

SIRCO

Load break switches for power distribution
from 125 to 5000 A



***SIRCO AC** 3 x 250 A*
direct handle



***SIRCO** 3 x 250 A*
direct operation

Function

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

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").

Advantages

Reliability and performance
The double breaking per pole, achieved through its sliding bar contact system, is a proven design that offers very high durability and short-circuit withstand. Improved breaking performance with quick opening and rapid closure.

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

Simplicity
The standardisation of the SIRCO and SIRCO AC range and its wide choice of common accessories enable:
- Simple mounting.
- Reduced stock management and storage costs.

Easy to install
The outdoors ranges are easy to install thanks to:
- A good centre-to-centre distance (up to 120 mm).
- Connection up to 6 x 185 mm².
- Connection accessories which facilitate both flat and edgewise connections.

The solution for
- Main switchboard
- Distribution panel
- Emergency breaking
- Network coupling
- Local safety breaking



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

Compliance with standards
- IEC 60947-3

Approvals and certifications(1)
BUREAU VERITAS

(1) Product reference on request.

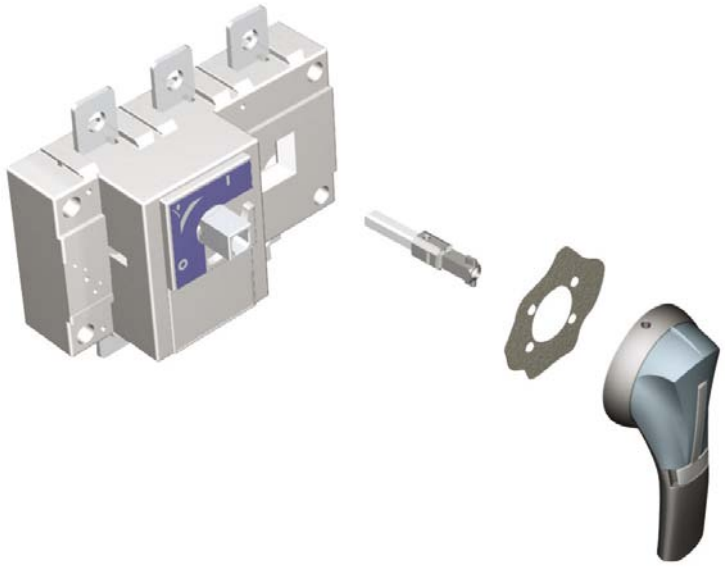
Enclosures
- The SIRCO and SIRCO AC range can be easily fitted in our enclosures and cabinets designed for electrical distribution.



socomec Innovative Power Solutions

What you need to know

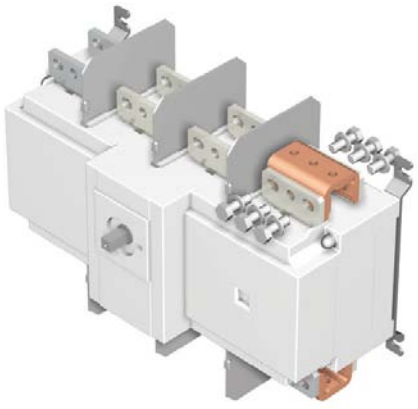
- In front **direct** or **external** operation, SIRCO is available in 3 and 4-pole versions from 125 to 5000 A.
- It can be ordered in 6 or 8-pole versions from 125 to 1600 A.
- SIRCO is available in a polyester or sheet metal enclosure from 125 to 1250 A.



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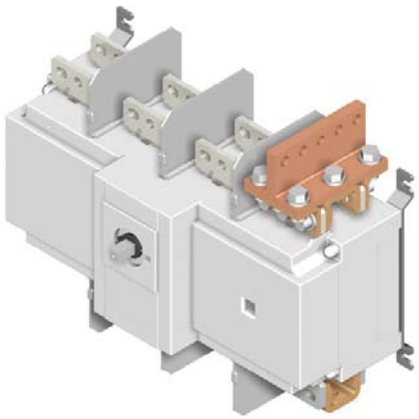
For ratings 2000, 2500 and 3200A, a copper **bar connection kit** enables the connection between the two power terminals of one pole.

Flat connection
top or bottom



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Edgewise connection
top or bottom



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SIRCO - References

Standard applications - Front operation - 3 & 4-pole

Rating (A) / Frame size	No. of poles	Switch body(1)	Direct handle	External handle	Shaft for external handle	Auxiliary contact	Terminal shrouds	Terminal screens
125 A / B3	3 P	2600 **3014**	B1 type Black 2699 **5042**(2) Red 2699 **5043**	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**	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**	B2 type Black 2699 **5052**(2) Red 2699 **5053**				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**	C2 type Black 2799 **7012**(2) Red 2799 **7013**	Type S4 Black IP65 1443 **3111**(2) Red 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**						
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	3 P	2600 **3200**		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	3 P	2600 **3250**						
	4 P	2600 **4250**						
3200 A / B8	3 P	2600 **3320**						
	4 P	2600 **4320**						
4000 A / B9	3 P	2600 **3401**	V0 type Black 2799 **7072**(2)	V0 type Black IP65 2799 **7155**(2)		1st/2nd NO/NC contact 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" page 726).
(2) Standard.
(3) Top or bottom.

SIRCO AC - References

Heavy duty applications - Front operation 3 & 4 pole

Rating (A) / Frame size	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	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**	1st contact NO/NC 2699 **0031** 2nd contact NO/NC 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 Black 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**			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	3 P	26AC **3200**	S5 type Black 2799 **7042**(1) Red 2799 **7043**	S5 type Black IP65 1453 **8111**(1) Red IP65 1454 **8111**	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**						
4000 A / B9	3 P	26AC **3400**	V0 type Black 2799 **7072**(1)	V0 type Black 2799 **7155**(1)		1st / 2nd included		3/4P 1509 **4200**(4)
	4 P	26AC **4400**						

(1) Standard.
(2) Mandatory for voltage greater than 415 VAC.
(3) Top or bottom.
(4) Top and bottom.

