SIRCO

Load break switches for power distribution

from 125 to 5000 A

sirco-ac_001.eps

sirco_456.psd

Functions

SIRCO and SIRCO AC are manually operated multipolar load break switches.
They make and break under load conditions and provide safety isolation.
SIRCO are designed for 415 VAC and DC low voltage electrical circuits.
SIRCO AC are designed for harsh applications up to 690 VAC - AC 23.

Advantages

Reliability and performance
The double breaking per pole, achieved through its sliding contact system, is a proven design that offers very high durability and short-circuit withstand.
The quick opening and rapid closure, combined with specifically designed arcing chambers, provides SIRCO AC with improved breaking performance.

Safety of property and personnel
The position indicator is located directly on the sliding contact system, ensuring it can be seen in all circumstances.
The use of glass fibre reinforced polyester gives the SIRCO both high mechanical and thermal resistance.

Simplicity
A common range of accessories to meet all types of applications:
- Simple mounting.
- Simplified stock management and reduced storage costs.

Easy to install
Terminal design allows the connection of all types of conductors (cables, copper bars):
- Sufficient distance between terminals to facilitate connections.
- Connection up to 6 x185 mm².
- Connection accessories which facilitate both flat and edgewise connections.

The solution for

- Data centres
- Healthcare
- Energy
- Infrastructure & Transport
- Industry
- Buildings

Strong points

- Reliability and performance
- Safety of property and personnel
- Simplicity
- Easy to install

Conformity to standards

- IEC 60947-3

Approvals and certifications(1)

(1) Product references on request.

Sustainable advantages

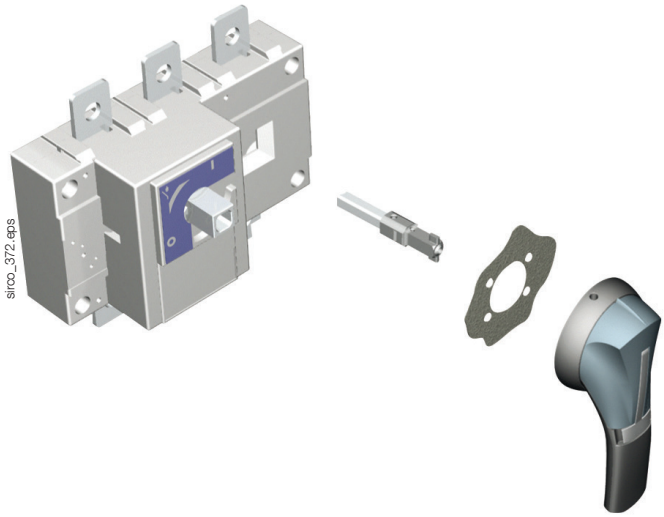
- Robust design, using durable and stable materials to maximise product lifetime.
- Tested beyond market standards to maximise product lifetime - even in severe operating environments.
- RoHS & REACH compliant

General characteristics

- Double positive break indication given through a position indication window, located directly on the product, and by the operating handle.
- Severe load duty categories (AC-22 and AC-23).
- High resistance to damp heat (supplied 'tropicalised').

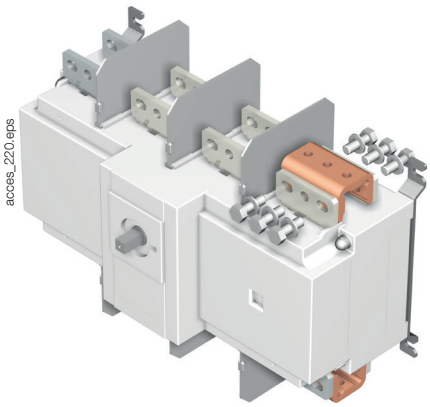
What you need to know

- In front **direct** or **external** operation, SIRCO is available in 3 and 4-pole versions from 125 to 5000 A.
- It can be ordered in 6 or 8-pole versions from 125 to 1600 A.
- SIRCO are available in a polyester or sheet metal enclosure from 160 to 1600 A.

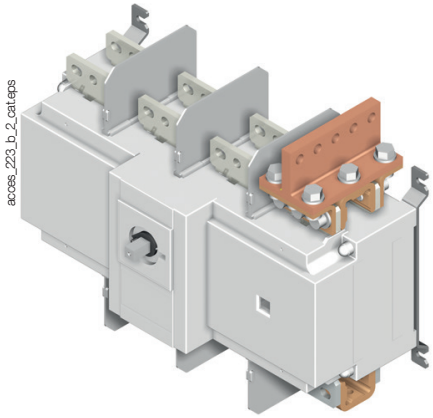


For ratings 2000, 2500 and 3200A, a copper **bar connection kit** enables the connection between the two power terminals of one pole.

Flat connection
top or bottom



Edgewise connection
top or bottom



SIRCO References

Standard applications - Front operation - 3 and 4-pole

Rating (A) / Frame size	No. of poles	Switch body[1]	Direct handle	External handle	Shaft for external operation	Auxiliary contact	Terminal shrouds	Terminal screens
125 A / B3	3 P	2600 **3014**	J0 type Black 1102 **1111**[2]	S2 type 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** Shaft guide[5] 1429 **0000**	1st NO/NC contact 2699 **0031** 2nd NO/NC contact 2699 **0032**	3 P 2694 **3014**[3] 4 P 2694 **4014**[3]	3 P 2698 **3012**[3] 4 P 2698 **4012**[3]
	4 P	2600 **4014**						
160 A / B3	3 P	2600 **3017**						
	4 P	2600 **4017**						
200 A / B4	3 P	2600 **3021**	J1 type Black 1112 **1111** Red 1113 **1111**				3 P 2694 **3021**[3] 4 P 2694 **4021**[3]	3 P 2698 **3020**[3] 4 P 2698 **4020**[3]
	4 P	2600 **4021**						
250 A / B4	3 P	2600 **3026**						
	4 P	2600 **4026**						
315 A / B5	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 / B5	3 P	2600 **3041**						
	4 P	2600 **4041**						
500 A / B5	3 P	2600 **3051**						
	4 P	2600 **4051**						
630 A / B5	3 P	2600 **3064**						
	4 P	2600 **4064**						
800 A / B6	3 P	2600 **3081**	J4 type Blue 1142 **1111**[2] Red 1143 **1111**	S4 type Black IP65 1443 **3111**[2] Red IP65 1444 **3111**	200 mm 1401 **1520** 320 mm 1401 **1532**[2] 400 mm 1401 **1540** Shaft guide[5] 1429 **0000**		-	3 P 2698 **3080**[3] 4 P 2698 **4080**[3]
	4 P	2600 **4081**						
1000 A / B6	3 P	2600 **3099**						
	4 P	2600 **4099**						
CD 1250 A / B6	3 P	2600 **3119**						
	4 P	2600 **4119**						
1250 A / B7	3 P	2600 **3121**						3 P 2698 **3120**[3] 4 P 2698 **4120**[3]
	4 P	2600 **4121**						
1600 A / B7	3 P	2600 **3161**						
	4 P	2600 **4161**						
1800 A / B7	3 P	2600 **3181**						
	4 P	2600 **4181**						
2000 A / B8[4]	3 P	2600 **3200**	S5 type Black 2799 **7042**[2]	V2 type Black IP65 2799 **7136**[2] Red IP65 2799 **7134**	200 mm 2799 **3015** 320 mm 2799 **3018**[2] 450 mm 2799 **3019**			3 P 2698 **3200**[3] 4 P 2698 **4200**[3]
	4 P	2600 **4200**						
2500 A / B8[4]	3 P	2600 **3250**						
	4 P	2600 **4250**						
3200 A / B8[4]	3 P	2600 **3320**						
	4 P	2600 **4320**						
4000 A / B9	3 P	2600 **3401**	Type V0 Black 2799 **7072**[2]	Type V0 Black IP65 2799 **7155**[2]		1st/2nd contact NO/NC included		-
	4 P	2600 **4401**						
5000 A / B9	3 P	2600 **3500**						
	4 P	2600 **4500**						

(1) Device available enclosed (see "Enclosed load break switches")
(2) Standard.
(3) Top or bottom.
(4) Connection kit necessary.
(5) Recommended for a shaft length over 320 mm.

SIRCO AC References

Harsh applications - Front operation - 3 and 4-pole

Rating (A) / Frame size	No. of poles	Switch body[1]	Direct handle	External handle	Shaft for external operation	Auxiliary contact	Terminal shrouds	Terminal screens
200 A / B4	3 P	26AC **3020**	J1 type Black 1112 **1111**[1] J1 type Red 1113 **1111**	S2 type Black IP55 1421 **2111**[1] Black IP65 1423 **2111** Red IP65 1424 **2111**	200 mm 1400 **1020** 320 mm 1400 **1032**[1] 500 mm 1400 **1050** Shaft guide[5] 1429 **0000**	1st NO/NC contact 2699 **0031** 2nd NO/NC contact 2699 **0032**	3P 2694 **3021**[2][3] 4 P 2694 **4021**[2][3]	3P 2698 **3020**[3] 4 P 2698 **4020**[3]
	4 P	26AC **4020**						
250 A / B4	3 P	26AC **3025**						
	4 P	26AC **4025**						
315 A / B4	3 P	26AC **3031**						
	4 P	26AC **4031**						
400 A / B5	3 P	26AC **3040**					3P 2694 **3051**[2][3] 4 P 2694 **4051**[2][3]	3P 2698 **3050**[3] 4 P 2698 **4050**[3]
	4 P	26AC **4040**						
500 A / B5	3 P	26AC **3050**						
	4 P	26AC **4050**						
CD 630 A / B5	3 P	26AC **3063**						
	4 P	26AC **4063**						
630 A / B6	3 P	26AC **3064**	J4 type Blue 1142 **1111**[1] Red 1143 **1111**	S4 type Black IP65 1443 **3111**[1] Red IP65 1444 **3111**	200 mm 1401 **1520** 320 mm 1401 **1532**[1] 400 mm 1401 **1540** Shaft guide[5] 1429 **0000**			3 P 2698 **3080**[2][3] 4 P 2698 **4080**[2][3]
	4 P	26AC **4064**						
800 A / B6	3 P	26AC **3080**						
	4 P	26AC **4080**						
1000 A / B6	3 P	26AC **3100**						
	4 P	26AC **4100**						
CD 1250 A / B6	3 P	26AC **3120**						
	4 P	26AC **4120**						
1250 A / B7	3 P	26AC **3121**						3 P 2698 **3120**[2][3] 4 P 2698 **4120**[2][3]
	4 P	26AC **4121**						
1600 A / B7	3 P	26AC **3160**						
	4 P	26AC **4160**						
2000 A / B8[4]	3 P	26AC **3200**	S5 type Black 2799 **7042**[1]	S5 type Black IP65 1453 **8111**[1]	200 mm 2799 **3015** 320 mm 2799 **3018**[1] 450 mm 2799 **3019**			3 P 2698 **3200**[2][3] 4 P 2698 **4200**[2][3]
	4 P	26AC **4200**						

(1) Standard.
(2) Mandatory for voltage greater than 415 VAC.
(3) Top or bottom.
(4) Connection kit necessary.
(5) Recommended for a shaft length over 320 mm.

