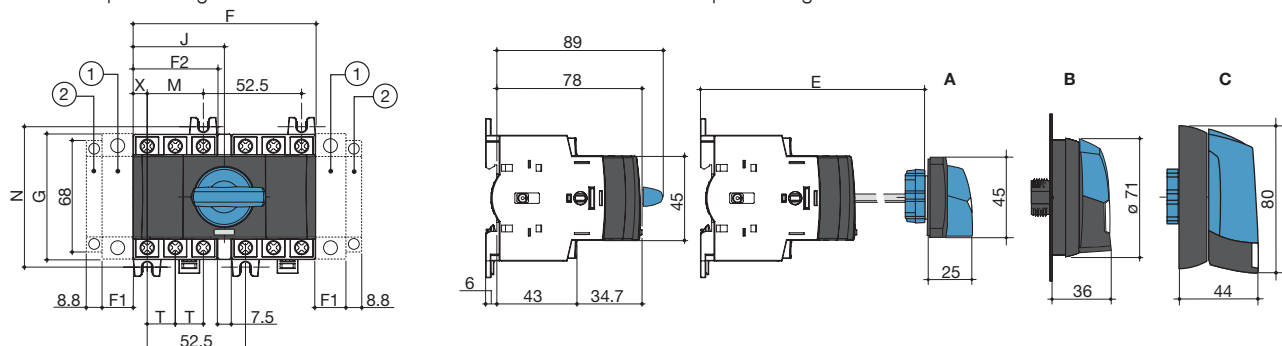
C. S00 handle

Rating (A) / Frame size	Perimeter dimensions				Terminal shroud	Case				Mounting accessory		Connection
	D min	D max	E min	E max		F	F1	G	J	M	N	
16 ... 40 / M1	30	235	100	372	110	45	15	68	15	30	75	15
63 ... 80 / M2	30	235	100	372	110	52.5	17.5	76	17.5	35	85	17.5

SIRCO M1 and M2 16 to 80 A (continued)

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

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



1. Location for: 1 switched fourth pole (1 per device max.) or 1 unswitched neutral pole or 1 protective earth pole or 1 auxiliary contact.
2. Location for 1 auxiliary contact only.

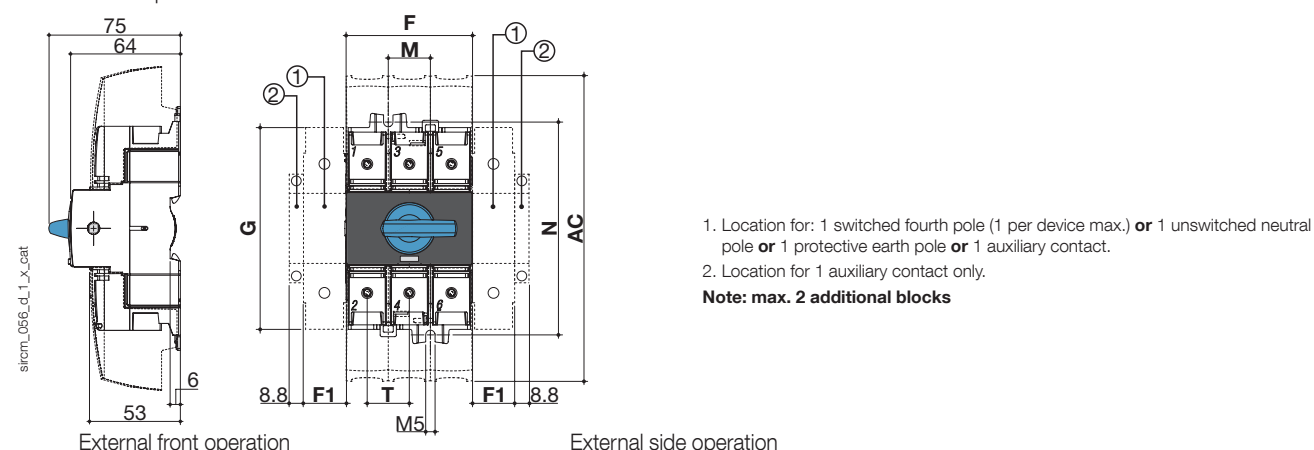
Note: max. 2 additional blocks

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

Rating (A) / Frame size	Perimeter dimensions		Case					Mounting accessory		Connection	
	E min	E max	F	F1	F2	G	J	M	N	T	X
16 ... 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