SIRCO - References

Standard applications - Front operation - 6 & 8-pole

Rating (A) / Frame size	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contact	Terminal shrouds	Terminal screens
125 A / $B3_{DS}$	6 P	2601 **6013**	Type B3 Black 4199 **5012**(1)	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**	Type C1 Black 2799 **7052**(1) Red 2799 **7053**	Type S4 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**	C2 type Black 2799 **7012**(1) Red 2799 **7013**	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 at the front of the device.

Accessories

Direct operation handle

SIRCO direct operation handle

Rating (A) / Frame size	No. of poles	Handle type	Handle colour	Reference
125 … 160 / B3	3/4 P	B1	Black	2699 **5042**(1)
125 … 160 / B3	3/4 P	B1	Red	2699 **5043**
125 … 160 / $B3_{DS}$	6/8 P	B3	Black	4199 **5012**(1)
200 ... 630 / B4-B5	3/4 P	B2	Black	2699 **5052**(1)
200 ... 630 / B4-B5	3/4 P	B2	Red	2699 **5053**
250 … 630 / $B4_{DS}$-$B5_{DS}$	6/8 P	C1	Black	2799 **7052**(1)
250 … 630 / $B4_{DS}$-$B5_{DS}$	6/8 P	C1	Red	2799 **7053**
800 ... 3200 / B6...B8	3/4 P	C2	Black	2799 **7012**(1)
800 ... 3200 / B6...B8	3/4 P	C2	Red	2799 **7013**
800 ... 1600 / $B6_{DS}$-$B7_{DS}$	6/8 P	C2	Black	2799 **7012**(1)
800 ... 1600 / $B6_{DS}$-$B7_{DS}$	6/8 P	C2	Red	2799 **7013**
4000 … 5000 / B9	3/4 P	V0	Black	2799 **7072**(1)

(1) Standard.

SIRCO AC direct operation handle

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	Black	1142 **1111**(1)
630 … 1600 / B6 … B7	3/4 P	J4	Red	1143 **1111**
2000 / B8	3/4 P	S5	Black	2799 **7042**(1)
2000 / B8	3/4 P	S5	Red	2799 **7043**
4000 / B9	3/4 P	V0	Black	2799 **7072**(1)

(1) Standard.



J1 type handle | B2 type handle | C2 type handle | S5 type handle

Door interlocked external operation handle

SIRCO and SIRCO AC external front operation handle

Rating (A) / Frame size		No. of poles	Handle type	Handle colour	External IP(1)	Reference
SIRCO	SIRCO AC					
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**
				Red	IP65	1454 **8111**
4000 … 5000 / B9	4000 / B9	3/4 P	V0	Black	IP65	2799 **7155**(2)

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

Use

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



S2 type handle | S3 type handle | S4 type handle | S5 type handle

Accessories (continued)

Shaft for external operation

For 3/4 pole SIRCO and SIRCO AC

Rating (A) / Frame size SIRCO	SIRCO AC	Dimension X (mm)	Length (mm)	Reference
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**

For 6/8-pole SIRCO

Rating (A) / Frame size	Dimension X (mm)	Length (mm)	Reference
125 ... 160 / $B3_{DS}$	270 ... 436	200	1400 **1020**
125 ... 160 / $B3_{DS}$	270 ... 556	320	1400 **1032**
250 ... 630 / $B4_{DS}$-$B5_{DS}$	221 ... 308	200	1401 **1520**
250 ... 630 / $B4_{DS}$-$B5_{DS}$	221 ... 428	320	1401 **1532**
250 ... 630 / $B4_{DS}$-$B5_{DS}$	221 ... 508	400	1401 **1540**

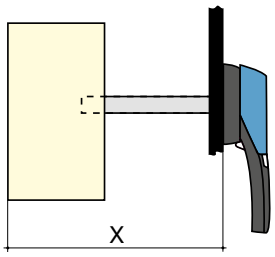
Use

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

Other lengths available:
- please consult us.


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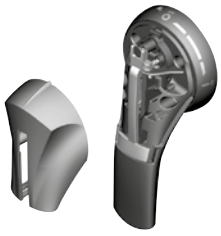
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Alternative handle cover colours

Use

For S type handles.

Handle colour	To be ordered 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**
Dark grey	50	S4	1401 **0041**


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S type cover

S type handle adapter

Use

Adds 12 mm to the depth of the handle.

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

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


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Shaft guide for external operation

Use

For 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**

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

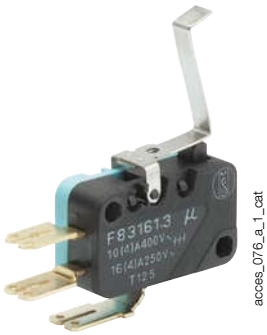
NO/NC A/C: IP2 with front operation.

Connection to the control circuit

6.35 mm fast-on terminal.

Electrical characteristics

30 000 operations.





NO/NC contact for 3/4 pole SIRCO and SIRCO AC		
Rating (A) / Frame size	**Position A/C**	**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 A/C**	**Reference**
125 … 1600 / $B3_{DS}$ … $B7_{DS}$	1st	2699 **0061**
125 … 1600 / $B3_{DS}$ … $B7_{DS}$	2nd	2699 **0062**

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

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

Characteristics

			Operating current I_e (A)									
			230 VAC		400 VAC		24 VDC			48 VDC		
Rating (A) / Frame size	**Contact type**	**Current nominal (A)**	**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 barrier

Use

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



For 3/4 poles SIRCO and SIRCO AC

Rating (A) / Frame size			
SIRCO	**SIRCO AC**	**No. of poles**	**Reference**
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 360 / B5	3 P	2998 **0013**
315 … 630 / B5	315 … CD 360 / B5	4 P	2998 **0014**
800 … 5000 / B6 … B9	630 … 4000 / B6 … B9	3 P	included
800 … 5000 / B6 … B9	630 … 4000 / B6 … B9	4 P	included

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 from 125 to 630 A.