SIRCO References

Standard applications - Front operation - 6 and 8-pole

Rating (A) / Frame size	No. of poles	Switch body[1]	Direct handle	External handle	Shaft for external operation	Auxiliary contact	Terminal shrouds	Terminal screens
125 A / $B3_{DS}$	6 P	2601 **6013**	J2 type Black 1122 **1111**[1] Red 1123 **1111**	S2 type Black IP55 1421 **2111**[1] Red IP65 1424 **2111**	200 mm 1400 **1020** 320 mm 1400 **1032**[1]	1st NO/NC contact 2699 **0061** 2nd NO/NC contact 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 / $B3_{DS}$	6 P	2601 **6016**						
	8 P	2601 **8016**						
250 A / $B4_{DS}$	6 P	2601 **6025**	J3 type Black 1132 **1111**[1] Red 1133 **1111**	S4 type Black IP65 1443 **3111**[1] Red IP65 1444 **3111**	200 mm 1401 **1520** 320 mm 1401 **1532**[1]		6 P 2694 **3021**[2][3] 8 P 2694 **4021**[2][3]	6 P 1509 **3025**[4] 8 P 1509 **4025**[4]
	8 P	2601 **8025**						
400 A / $B5_{DS}$	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 / $B5_{DS}$	6 P	2601 **6063**						
	8 P	2601 **8063**						
800 A / $B6_{DS}$	6 P	2601 **6080**	J4 type Blue 1142 **1111**[2] Red 1143 **1111**	Type V1 Black IP65 2799 **7145**[1]	320 mm 2799 **3018**[1]		-	6 P 1509 **3080**[4] 8 P 1509 **4080**[4]
	8 P	2601 **8080**						
1000 A / $B6_{DS}$	6 P	2601 **6100**						
	8 P	2601 **8100**						
1250 A / $B7_{DS}$	6 P	2601 **6120**						
	8 P	2601 **8120**						
1600 A / $B7_{DS}$	6 P	2601 **6160**						6 P 1509 **3160**[4] 8 P 1509 **4160**[4]
	8 P	2601 **8160**						

(1) Standard.
(2) Top or bottom on the front or rear of the device.
(3) Select 2 sets for front or rear.
(4) Top or bottom on the front or rear of the device.

SIRCO References (continued)

Standard applications - Right side external operation

Rating (A) / Frame size	No. of poles	Switch body(1)	Direct handle	External handle	Auxiliary contact	Terminal shrouds	Terminal screens
160 A / B3	3 P	2605 **3017**	S2 type Black IP55 1425 **2111**(1) Black IP65 1427 **2111** Red IP65 1428 **2111**	200 mm 1400 **1020** 250 mm 1400 **1025** 320 mm 1400 **1032**(1)	1st NO/NC contact 2699 **0031** 2nd NO/NC contact 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 **4017**					
200 A / B4	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 / B4	3 P	2605 **3026**					
	4 P	2605 **4026**					
315 A / B5	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 / B5	3 P	2605 **3041**					
	4 P	2605 **4041**					
500 A / B5	3 P	2605 **3051**					
	4 P	2605 **4051**					
630 A / B5	3 P	2605 **3064**					
	4 P	2605 **4064**					
800 A / B6	3 P	2605 **3081**	S4 type Black IP65 1437 **3111**(1) Red IP65 1438 **3111**	200 mm 1401 **1520** 320 mm 1401 **3532**(1)		-	3 P 2698 **3080**(2) 4 P 2698 **4080**(2)
CD 1250 A / B6	3 P	2605 **3119**					
	4 P	2605 **4119**					
1800 A / B7	3 P	2605 **3181**					3 P 2698 **3120**(2) 4 P 2698 **4120**(2)
	4 P	2605 **4181**					

(1) Standard.
(2) Top or bottom

Accessories

Direct operation handle

For SIRCO

Rating (A) / Frame size	No. of poles	Handle type	Handle colour	Reference
125 … 160 / B3	3/4 P	J0	Black	1102 **1111**(1)
125 … 160 / $B3_{DS}$	6/8 P	J2	Black	1122 **1111**(1)
125 … 160 / $B3_{DS}$	6/8 P	J2	Red	1123 **1111**
200 ... 630 / B4-B5	3/4 P	J1	Black	1112 **1111**(1)
200 ... 630 / B4-B5	3/4 P	J1	Red	1113 **1111**
250 … 630 / $B4_{DS}$-$B5_{DS}$	6/8 P	J3	Black	1132 **1111**(1)
250 … 630 / $B4_{DS}$-$B5_{DS}$	6/8 P	J3	Red	1133 **1111**
800 ... 1800 / B6...B7	3/4 P	J4	Blue	1142 **1111**(1)
800 ... 1800 / B6...B7	3/4 P	J4	Red	1143 **1111**
800 ... 1600 / $B6_{DS}$-$B7_{DS}$	6/8 P	J4	Blue	1142 **1111**(1)
800 ... 1600 / $B6_{DS}$-$B7_{DS}$	6/8 P	J4	Red	1143 **1111**
1800 ... 3200 / B8	3/4 P	S5	Black	2799 **7042**(1)
4000 … 5000 / B9	3/4 P	V0	Black	2799 **7072**(1)

(1) Standard.

J1 type handle

J4 type handle

S5 type handle

For SIRCO AC

Rating (A) / Frame size	No. of poles	Handle type	Handle colour	Reference
200 … CD 630 / B4 … B5	3/4 P	J1	Black	1112 **1111**(1)
200 … CD 630 / B4 … B5	3/4 P	J1	Red	1113 **1111**
630 … 1600 / B6 … B7	3/4 P	J4	Blue	1142 **1111**(1)
630 … 1600 / B6 … B7	3/4 P	J4	Red	1143 **1111**
2000 / B8	3/4 P	S5	Black	2799 **7042**(1)

(1) Standard.

External operation handle

Use

Door interlocked external operating handles include an escutcheon, are padlockable and must be used with an extension shaft.

Front operation for SIRCO and SIRCO AC

Rating (A) / Frame size: SIRCO	Rating (A) / Frame size: SIRCO AC	No. of poles	Handle type	Handle colour	External IP(1)	Reference
125 ... 630 / B3 ... B5	200 … CD 630 / B4 … B5	3/4 P	S2	Black	IP55	1421 **2111**(2)
				Black	IP65	1423 **2111**
				Red	IP65	1424 **2111**
125 … 160 / $B3_{DS}$	-	6/8 P		Black	IP55	1421 **2111**(2)
				Black	IP65	1423 **2111**
				Red	IP65	1424 **2111**
250 ... 630 / $B4_{DS}$-$B5_{DS}$		6/8 P	S4	Black	IP65	1443 **3111**
				Red	IP65	1444 **3111**
800 ... 1600 / $B6_{DS}$-$B7_{DS}$		6/8 P	V1	Black	IP65	2799 **7145**(2)
800 ... 1800 / B6-B7	630 … 1600 / B6 … B7	3/4 P	S4	Black	IP65	1443 **3111**(2)
				Red	IP65	1444 **3111**
2000 ... 3200 / B8	2000 / B8	3/4 P	V2	Black	IP65	2799 **7136**(2)
				Red	IP65	2799 **7134**
			S5	Black	IP65	1453 **8111**
4000 … 5000 / B9	-	3/4 P	V0	Black	IP65	2799 **7155**(2)

(1) IP: protection index according to IEC 60529. (2) Standard.

S2 type handle

S3 type handle

S4 type handle

S5 type handle

Right side operation for SIRCO

Rating (A)	No. of poles	Handle type	Handle colour	External IP(1)	Reference
160 ... 630 / B3 ... B5	3/4 P	S2	Black	IP55	1425 **2111**(2)
160 ... 630 / B3 ... B5	3/4 P	S2	Black	IP65	1427 **2111**
160 ... 630 / B3 ... B5	3/4 P	S2	Red	IP65	1428 **2111**
800 ... 1800 / B6 ... B7	3/4 P	S3	Black	IP65	1437 **3111**(2)
800 ... 1800 / B6 ... B7	3/4 P	S3	Red	IP65	1438 **3111**

(1) IP: protection index according to IEC 60529. (2) Standard.

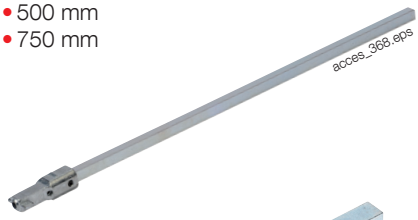
Accessories (continued)

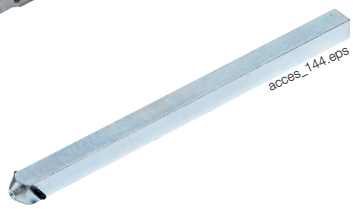
Shaft guide for external operation

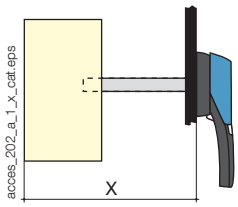
For SIRCO and SIRCO AC 3/4-pole devices				
Rating (A) / Frame size		Dimension X (mm)	Length (mm)	Reference
SIRCO	SIRCO AC			
125 ... 160 / B3	-	125 … 250	200	1400 **1020**
		125 … 300	250	1400 **1025**
		125 … 370	320	1400 **1032**
		125 … 550	500	1400 **1050**
		125 … 850	750	1400 **1075**
200 ... 250 / B4	200 … 315 / B4	135 … 265	200	1400 **1020**
		135 … 315	250	1400 **1025**
		135 … 385	320	1400 **1032**
		135 … 565	500	1400 **1050**
		135 … 880	750	1400 **1075**
315 ... 630 / B5	400 … CD 630 / B5	165 … 295	200	1400 **1020**
		165 … 345	250	1400 **1025**
		165 … 415	320	1400 **1032**
		165 … 595	500	1400 **1050**
		165 … 940	750	1400 **1075**
800 ... 1800 / B6...B7	630 … 1600 / B6 … B7	221 … 343	200	1401 **1520**
		221 … 463	320	1401 **1532**
		221 … 543	400	1401 **1540**
2000 ... 3200 / B8	2000 / B8	415 … 570	200	2799 **3015**
		415 … 690	320	2799 **3018**
		415 … 820	450	2799 **3019**
4000 … 5000 / B9	4000 / B9	550 … 680	200	2799 **3015**
		651 … 921	320	2799 **3018**

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

Other lengths available:
- please contact us.







