

Load break switch with fully visualised breaking from 125 to 5 000 A

➲ Function

SIRCO switches are manually operated or motorised multipolar load break switches. They make and break under load conditions and provide safety isolation for any low voltage circuit.

➲ General characteristics

- Fully visualised breaking.
- High thermal and dynamic withstand.
- Severe utilisation categories (AC-22 and AC-23).
- Good electrical and mechanical endurance.
- High resistance to humidity (supplied "tropicalised").

➲ Available on request

- Early break auxiliaries.
- SIRCO 9 and 12 poles up to 1600 A.
- 3 pole + neutral.
- Early break advanced neutral for networks charged with harmonics.
- Conducting neutral.
- Neutral earthing stud.

➲ Conformity to standards

- IEC 60947-3
- EN 60947-3
- VDE 0660-107 (1992)
- NBN EN 60947-3
- BS EN 60947-3
- Standards UL: see SIRCO UL

➲ Approvals and certifications(1)

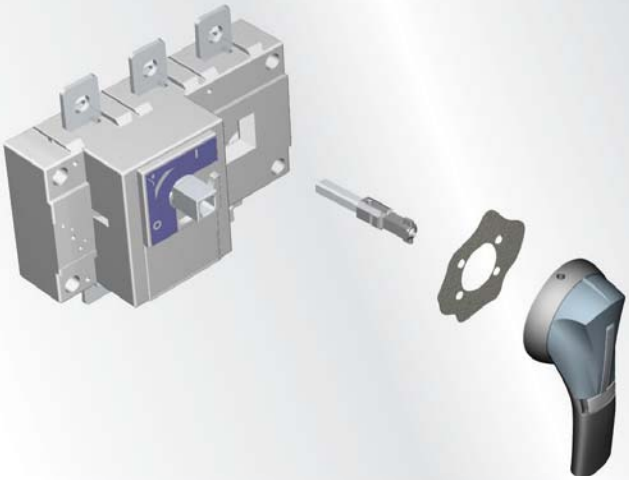
- CEBEC (Belgium)
- FI (Finland)
- ASEFA
- KEMA
- CCA
- GOST (Russia)
- BBJ Poland (Attestaion of verification)
- PSA E03.15.605.G
- RENAULT EB03.15.613
- RINA (Registre Naval Italien)

(1) Product reference on request.

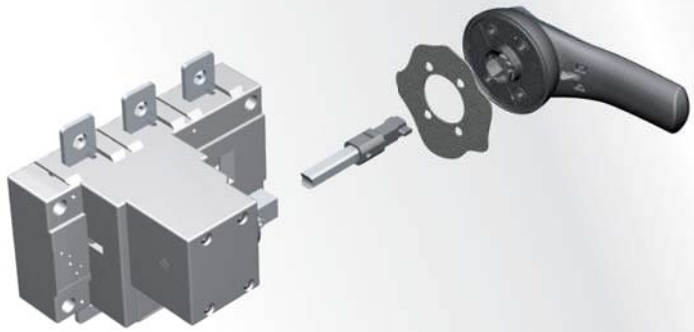
➲ What you need to know

- In front direct or external operation,
  SIRCO is available in 3 and 4-pole versions from 125 to 5000 A.

Can be ordered in 6 or 8 pole from 125 to 1600 A.
The switch can be enclosed in a polyester or sheet metal enclosure from 125 to 1250 A.


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- External right side operation,
  SIRCO is available in 3 and 4-pole versions from 125 to 1800 A.

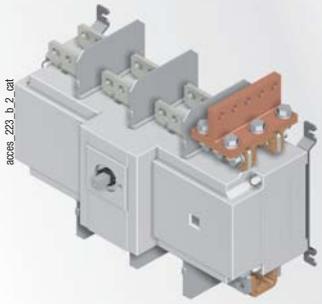

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- For rating 2000, 2500 and 3200A, a connection kit for copper bars allows the connection between the 2 connection terminals of one pole.

Flat connection
Top or bottom


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Edgewise connection
Top or bottom


acces_223_b_2_cat



➲ SIRCO - References



Front operation - 3 & 4 pole

Rating (A)	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contacts	Terminal shrouds	Terminal screens
125 A	3 P	2600 **3014**(1)	Black 2699 **5042**(2) Red 2699 **5043**	Type S2 Black IP55 1421 **2111**(2) Black IP65 1423 **2111** Red IP65 1424 **2111**	200 mm 1400 **1020** 320 mm 1400 **1032**(2) 500 mm 1400 **1050**	1st contact NO/NC 2699 **0031** 2nd contact NO/NC 2699 **0032**	3 P 2694 **3014** 4 P 2694 **4014**	3 P 2698 **3012**(3) 4 P 2698 **4012**(3)
	4 P	2600 **4014**(1)						
160 A	3 P	2600 **3017**(1)						
	4 P	2600 **4017**(1)						
200 A	3 P	2600 **3021**	Black 2699 **5052**(2) Red 2699 **5053**				3 P 2694 **3021** 4 P 2694 **4021**	3 P 2698 **3020**(3) 4 P 2698 **4020**(3)
	4 P	2600 **4021**						
250 A	3 P	2600 **3026**(1)						
	4 P	2600 **4026**(1)						
315 A	3 P	2600 **3032**					3 P 2694 **3051**(3) 4 P 2694 **4051**(3)	3 P 2698 **3050**(3) 4 P 2698 **4050**(3)
	4 P	2600 **4032**						
400 A	3 P	2600 **3041**(1)						
	4 P	2600 **4041**(1)						
500 A	3 P	2600 **3051**(1)						
	4 P	2600 **4051**(1)						
630 A	3 P	2600 **3064**(1)						
	4 P	2600 **4064**(1)						
800 A	3 P	2600 **3081**(1)	Black 2799 **7012**(2) Red 2799 **7013**	Type S4 Black IP65 1443 **3111**(2) Red/Yellow IP65 1444 **3111**	200 mm 1401 **1520** 320 mm 1401 **1532**(2) 400 mm 1401 **1540**			3 P 2698 **3080**(3) 4 P 2698 **4080**(3)
	4 P	2600 **4081**(1)						
1 000 A	3 P	2600 **3099**(1)						
	4 P	2600 **4099**(1)						
CD 1 250 A	3 P	2600 **3119**						
	4 P	2600 **4119**						
1 250 A	3 P	2600 **3121**(1)						3 P 2698 **3120**(3) 4 P 2698 **4120**(3)
	4 P	2600 **4121**(1)						
1 600 A	3 P	2600 **3161**						
	4 P	2600 **4161**						
1 800 A	3 P	2600 **3181**						
	4 P	2600 **4181**						
2 000 A	3 P	2600 **3200**		Black IP65 2799 **7136**(2) Red IP65 2799 **7134**	200 mm 2799 **3015** 320 mm 2799 **3018**(2)			3 P 2698 **3200** 4 P 2698 **4200**
	4 P	2600 **4200**						
2 500 A	3 P	2600 **3250**						
	4 P	2600 **4250**						
3 200 A	3 P	2600 **3320**						
	4 P	2600 **4320**						
4 000 A	3 P	2600 **3401**	Black 2799 **7072**(2)	Black IP65 2799 **7155**(2)		1st/2nd contact NO/NC included		consult us
	4 P	2600 **4401**						
5 000 A	3 P	2600 **3500**						
	4 P	2600 **4500**						

(1) Available enclosed (see page 493 "Enclosed load break switches").
(2) Standard.
(3) Top/bottom.


sirco_188_a_2_cat

Front operation - 6 & 8 pole

Rating (A)	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contacts	Terminal shrouds	Terminal screens
125 A	6 P	2601 **6013**	Black 4199 **5012**(1)	Type S2 Black IP55 1421 **2111**(1) Red IP65 1424 **2111**	200 mm 1400 **1020** 320 mm 1400 **1032**(1)	1st contact NO/NC 2699 **0061** 2nd contact NO/NC 2699 **0062**	6 P 2694 **3014**(2)(3) 8 P 2694 **4014**(2)(3)	6 P 1509 **3012**(4) 8 P 1509 **4012**(4)
	8 P	2601 **8013**						
160 A	6 P	2601 **6016**						
	8 P	2601 **8016**						
250 A	6 P	2601 **6025**	Black 2799 **7052**(1) Red 2799 **7053**	Type S4 Black IP65 1443 **3111**(1) Red/Yellow IP65 1444 **3111**	200 mm 1401 **1520** 320 mm 1401 **1532**(1)		2694 **3021**(2)(3)	1509 **3025**(4)
	8 P	2601 **8025**					2694 **4021**(2)(3)	1509 **4025**(4)
400 A	6 P	2601 **6040**					6 P 2694 **3051**(2)(3) 8 P 2694 **4051**(2)(3)	6 P 1509 **3063**(4) 8 P 1509 **4063**(4)
	8 P	2601 **8040**						
630 A	6 P	2601 **6063**						
	8 P	2601 **8063**						
800 A	6 P	2601 **6080**	Black 2799 **7012**(1) Red 2799 **7013**	Black IP65 2799 **7145**	320 mm 2799 **3018**			6 P 1509 **3080**(5) 8 P 1509 **4080**(5)
	8 P	2601 **8080**						
1 000 A	6 P	2601 **6100**						
	8 P	2601 **8100**						
1 250 A	6 P	2601 **6120**						
	8 P	2601 **8120**						
1 600 A	6 P	2601 **6160**						1509 **3160**(5)
	8 P	2601 **8160**						1509 **4160**(5)