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For 3/4 poles SIRCO and SIRCO AC

Rating (A) / Frame size				
SIRCO	SIRCO AC	No. of poles	Position	Reference
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

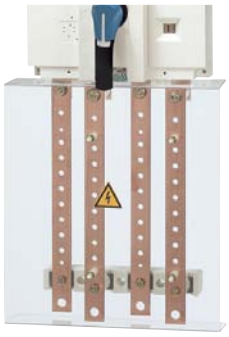
Rating (A) / Frame size	No. of poles	Position	Reference
125 ... 160 / $B3_{DS}$	6 P	Top or bottom	2694 **3014**(1)(3)
125 ... 160 / $B3_{DS}$	8 P	Top or bottom	2694 **4014**(2)(3)
250 / $B4_{DS}$	6 P	Top or bottom	2694 **3021**(1)(3)
250 / $B4_{DS}$	8 P	Top or bottom	2694 **4021**(2)(3)
400 ... 630 /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



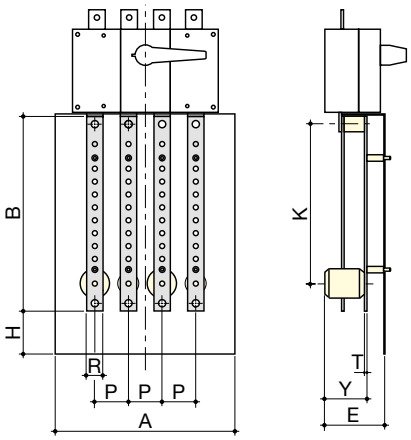
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For 3/4-pole SIRCO

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



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Innovative Power Solutions

Terminal screens

Use

Top or bottom protection from direct contact with terminals or connection parts.



For 3/4 poles 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	4000 / B9	3/4 P	top or bottom	1509 **4200**

For 6/8-pole SIRCO

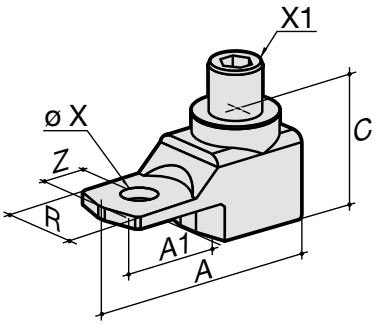
Rating (A) / Frame size	No. of poles	Position	Reference
125 ... 160 / $B3_{DS}$	6 P	Top or bottom	1509 **3012**
125 ... 160 / $B3_{DS}$	8 P	Top or bottom	1509 **4012**
250 / $B4_{DS}$	6 P	Top or bottom	1509 **3025**
250 / $B4_{DS}$	8 P	Top or bottom	1509 **4025**
400 ... 630 / $B5_{DS}$	6 P	Top or bottom	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 a direct terminal-free connection to rigid copper and aluminium conductors with integration under the IP2X protective cover.

Material: tin-plated aluminium



Dimensions

Rating (A) / Frame size	A	A1	C	T	R	T	ØX	X1	Z
125 ... 160 / B3	47.5	22.5	25	12	20	3.5	8.5	M12	10
200 ... 250 / B4	62	31.5	31.5	16.5	25	2.5	10.5	M16	14
315 ... 400 / B5	71.5	32	38	9	32	5	10.5	M20	15
500 ... 630 / B5	76.5	37	38	9	40	5	12.5	M20	15

References

Rating (A) / Frame size	Tightening capacity (mm²)	No. of poles	Tightening torque (Nm)	Flexible bar 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 allow 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.

Further details for these specific accessories are available in the user guide downloadable from www.socomec.com.

Top or bottom flat 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 top only: order 3 times the indicated quantity.

Fig. 1

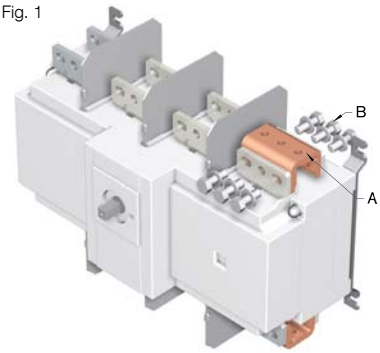
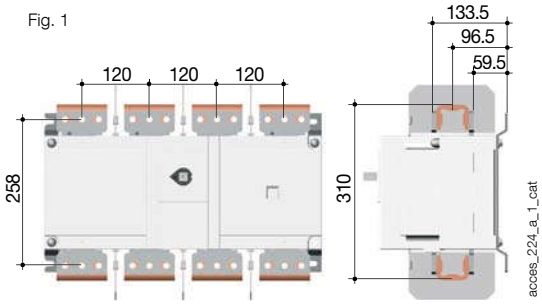


Fig. 1



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 top only: order 3 times the indicated quantity.
(2) Bolt set is provided with the accessories.

Fig. 2

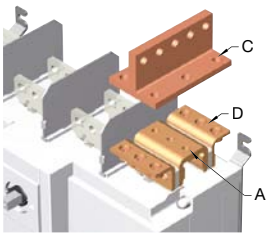
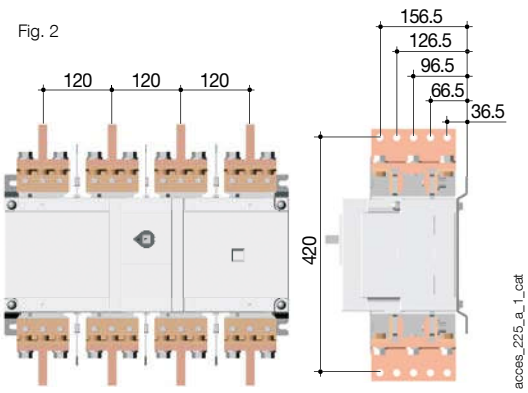


Fig. 2



Key handle interlocking system

Use

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

- using a padlock (not supplied) and standard padlocking function of the handle. From 125 to 1800 A, padlocking the external front operation 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 / 8-pole, please consult us.