Alternative colour S-type handle cover

Use
For single lever handle types S1, S2, S3 and double lever handle type S4.

Other colours available:
please contact us.

Handle colour	Order in multiples of	Handle type	Reference
Light grey	50	S2, S3	1401 **0001**
Dark grey	50	S2, S3	1401 **0011**
Light grey	50	S4	1401 **0031**

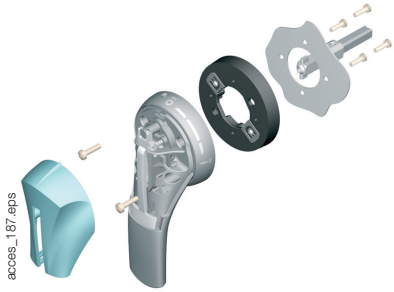
S type cover

S-type handle adaptor

Use
Enables S-type handles to be fitted in place of existing older style Socomec handles.
Adapter can be utilised as a spacer to increase the distance between the panel door and the handle lever.
Adds 12 mm to the depth of the handle.

Handle colour	Available for order in multiples of	External IP[1]	Reference
Black	1	IP65	1493 **0000**

(1) IP: Ingress Protection rating according to IEC 60529.

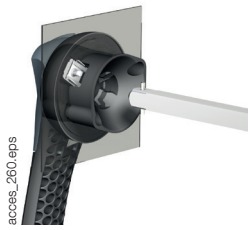


Accessories (continued)

Shaft guide for external operation

Use
Use with S-type handles to guide the shaft extension 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	Reference
Shaft guide	1429 0000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Auxiliary contact

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: IP2x from front.

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

Electrical characteristics
- 30,000 operations.

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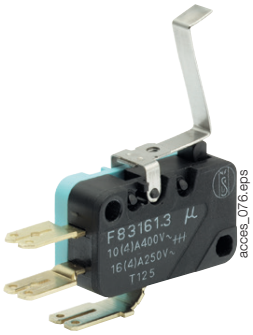
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NO/NC contact for 3/4-pole SIRCO and SIRCO AC		
Rating (A) / Frame size	**Position AC**	**Reference**
125 … 3200 / B3 … B8	1st	2699 **0031**
125 … 3200 / B3 … B8	2nd	2699 **0032**
4000 … 5000 /B9	1st/2nd	included

NO/NC contact for 6/8-pole SIRCO		
Rating (A) / Frame size	**Position AC**	**Reference**
125 … 1600 / B3DS … B7DS	1st	2699 **0061**
125 … 1600 / B3DS … B7DS	2nd	2699 **0062**

NO+NC contact for 3/4-pole SIRCO and SIRCO AC		
Rating (A) / Frame size	**Position AC**	**Reference**
125 … 3200 / B3 … B8	1st	2699 **0141**
125 … 3200 / B3 … B8	2nd/3rd/4th	2699 **0142**

Low level NO/NC contact for 3/4-pole SIRCO and SIRCO AC		
Rating (A) / Frame size	**Position AC**	**Reference**
125 … 3200 / B3 … B8	1st	2699 **0301**
125 … 3200 / B3 … B8	2nd	2699 **0302**

Characteristics

Rating (A) / Frame size	Contact type	Current current (A)	Operating current I_e (A)									
			230 VAC		400 VAC		24 VDC			48 VDC		
			AC-12	AC-13/15	AC-12	AC-13/15	DC-12	DC-13	DC-14	DC-12	DC-13	DC-14
125 … 3200 / B3 … B8	NO/NC	16	16	4	12	3	2.5	2.5	1	2.5	1.2	0.2
125 … 3200 / B3 … B8	NO + NC	16	16	4	16	3	16	5	1	2.5	1.2	0.2

Inter-phase barriers

Use
Safety isolation between the terminals, essential for use at 690 VAC or in a polluted or dusty atmosphere.

For 3/4-pole SIRCO and SIRCO AC			
Rating (A) / Frame size		**No. of poles**	**Reference**
SIRCO	**SIRCO AC**		
125 … 160 / B3		3 P	2998 **0033**
125 … 160 / B3		4 P	2998 **0034**
200 … 250 / B4	200 … 315 / B4	3 P	2998 **0023**
200 … 250 / B4	200 … 315 / B4	4 P	2998 **0024**
315 … 630 / B5	315 … CD 630 / B5	3 P	2998 **0013**
315 … 630 / B5	315 … CD 630 / B5	4 P	2998 **0014**
800 … 5000 / B6 … B9	630 … 2000 / B6 … B8	3 P	included
800 … 5000 / B6 … B9	630 … 2000 / B6 … B8	4 P	included

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Accessories (continued)

Terminal shrouds

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

Advantage
Perforations allow remote thermographic inspection without the need to remove the shrouds. The terminal shrouds also provide phase separation for SIRCO and SIRCO AC 125 to 630 A.

For 3/4-pole SIRCO and SIRCO AC

Rating (A) / Frame size		No. of poles	Position	Reference
SIRCO	SIRCO AC			
125 ... 160 / B3		3 P	top or bottom	2694 **3014**(1)
125 ... 160 / B3		4 P	top or bottom	2694 **4014**(2)
200 ... 250 / B4	200 ... 315 / B4	3 P	top or bottom	2694 **3021**(1)
200 ... 250 / B4	200 ... 315 / B4	4 P	top or bottom	2694 **4021**(2)
315 ... 630 / B5	400 ... CD 630 / B5	3 P	top or bottom	2694 **3051**(1)
315 ... 630 / B5	400 ... CD 630 / B5	4 P	top or bottom	2694 **4051**(2)

(1) Reference includes 3 parts for top or bottom protection.
(2) Reference includes 4 parts for top or bottom protection.

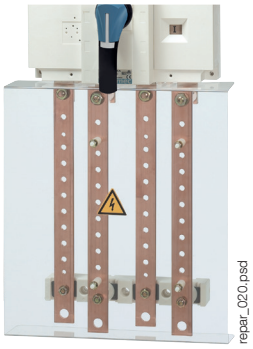
For 6/8-pole SIRCO

Rating (A) / Frame size	No. of poles	Position	Reference
125 ... 160 / $B3_{DS}$	6 P	Top or bottom	2694 **3014**(1)(3)
125 ... 160 / $B3_{DS}$	8 P	Top or bottom	2694 **4014**(2)(3)
250 / $B4_{DS}$	6 P	Top or bottom	2694 **3021**(1)(3)
250 / $B4_{DS}$	8 P	Top or bottom	2694 **4021**(2)(3)
400 ... 630 / $B5_{DS}$	6 P	Top or bottom	2694 **3051**(1)(3)
400 ... 630 / $B5_{DS}$	8 P	Top or bottom	2694 **4051**(2)(3)

(1) Reference includes 3 parts for top or bottom protection on the front or rear of the device.
(2) Reference includes 4 parts for top or bottom protection on the front or rear of the device.
(3) Select 2 sets for front or rear.

Distribution block

Use
Easy connection of multiple cables, downstream of the SIRCO.

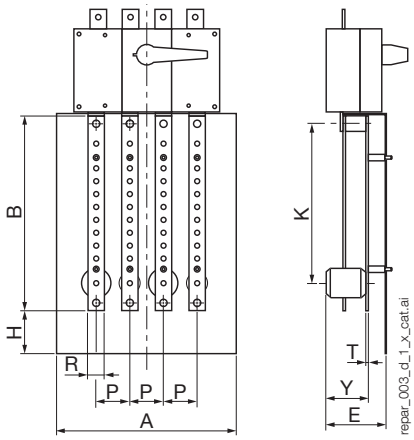


For 3/4-pole SIRCO

Rating (A) / Frame size	No. of poles	No. of feeders per section (mm²)	I_{cc} (kA rms)(1)	Reference
160 / B3	3 P	1x95 + 8x25	10	5411 **3016**
160 / B3	4 P	1x95 + 8x25	10	5411 **4016**
250 / B4	3 P	1x150 + 8x50	15	5411 **3025**
250 / B4	4 P	1x150 + 8x50	15	5411 **4025**
400 / B5	3 P	1x240 + 8x95	21	5411 **3040**
400 / B5	4 P	1x240 + 8x95	21	5411 **4040**
630 / B5	3 P	1x300 + 8x150	21	5411 **3063**
630 / B5	4 P	1x300 + 8x150	21	5411 **4063**

Dimensions

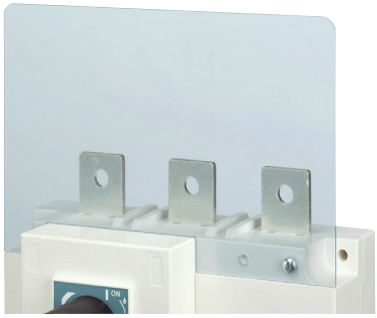
Rating (A) / Frame size	No. of poles	A	B	T	H	K	P	R	T	Y
160 / B3	3 P	154	286	73	46.5	261.5	36	20	4	54
160 / B3	4 P	190	286	73	46.5	261.5	36	20	4	54
250 / B4	3 P	210	307	83	57.5	279	50	25	4	56
250 / B4	4 P	260	307	83	57.5	279	50	25	4	56
400 / B5	3 P	281	375	116	82.5	340	65	32	5	82
400 / B5	4 P	346	375	116	82.5	340	65	32	5	82
630 / B5	3 P	271	438	117	90.5	410.5	65	40	6	83
630 / B5	4 P	346	438	117	90.5	410.5	65	40	6	83



Accessories (continued)