(1) Standard.
(2) Top/bottom.
(3) Select 2 sets for front or rear.
(4) 2 pieces: one for top side and another for bottom side.
(5) Top or bottom.


sirco_333_a_1_cat

External right side operation

Rating (A)	No. of poles	Switch body	External handle	Shaft for external handle	Auxiliary contacts	Terminal shrouds	Terminal screens
125 A	3 P	2605 **3014**	Type S2 Black IP55 1425 **2111**(1) Black IP65 1427 **2111** Red/Yellow IP65 1428 **2111**	200 mm 1400 **1020** 250 mm 1400 **1025** 320 mm 1400 **1032**(1)	1st contact NO/NC 2699 **0031** 2nd contact NO/NC 2699 **0032**	3 P 2694 **3014**(2) 4 P 2694 **4014**(2)	3 P 2698 **3012**(2) 4 P 2698 **4012**(2)
	4 P	2605 **4014**					
160 A	3 P	2605 **3017**					
	4 P	2605 **4017**					
200 A	3 P	2605 **3021**				3 P 2694 **3021**(2) 4 P 2694 **4021**(2)	3 P 2698 **3020**(2) 4 P 2698 **4020**(2)
	4 P	2605 **4021**					
250 A	3 P	2605 **3026**					
	4 P	2605 **4026**					
315 A	3 P	2605 **3032**				3 P 2694 **3051**(2) 4 P 2694 **4051**(2)	3 P 2698 **3050**(2) 4 P 2698 **4050**(2)
	4 P	2605 **4032**					
400 A	3 P	2605 **3041**					
	4 P	2605 **4041**					
500 A	3 P	2605 **3051**					
	4 P	2605 **4051**					
630 A	3 P	2605 **3064**					
	4 P	2605 **4064**					
800 A	3 P	2605 **3081**	Type S3 Black IP65 1437 **3111**(1) Red/Yellow IP65 1438 **3111**	200 mm 1401 **1520** 320 mm 1401 **1532**(1)			3 P 2698 **3080**(2) 4 P 2698 **4080**(2)
	4 P	2605 **4081**					
CD 1 250 A	3 P	2605 **3119**					
	4 P	2605 **4119**					
1 800 A	3 P	2605 **3181**					2698 **3120**(2)
	4 P	2605 **4181**					2698 **4120**(2)

(1) Standard.
(2) Top/bottom.

Accessories

Direct operation handle



Rating (A)	No. of poles	Handle colour	Reference
125 … 160	3/4 P	Black	2699 **5042**
125 … 160	6/8 P	Black	4199 **5012**
125 … 160	3/4 P	Red	2699 **5043**
200 ... 630	3/4 P	Black	2699 **5052**
200 ... 630	3/4 P	Red	2699 **5053**
250 … 630	6/8 P	Black	2799 **7052**
250 … 630	6/8 P	Red	2799 **7053**
800 … 3 200	3/4 P	Black	2799 **7012**
800 … 3 200	3/4 P	Red	2799 **7013**
800 … 1 600	6/8 P	Black	2799 **7012**
800 … 1 600	6/8 P	Red	2799 **7013**
4 000 ... 5 000	3/4 P	Black	2799 **7072**

External operation handle



S2 type handle



S3 type handle



S4 type handle

Use
The door interlocked external operation handle includes one padlockable handle, one escutcheon and must be utilised with an extension shaft.

Front operation

Rating (A)	No. of poles	Handle	Handle colour	External IP (1)	Reference
125 ... 630	3/4 P	S2 type	Black	IP55	1421 **2111**
125 … 630	3/4 P	S2 type	Black	IP65	1423 **2111**
125 … 630	3/4 P	S2 type	Red/Yellow	IP65	1424 **2111**
125 … 160	6/8 P	S2 type	Black	IP55	1421 **2111**
125 … 160	6/8 P	S2 type	Black	IP65	1423 **2111**
125 … 160	6/8 P	S2 type	Red/Yellow	IP65	1424 **2111**
250 ... 630	6/8 P	S4 type	Black	IP65	1443 **3111**
250 ... 630	6/8 P	S4 type	Red/Yellow	IP65	1434 **3111**
800 ... 1600	6/8 P		Black	IP65	2799 **7145**
800 … 1 800	3/4 P	S4 type	Black	IP65	1443 **3111**
800 … 1 800	3/4 P	S4 type	Red/Yellow	IP65	1444 **3111**
2 000 … 3200	3/4 P		Black	IP65	2799 **7136**(2)
2 000 … 3 200	3/4 P		Red	IP65	2799 **7134**
4 000 ... 5 000	3/4 P		Black	IP65	2799 **7155**(2)

(1) IP: Degree of protection according to standard IEC 60529.
(2) Standard.

External right side operation

Rating (A)	No. of poles	Handle	Handle colour	External IP (1)	Reference
125 ... 630	3/4 P	S2 type	Black	IP55	1425 **2111**(2)
125 … 630	3/4 P	S2 type	Black	IP65	1427 **2111**
125 … 630	3/4 P	S2 type	Red/Yellow	IP65	1428 **2111**
800 ... 1 800	3/4 P	S3 type	Black	IP65	1437 **3111**(2)
800 ... 1 800	3/4 P	S3 type	Red/Yellow	IP65	1438 **3111**

(1) IP: Degree of protection according to standard IEC 60529.
(2) Standard.

Alternative S type handle cover colors



Use
For single lever handles type S1, S2, S3 and double lever handle, type S4.
Other colours: consult us.

Handle colour	To be ordered in multiples of	Handle	Reference
Light grey	50	Type S1, S2	1401 **0001**
Dark grey	50	Type S1, S2	1401 **0011**
Light grey	50	S4 type	1401 **0031**
Dark grey	50	S4 type	1401 **0041**

S type handle adapter


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Use
Enables S type handles to be fitted in place of existing older style Socomec handles. Adapter can also be utilised as a spacer to increase the distance between the panel door and the handle lever.

Dimensions
Adds 12 mm to the depth.

Handle colour	To be ordered in multiples of	External IP (1)	Reference
Black	10	IP65	1493 **0000**

(1) IP: Degree of protection according to standard IEC 60529.

Shaft guide for external operation


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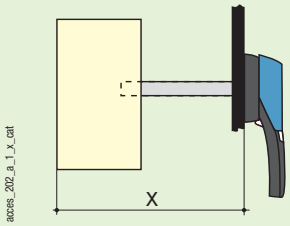
Use
To guide the shaft extension into the external handle.
This accessory enables handle to engage extension shaft with a misalignment of up to 15 mm.
Required for a shaft length over 320 mm.

Description	Reference
Shaft guide	1429 **0000**

Shaft for external handle


acces_143_b_1_cat


acces_144_b_1_cat



acces_202_a_1_x_cat

For 3/4 pole

Rating (A)	Dimension X (mm)	Shaft length (mm)	Reference
125 … 160	125 ... 250	200 mm	1400 **1020**
125 … 160	125 … 300	250 mm	1400 **1025**
125 … 160	125 … 370	320 mm	1400 **1032**
125 … 160	125 ... 550	500 mm	1400 **1050**
125 … 160	125 ... 850	750 mm	1400 **1075**
200 … 250	135 … 265	200 mm	1400 **1020**
200 … 250	135 … 315	250 mm	1400 **1025**
200 … 250	135 … 385	320 mm	1400 **1032**
200 … 250	135 … 565	500 mm	1400 **1050**
200 … 250	135 … 880	750 mm	1400 **1075**
315… 630	165 … 295	200 mm	1400 **1020**
315… 630	165 … 345	250 mm	1400 **1025**
315… 630	165 … 415	320 mm	1400 **1032**
315… 630	165 … 595	500 mm	1400 **1050**
315… 630	165 … 940	750 mm	1400 **1075**
800 ... 1800	221 … 343	200 mm	1401 **1520**
800 … 1 800	221 … 463	320 mm	1401 **1532**
800 … 1 800	221 … 543	400 mm	1401 **1540**
2000 … 3 200	415 … 570	200 mm	2799 **3015**
2000 … 3 200	415 … 690	320 mm	2799 **3018**
2000 … 3 200	415 … 820	450 mm	2799 **3019**
4 000 ... 5 000	550 … 680	200 mm	2799 **3015**
4 000 ... 5 000	651 … 921	320 mm	2799 **3018**

For 6/8 pole

Rating (A)	Dimension X (mm)	Shaft length (mm)	Reference
125 … 160	270 … 436	200 mm	1400 **1020**
125 … 160	270 … 556	320 mm	1400 **1032**
250 ... 630	221 … 308	200 mm	1401 **1520**
250 ... 630	221 … 428	320 mm	1401 **1532**
250 ... 630	221 … 508	400 mm	1401 **1540**
800 ... 1600	651 … 921	320 mm	2799 **3018**

Use
Standard lengths:
- 200 mm
- 250 mm
- 300 mm
- 400 mm
- 500 mm
- 750 mm

Other lengths: consult us.

