



Реверсивный рубильник с ручным управлением Socomes Sircover Bypass - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: <https://www.uni-jet.com/catalog/commutation/pereklyuchateli-nagruzki/sircover-bypass-socomes/>



SIRCOVER and SIRCOVER *BY-PASS*

Manual Changeover Switches



Changeover switches with fully visualised breaking from 125 to 3200 A

➤ Function

SIRCOVER products are manually operated multipolar changeover switches. They provide changeover, source inversion or switching under load between two low voltage power circuits, as well as their safety isolation.

SIRCOVER BY-PASS are manually operated changeover switches. They are a combination of three interlocked switches enabling the use with 3 + 6 pole or 4 + 8 pole. They insulate by providing simultaneous safety isolation top and bottom and by passing loads of low voltage circuits mainly during maintenance operations.

➤ General characteristics

- 3 stable positions, (I, 0, II) or overlapping contacts (I, I+II, II), and on load changeover switching (AC-22 and AC-23).
- Fully visualized breaking.
- IP20 devices and accessories.

➤ Available on request

- Devices 6 or 8 pole
- Devices with over-sized neutral ex.: 3 x 250 A + N 400 A.
- Devices with advanced neutral.

➤ Conformity to standards

- IEC 60947-3
- IS 14947-3
- EN 60947-3
- VDE 0660-107 (1992)
- NBN EN 60947-3
- BS EN 60947-3

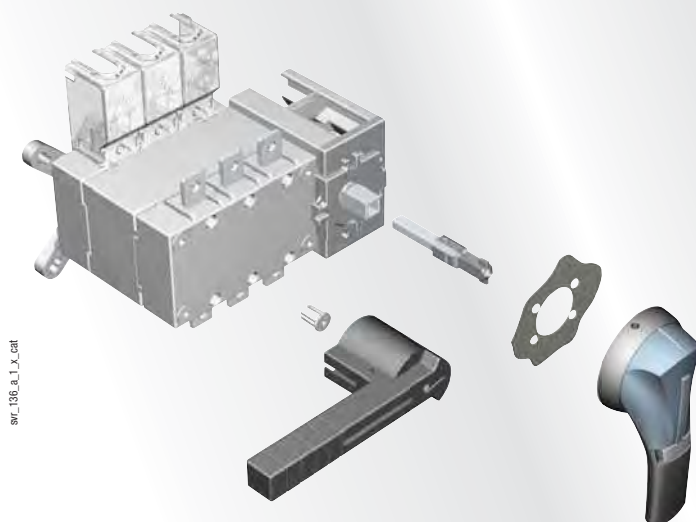
➤ Approvals and certifications⁽¹⁾

- Bureau Veritas
- BBJ Poland (Attestation of verification)

⁽¹⁾ Product reference on request.

What you need to know

- **SIRCOVER** with **3 stable positions** (I, O, II) are 3 or 4 pole devices from 125 A to 3200 A. They are available enclosed in a steel or polyester enclosure from 125 to 1600 A.
- **SIRCOVER** with **overlapping contacts** (I-I+II-II) are 3 or 4 pole devices available from 125 to 1800A. They are available enclosed in a steel enclosure from 125 to 1600 A.
- **SIRCOVER BY-PASS** with **3 stable positions** (I, O, II) are a combination of three interlocked switches enabling the use with 3+6 poles or 4+8 poles from 125 to 1600 A. They are available in steel enclosure from 125 to 1600 A and with overlapping contacts (I, I+II, II).
- **SIRCOVER** and **SIRCOVER BY-PASS** can be used with a **direct or external handle**.



- A **connection kit for copper bars** allows the link between the 2 connection terminals of one pole (fig 1 and 2) and the bridging of the upstream and downstream link for ratings 2000, 2500 and 3200A (fig 3).

Fig 1

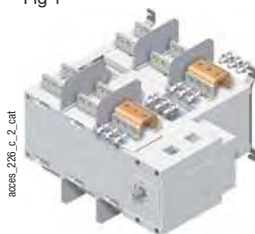
Top or bottom **flat connection**

Fig 2

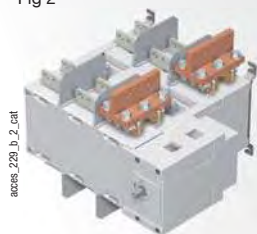
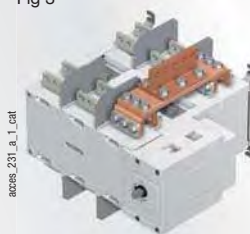
Edgewise connection
Top or bottom