Terminal screens

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



For 3/4-pole SIRCO and SIRCO AC

Rating (A) / Frame size SIRCO	SIRCO AC	No. of poles	Position	Reference
125 … 160 / B3	-	3 P	top or bottom	2698 **3012**
125 … 160 / B3	-	4 P	top or bottom	2698 **4012**
200 … 250 / B4	200 … 315 / B4	3 P	top or bottom	2698 **3020**
200 … 250 / B4	200 … 315 / B4	4 P	top or bottom	2698 **4020**
315 … 630 / B5	400 … CD 630 / B5	3 P	top or bottom	2698 **3050**
315 … 630 / B5	400 … CD 630 / B5	4 P	top or bottom	2698 **4050**
800 … CD 1250 / B6	630 … CD 1250 / B6	3 P	top or bottom	2698 **3080**
800 … CD 1250 / B6	630 … CD 1250 / B6	4 P	top or bottom	2698 **4080**
1250 … 1800 / B7	1250 … 1600 / B7	3 P	top or bottom	2698 **3120**
1250 … 1800 / B7	1250 … 1600 / B7	4 P	top or bottom	2698 **4120**
2000 … 3200 / B8	2000 / B8	3 P	top or bottom	2698 **3200**
2000 … 3200 / B8	2000 / B8	4 P	top or bottom	2698 **4200**
4000 … 5000 / B9	-	3/4 P	top or bottom	1509 **4200**

For 6/8-pole SIRCO

Rating (A) / Frame size	No. of poles	Position	Reference
125 … 160 / $B3_{DS}$	6 P	Top or bottom	1509 **3012**
125 … 160 / $B3_{DS}$	8 P	Top or bottom	1509 **4012**
250 / $B4_{DS}$	6 P	Top or bottom	1509 **3025**
250 / $B4_{DS}$	8 P	Top or bottom	1509 **4025**
400 ... 630 / $B5_{DS}$	6 P	Top or bottom	1509 **3063**
400 ... 630 / $B5_{DS}$	8 P	Top or bottom	1509 **4063**
800 ... 1250 / $B6_{DS}$-$B7_{DS}$	6 P	Top or bottom	1509 **3080**
800 ... 1250 / $B6_{DS}$-$B7_{DS}$	8 P	Top or bottom	1509 **4080**
1600 / $B7_{DS}$	6 P	Top or bottom	1509 **3160**
1600 / $B7_{DS}$	8 P	Top or bottom	1509 **4160**

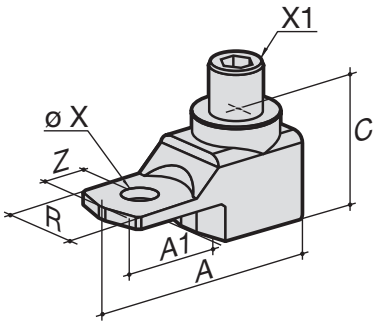
Cage terminals

Use
They enable the connection of flexible copper and aluminium conductors to SIRCO power terminals.

Material
Tin-plated aluminium

Dimensions

Rating (A) / Frame size	A	A1	C	R	ØX	X1	Z
125 … 160 / B3	47.5	22.5	25	20	8.5	M12	10
200 … 250 / B4	62	31.5	31.5	25	10.5	M16	14
315 … 400 / B5	71.5	32	38	32	10.5	M20	15
500 … 630 / B5	76.5	37	38	40	12.5	M20	15



References

Rating (A) / Frame size	Clamping capacity (mm²)	No. of poles	Tightening torque (Nm)	Flexible busbar width (mm)	Reference
125 … 160 / B3	16 ... 95	3 P	14	13	5400 **3016**
125 … 160 / B3	16 ... 95	4 P	14	13	5400 **4016**
200 … 250 / B4	16 ... 185	3 P	25	18	5400 **3025**
200 … 250 / B4	16 ... 185	4 P	25	18	5400 **4025**
315 … 400 / B5	50 ... 240	3 P	45	20	5400 **3040**
315 … 400 / B5	50 ... 240	4 P	45	20	5400 **4040**
500 … 630 / B5	70 ... 300	3 P	45	24	5400 **3063**
500 … 630 / B5	70 ... 300	4 P	45	24	5400 **4063**

Accessories (continued)

Copper bar connection kits

Use

To enable connection between the two power terminals of the same pole for 2000 to 3200 A ratings (Fig. 1 and Fig. 2).
For 3200 A rating, the connection pieces (part A) are delivered bridged as standard. Bolt sets must be ordered separately.
For more details on these specific accessories, please consult the user guide that can be downloaded at **www.socomec.com**.

Top or bottom connection - Fig. 1

Rating (A) / Frame size	Part	Quantity to order per pole(1)	Reference
2000 … 2500 / B8	Connection - part A	1	2619 **1200**
2000 … 2500 / B8	Bolt set - part B	1	2699 **1200**
3200 / B8	Connection - part A		included
3200 / B8	Bolt set - part B	1	2699 **1200**
4000 … 5000 / B9	Standard connection		

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

Fig. 1

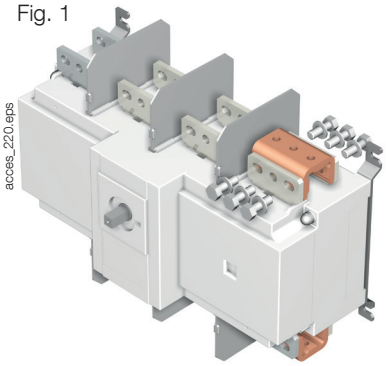
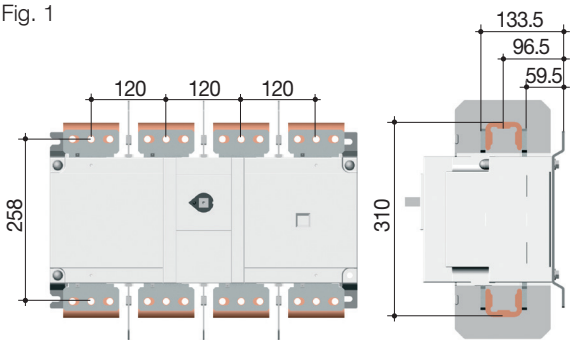


Fig. 1



Top or bottom edgewise connection - Fig. 2

Rating (A) / Frame size	Part	Quantity to order per pole(1)	Reference
2000 … 2500 / B8	Connection - part A	1	2619 **1200**
2000 ... 2500 / B8	T piece - part C	1	2629 **1200**(2)
2000 … 2500 / B8	Bracket - part D	1	2639 **1200**(2)
3200 / B8	Connection - part A		**included**
3200 / B8	T piece - part C	1	2629 **1200**
3200 / B8	Bracket - part D	1	2639 **1200**
4000 … 5000 / B9	Standard connection		

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

Fig. 2

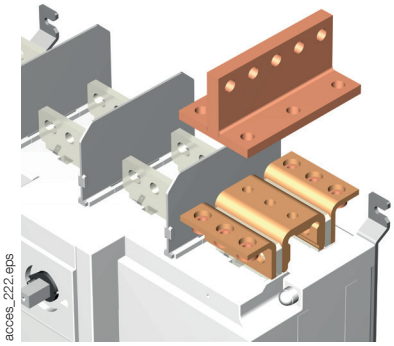
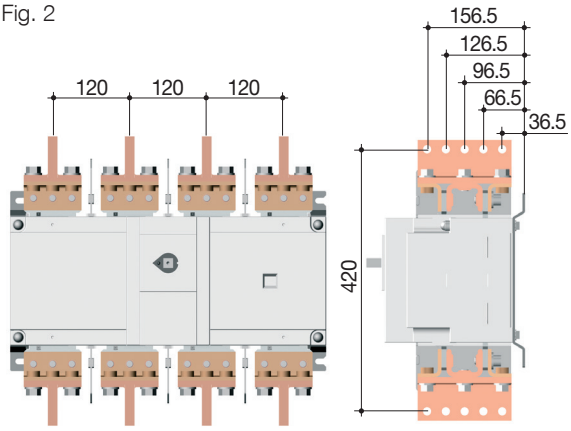


Fig. 2



Accessories (continued)

Operation lock-out device

Use

Locking in position 0 of the front or side operating handle:

- using a padlock (not supplied) and standard padlocking function of the handle. From 125 to 1800 A, padlocking the external front operating handle provides door interlocking
- using a lock (not supplied): see diagrams opposite,
- using an undervoltage coil: the SIRCO can only be closed if the coil is energised.

For 6 or 8-pole, please contact us.

For SIRCO				
Locking using RONIS EL11AP lock (not included)				
Rating (A) / Frame size	**No. of poles**	**Operation**	**Figure**	**Reference**
125 ... 630 / B3 ... B5	3/4 P	Direct front	1	2699 **6008**(1)
125 ... 1800 / B3 ... B7	3/4 P	External front	3	1499 **7701**
800 ... 3200 / B6 ... B8	3/4 P	Direct front	2	2699 **6027**
1250 ... 5000 / B7 ... B9	3/4 P	External front	4	2799 **7002**
RONIS EL 11AP Lock				4409 **8511**

(1) Front operation handle included.

For SIRCO AC				
Locking using RONIS EL11AP lock (not included)				
Rating (A) / Frame size	**No. of poles**	**Operation**	**Figure**	**Reference**
200 ... CD 630 / B4 ... B5	3/4 P	Direct front	1	2699 **6008**(1)
630 ... 1600 / B6 ... B7	3/4 P	Direct front	2	2699 **6027**
RONIS EL 11AP Lock				4409 **8511**

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

For SIRCO			
Locking using 230 VAC undervoltage coil (please contact us for other voltages)			
Rating (A) / Frame size	**No. of poles**	**Operation**	**Reference**
125 ... 630 / B3 ... B5	3/4 P	External front	2699 9063(1)
800 ... 3200 / B6 ... B8	3/4 P	Direct front	2699 9315(1)

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

Locking using CASTELL lock (not supplied)						
Rating (A) / Frame size	**No. of poles**	**Handle type**	**Type of lock**	**Operation**	**Figure**	**Reference**
125 ... 160 / B3	6/8 P	S2	K	External front	2	4109 **8507**
125 ... 1800 / B3 ... B8	3/4 P	S2, S4	FS	External front	3	1499 **7703**
125 ... 1800 / B3 ... B8	3/4 P	S2, S4	K	External front	3	1499 **7702**
250 ... 630 / B4 ... B5	6/8 P	S4	K	External front	2	2999 **8707**
800 ... 1600 / B6 ... B7	6/8 P	S5	K	External front	2	2799 **7003**
1250 ... 4000 / B7 ... B9	3/4 P	S5, S0	K	External front	2	2799 **7003**