Door mounting kit

Use
Kit enables door mounting for the SIRCO.

For 3/4 pole direct front operation

Rating (A)	No. of poles	Reference
125 ... 160	3 P	2699 **3312**
125 ... 160	4 P	2699 **4312**
200 ... 250	3 P	2699 **3420**
200 ... 250	4 P	2699 **4420**

Auxiliary contacts


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acces_065_a_1_cat

Use
Pre-break and signalling of positions 0 and I:
- 1 to 2 NO/NC auxiliary contacts,
- 1 to 4 NO + NC auxiliary contacts,
- 1 to 2 low level NO/NC auxiliary contacts..

Characteristics
NO/NC AC: IP2 with front and side operation.

Connection to the control circuit
By 6.35 mm fast-on terminal.

Electrical characteristics
30 000 operations.

References

NO/NC contact for 3/4 pole

Rating (A)	Position AC	Reference
125 … 3 200	1st	2699 **0031**
125 … 3 200	2nd	2699 **0032**
4 000 ... 5 000	1st/2nd	included

NO/NC contact for 6/8 pole

Rating (A)	Position AC	Reference
125 … 1600	1st	2699 **0061**
125 … 1600	2nd	2699 **0062**

NO+NC contact for 3/4 pole

Rating (A)	Position AC	Reference
125 … 3 200	1st	2699 **0141**
125 … 3 200	2nd	2699 **0142**

Low level NO/NC contact for 3/4 pole

Rating (A)	Position AC	Reference
100 … 3 200	1st	2699 **0301**
100 … 3 200	2nd	2699 **0302**

Characteristics

Rating (A)	Contact type	Current nominal (A)	Operating current I_e (A) 230 VAC AC-12	AC-13/15	400 VAC AC-12	AC-13/15	24 VDC DC-12	DC-13	DC-14	48 VDC DC-12	DC-13	DC-14
125 … 4 000	NO/NC	16	16	4	12	3	2.5	2.5	1	2.5	1.2	0.2
125 … 3 200	NO + NC	16	16	4	16	3	16	5	1	2.5	1.2	0.2

Terminal shrouds

Use
Top or bottom protection against direct contact with terminals or connection parts.

Advantage
Perforations allowing remote thermographic inspection without removal.
The terminal shrouds also provide phase separation for SIRCOs from 125 to 630 A.


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For 3/4 pole (1)

Rating (A)	No. of poles	Position	Reference
125 … 160	3 P	top or bottom	2694 **3014**(2)
125 … 160	4 P	top or bottom	2694 **4014**(3)
200 … 250	3 P	top or bottom	2694 **3021**(2)
200 … 250	4 P	top or bottom	2694 **4021**(3)
315 … 630	3 P	top or bottom	2694 **3051**(2)
315 … 630	4 P	top or bottom	2694 **4051**(3)

(1) 2 sets required to shroud top and bottom terminals on 3/4 pole switch.
(2) Reference composed of 3 pieces.
(3) Reference composed of 4 pieces.

For 6/8 pole (1)

Rating (A)	No. of poles	Position	Reference
125 … 160	6 P	top / bottom	2694 **3014**
125 … 160	8 P	top / bottom	2694 **4014**
250	6 P	top / bottom	2694 **3021**
250	8 P	top / bottom	2694 **4021**
400 … 630	6 P	top / bottom	2694 **3051**
400 … 630	8 P	top / bottom	2694 **4051**

(1) 4 sets required to shroud top and bottom terminals on 6/8 pole switch.

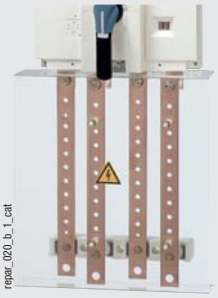
Shrouded distribution block


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Use
Easy connection of several cables, can be clipped onto a symmetric DIN rail.

Rating (A)	No. of poles	No. of connections by section (mm²)	Reference
125	3/4 P	2x25 + 7x10	5420 **4108**
125	3/4 P	2x25 + 2x16 + 9x10	5420 **4112**
160	3/4 P	13x25 + 8x16 + x10	5420 **4016**

Bottom distribution kit


repar_020_b_1_cat

Use
Easy connection of several cables, downstream mounting of the SIRCO.

Rating (A)	No. of poles	No. of connections by section (mm²)	Reference
125 ... 160	3 P	1 x 95 + 8 x 25	5411 **3016**
125 ... 160	4 P	1 x 95 + 8 x 25	5411 **4016**
200 ... 250	3 P	1 x 150 + 8 x 50	5411 **3025**
200 ... 250	4 P	1 x 150 + 8 x 50	5411 **4025**
315 ... 400	3 P	1 x 240 + 8 x 95	5411 **3040**
315 ... 400	4 P	1 x 240 + 8 x 95	5411 **4040**
500 … 630	3 P	1 x 300 + 8 x 150	5411 **3063**
500 … 630	4 P	1 x 300 + 8 x 150	5411 **4063**

Terminal screens

Use
Top or bottom protection against direct contact with terminals or connection parts.


acces_079_a_1_cat

For 3/4 pole

Rating (A)	No. of poles	Position	Reference
125 ... 160	3 P	top / bottom	2698 **3012**
125 ... 160	4 P	top / bottom	2698 **4012**
200 ... 250	3 P	top / bottom	2698 **3020**
200 ... 250	4 P	top / bottom	2698 **4020**
315 ... 630	3 P	top / bottom	2698 **3050**
315 ... 630	4 P	top / bottom	2698 **4050**
800 … CD 1 250	3 P	top / bottom	2698 **3080**
800 … CD 1 250	4 P	top / bottom	2698 **4080**
1 250 … 1 800	3 P	top / bottom	2698 **3120**
1 250 … 1 800	4 P	top / bottom	2698 **4120**
2 000 … 3200	3 P	top / bottom	2698 **3200**
2 000 … 3200	4 P	top / bottom	2698 **4200**
4 000 ... 5 000	3/4 P	top / bottom	consult us

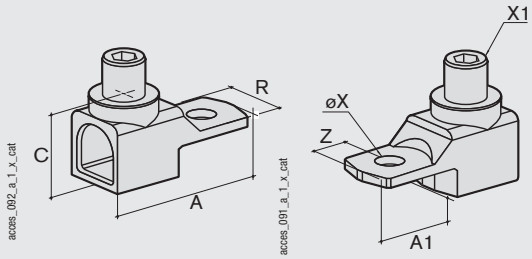
For 6/8 pole

Rating (A)	No. of poles	Position	Pack	Reference
125 … 160	6 P	top / bottom	1	1509 **3012**
125 … 160	8 P	top / bottom	1	1509 **4012**
250	6 P	top / bottom	1	1509 **3025**
250	8 P	top / bottom	1	1509 **4025**
400 … 630	6 P	top / bottom	2	1509 **3063**
400 … 630	8 P	top / bottom	2	1509 **4063**
800 … 1 250	6 P	top / bottom	2	1509 **3080**
800 … 1 250	8 P	top / bottom	2	1509 **4080**
1 600	6 P	top / bottom	2	1509 **3160**
1 600	8 P	top / bottom	2	1509 **4160**

Cage terminals

Use

Connection of bare copper cables onto the terminals (without lugs).