Fig 3

Top or bottom **bridging connection**



SIRCOVER I-O-II

Rating (A)	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Bridging bar*	Auxiliary contacts	Terminal shrouds	Terminals protection screen	
125 A	3 P	4100 3013 ⁽¹⁾	Black 4199 5012 ⁽²⁾	Type S2 Black IP55 1421 2113 Black IP65 1423 2113 ⁽²⁾	200 mm 1400 1020 320 mm 1400 1032 ⁽²⁾	4109 0019	1 st /2 nd contact NO/NC 4109 0021 ⁽⁴⁾	3 P 2694 3014 ⁽⁵⁾⁽⁶⁾	3 P 1509 3012 ⁽⁷⁾	
	4 P	4100 4013 ⁽¹⁾								4 P 2694 4014 ⁽⁵⁾⁽⁶⁾
160 A	3 P	4100 3016 ⁽¹⁾						3 P 2694 3021 ⁽⁵⁾⁽⁶⁾	3 P 1509 3025 ⁽⁷⁾	
	4 P	4100 4016 ⁽¹⁾								4109 0025
200 A	3 P	4100 3019						4109 0039	4 P 2694 4051 ⁽⁵⁾⁽⁶⁾	
	4 P	4100 4019								4109 0050
250 A	3 P	4100 3025 ⁽¹⁾				4109 0063		3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾	
	4 P	4100 4025 ⁽¹⁾								4109 0080
400 A	3 P	4100 3039 ⁽¹⁾				4109 0120		3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾	
	4 P	4100 4039 ⁽¹⁾								4109 0160
500 A	3 P	4100 3050 ⁽¹⁾				4109 0160		3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾	
	4 P	4100 4050 ⁽¹⁾								4109 0160
630 A	3 P	4100 3063 ⁽¹⁾				4109 0160		3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾	
	4 P	4100 4063 ⁽¹⁾								4109 0160
800 A	3 P	4100 3080 ⁽¹⁾	4109 0160	3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾					
	4 P	4100 4080 ⁽¹⁾				4109 0160	4 P 2694 4051 ⁽⁵⁾⁽⁶⁾	4 P 1509 4063 ⁽⁷⁾		
1 250 A	3 P	4100 3120 ⁽¹⁾	4109 0160	3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾					
	4 P	4100 4120 ⁽¹⁾				4109 0160	4 P 2694 4051 ⁽⁵⁾⁽⁶⁾	4 P 1509 4063 ⁽⁷⁾		
1 600 A	3 P	4100 3160 ⁽¹⁾	4109 0160	3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾					
	4 P	4100 4160 ⁽¹⁾				4109 0160	4 P 2694 4051 ⁽⁵⁾⁽⁶⁾	4 P 1509 4063 ⁽⁷⁾		
1 800 A	3 P	4100 3180	4109 0160	3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾					
	4 P	4100 4180				4109 0160	4 P 2694 4051 ⁽⁵⁾⁽⁶⁾	4 P 1509 4063 ⁽⁷⁾		
2 000 A	3 P	4100 3200	4109 0160	3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾					
	4 P	4100 4200				4109 0160	4 P 2694 4051 ⁽⁵⁾⁽⁶⁾	4 P 1509 4063 ⁽⁷⁾		
2 500 A	3 P	4100 3250	4109 0160	3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾					
	4 P	4100 4250				4109 0160	4 P 2694 4051 ⁽⁵⁾⁽⁶⁾	4 P 1509 4063 ⁽⁷⁾		
3 200 A	3 P	4100 3320	4109 0160	3 P 2694 3051 ⁽⁵⁾⁽⁶⁾	3 P 1509 3063 ⁽⁷⁾					
	4 P	4100 4320				4109 0160	4 P 2694 4051 ⁽⁵⁾⁽⁶⁾	4 P 1509 4063 ⁽⁷⁾		

* 1 piece required per pole.

(1) Available enclosed (see pages 498 and 500 "Enclosed changeover switches").

(2) Standard.

(3) See page 281 "Copper bars connection kits".

(4) 2 pieces: one for position I and one for position II.

(5) To shroud front switch top and bottom 2 references required.

(6) To fully shroud front, rear, top and bottom 4 references required.

(7) 2 pieces: one for top side and another for bottom side.