Fig. 1

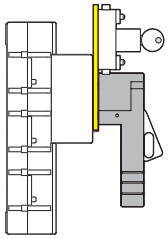


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Fig. 2

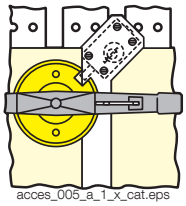

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Fig. 3

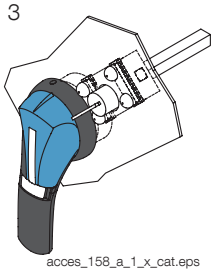

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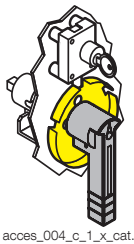
Fig. 4



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Other specific accessories

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- Mechanical coupling device for combining switches with “n” poles of the same or different ratings
- Mechanical interlocking device

socomec Innovative Power Solutions

SIRCO characteristics according to IEC 60947-3

125 to 800 A

Thermal current I_{th} at 40 °C		**125 A**	**160 A**	**200 A**	**250 A**	**315 A**	**400 A**	**500 A**	**630 A**	**800 A**
Frame size		**B3**	**B3**	**B4**	**B4**	**B5**	**B5**	**B5**	**B5**	**B6**
Rated insulation voltage U_i (V)		800	800	800	800	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)		8	8	8	8	12	12	12	12	12
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	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
415 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
415 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
415 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
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(2) / 125(2)	160(2) / 160(2)	160(2) / 200(2)	200(2) / 200(2)	315(2) / 315(2)	400(2) / 400(2)	400(2) / 400(2)	500(2) / 500(2)	800(3) / 800(3)
440 VDC	DC-22 A / DC-22 B	125(2) / 125(2)	125(2) / 125(2)	160(2) / 160(2)	200(2) / 200(2)	315(2) / 315(2)	400(2) / 400(2)	400(2) / 400(2)	500(2) / 500(2)	800(3) / 800(3)
440 VDC	DC-23 A / DC-23 B	125(3) / 125(3)	125(3) / 125(3)	160(3) / 160(3)	200(3) / 200(3)	315(3) / 315(3)	400(3) / 400(3)	400(3) / 400(3)	500 / 500	800(3) / 800(3)
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(2) / 125(2)	125(2) / 125(2)	160(2) / 200(2)	200(2) / 200(2)	315(2) / 315(2)	400(2) / 400(2)	400(2) / 400(2)	500(2) / 500(2)	800(3) / 800(3)
500 VDC	DC-22 A / DC-22 B	125(3) / 125(3)	125(3) / 125(3)	160(3) / 160(3)	200(3) / 200(3)	315(3) / 315(3)	315(3) / 400(3)	315(3) / 400(3)	500(3) / 500(3)	800(3) / 800(3)
500 VDC	DC-23 A / DC-23 B	125(3) / 125(3)	125(3) / 125(3)	160(3) / 160(3)	200(3) / 200(3)	315(3) / 315(3)	315(3) / 400(3)	315(3) / 400(3)	500(3) / 500(3)	800(3) / 800(3)
Operational power in AC-23 (kW) (1)(4)										
At 415 VAC without pre-break AC(1)		63 / 63	80 / 80	100 / 100	132 / 132	160 / 160	220 / 220	280 / 280	280 / 280	450 / 450
Reactive power (kvar)										
At 400 VAC (kvar)(4)		55	75	90	115	145	185	230	290	365
gG DIN fuse-protected short-circuit withstand (prospective kA rms)(5)										
Prospective short-circuit current (kA rms)		100	100	80	50	100	100	100	70	50
Associated fuse rating (A)		125	160	200	250	315	400	500	630	800
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)		15	15	17	17	25	25	25	25	50
Short-circuit operation without protection										
Rated short-time withstand current I_{cw} 1s (kA rms)		7	7	9	9	13	13	13	13	26
Rated peak withstand current in I_{cc} (kA peak)(5)(6)		20	20	30	30	45	45	45	45	55
Connection										
Minimum Cu cable cross-section		35	50	70	95	150	185	240	2 x 150	2 x 185
Minimum Cu busbar cross-section (mm²)									2 x 30 x 5	2 x 40 x 5
Maximum copper cable cross-section (mm²)		50	95	95	150	240	240	240	2 x 300	2 x 300
Maximum width of copper bars (mm)		25	25	32	32	40	40	40	50	63
Tightening torque min. - max. (Nm)		9 / -	9 / -	20 / -	20 / -	20 / -	20 / -	20 / -	40 / 45	40 / 45
Power dissipation										
Power dissipation W/Pole		1,8	3	4	5,8	7,5	10,8	16	30,9	39,7
Mechanical characteristics										
Durability (number of operating cycles)		10000	10000	10000	10000	10000	10000	10000	10000	3000
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) 3-pole device with 2 poles in series for the "+" and 1 pole for the "-".
(3) 4-pole device with 2 poles in series per polarity
(4) The power value is given for information only; current values vary from one manufacturer to another.
(5) For a rated operational voltage Ue = 415 VAC.
(6) Coordination tables with circuit breakers: please contact us.

SIRCO characteristics according to IEC 60947-3

1000 to 5000 A

Thermal current I_{th} at 40 °C		1000 A	CD 1250 A	1250 A	1600 A	1800 A	2000 A	2500 A	3200 A	4000 A	5000 A
Frame size		**B6**	**B6**	**B7**	**B7**	**B7**	**B8**	**B8**	**B8**	**B9**	**B9**
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 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)**	**A/B(1)**
415 VAC	AC-20 A / AC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
415 VAC	AC-21 A / AC-21 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
415 VAC	AC-22 A / AC-22 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	2500 / 3200	2500 / 3200	2500 / 3200
415 VAC	AC-23 A / AC-23 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1600 / 1600	1600 / 1600	1600 / 1600	1800 / 2000	1800 / 2000
220 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
220 VDC	DC-21 A / DC-21 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600	2000 / 2000	2000 / 2500	2000 / 2500	2500 / 3200	2500 / 3200
220 VDC	DC-22 A / DC-22 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600	1250 / 1600	1800 / 2000	1800 / 2000
220 VDC	DC-23 A / DC-23 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600
440 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
440 VDC	DC-21 A / DC-21 B	1000(2) / 1000(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1600(2)	1250(2) / 1600(2)	2000(2) / 2000(2)	2000(2) / 2500(2)	2500(2) / 3200(2)	3200(2) / 4000(2)	3200(2) / 5000(2)
440 VDC	DC-22 A / DC-22 B	1000(2) / 1000(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1600(2) / 1800(2)	1600(2) / 1800(2)
440 VDC	DC-23 A / DC-23 B	1000(2) / 1000(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)
500 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3250 / 3250	4000 / 4000	5000 / 5000
500 VDC	DC-21 A / DC-21 B	1000(2) / 1000(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1600(2)	1250(2) / 1600(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1600(2) / 1800(2)	1600(2) / 1800(2)
500 VDC	DC-22 A / DC-22 B	1000(2) / 1000(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1600(2)	1250(2) / 1600(2)
500 VDC	DC-23 A / DC-23 B	1000(2) / 1000(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1250(2) / 1250(2)	1000(2) / 1000(2)	1000(2) / 1000(2)	1000(2) / 1000(2)	1000(2) / 1000(2)	1000(2) / 1000(2)
Operational power in AC-23 (kW) (1)(3)											
At 415 VAC without pre-break AC(1)		560 / 560	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710
Reactive power (kvar)											
At 400 VAC (kvar)(3)		460									
gG DIN fuse-protected short-circuit withstand (prospective kA rms)(4)											
Prospective short-circuit current (kA rms)		100	100	100	100	100	100	100			
Associated fuse rating (A)		1000	1250	1250	2 x 800	2 x 800	2 x 1000	2 x 1250			
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)		65	65	100	100	100	100	100	100		
Short-circuit operation without protection											
Rated short-time withstand current I_{cw} 1s (kA rms)		35	35	50	50	50	50	50	50	75	75
Rated peak withstand current in I_{cc} (kA peak)(4)(5)		80	80	110	110	110	110	110	120	165	165
Connection											
Minimum Cu cable cross-section		2 x 240									
Minimum Cu busbar cross-section (mm²)		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	2 x 200 x 10	2 x 200 x 10
Maximum copper cable cross-section (mm²)		4 x 185	4 x 185	4 x 185	6 x 185	6 x 185					
Maximum width of copper bars (mm)		63	63	100	100	100	100	100	100		
Tightening torque min. - max. (Nm)		40/45	40/45	40/45	40/45	40/45	40/45	40/-	40/-	40/-	40/-
Power dissipation											
Power dissipation W/Pole		44,7	69,8	85	122	161	140	205	340	420	480
Mechanical characteristics											
Durability (number of operating cycles)		3000	3000	4000	4000	4000	3000	3000	3000	2000	2000
Operating effort (Nm)		37	37	56	56	56	75	75	75	105	105
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) 4-pole device with 2 poles in series per polarity
(3) The power value is given for information only; current values vary from one manufacturer to another.
(4) For a rated operational voltage Ue = 415 VAC.
(5) Coordination tables with circuit breaker: please contact us.