References

Rating (A)	No. of poles	Reference
125 … 160	3 P	5400 **3016**
125 … 160	4 P	5400 **4016**
200 … 250	3 P	5400 **3025**
200 … 250	4 P	5400 **4025**
315 … 400	3 P	5400 **3040**
315 … 400	4 P	5400 **4040**
500 … 630	3 P	5400 **3063**
500 … 630	4 P	5400 **4063**

Connections

Rating (A)	Section flexible cable (mm^2)	Section rigid cable (mm^2)	Width flexible bar (mm)	Stripped over (mm)
125 … 160	16 … 95	16 … 95	13	22
200 … 250	16 … 185	16 … 185	18	27
315 … 400	50 … 240	50 … 300	20	34
500 … 630	70 … 300	70 … 300	24	34

Dimensions

Rating (A)	A	A1	C	R	ØX	X1	Z
125 … 160	47.5	22.5	25	20	8.5	M12	10
200 … 250	62	31.5	31.5	25	10.5	M16	14
315 … 400	71.5	32	38	32	10.5	M20	15
500 … 630	76.5	37	38	40	12.5	M20	15

Copper bars connection kits

Fig. 1

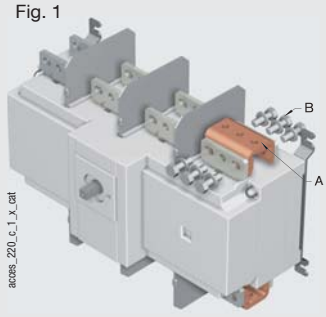
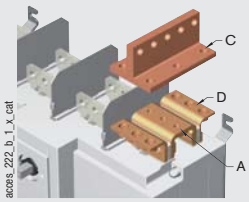


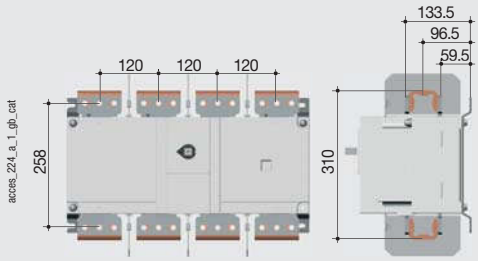
Fig.2



Use

To allow connection between the two power terminals from a same pole for 2000 to 3200 A ratings (Fig. 1 and Fig 2).
For 3200 A rating, the connection piece (part A) are delivered bridged from factory.
Bolt sets must be ordered separately.
Technical notice for these specific accessories is downloadable from www.socomec.com.

Fig. 1

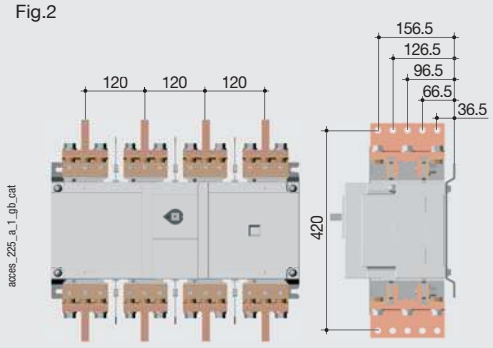


Top or bottom flat connection - Fig. 1

Rating (A)	Piece	Quantity to order per pole(1)	Reference
2 000 … 2 500	Connection - part A	1	2619 **1200**
2 000 … 2 500	Bolt set - part B	1	2699 **1200**
3 200	Connection - part A		included
3 200	Bolt set - part B	1	2699 **1200**

(1) Example for 3 pole device equipped upstream only: order 3 times the indicated quantities.

Fig.2



Top or bottom edgewise connection - Fig. 2

Rating (A)	Piece	Quantity to order per pole(1)	Reference
2 000 … 2 500	Connection - part A	1	2619 **1200**
2 000 … 2 500	T piece - part C	1	2629 **1200**(2)
2 000 … 2 500	Right angle - part D	1	2639 **1200**(2)
3 200	Connection - part A		included
3 200	T piece - part C	1	2629 **1200**
3 200	Right angle - part D	1	2639 **1200**

(1) Example for 3 pole device equipped upstream only: order 3 times the indicated quantities.
(2) Bolt set is provided with the accessories.

Inter phase barrier


acces_036_a_1_cat

Use

Safety isolation between the terminals, essential for use at 690 VAC or in a polluted or dusty atmosphere.
The terminal shrouds also provide phase separation for SIRCOs from 125 to 630 A.

Rating (A)	No. of poles	Reference
125 ... 160	3 P	2998 **0033**
125 ... 160	4 P	2998 **0034**
200 ... 250	3 P	2998 **0023**
200 ... 250	4 P	2998 **0024**
315 ... 630	3 P	2998 **0013**
315 ... 630	4 P	2998 **0014**
800 … 3 200	3/4 P	included
4 000 ... 5 000	3/4 P	included

Handle key interlocking accessories

Fig. 1

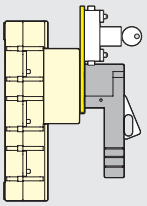

acces_001_a_1_x_cat

Fig.2

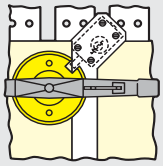

acces_005_a_1_x_cat

Fig. 3

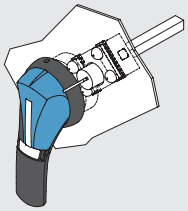
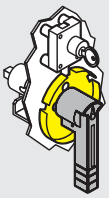

acces_158_a_1_x_cat

Fig. 5


acces_004_c_1_x_cat

Use

Locking in position 0 of the front or side operation handle:
- using a lock (not supplied) and the factory integrated padlocking function of the handle. From 125 to 1800 A, the padlock on the external front operation handle also locks the door,
- using padlock (not supplied): see diagrams opposite,
- using undervoltage coil: the SIRCO can only be closed if the coil is live.

For 6/8 pole: consult us.

Locking using RONIS EL11AP lock (not supplied)

Rating (A)	No. of poles	Operation	Figure	Reference
125 ... 630	3/4 P	front direct	1	2699 **6008**(1)
125 … 1 800	3/4 P	external front	3	1499 **7701**
800 ... 3200	3/4 P	front direct	2	2699 **6027**
4 000 ... 5 000	3/4 P	external front	4	2799 **7002**

(1) Front operation handle included.

Locking using CASTELL lock (not supplied)

Rating (A)	No. of poles	Operation	Lock type	Figure	Reference
125 … 160	6/8 P	external front	K	2	4109 **8507**
125 … 1 800	3/4 P	external front	FS	3	1499 **7703**
125 … 1 800	3/4 P	external front	K	3	1499 **7702**
250 ... 630	6/8 P	external front	K	2	2999 **8707**
800 … 1600	6/8 P	external front	K	2	2799 **7003**
2000 … 4000	3/4 P	external front	K	2	2799 **7003**

Locking using 230 VAC undervoltage coil
(other voltages: please consult us)

Rating (A)	No. of poles	Operation	Reference
125 ... 630	3/4 P	external front	2699 **9063**(1)
800 … 3 200	3/4 P	front direct	2699 **9315**(1)

(1) The locking system is directly mounted on the device.

Other specific accessories


bd_02_04_01

- Mechanical coupling device for making switches with "n" poles of the same or different ratings.
- Mechanical interlocking device.