Fig. 1

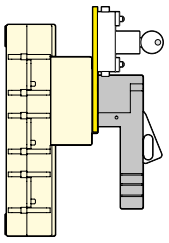


Fig. 2

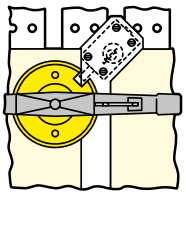


Fig. 3

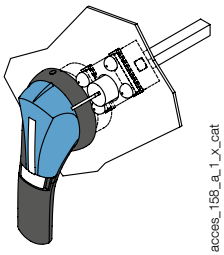
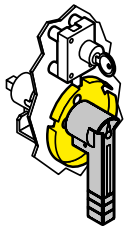


Fig. 4



For SIRCO
Locking using RONIS EL11AP lock (not supplied)

Rating (A) / Frame size	No. of poles	Operation	Figure	Reference
125 ... 630 / B3 ... B5	3/4 P	Front direct	1	2699 **6008**(1)
125 ... 1800 / B3 ...B7	3/4 P	External front	3	1499 **7701**
800 ... 3200 / B6 ...B8	3/4 P	Front direct	2	2699 **6027**
1250 ... 5000 / B7 ...B9	3/4 P	External front	4	2799 **7002**

(1) Front operation handle included.

For SIRCO AC

Locking using RONIS EL11AP lock (not supplied)				
Rating (A) / Frame size	**No. of poles**	**Operation**	**Figure**	**Reference**
200 ... CD 630 / B4 ... B5	3/4 P	Front direct	1	2699 **6011**(1)
630 ... 1600 / B6 ... B7	3/4 P	Front direct	2	2699 **6028**

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

For SIRCO
Locking using 230 VAC undervoltage coil

(For other voltages, please contact us)

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	Front direct	2699 **9315**(1)

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

Locking using CASTELL lock (not supplied)						
Rating (A) / Frame size	**No. of poles**	**Handle type**	**Lock type**	**Operation**	**Figure**	**Reference**
125 ... 160 / B3	6/8 P	S2	K	External front	2	4109 **8507**
125 ... 1 800 / B3 ... B8	3/4 P	S2, S4	FS	External front	3	1499 **7703**
125 ... 1 800 / 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 ... 1 600 / B6 ... B7	6/8 P	S5	K	External front	2	2799 **7003**
1 250 ... 4 000 / B7 ... B9	3/4 P	S5, S0	K	External front	2	2799 **7003**

Other specific accessories



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

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(3) / 125(3)	160(3) / 160(3)	160(3) / 200(3)	200(3) / 200(3)	315(3) / 315(3)	400(3) / 400(3)	400(3) / 400(3)	500(3) / 500(3)	800(4) / 800(4)
440 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)	400(3) / 400(3)	400(3) / 400(3)	500(3) / 500(3)	800(4) / 800(4)
440 VDC	DC-23 A / DC-23 B	125(4) / 125(4)	125(4) / 125(4)	160(4) / 160(4)	200(4) / 200(4)	315(4) / 315(4)	400(4) / 400(4)	400(4) / 400(4)	500 / 500	800(4) / 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(3) / 125(3)	125(3) / 125(3)	160(3) / 200(3)	200(3) / 200(3)	315(3) / 315(3)	400(3) / 400(3)	400(3) / 400(3)	500(3) / 500(3)	800(4) / 800(4)
500 VDC	DC-22 A / DC-22 B	125(4) / 125(4)	125(4) / 125(4)	160(4) / 160(4)	200(4) / 200(4)	315(4) / 315(4)	315(4) / 400(4)	315(4) / 400(4)	500(4) / 500(4)	800(4) / 800(4)
500 VDC	DC-23 A / DC-23 B	125(4) / 125(4)	125(4) / 125(4)	160(4) / 160(4)	200(4) / 200(4)	315(4) / 315(4)	315(4) / 400(4)	315(4) / 400(4)	500(4) / 500(4)	800(4) / 800(4)
Operational power in AC-23 (kW)(1)(5)										
At 415 VAC without AC pre-break(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)(5)		55	75	90	115	145	185	230	290	365
gG DIN fuse protected short-circuit withstand (kA rms prospective)(6)										
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 (switch only)										
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)(6)(7)		20	20	30	30	45	45	45	45	55
Connection										
Minimum Cu cable cross-section (mm²)		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 Cu cable cross-section (mm²)		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/max (Nm)		9 / -	9 / -	20 / -	20 / -	20 / -	20 / -	20 / -	40 / 45	40 / 45
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) With terminal shrouds or phase barrier.
(3) 3-pole device with 2 poles in series for the '+' and 1 pole for the '-'.
(4) 4-pole device with 2 poles in series per polarity.
(5) The power value is given for information only, the current values vary from one manufacturer to another.
(6) For a rated operational voltage U_e = 415 VAC.
(7) Coordination tables with circuit breaker: please consult 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(4) / 1000(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1600(4)	1250(4) / 1600(4)	2000(4) / 2000(4)	2000(4) / 2500(4)	2500(4) / 3200(4)	3200(4) / 4000(4)	3200(4) / 5000(4)
440 VDC	DC-22 A / DC-22 B	1000(4) / 1000(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1600(4) / 1800(4)	1600(4) / 1800(4)
440 VDC	DC-23 A / DC-23 B	1000(4) / 1000(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)
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(4) / 1000(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1600(4)	1250(4) / 1600(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1600(4) / 1800(4)	1600(4) / 1800(4)
500 VDC	DC-22 A / DC-22 B	1000(4) / 1000(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1600(4)	1250(4) / 1600(4)
500 VDC	DC-23 A / DC-23 B	1000(4) / 1000(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1250(4) / 1250(4)	1000(4) / 1000(4)	1000(4) / 1000(4)	1000(4) / 1000(4)	1000(4) / 1000(4)	1000(4) / 1000(4)
Operational power in AC-23 (kW)(1)(5)											
At 415 VAC without AC pre-break(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)(5)		460									
gG DIN fuse protected short-circuit withstand (kA rms prospective)(6)											
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 (switch only)											
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)(6)(7)		80	80	110	110	110	110	110	120	165	165
Connection											
Minimum Cu cable cross-section (mm^2)		2 x 240									
Minimum Cu busbar cross-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	2 x 200 x 10	2 x 200 x 10
Maximum Cu cable cross-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/max (Nm)		40/45	40/45	40/45	40/45	40/45	40/45	40/-	40/-	40/-	40/-
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) With terminal shrouds or phase barrier.
(3) 3-pole device with 2 poles in series for the '+' and 1 pole for the '-'.
(4) 4-pole device with 2 poles in series per polarity.
(5) The power value is given for information only, the current values vary from one manufacturer to another.
(6) For a rated operational voltage U_e = 415 VAC.
(7) Coordination tables with circuit breaker: please consult us.