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SIRCO AC characteristics according to IEC 60947-3

200 to 630 A

Thermal current I_{th} at 40 °C		200 A	250 A	315 A	400 A	500 A	CD 630 A	630 A
Rated insulation voltage U_i (V)		1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)		12	12	12	12	12	12	12
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)**
500 VAC	AC-20 A / AC-20 B	200/200	250/250	315/315	400/400	500/500	630/630	630/630
500 VAC	AC-21 A / AC-21 B	200/200	250/250	315/315	400/400	500/500	630/630	630/630
500 VAC	AC-22 A / AC-22 B	200/200	250/250	315/315	400/400	500/500	630/630	630/630
500 VAC	AC-23 A / AC-23 B	200/200	250/250	315/315	400/400	500/500	630/630	630/630
690 VAC	AC-20 A / AC-20 B	200/200	250/250	315/315	400/400	500/500	630/630	630/630
690 VAC	AC-21 A / AC-21 B	200/200	250/250	315/315	400(2)/400(2)	500(2)/500(2)	630(2)/630(2)	630(2)/630(2)
690 VAC	AC-22 A / AC-22 B	200/200	250/250	315/315	400(2)/400(2)	500(2)/500(2)	500(2)/630(2)	630(2)/630(2)
690 VAC	AC-23 A / AC-23 B	200/200	250/250	315/315	400(2)/400(2)	500(2)/500(2)	500(2)/500(2)	630(2)/630(2)
Operational power in AC-23 (kW) (3)								
At 690 VAC without pre-break AC		160	220	250	400	500	500	630
Reactive power (kvar)								
At 690 VAC (kvar)		160	190	250	325	400	400	450
Fuse-protected short-circuit withstand (prospective kA rms) at 690 VAC(4)								
Prospective short-circuit current (kA rms)		50	50	50	50	50	50	50
Associated fuse rating (A)		200	250	315	400	500	630	630
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s at 690 VAC								
Rated short-time withstand current 0.3s. I_{cw} (kA rms)		15	15	15	15	15	15	28
Short-circuit operation without protection								
Rated short-time withstand current: 1s. I_{cw} (kA rms)		8	8	8	11	11	11	20
Rated short-circuit breaking capacity without fuses I_{cm} (kA presumed peak)		22	22	22	22	22	22	40
Connection								
Minimum Cu cable cross-section		70	70	70	185	240	2 x 150	2 x 185
Minimum Cu busbar cross-section (mm²)							2 x 30 x 5	2 x 40 x 5
Maximum copper cable cross-section (mm²)		95	95	95	240	240	2 x 300	2 x 300
Maximum width of copper bars (mm)		32	32	32	40	40	63	63
Tightening torque min. - max. (Nm)		20/-	20/-	20/-	20/-	20/-	20/-	40/45
Power dissipation								
Power dissipation W/Pole		4	6	9,6	12,8	20	24,8	20,7
Mechanical characteristics								
Durability (number of operating cycles)		10000	10000	10000	5000	5000	5000	4000
Operating effort (Nm)		10	10	10	14.5	14.5	14.5	48
Weight of a 3-pole device (kg)		2	2	2	3.5	3.5	3.5	8
Weight of a 4-pole device (kg)		2	2	2	4	4	4	10

(1) Category with index A = frequent operation / Category with index B = infrequent operation.
(2) With terminal shrouds or inter-phase barrier.
(3) The power value is given for information only; current values vary from one manufacturer to another.
(4) For a rated operational voltage Ue = 690 VAC.

SIRCO AC characteristics according to IEC 60947-3

800 to 4000 A

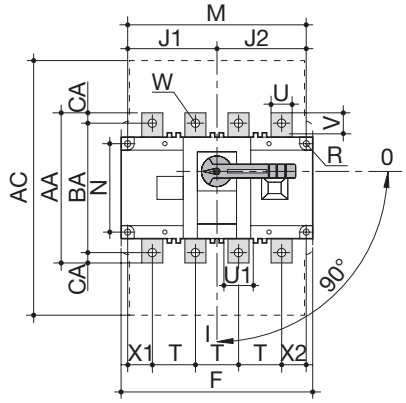
Thermal current I_{th} at 40 °C		800 A	1000A	CD 1250 A	1250 A	1600 A	2000 A
Rated insulation voltage U_i (V)		1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)		12	12	12	12	12	12
Rated operational currents I_e (A)							
Rated voltage	**Utilisation category**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**	**A/B(1)**
500 VAC	AC-20 A / AC-20 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
500 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
500 VAC	AC-22 A / AC-22 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
500 VAC	AC-23 A / AC-23 B	800/800	1000/1000	1250/1250	1250/1250	1250/1250	1600/1600
690 VAC	AC-20 A / AC-20 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
690 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
690 VAC	AC-22 A / AC-22 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000
690 VAC	AC-23 A / AC-23 B	800/800	1000/1000	1250/1250	1250/1250	1250/1250	1600/1600
Operational power in AC-23 (kW)(3)							
At 690 VAC without pre-break AC		900	900	-	-	-	-
Reactive power (kvar)							
At 690 VAC (kvar)		550	750	950	950	-	-
Fuse-protected short-circuit withstand (prospective kA rms) at 690 VAC(4)							
Prospective short-circuit current (kA rms)		50	50	50	50	50	-
Associated fuse rating (A)		800	800	2 x 500	1250	2 x 800	-
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s at 690 VAC							
Rated short-time withstand current 0.3s. I_{cw} (kA rms)		28	55	55	53	53	53
Short-circuit operation without protection at 690 VAC							
Rated short-time withstand current: 1s. I_{cw} (kA rms)		20	30	30	35	35	35
Rated short-circuit breaking capacity without fuses I_{cm} (kA presumed peak)		40	80	80	75	75	75
Connection							
Minimum Cu cable cross-section		2 x 185	2 x 240				
Minimum Cu busbar cross-section (mm²)		2 x 40 x 5	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
Maximum copper cable cross-section (mm²)		2 x 300	4 x 185	4 x 185	4 x 185	6 x 185	
Maximum width of copper bars (mm)		63	63	63	100	100	100
Tightening torque min. - max. (Nm)		40/45	40/45	40/45	40	40	40
Power dissipation							
Power dissipation W/Pole		40	52,2	80	58	95	-
Mechanical characteristics							
Durability (number of operating cycles)		4000	4000	3000	4000	4000	3000
Operating effort (Nm)		48	48	48	55	55	75
Weight of a 3-pole device (kg)		8	8	8	12	12	22
Weight of a 4-pole device (kg)		10	10	10	15	15	25

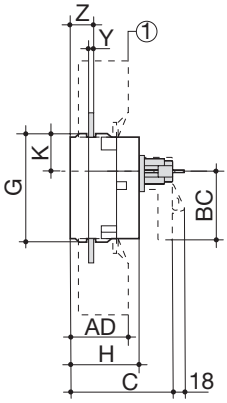
(1) Category with index A = frequent operation / Category with index B = infrequent operation.
(2) With terminal shrouds or inter-phase barrier.
(3) The power value is given for information only; current values vary from one manufacturer to another.
(4) For a rated operational voltage Ue = 690 VAC.

Dimensions - Front operation

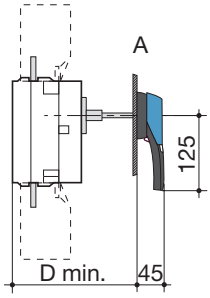
SIRCO 125 to 630 A and *SIRCO AC* 200 to CD 630 A - B3 to B5

Direct front operation





External front operation



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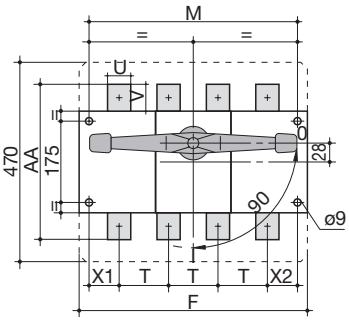
1. Terminal shroud

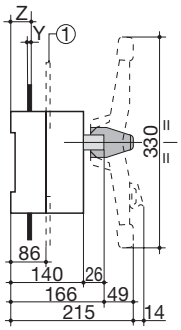
E. S2 type handle

Rating (A) / Frame size		Overall dimensions		Terminal shrouds		Switch body									Switch mounting				Connection											
SIRCO	SIRCO AC	C	D min	AC	AD	F 3p.	F 4p.	G	H	J1 3p.	J1 4p.	J2	K	BC	M 3p.	M 4p.	N	R	T	U	U1	V	W	X1 3p.	X1 4p.	X2	Y	Z	AA	BA	CA
125…160/ B3		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…250 / B4	200…250 / B4			280	60	180	230	108	75	55	105	105	34	115	160	210	80	5.5	50	25	25.5	21.5	11	33	33	27	3.5	22.5	160	130	15
	315 / B4																			35									170		
315…400/ B5	400…500 / B5																						11								
500 / B5	-	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	32	45.5	29		42.5	37.5	37.5	5	36	235	205	15
																							13								
630/ B5	CD 630 / B5																			45		41.5							260	220	20

SIRCO 800 to 1800 A and *SIRCO AC* 630 to 1600 A - B6 to B7

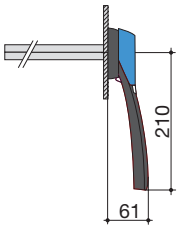
Direct front operation





External front operation

A.



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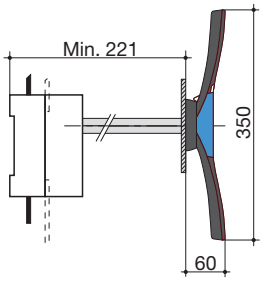

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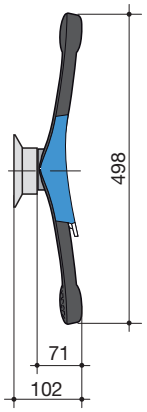

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1. Terminal shroud

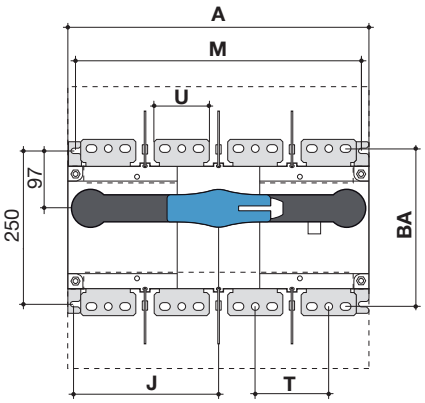
A. Single lever S3 type handle
B. Double lever S4 type handle
C. Double lever S5 type handle

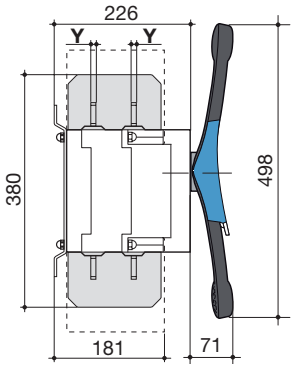
Rating (A) / Frame size		Switch body		Switch mounting		Connection							
SIRCO	SIRCO AC	F 3p.	F 4p.	M 3p.	M 4p.	T	U	V	Y	X1	X2	Z	AA
800 … 1000 / B6	630 … 1000 / B6	280	360	255	335	80	50	60.5	7	47.5	47.5	46.5	321
CD 1250 / B6	CD 1250 /B6						60	65					330
1250 … 1800 / B7	1250 … 1600 / B7	372	492	347	467	120	90	44	8	53.5	53.5	47.5	288

Dimensions - Front operation

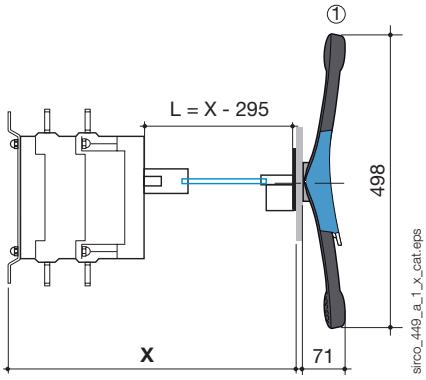
SIRCO 2000 to 3200 A and SIRCO AC 2000 A - B8