➲ Characteristics according to IEC 60947-3

125 to 800 A

Thermal current I_{th} (40°C)		**125 A**	**160 A**	**200 A**	**250 A**	**315 A**	**400 A**	**500 A**	**630 A**	**800 A**
Rated insulation voltage U_i (V)		800	800	800	800	1 000	1 000	1 000	1 000	1 000
Rated impulse withstand voltage U_{imp} (kV)		8	8	8	8	12	12	12	12	12
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)
400 VAC	AC-21 A / AC-21 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630	800/800
400 VAC	AC-22 A / AC-22 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630	800/800
400 VAC	AC-23 A / AC-23 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	500/500	800/800
500 VAC	AC-21 A / AC-21 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630	800/800
500 VAC	AC-22 A / AC-22 B	125/125	125/125	200/200	250/250	315/315	400/400	400/400	500/500	800/800
500 VAC	AC-23 A / AC-23 B	100/100	100/100	160/200	200/250	315/315	315/315	315/315	315/315	630/800
690 VAC(2)	AC-20 A / AC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630	800/800
690 VAC(2)	AC-21 A / AC-21 B	125/125	160/160	160/200	200/250	315/315	400/400	400/400	500/500	800/800
690 VAC(2)	AC-22 A / AC-22 B	125/125	125/125	125/160	125/160	250/315	250/315	250/315	315/315	800/800
690 VAC(2)	AC-23 A / AC-23 B	63/80	63/80	80/100	100/125	160/200	160/200	160/200	160/200	200/250
220 VDC	DC-20 A / DC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630	800/800
220 VDC	DC-21 A / DC-21 B	125/125	160/160	160/200	250/250	315/315	400/400	500/500	630/630	800/800
220 VDC	DC-22 A / DC-22 B	125/125	160/160	160/200	250/250	315/315	400/400	400/500	500/500	800/800
220 VDC	DC-23 A / DC-23 B	125/125	125/125	160/160	200/200	315/315	400/400	400/400	500/500	800/800
440 VDC	DC-20 A / DC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630	800/800
440 VDC	DC-21 A / DC-21 B	125/125(3)	160/160(3)	160/200(3)	200/200(3)	315/315(3)	400/400(3)	400/500(3)	500/500(3)	800/800(4)
440 VDC	DC-22 A / DC-22 B	125/125(3)	125/125(3)	160/160(3)	200/200(3)	315/315(3)	400/400(3)	400/400(3)	500/500(3)	800/800(4)
440 VDC	DC-23 A / DC-23 B	125/125(4)	125/125(4)	160/160(4)	200/200(4)	315/315(4)	400/400(4)	400/400(4)	500/500(4)	800/800(4)
500 VDC	DC-20 A / DC-20 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630	800/800
500 VDC	DC-21 A / DC-21 B	125/125(3)	125/125(3)	160/200(3)	200/200(3)	315/315(3)	400/400(3)	400/400(3)	500/500(3)	800/800(4)
500 VDC	DC-22 A / DC-22 B	125/125(4)	125/125(4)	160/160(4)	200/200(4)	315/315(4)	315/400(4)	315/400(4)	500/500(4)	800/800(4)
500 VDC	DC-23 A / DC-23 B	125/125(4)	125/125(4)	160/160(4)	200/200(4)	315/315(4)	315/400(4)	315/400(4)	500/500(4)	800/800(4)
Operational power in AC-23 (kW)										
At 400 VAC without pre-break in AC(1)(5)		63/63	80/80	100/100	132/132	160/160	220/220	280/280	280/280	450/450
At 500 VAC without pre-break in AC(1)(5)		63/63	63/63	110/140	140/160	220/220	220/220	220/220	220/220	450/560
At 690 VAC without pre-break in AC(1)(5)		55/75	55/75	75/90	90/110	150/185	150/185	150/185	150/185	185/220
Reactive power (kvar)										
At 400 VAC (kvar)(5)		55	75	90	115	145	185	230	290	365
Fuse protected short-circuit withstand (kA rms prospective)										
Prospective short-circuit (kA rms)(6)		100	100	80	50	100	100	100	70	50
Associated fuse rating (A)(6)		125	160	200	250	315	400	500	630	800
Short-circuit capacity										
Rated short-time withstand current 0.3 s. I_{cw} (kA eff.)		15	15	17	17	25	25	25	25	50
Rated peak withstand current (kA peak)(6)		20	20	30	30	45	45	45	45	55
Connection										
Min. connection wire range		35	50	70	95	150	185	240	2 x 150	2 x 185
Minimum Cu busbar section (mm^2)									2 x 30 x 5	2 x 40 x 5
Maximum Cu cable section (mm^2)		50	95	95	150	240	240	240	2 x 300	2 x 300
Maximum Cu busbar width (mm)		25	25	32	32	40	40	40	50	63
Tightening torque min (Nm)		9	9	20	20	20	20	20	20	
Mechanical characteristics										
Durability (number of operating cycles)		10 000	10 000	10 000	10 000	5 000	5 000	5 000	5 000	3 000
Operating effort (Nm)		6.5	6.5	10	10	14.5	14.5	14.5	14.5	37
Weight of a 3 pole device (kg)		1	1.5	2	2	3.5	3.5	3.5	3.5	8
Weight of a 4 pole device (kg)		1.5	1.5	2	2	4	4	4.5	4.5	10

(1) Category with index A = frequent operation - Category with index B = infrequent operation.
(2) With terminal shrouds or phase barrier.
(3) 3-pole device with 2 pole in series for the "+" and 1 pole for the "-".
(4) 4-pole device with 2 pole in series by polarity.
(5) The power value is given for information only, the current values vary from one manufacturer to another.
(6) For a rated operational voltage U_e = 400 VAC.

1000 to 5000 A

Thermal current I_{th} (40°C)		**1000 A**	**CD 1250 A**	**1250 A**	**1600 A**	**1800 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**	**5000 A**
Rated insulation voltage U_i (V)		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)		12	12	12	12	12	12	12	12	12	12
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)	A/B(1)
400 VAC	AC-21 A / AC-21 B	1000/1000	1250/1250	1250/1250	1600/1600	1 800/1 800	2 000/2 000	2500/2500	3 200/3 200	-/4000	-/5000
400 VAC	AC-22 A / AC-22 B	1000/1000	1250/1250	1250/1250	1600/1600	1 800/1 800	2 000/2 000	2 000/2500	2500/3 200		
400 VAC	AC-23 A / AC-23 B	1000/1000	1250/1250	1250/1250	1250/1250	1250/1250	1600/1600	1600/1600	1600/1600		
500 VAC	AC-21 A / AC-21 B	800/800	800/800	1250/1250	1600/1600	1600/1600	2 000/2 000	2500/2500	3 200/3 200		
500 VAC	AC-22 A / AC-22 B	800/800	800/800	1250/1250	1250/1250	1250/1250	1600/2 000	1600/2 000	2 000/2 000		
500 VAC	AC-23 A / AC-23 B	630/800	630/800	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000		
690 VAC(2)	AC-20 A / AC-20 B	1000/1000	1250/1250	1250/1250	1600/1600	1 800/1 800	2 000/2 000	2500/2500	3 200/3 200		
690 VAC(2)	AC-21 A / AC-21 B	800/800	800/800	1000/1000	1000/1000	1000/1000	2 000/2 000	2 000/2500	2 000/2500		
690 VAC(2)	AC-22 A / AC-22 B	800/800	800/800	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000		
690 VAC(2)	AC-23 A / AC-23 B	200/250	200/250	500/500	500/500	500/500	800/800	800/800	800/800		
220 VDC	DC-20 A / DC-20 B	1000/1000	1250/1250	1250/1250	1600/1600	1 800/1 800	2 000/2 000	2500/2500	3 200/3 200	4000/4000	5000/5000
220 VDC	DC-21 A / DC-21 B	1000/1000	1250/1250	1250/1250	1250/1250	1250/1250	2 000/2 000	2 000/2500	2 000/2500		
220 VDC	DC-22 A / DC-22 B	1000/1000	1250/1250	1250/1250	1250/1250	1250/1250	1250/1600	1250/1600	1250/1600		
220 VDC	DC-23 A / DC-23 B	1000/1000	1250/1250	1250/1250	1250/1250	1250/1250	1250/1250(3)	1250/1250(3)	1250/1250(3)		
440 VDC	DC-20 A / DC-20 B	1000/1000	1250/1250	1250/1250	1600/1600	1 800/1 800	2 000/2 000	2500/2500	3 200/3 200	4000/4000	5000/5000
440 VDC	DC-21 A / DC-21 B	1000/1000(4)	1250/1250(4)	1250/1250(4)	1250/1250(3)	1250/1250(3)	2 000/2 000	2 000/2 000	2 000/2 000		
440 VDC	DC-22 A / DC-22 B	1000/1000(4)	1250/1250(4)	1250/1250(4)	1250/1250(3)	1250/1250(3)	1250/1250(3)	1250/1250(3)	1250/1250(3)		
440 VDC	DC-23 A / DC-23 B	1000/1000(4)	1250/1250(4)	1250/1250(4)	1250/1250(3)	1250/1250(3)	1000/1000(3)	1000/1000(3)	1000/1000(3)		
500 VDC	DC-20 A / DC-20 B	1000/1000	1250/1250	1250/1250	1600/1600	1 800/1 800	2 000/2 000	2500/2500	3 200/3 200	4000/4000	5000/5000
500 VDC	DC-21 A / DC-21 B	1000/1000(4)	1250/1250(4)	1250/1250(4)	1250/1250(3)	1250/1250(3)	1250/1250	1250/1250	1250/1250		
500 VDC	DC-22 A / DC-22 B	1000/1000(4)	1250/1250(4)	1250/1250(4)	1250/1250(3)	1250/1250(3)	1250/1250(3)	1250/1250(3)	1250/1250(3)		
500 VDC	DC-23 A / DC-23 B	1000/1000(4)	1250/1250(4)	1250/1250(4)	1250/1250(3)	1250/1250(3)	1000/1000(3)	1000/1000(3)	1000/1000(3)		
Operational power in AC-23 (kW)											
At 400 VAC without pre-break in AC(1)(5)		560/560	710/710	710/710	710/710	710/710	710/710	710/710	710/710		
At 500 VAC without pre-break in AC(1)(5)		450/560	450/560	710/710	710/710	710/710	710/710	710/710	710/710		
At 690 VAC without pre-break in AC(1)(5)		185/220	185/220	475/475	475/475	475/475	750/750	750/750	750/750		
Reactive power (kvar)											
At 400 VAC (kvar)(5)		460	575	575							
Fuse protected short-circuit withstand (kA rms prospective)											
Prospective short-circuit (kA rms)(6)		100	100	100	100	100	100	100			
Associated fuse rating (A)(6)		1000	1250	1250	2 x 800	2 x 800	2 x 1000	2 x 1250			
Short-circuit capacity											
Rated short-time withstand current 0,3 s. I_{cw} (kA eff.)		65	65	100	100	100	100	100	110	75(6)	75(6)
Rated peak withstand current (kA peak)(6)		80	80	110	110	110	110	110	120	165	165
Connection											
Min. connection wire range		2 x 240									
Minimum Cu busbar section (mm^2)		2 x 50 x 5	2 x 60 x 5	2 x 60 x 5	2 x 80 x 5	3 x 100 x 5	3 x 100 x 5	4 x 100 x 5	4 x 100 x 5	1 x 100 x 5	1 x 100 x 5
Maximum Cu cable section (mm^2)		4 x 185	4 x 185	4 x 185	6 x 185	6 x 185					
Maximum Cu busbar width (mm)		63	63	100	100	100	100	100	100		
Tightening torque min (Nm)				40	40	40	40	40	40	40	40
Mechanical characteristics											
Durability (number of operating cycles)		3 000	3 000	4000	4000	4000	3 000	3 000	3 000	2 000	2 000
Operating effort (Nm)		37	37	56	56	56	75	75	75	100	100
Weight of a 3 pole device (kg)		8	8	12	12	12	22	22	22	45	45
Weight of a 4 pole device (kg)		10	10	15	15	15	25	25	25	50	50