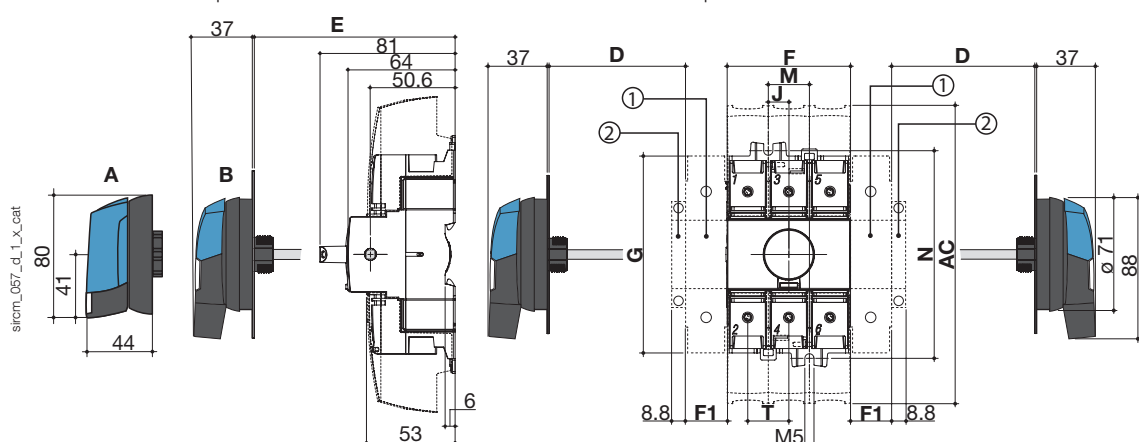
SIRCO M3 100 to 125 A

Direct operation with handle



1. Location for: 1 switched fourth pole (1 per device max.) or 1 unswitched neutral pole or 1 protective earth pole or 1 auxiliary contact.
2. Location for 1 auxiliary contact only.

Note: max. 2 additional blocks



1. Location for: 1 switched fourth pole (1 per device max.) or 1 unswitched neutral pole or 1 protective earth pole or 1 auxiliary contact.
2. Location for 1 auxiliary contact only.

Note: max. 2 additional blocks

- A. S01 handle
B. S00 handle

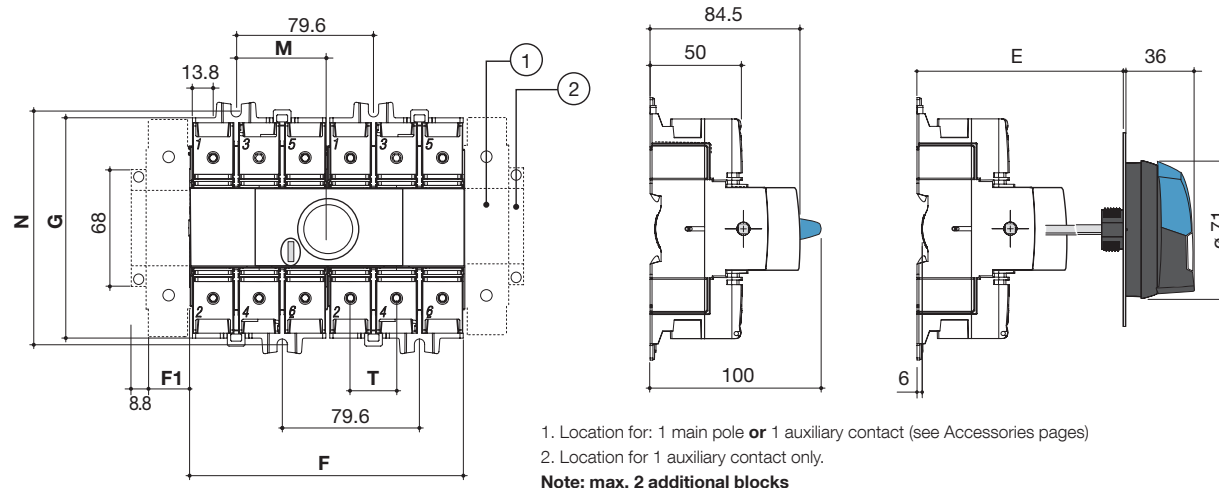
Rating (A) / Frame size	Perimeter dimensions				Terminal shroud AC	Case				Mounting accessory		Connection T
	D min	D max	E min	E max		F	F1	G	J	M	N	
100 ... 125 / M3	30	201	100	372	189	78	26	124.6	13	26	131.4	26

Dimensions (continued)