Direct front operation





External front operation

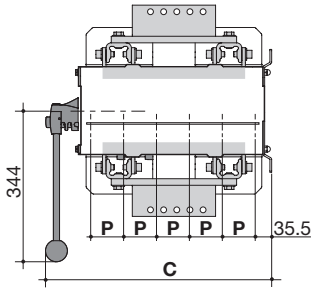


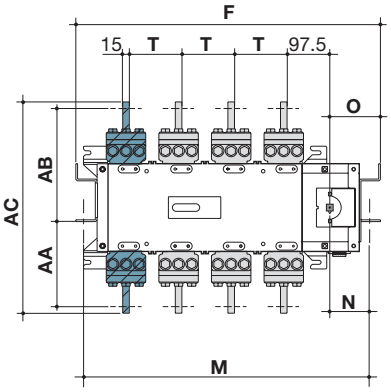
1. Double lever S5 type handle

Rating (A) / Frame size		Overall dimensions		Switch body		Switch mounting		Connection			
SIRCO	SIRCO AC	A 3p.	A 4p.	J 3p.	J 4p.	M 3p.	M 4p.	T	U	Y	BA
2000 … 3200 / B8	2000 / B8	372	492	173.5	233.5	347	367	120	90	8	258

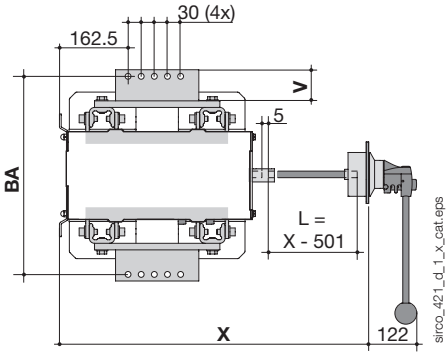
SIRCO 4000 to 5000 A - B9

Direct front operation





External front operation

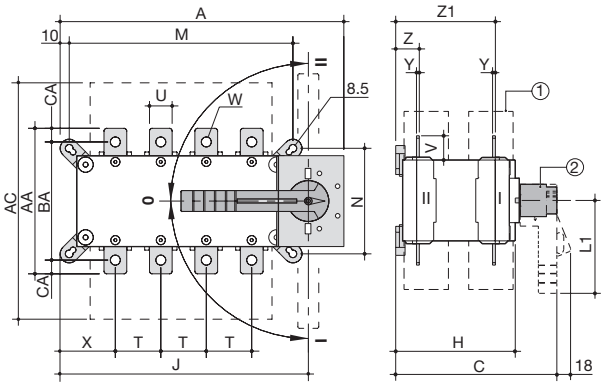


Rating (A) / Frame size		Overall dimensions	Switch body		Switch mounting					Connection					
SIRCO	SIRCO AC	C	F 3p.	F 4p.	M 3p.	M 4p.	N	O	P	T	V	AA	AB	AC	BA
4000 … 5000 / B9	4000 / B9	514	695	695	660	660	98	115.5	75	120	86	160	292	482	452

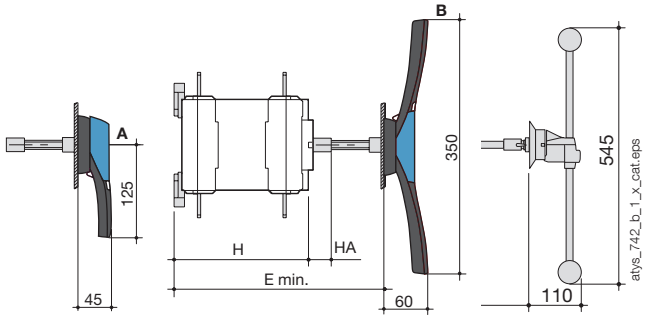
Dimensions - Front operation (continued)

SIRCO 125 to 1600 A - 6 to 8 pole - B3 to B7

Direct front operation



External front operation



1. Terminal shroud
2. Handle for direct control:
   - 125 à 630 A : L1 = 140 mm
   - 800 à 1600 A : L1 = 210 mm

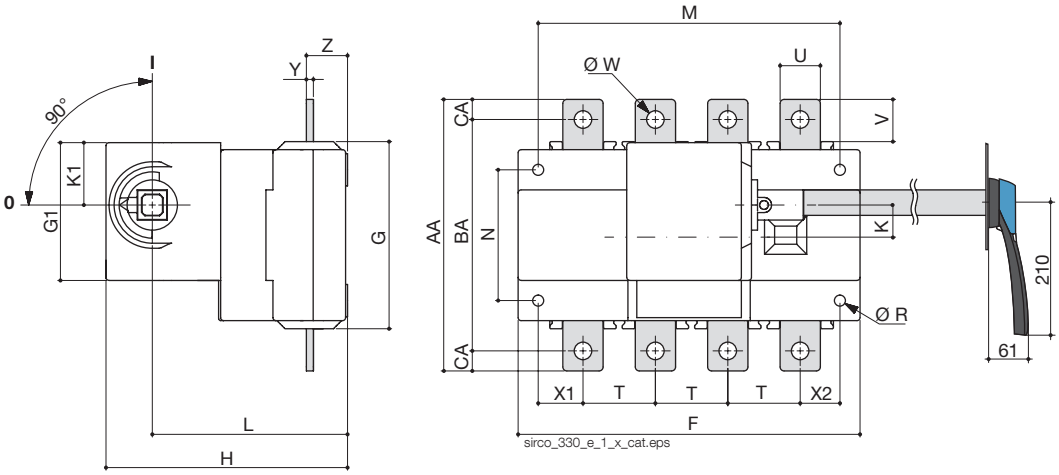
A. S2 type handle for external control: From 125 to 160 A
B. S4 type handle for external control: From 250 to 630 A
C. V1 type handle for external control: From 800 to 1600 A

Rating (A) / Frame size	Perimeter dimensions				Terminal shroud	Boîtier				Fixations			Raccordement											
	A 3p.	A 4p.	C	E min	CA	H	HA	J 3p.	J 4p.	M 3p.	M 4p.	N	T	U	V	I	X 3p.	X 4p.	O	Z	Z1	AA	BA	CA
125 / B3	221	251	218	208 … 436	235	148	25	182	212	156	186	101	36	20	25	8,5	56	50	3,5	28	124	135	115	10
160 / B3	221	251	218	208 … 436	235	148	25	182	212	156	186	101	36	20	25	8,5	56	50	3,5	28	124	135	115	10
200 / B3	221	251	218	208 … 436	235	148	25	182	212	156	186	101	36	20	25	8,5	56	50	3,5	28	124	135	115	10
250 / B4	262	312	218	208 … 436	280	148	25	223	273	196	246	116	50	25	30	11	61	61	3,5	30	124	160	130	15
315 / B4	262	312	218	208 … 436	280	148	25	223	273	196	246	116	50	35	35	11	61	61	3,5	30	124	170	140	15
400 / B4	262	312	218	208 … 436	280	148	25	223	273	196	246	116	50	35	35	11	61	61	3,5	30	124	170	140	15
500 / B5	319	379	295	285 … 513	401	225	25	272	332	246	306	176	65	32	37	13	70,5	65,5	5	43	180	235	205	15
630 / B5	319	379	295	285 … 513	400	225	25	272	332	246	306	176	65	45	50	13	70,5	65,5	5	43	180	260	220	20
800 / B6	386	466	375	425 … 577	459	298	29	306,5	386,5	255	336	250	80	50	60,5	15	48	48	7	66,5	253,5	321		26,5
1000 / B6	386	466	375	425 … 577	459	298	29	306,5	386,5	255	336	250	80	50	60,5	15	48	48	7	66,5	253,5	321		26,5
1250 / B6	386	466	375	425 … 577	459	298	29	306,5	386,5	255	336	250	80	60	65	16x11	48	48	7	66,5	255,5	330		29,5
1600/B7	478	598	375	425 … 577	461	298	29	388,5	518,5	347	467	250	120	90	43,5	12,5x5	54	54	8	66,5	255,5	288		15

Dimensions - Side operation

SIRCO 125 à 630 A - B3 à B5

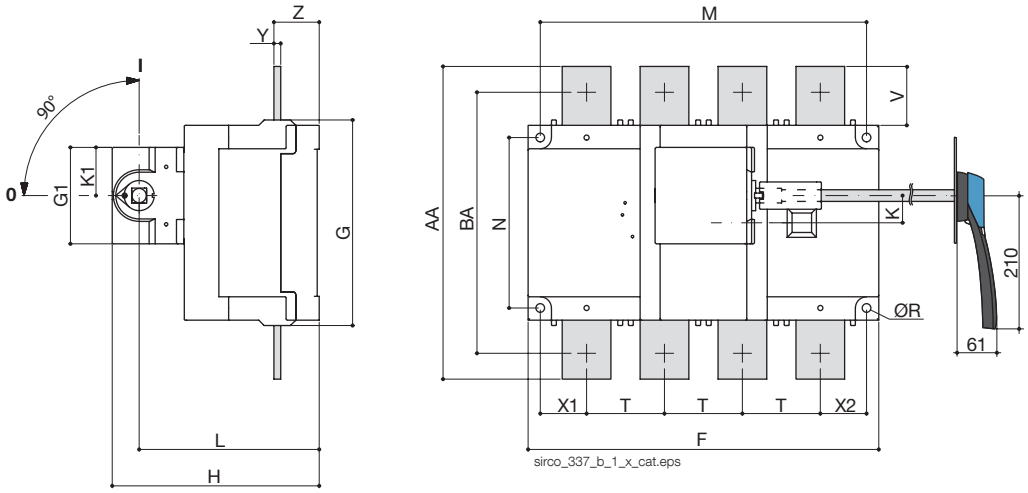
Exterior right side operation



Calibre (A) / Taille du boîtier	Case					Mounting accessory							Connection											
SIRCO Latéral	F 3p.	F 4p.	G	G1	H	K	K1	L	M 3p.	M 4p.	N	R	T	U	V	W	X1 3p.	X1 4p.	X2	Y	Z	AA	BA	CA
125 ... 160 / B3	140	170	93		120	15		97	120	150	65	5,5	36	20	25	9	28	22	20	3,5	20,5	135	115	10
200 ... 250 / B4	180	230	108		130	20		108	160	210	80		50	25	21,5	11	33	33	27		22,5	160	130	
315 ... 400 / B5				69			31							32	29							235	205	15
500 / B5	230	290	170		165	29		142	210	270	140	7	65			13	42,5	37,5	37,5	5	36			
630 / B5														45	41,5							260	220	20