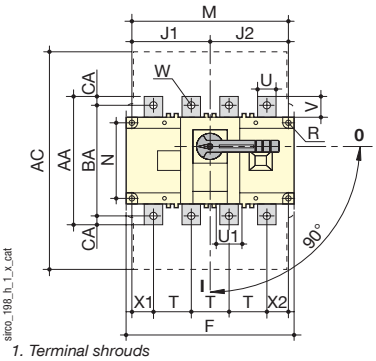
(1) Category with index A = frequent operation - Category with index B = infrequent operation.
(2) With terminal shrouds or phase barrier.
(3) 3-pole device with 2 pole in series for the "+" and 1 pole for the "-".
(4) 4-pole device with 2 pole in series by polarity.
(5) The power value is given for information only, the current values vary from one manufacturer to another.
(6) For a rated operational voltage U_e = 400 VAC.

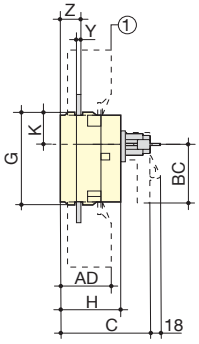
Dimensions

Front operation

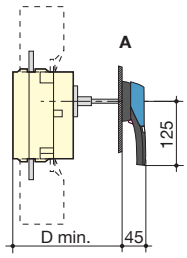
SIRCO 125 to 630 A

Direct front operation





External front operation

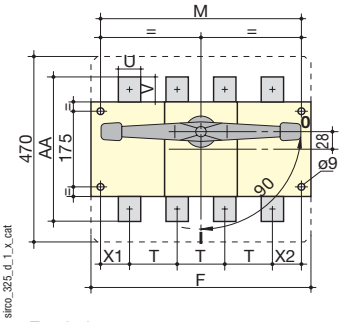


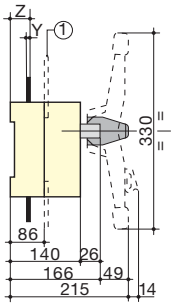
1. Terminal shrouds
A. S2 type handle

Rating (A)	Overall dimensions C	Overall dimensions D min	Terminal shrouds AC	Terminal shrouds AD	Switch body F 3p.	Switch body F 4p.	Switch body G	Switch body H	Switch body J1 3p.	Switch body J1 4p.	Switch body J2	Switch body K	Switch body BC	Switch mounting M 3p.	Switch mounting M 4p.	Switch mounting N	Switch mounting R	Connection T	Connection U	Connection U1	Connection V	Connection W	Connection X1 3p.	Connection X1 4p.	Connection X2	Connection Y	Connection Z	Connection AA	Connection BA	Connection AC
125	115	125	235	50	140	170	93	65	45	75	75	31.5	80	120	150	65	5.5	36	20	20.5	25	9	28	22	20	3.5	20.5	135	115	10
160	115	125	235	50	140	170	93	65	45	75	75	31.5	80	120	150	65	5.5	36	20	20.5	25	9	28	22	20	3.5	20.5	135	115	10
200	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5.5	50	25	25.5	30	11	33	33	27	3.5	22.5	160	130	15
250	125	135	280	60	180	230	108	75	55	105	105	34	115	160	210	80	5.5	50	25	25.5	30	11	33	33	27	3.5	22.5	160	130	15
315	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	32	45.5	37.5	11	42.5	37.5	37.5	5	36	235	205	15
400	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	32	45.5	37.5	11	42.5	37.5	37.5	5	36	235	205	15
500	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	32	45.5	37.5	13	42.5	37.5	37.5	5	36	235	205	15
630	160	165	400	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	45	45.5	50	13	42.5	37.5	37.5	5	36	260	220	20

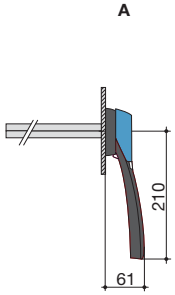
SIRCO 800 to 1800 A

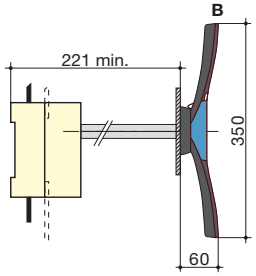
Direct front operation





External front operation





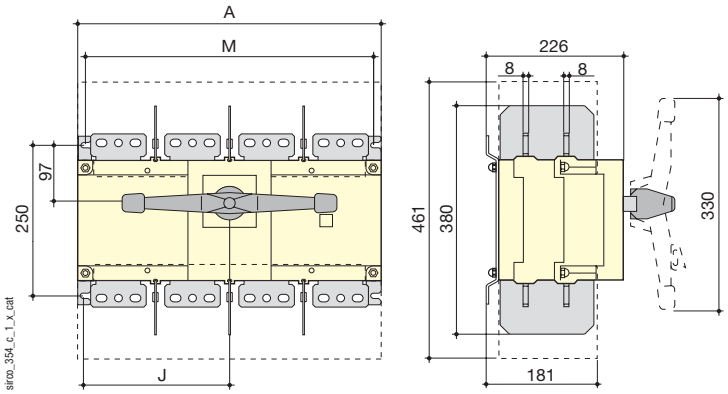
1. Terminal screens
A. Handle single lever S3 type
B. Handle double lever S4 type

Rating (A)	Switch body F 3p.	Switch body F 4p.	Switch mounting M 3p.	Switch mounting M 4p.	Connection T	Connection U	Connection V	Connection Y	Connection X1	Connection X2	Connection Z	Connection AA
800	280	360	255	335	80	50	60.5	7	47.5	47.5	46.5	321
1 000	280	360	255	335	80	50	60.5	7	47.5	47.5	46.5	321
CD 1 250	280	360	255	335	80	60	65	7	47.5	47.5	46.5	330
1 250	372	492	347	467	120	90	44	8	53.5	53.5	47.5	288
1 600	372	492	347	467	120	90	44	8	53.5	53.5	47.5	288
1 800	372	492	347	467	120	90	44	8	53.5	53.5	47.5	288

Front operation (continued)

SIRCO 2 000 to 3200 A

Direct front operation

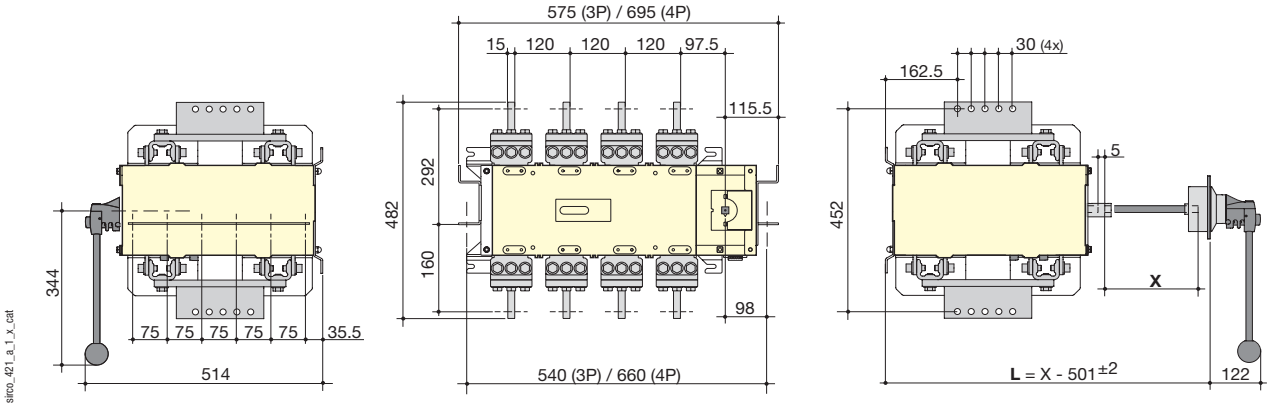


Rating (A)	Overall dimensions A 3p.	A 4p.	Switch body J 3p.	J 4p.	Switch mounting M 3p.	M 4p.
2 000	372	492	173.5	233.5	347	467
2 500	372	492	173.5	233.5	347	467
3 200	372	492	173.5	233.5	347	467