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 A (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 (kA rms prospective) 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 capacity (without protection)								
Rated short-time withstand current 1s. I_{cw} (kA rms)		8	8	8	11	11	11	20
Rated short-circuit making capacity without fuses I_{cm} (kA peak)		22	22	22	22	22	22	40
Connection								
Maximum Cu cable cross-section (mm^2)		70	70	70	185	240	2 x 150	2 x 185
Minimum Cu busbar cross-section (mm^2)							2 x 30 x 5	2 x 40 x 5
Maximum Cu cable cross-section (mm^2)		95	95	95	240	240	2 x 300	2 x 300
Maximum Cu busbar width (mm)		32	32	32	40	40	63	63
Tightening torque min/max (Nm)		20/-	20/-	20/-	20/-	20/-	20/-	40/45
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 phase barrier.
(3) 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 = 690 VAC.

SIRCO AC characteristics according to IEC 60947-3

800 to 4000 A

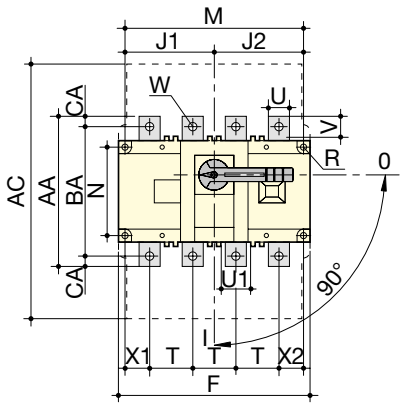
Thermal current I_{th} at 40°C		**800 A**	**1000A**	**CD 1250 A**	**1250 A**	**1600 A**	**2000 A**	**4000 A**
Rated insulation voltage U_i (V)		1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)		12	12	12	12	12	12	12
Rated operational currents I_e (A)								
Rated voltage	**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	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000	4000/4000
500 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000	-/3200
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	4000/4000
690 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1250/1250	1600/1600	2000/2000	-/3200
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 A (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 (kA rms prospective) 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	53
Short-circuit capacity (without protection) at 690 VDC								
Rated short-time withstand current 1s. I_{cw} (kA rms)		20	30	30	35	35	35	35
Rated short-circuit making capacity without fuses I_{cm} (prospective kA peak)		40	80	80	75	75	75	75
Connection								
Maximum Cu cable cross-section (mm^2)		2 x 185	2 x 240					
Minimum Cu busbar cross-section (mm^2)		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	1 x 100 x 5
Maximum Cu cable cross-section (mm^2)		2 x 300	4 x 185	4 x 185	4 x 185	6 x 185		
Maximum Cu busbar width (mm)		63	63	63	100	100	100	
Tightening torque min/max (Nm)		40/45	40/45	40/45	40	40	40	40
Mechanical characteristics								
Durability (number of operating cycles)		4000	4000	3000	4000	4000	3000	2000
Operating effort (Nm)		48	48	48	55	55	75	100
Weight of a 3 pole device (kg)		8	8	8	12	12	22	45
Weight of a 4 pole device (kg)		10	10	10	15	15	25	50

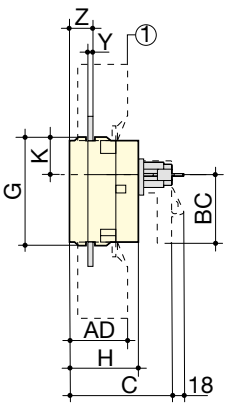
(1) Category with index A = frequent operation - Category with index B = infrequent operation.
(2) With terminal shrouds or phase barrier.
(3) The power value is given for information only, the current values vary from one manufacturer to another.
(6) For a rated operational voltage Ue = 690 VAC.