SIRCO 800 à 1800 A - B6 à B7

Exterior right side operation

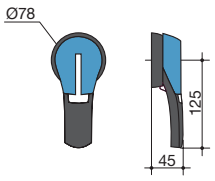


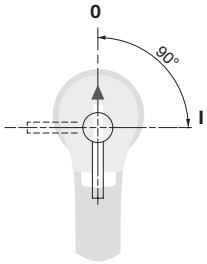
Rating (A) / Frame size	Case					Mounting accessory							Connection							
SIRCO Latéral	F 3p.	F 4p.	G	G1	H	K	K1	L	M 3p.	M 4p.	N	R	T	V	X1	X2	Y	Z	AA	BA
800 / B6	280	360	211	99	213	28	50	185	255	335	175	9	80	60,5	47,5	47,5	7	46,5	321	268
CD 1 250 / B6														65					330	271
1800 / B7	372	492							347	467			120	44	53,5	53,5	8	47,5	288	258

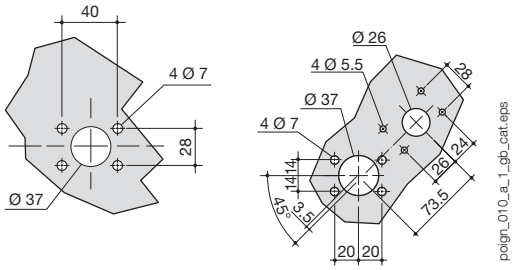
Dimensions for external handles

B3 to B5

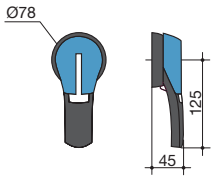
Handle type	Front operation Direction of operation	Door drilling
S2 type		With lock RONIS EL11AP

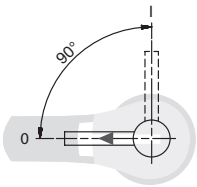


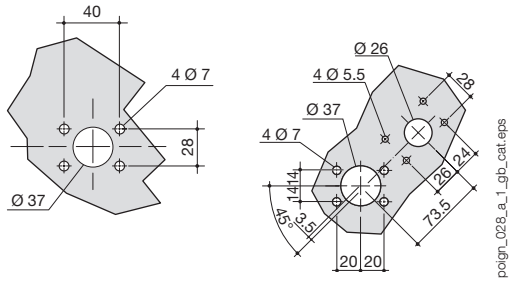




Handle type	Side operation Direction of operation	Door drilling
S2 type		With lock RONIS EL11AP

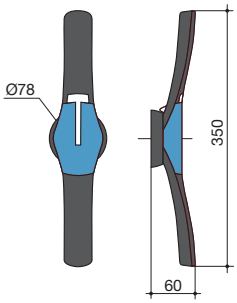


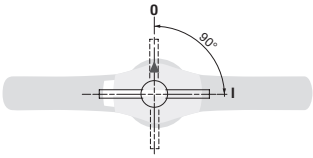


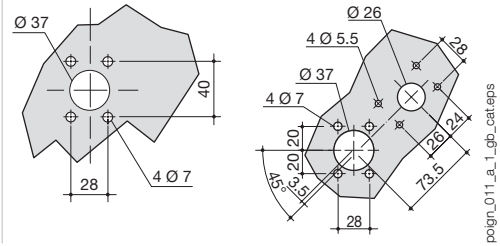


B6 - B7

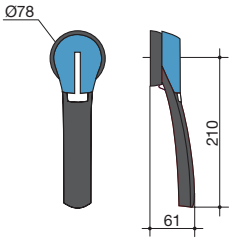
Handle type	Front operation Direction of operation	Door drilling
S4 type		With lock RONIS EL11AP

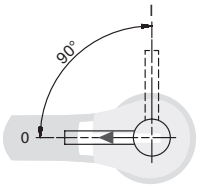


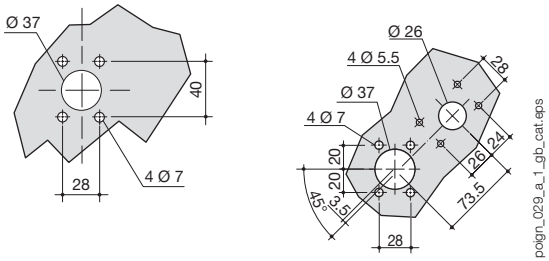




Handle type	Side operation Direction of operation	Door drilling
S3 type	Right side operation	With lock RONIS EL11AP

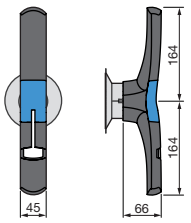
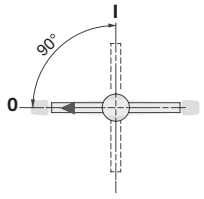
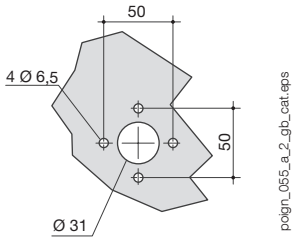


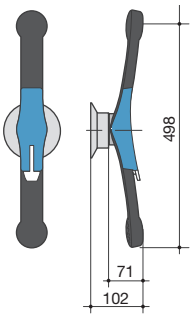
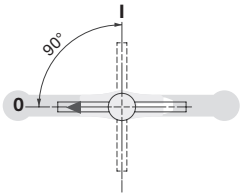
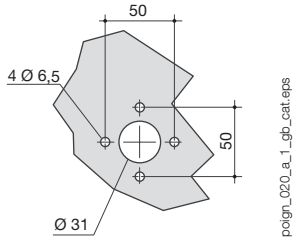




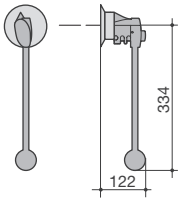
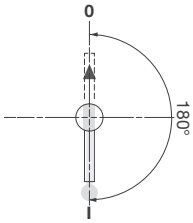
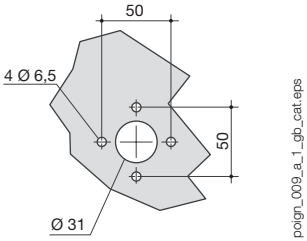
Dimensions for external handles

B7 - B8

Handle type	Front operation Direction of operation	Door drilling
V2 type 		

Handle type	Front operation Direction of operation	Door drilling
S5 type with V Escutcheon 		

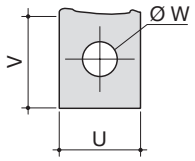
B9

Handle type	Front operation Direction of operation	Door drilling
S0 type 		

Connection terminals

SIRCO 125 to 630 A and *SIRCO AC* 200 to CD 630 A

SIRCO



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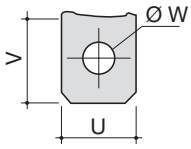
SIRCO AC

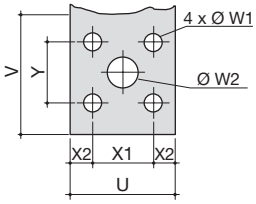


sirco_451_b_1_x_cat.eps

Rating (A)				
SIRCO	**SIRCO AC**	**U**	**V**	**W**
125 … 160		20	25	9
200 … 250	200 … 250	25	21.5	11
	315	35		
315 … 400	400 … 500	32	29	
500				13
630	CD 630	45	41.5	

SIRCO 800 to 1000 A and *SIRCO AC* 630 to 1000 A

SIRCO



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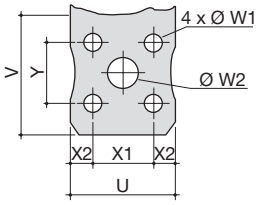
SIRCO AC

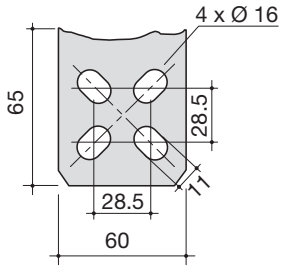


sirco_453_b_1_x_cat.eps

Rating (A)								
SIRCO	**SIRCO AC**	**U**	**V**	**W1**	**W2**	**X1**	**X2**	**Y**
800 … 1000	630 … 1000	50	60.5	9	15	33	8.5	33

SIRCO and *SIRCO AC* CD 1250 A

SIRCO



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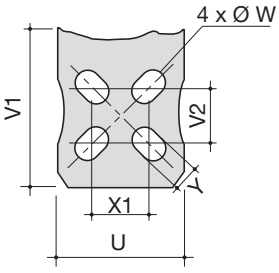
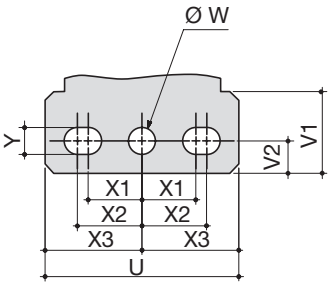
SIRCO AC



sirco-ac_002_c_1_x_cat.eps

Rating (A)							
SIRCO	**SIRCO AC**	**U**	**V1**	**V2**	**W**	**X1**	**Y**
CD 1250 A	CD 1250 A	60	65	28.5	16	28.5	11

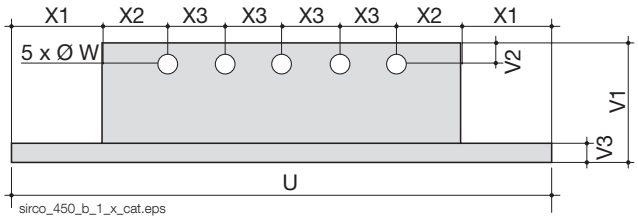
SIRCO 1250 to 3200 A and *SIRCO AC* 1250 to 2000 A



sirco_455_a_1_x_cat.eps

Rating (A)									
SIRCO	**SIRCO AC**	**U**	**V1**	**V2**	**W**	**X1**	**X2**	**X3**	**Y**
1250 … 3200	1250 … 2000	90	35.8	15	12.5	25	30	45	12.5

SIRCO 4000 to 5000 A



sirco_450_b_1_x_cat.eps

Rating (A)									
SIRCO	**SIRCO AC**	**U**	**W**	**X1**	**X2**	**X3**	**V1**	**V2**	**V3**
4000 … 5000	4000	286	13	48	35	30	86	15	15