SIRCO 4 000 to 5000 A

Direct front operation

External front operation

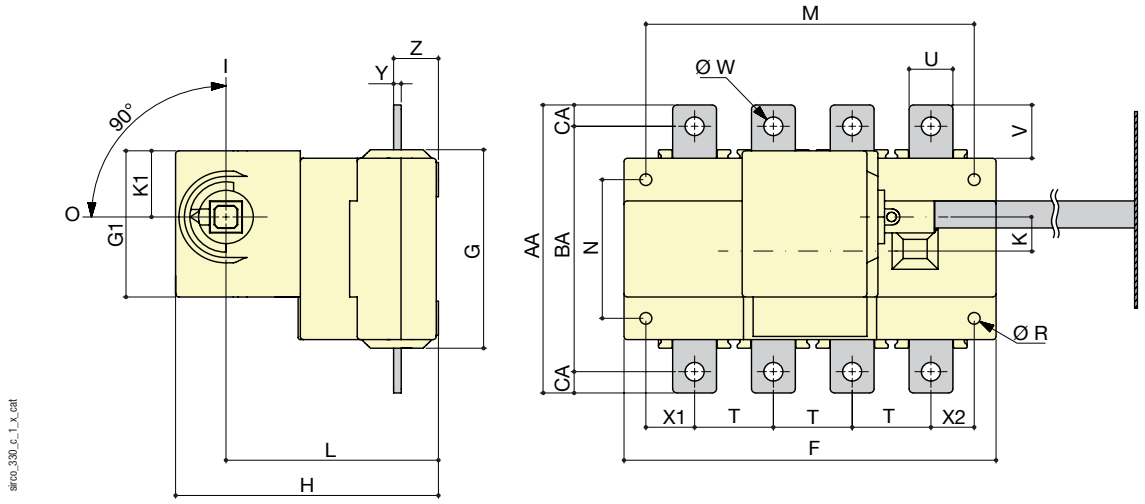


Rating (A)	Overall dimensions A 3p.	A 4p.	Switch body F 3p.	F 4p.	Switch mounting M 3p.	M 4p.
4 000…5 000	684	804	470	590	347	467

Side operation

SIRCO 125 to 630 A

External right side operation

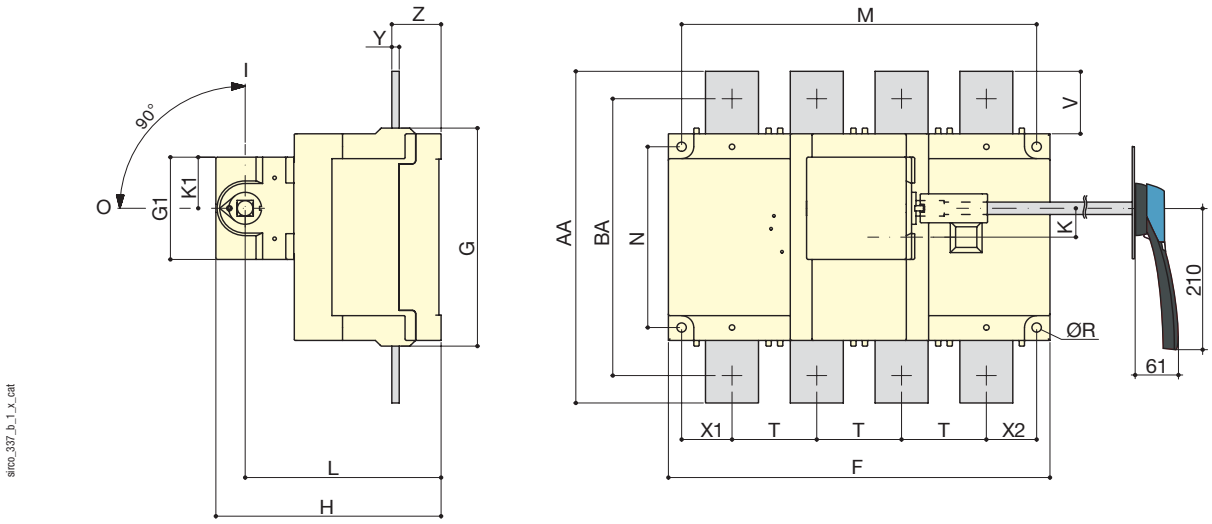


sirco_330_c_1_x_cat

Rating (A)	Switch body F 3p.	F 4p.	G	G1	H	Switch mounting K	K1	L	M 3p.	M 4p.	N	R	Connection T	U	V	W	X1 3p.	X1 4p.	X2	Y	Z	AA	BA	AC
125	140	170	93	69	120	15	31	97	120	150	65	5.5	36	20	25	9	28	22	20	3.5	20.5	135	115	10
160	140	170	93	69	120	15	31	97	120	150	65	5.5	36	20	25	9	28	22	20	3.5	20.5	135	115	10
200	180	230	108	69	130	20	31	108	160	210	80	5.5	50	25	30	11	33	33	27	3.5	22.5	160	130	15
250	180	230	108	69	130	20	31	160	210	80	5.5	50	25	30	11	33	33	27	3.5	22.5	160	130	15	
315	230	290	170	69	165	29	31	142	210	270	140	7	65	32	37.5	11	42.5	37.5	37.5	5	36	235	205	15
400	230	290	170	69	165	29	31	142	210	270	140	7	65	32	37.5	11	42.5	37.5	37.5	5	36	235	205	15
500	230	290	170	69	165	29	31	142	210	270	140	7	65	32	37.5	13	42.5	37.5	37.5	5	36	235	205	15
630	230	290	170	69	165	29	31	142	210	270	140	7	65	45	50	13	42.5	37.5	37.5	5	36	260	220	20

SIRCO 800 to 1800 A

External right side operation

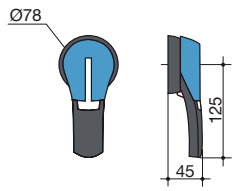
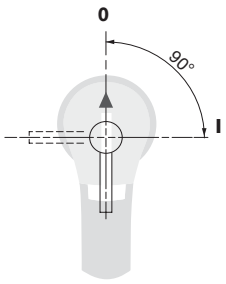
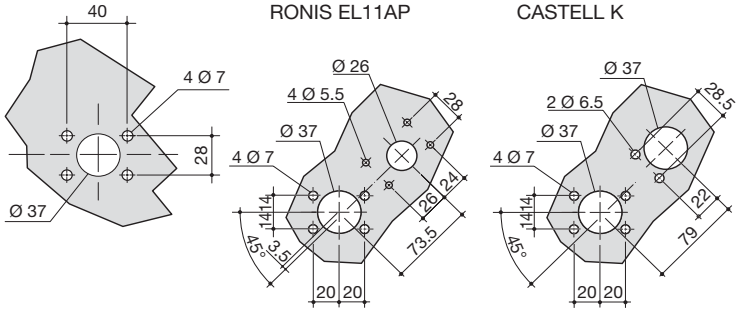


sirco_337_b_1_x_cat

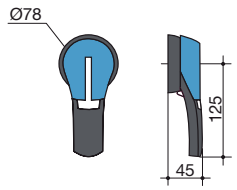
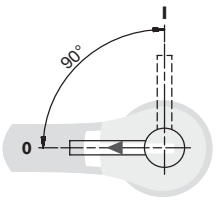
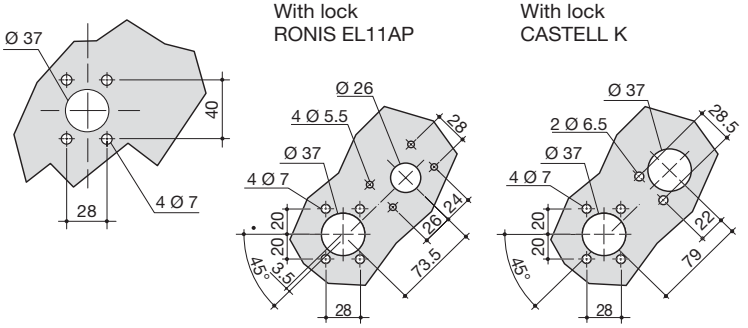
Rating (A)	Switch body F 3p.	F 4p.	G	G1	H	Switch mounting K	K1	L	M 3p.	M 4p.	N	R	Connection T	V	X1	X2	Y	Z	AA	BA
800	280	360	211	99	213	28	50	185	255	335	175	9	80	60.5	47.5	47.5	7	46.5	321	268
CD 1 250	280	360	211	99	213	28	50	185	255	335	175	9	80	65	47.5	47.5	7	46.5	330	
1 800	372	492	211	99	213	28	50	185	347	467	175	9	120	44	53.5	53.5	8	47.5	288	258