Dimensions - Front operation

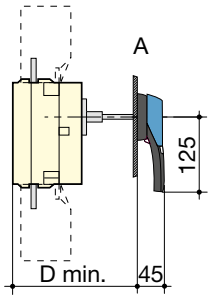
SIRCO 125 to 630 A and SIRCO AC 200 to CD 630 A - B3 to B5

Direct front operation





External front operation



sirco_198_l_1_x_cat

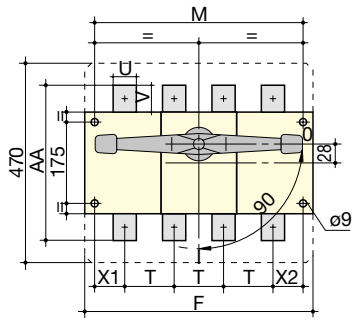
1. Terminal shrouds

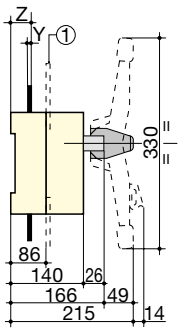
A. S2 type handle

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	20	25.5	21.5	11	33	33	27	3.5	22.5	160	130	15
	315 / B4																			35											
315…400/ B5	400…500 / B5	160	165	401	89	230	290	170	110	75	135	135	55	115	210	270	140	7	65	32	45.5	29	11	42.5	37.5	37.5	5	36	235	205	15
500 / B5	-																														
630/ B5	CD 630 / B5																			45		41.5	13						260	220	20

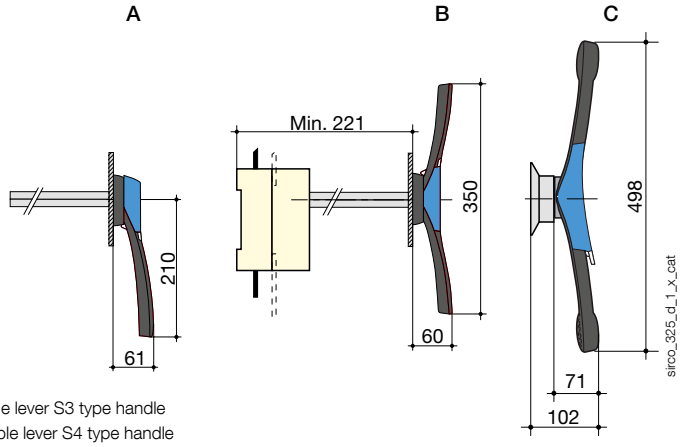
SIRCO 800 to 1800 A and SIRCO AC 630 to 1600 A - B6 to B7

Direct front operation





External front operation



sirco_325_d_1_x_cat

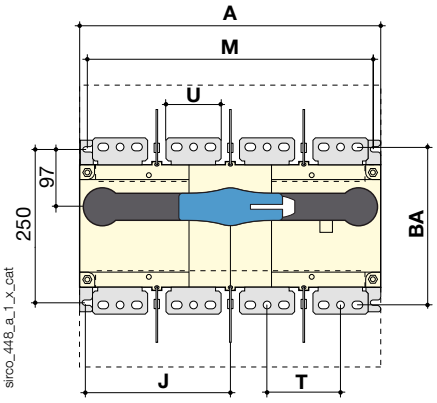
1. Terminal screens

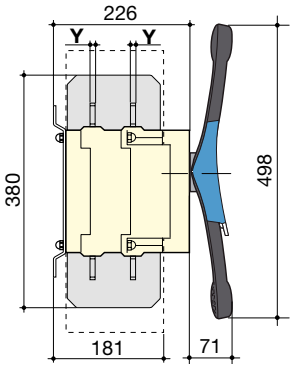
A. Single lever S3 type handle
B. Double lever S4 type handle
C. Double lever S5 type handle

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

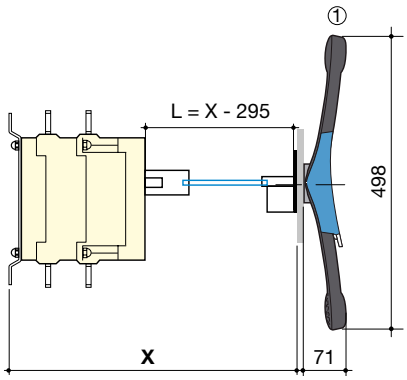
SIRCO 2000 to 3200 A and SIRCO AC 2000 A - B8

Direct front operation





External front operation

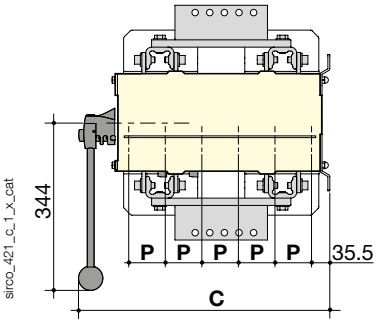


1. Double lever S5 type handle

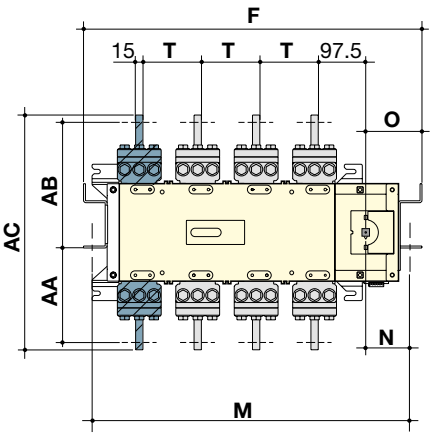
Rating (A) / Frame size		Overall dimensions		Switch body		Switch mounting		Connection			
SIRCO	SIRCO AC	A 3p.	A 4p.	J 3p.	J 4p.	M 3p.	M 4p.	T	U	Y	BA
2000 … 3200 / B8	2000 / B8	372	492	173.5	233.5	347	367	120	90	8	258

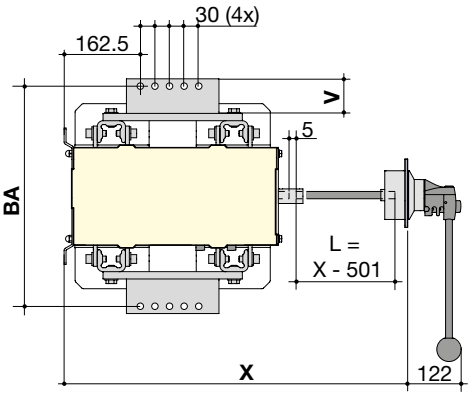
SIRCO 4000 to 5000 A and SIRCO AC 4000 A - B9