SIRCO M3 6/8 P and changeover switch M3 100 to 125 A

Direct front operation for 3/4 pole changeover switches

External front operation for 3/4 pole changeover switches

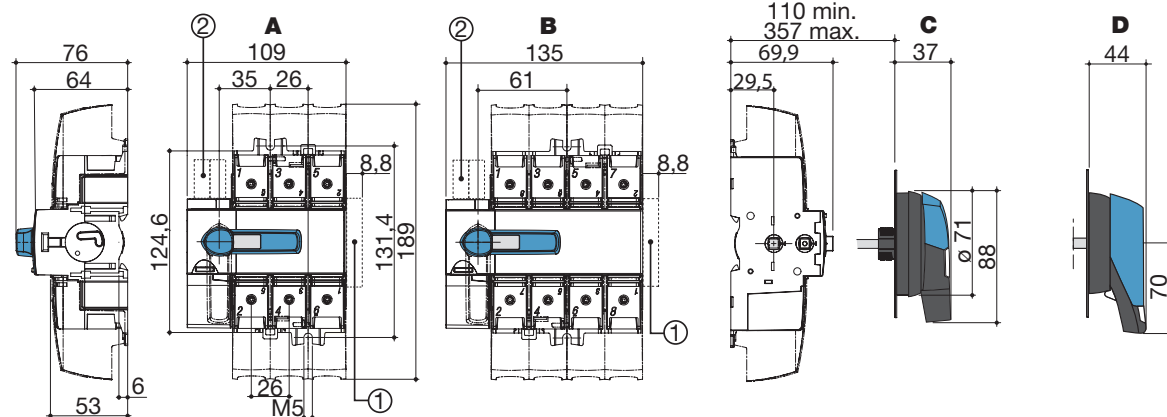


Rating (A) / Frame size	Perimeter dimensions		Case			Mounting accessory		Connection
	E min	E max	F	F1	G	M	N	
100 ... 125 / M3	105	372	159	26	124.5	52.8	131.5	26