➲ Dimensions for external handles

SIRCO 125 to 630 A

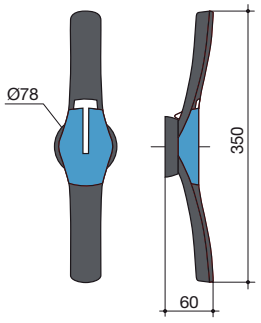
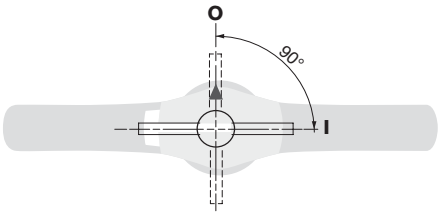
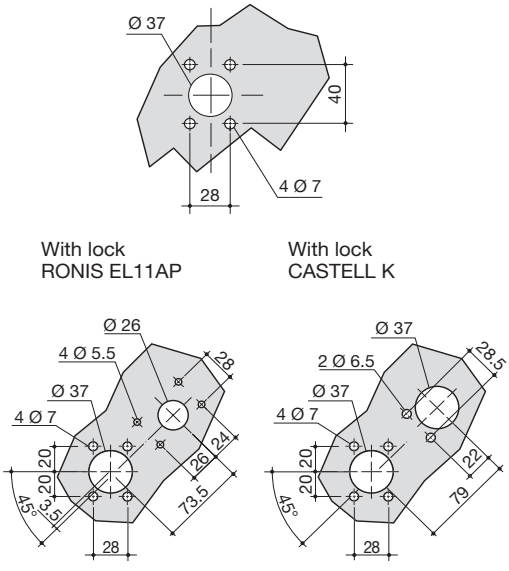
Handle type	Front operation Direction of operation	Door drilling
S2 type 		

sirco_426_a_1_gb_cat

Handle type	Side operation Direction of operation	Door drilling
S2 type 	**Right side operation** 	

sirco_427_a_1_gb_cat

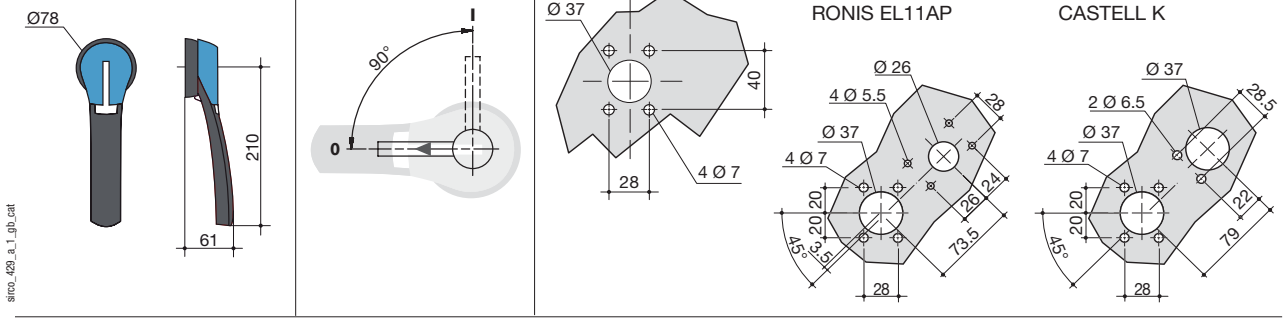
SIRCO 800 to 1800 A

Handle type	Front operation Direction of operation	Door drilling
S4 type 		

sirco_428_a_1_gb_cat

SIRCO 800 to 1800 A

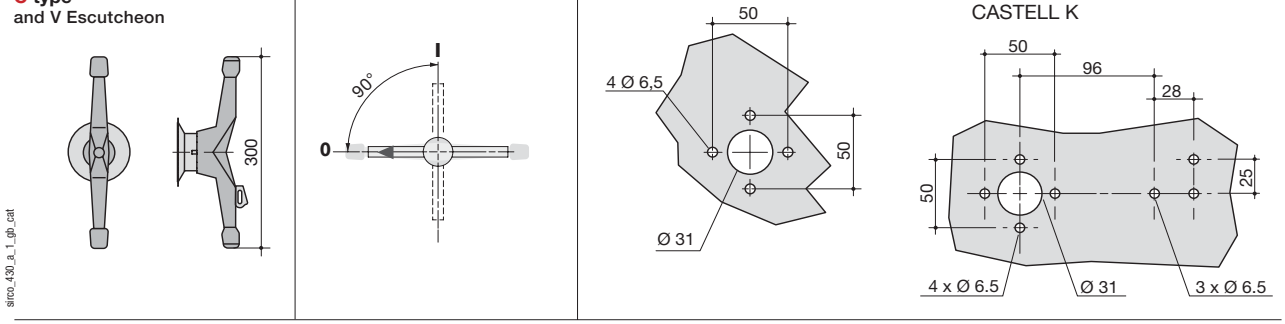
Handle type	Side operation Direction of operation	Door drilling
S3 type	**Right side operation**	With lock RONIS EL11AP / With lock CASTELL K



sirco_429_a_1_gb_cat

SIRCO 2 000 to 3200 A

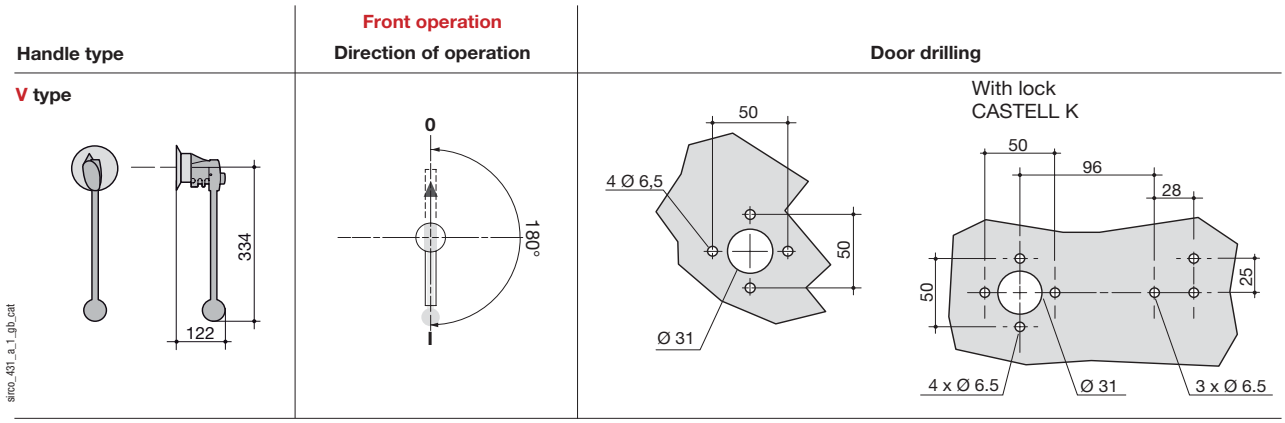
Handle type	Front operation Direction of operation	Door drilling
C type and V Escutcheon		With lock CASTELL K



sirco_430_a_1_gb_cat

SIRCO 4 000 to 5000 A

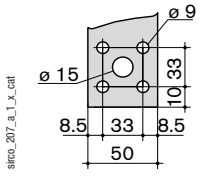
Handle type	Front operation Direction of operation	Door drilling
V type		With lock CASTELL K



sirco_431_a_1_gb_cat

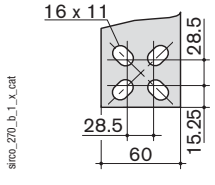
➲ Connection terminals

SIRCO 800 to 1000 A



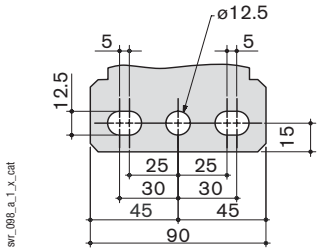
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SIRCO CD 1 250 A



sirco_270_b_1_x_cat

SIRCO 1 250 to 3200 A



svr_098_a_1_x_cat