Direct front operation



External front operation





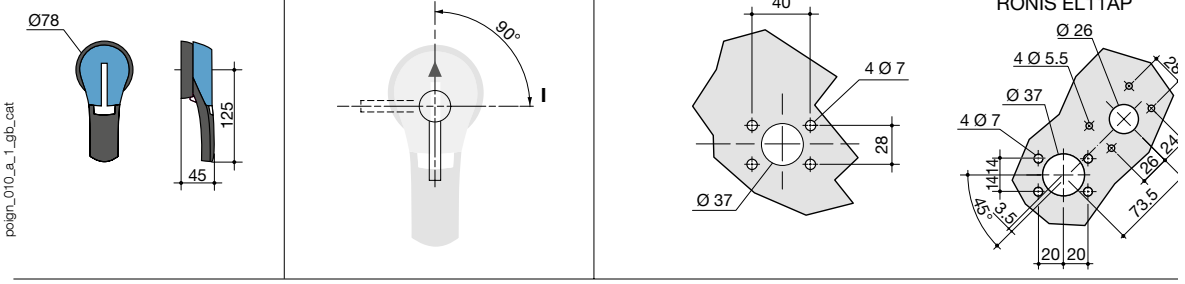
Rating (A) / Frame size		Overall dimensions	Switch body		Switch mounting					Connection					
SIRCO	SIRCO AC	C	F 3p.	F 4p.	M 3p.	M 4p.	N	O	P	T	V	AA	AB	AC	BA
4000 … 5000 / B9	4000 / B9	514	695	695	660	660	98	115.5	75	120	86	160	292	482	452

Dimensions for external handles

B3 to B5

Front operation

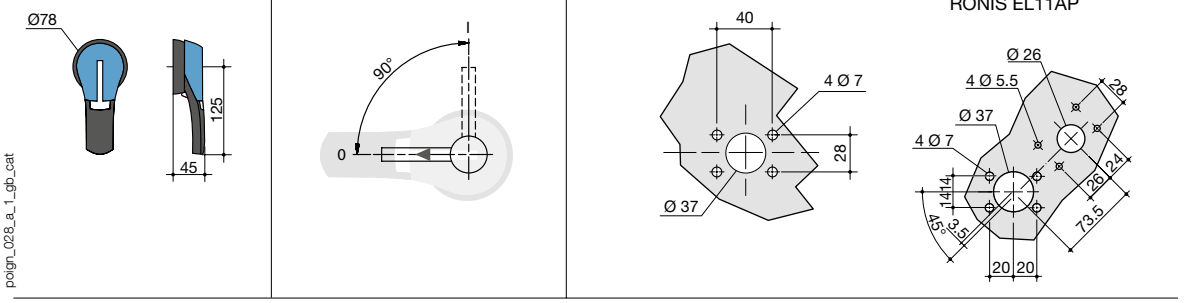
Handle type	Direction of operation	Door drilling
S2 type	0 / 90° / I	With lock RONIS EL11AP



poign_010_a_1_gb_cat

Side operation

Handle type	Direction of operation	Door drilling
S2 type	**Right** side operation	With lock RONIS EL11AP

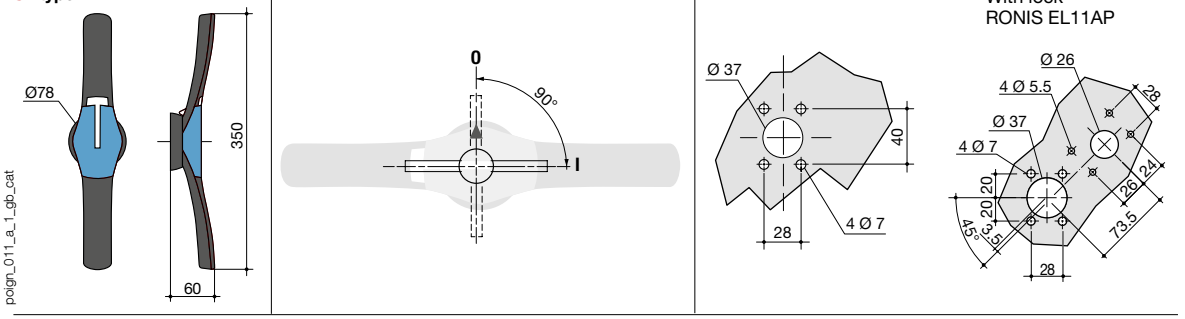


poign_028_a_1_gb_cat

B6 - B7

Front operation

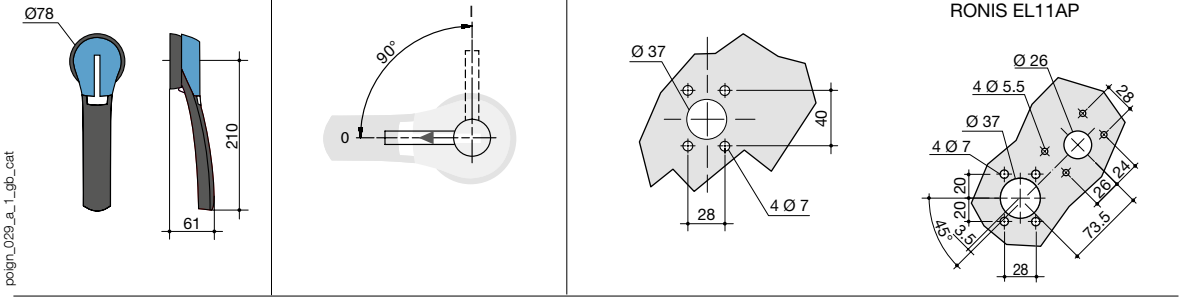
Handle type	Direction of operation	Door drilling
S4 type	0 / 90° / I	With lock RONIS EL11AP