SIRCO MV 100 to 160 A

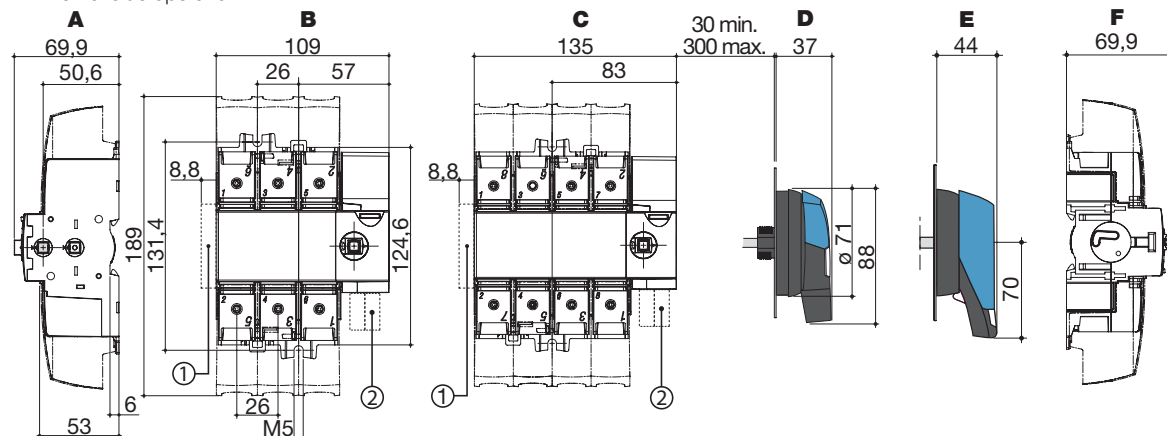
Direct front operation

External front operation



1. Maximum 4 M type auxiliary contacts
2. Maximum 2 U type auxiliary contacts

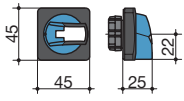
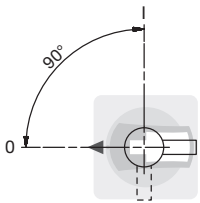
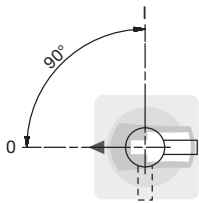
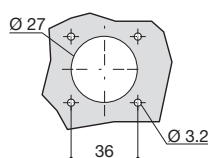
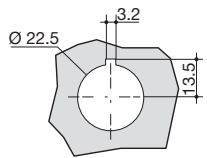
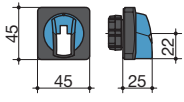
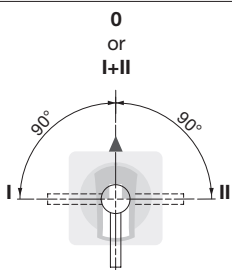
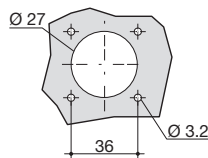
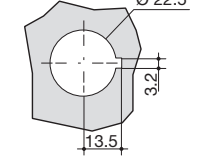
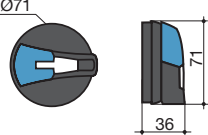
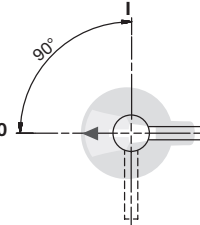
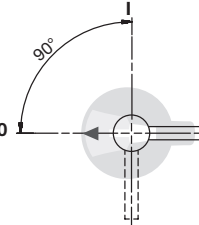
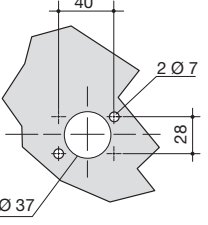
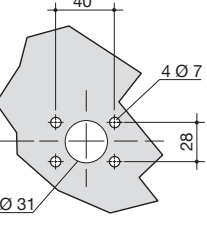
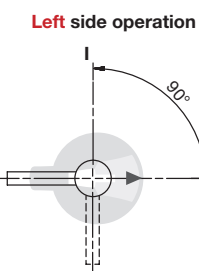
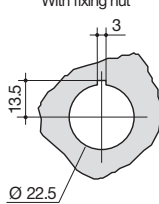
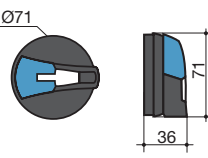
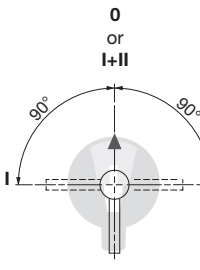
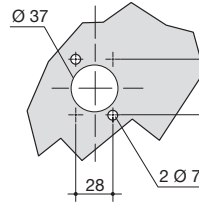
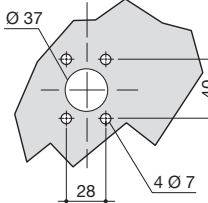
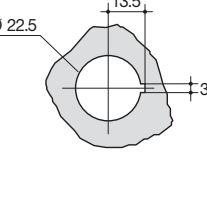
External side operation



1. Maximum 4 M type auxiliary contacts
2. Maximum 2 U type auxiliary contacts

Dimensions for external handles

SIRCO M1 and M2

Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling	
S000 type Load break switches 		Right side operation 	With 4 fixing screws 	With fixing nut 
Handle type	Front operation Direction of operation		Door drilling	
S000 type Transfer switches I-0-II and I - I+II - II 			With 4 fixing screws 	With fixing nut 
Handle type	Front operation Direction of operation	Side operation Direction of operation	Door drilling	
S00 type Load break switches 		Right side operation 	IP55 with 2 fixing clips 	IP65 with 4 fixing screws 
		Left side operation 	With fixing nut 	
Handle type	Front operation Direction of operation	Door drilling		
S00 type Transfer switches I-0-II and I - I+II - II 		IP55 with 2 fixing clips 	IP65 with 4 fixing screws 	With fixing nut 

polgn_016_a_1_gb_cat

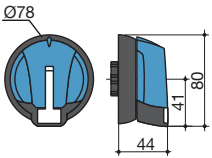
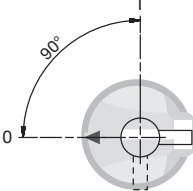
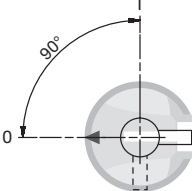
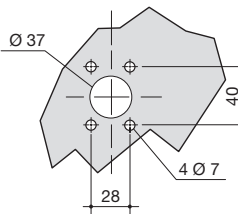
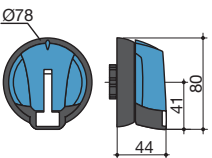
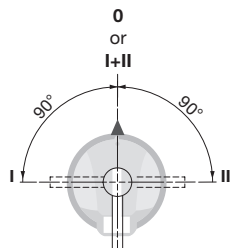
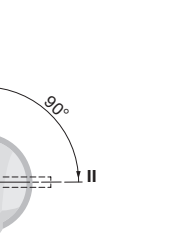
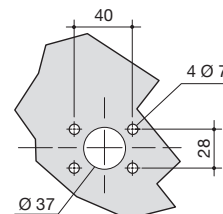
polgn_017_b_1_fr_cat

polgn_024_a_1_gb_cat

polgn_025_b_1_fr_cat

Dimensions for external handles

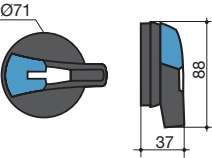
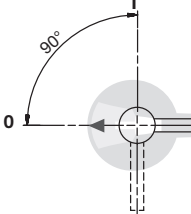
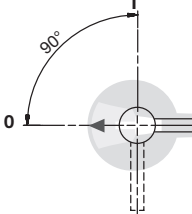
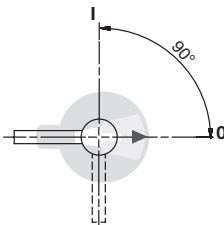
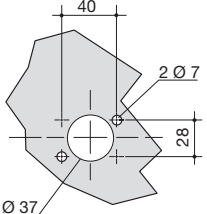
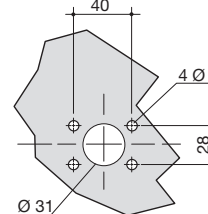
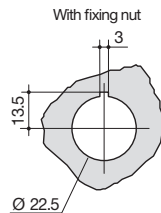
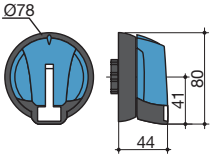
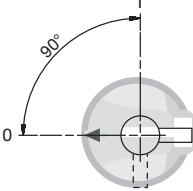
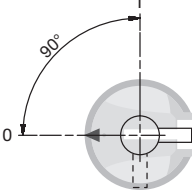
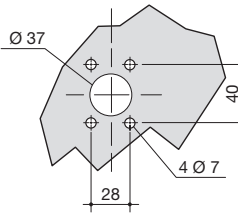
SIRCO M1 and M2 - 3/4 P and 6/8 P

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

poign_018_a_1_gb_cat

poign_019_b_1_fr_cat

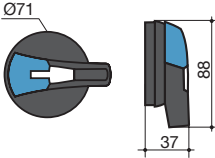
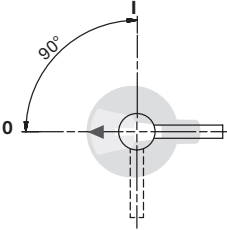
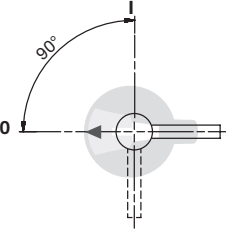
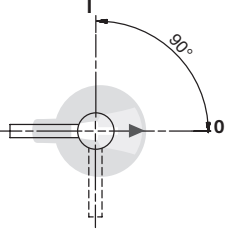
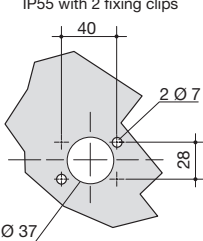
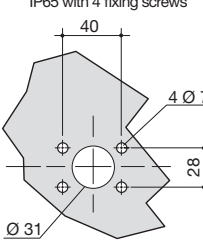
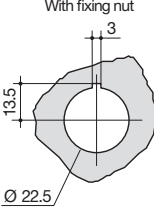
SIRCO M3

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 	Door drilling IP55 with 2 fixing clips  IP65 with 4 fixing screws  With fixing nut 
S01 type Load break switches 			Door drilling IP65 with 4 fixing screws 

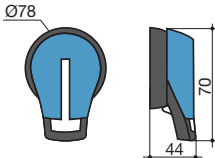
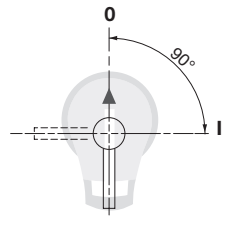
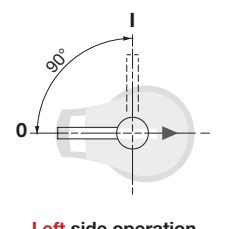
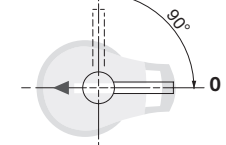
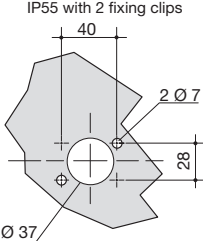
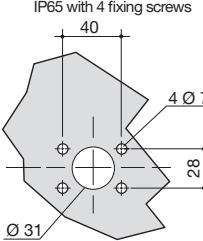
poign_026_a_1_gb_cat

poign_018_a_1_gb_cat

SIRCO MV

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 	

poign_026_a_1_gb_cat

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

poign_027_a_1_gb_cat