poign_011_a_1_gb_cat

Side operation

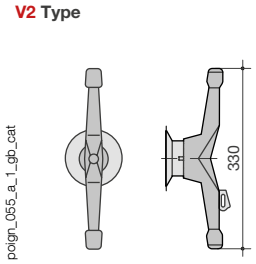
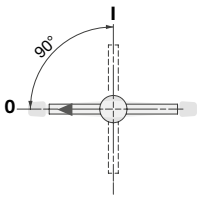
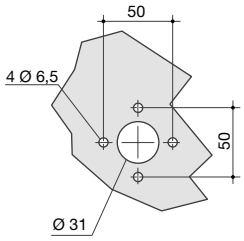
Handle type	Direction of operation	Door drilling
S3 type	**Right** side operation	With lock RONIS EL11AP

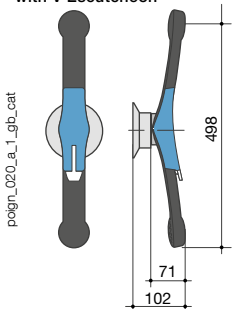
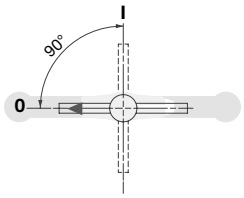
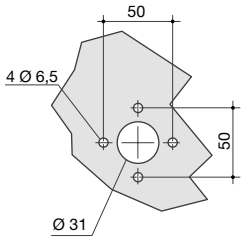


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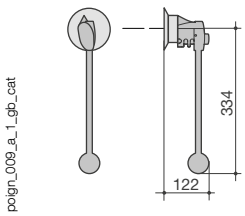
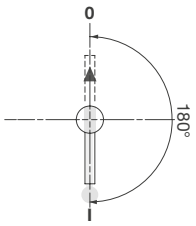
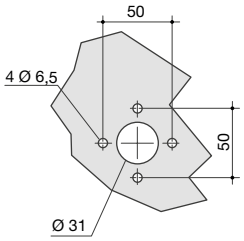
socomec
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B7 - B8

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 		

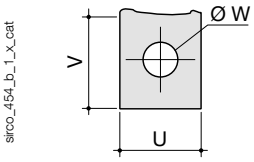
B9

Handle type	Front operation Direction of operation	Door drilling
V0 type 		

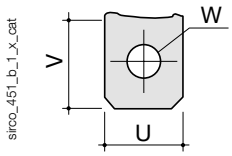
Connection terminal

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

SIRCO



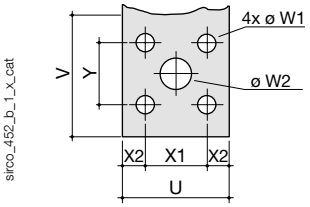
SIRCO AC



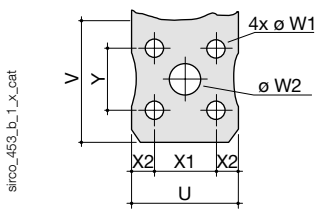
Rating (A) SIRCO	SIRCO AC	U	V	W
125 … 160		20	25	9
200 … 250	200 … 250	25	21.5	11
	315	35		
315 … 400	400 … 500	32	29	
500				13
630	CD 630	45	41.5	

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

SIRCO



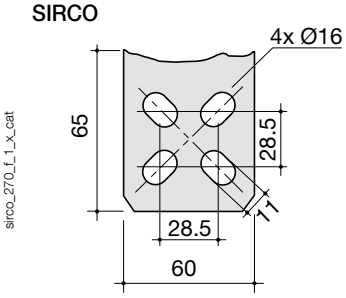
SIRCO AC



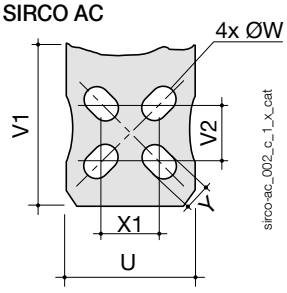
Rating (A) SIRCO	SIRCO AC	U	V	W1	W2	X1	X2	Y
800 … 1000	630 … 1000	50	60.5	9	15	33	8.5	33

SIRCO and SIRCO AC CD 1250 A

SIRCO

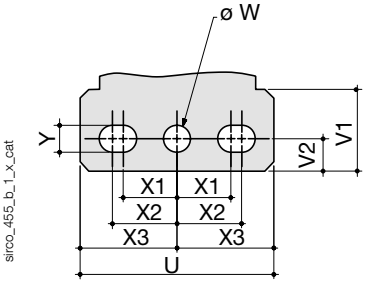


SIRCO AC



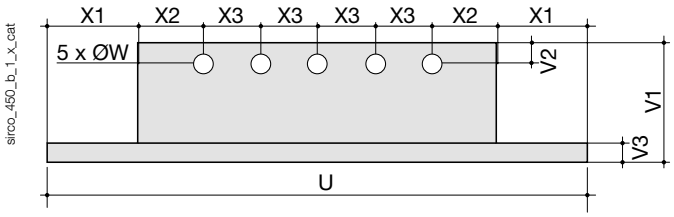
Rating (A) SIRCO	SIRCO AC	U	V1	V2	W	X1	Y
CD 1250 A	CD 1250 A	60	65	28.5	16	28.5	11

SIRCO 1250 to 3200 A and SIRCO AC 1250 to 1600 A



Rating (A)									
SIRCO	**SIRCO AC**	**U**	**V1**	**V2**	**W**	**X1**	**X2**	**X3**	**Y**
1250 ... 3200	1250 ... 1600	90	35.8	15	12.5	25	30	45	12.5

SIRCO 4000 to 5000 A and SIRCO AC 4000 A



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