SIRCOVER I - I+II - II

Rating (A)	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Bridging bar*	Auxiliary contacts	Terminal shrouds	Terminal screens			
125 A	3 P	4190 3013 ⁽¹⁾	Black 4199 5012 ⁽²⁾	S2 type Black IP65 1423 2114 ⁽²⁾	200 mm 1400 1020 320 mm 1400 1032 ⁽²⁾	4109 0019	1 st /2 nd contact NO/NC 4109 0021 ⁽³⁾	3 P 2694 3014 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4014 ⁽⁴⁾⁽⁵⁾	3 P 1509 3012 ⁽⁶⁾ 4 P 1509 4012 ⁽⁶⁾			
	4 P	4190 4013 ⁽¹⁾										
160 A	3 P	4190 3016 ⁽¹⁾								4109 0019	3 P 2694 3014 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4014 ⁽⁴⁾⁽⁵⁾	3 P 1509 3012 ⁽⁶⁾ 4 P 1509 4012 ⁽⁶⁾
	4 P	4190 4016 ⁽¹⁾										
200 A	3 P	4190 3019								4109 0019	3 P 2694 3014 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4014 ⁽⁴⁾⁽⁵⁾	3 P 1509 3012 ⁽⁶⁾ 4 P 1509 4012 ⁽⁶⁾
	4 P	4190 4019										
250 A	3 P	4190 3025 ⁽¹⁾				4109 0025		3 P 2694 3021 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4021 ⁽⁴⁾⁽⁵⁾	3 P 1509 3025 ⁽⁶⁾ 4 P 1509 4025 ⁽⁶⁾			
	4 P	4190 4025 ⁽¹⁾										
400 A	3 P	4190 3039 ⁽¹⁾				4109 0039		3 P 2694 3021 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4021 ⁽⁴⁾⁽⁵⁾	3 P 1509 3025 ⁽⁶⁾ 4 P 1509 4025 ⁽⁶⁾			
	4 P	4190 4039 ⁽¹⁾										
500 A	3 P	4190 3050 ⁽¹⁾				4109 0050		3 P 2694 3051 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4051 ⁽⁴⁾⁽⁵⁾	3 P 1509 3063 ⁽⁶⁾ 4 P 1509 4063 ⁽⁶⁾			
	4 P	4190 4050 ⁽¹⁾										
630 A	3 P	4190 3063 ⁽¹⁾				4109 0063		3 P 2694 3051 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4051 ⁽⁴⁾⁽⁵⁾	3 P 1509 3063 ⁽⁶⁾ 4 P 1509 4063 ⁽⁶⁾			
	4 P	4190 4063 ⁽¹⁾										
800 A	3 P	4190 3080 ⁽¹⁾	Black 2799 7052 ⁽²⁾	S4 type Black IP65 1443 3114 ⁽²⁾	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾	4109 0080			3 P 1509 3080 ⁽⁶⁾ 4 P 1509 4080 ⁽⁶⁾			
	4 P	4190 4080 ⁽¹⁾										
1 250 A	3 P	4190 3120 ⁽¹⁾				4109 0120				3 P 1509 3080 ⁽⁶⁾ 4 P 1509 4080 ⁽⁶⁾		
	4 P	4190 4120 ⁽¹⁾										
1 600 A	3 P	4190 3160 ⁽¹⁾				4109 0160			3 P 1509 3160 ⁽⁶⁾ 4 P 1509 4160 ⁽⁶⁾			
	4 P	4190 4160 ⁽¹⁾										
1 800 A	3 P	4190 3180								4109 0160	3 P 1509 3160 ⁽⁶⁾ 4 P 1509 4160 ⁽⁶⁾	
	4 P	4190 4180										

* 1 piece required per pole.

(1) Available enclosed (see pages 498 and 500 "Enclosed changeover switches").

(2) Standard.

(3) 2 pieces: one for position I and one for position II.

(4) To fully shroud front, rear, top and bottom 4 references required.

(5) To shroud front switch top and bottom 2 references required.

(6) 2 pieces: one for top side and another for bottom side.



SIRCOVER BY-PASS

Rating (A)	No. of poles	Switch body I-O-II	Direct handle	External handle	Shaft for external handle	Bridging bar	Auxiliary contacts	Terminal shrouds	Terminal screens
125 A	3 + 6 P	4100 7013 ⁽¹⁾	Black 4199 5012 ⁽²⁾	S2 type Black IP55 1421 2113 ⁽²⁾ Black IP65 1423 2113	200 mm 1400 1020 320 mm 1400 1032 ⁽²⁾	4109 0019	1 st /2 nd contact NO/NC 4109 0021 ⁽³⁾	3 P 2694 3014 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4014 ⁽⁴⁾⁽⁵⁾	3 P 1509 3012 ⁽⁶⁾ 4 P 1509 4012 ⁽⁶⁾
	4 + 8 P	4100 9013 ⁽¹⁾							
160 A	3 + 6 P	4100 7016 ⁽¹⁾							
	4 + 8 P	4100 9016 ⁽¹⁾							
200 A	3 + 6 P	4100 7019							
	4 + 8 P	4100 9019							
250 A	3 + 6 P	4100 7025 ⁽¹⁾	Black 2799 7052 ⁽²⁾	S3 type Black IP65 1433 3113 ⁽²⁾	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾	4109 0025		3 P 2694 3021 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4021 ⁽⁴⁾⁽⁵⁾	3 P 1509 3025 ⁽⁶⁾ 4 P 1509 4025 ⁽⁶⁾
	4 + 8 P	4100 9025 ⁽¹⁾				4109 0039			
400 A	3 + 6 P	4100 7039 ⁽¹⁾				4109 0039			
	4 + 8 P	4100 9039 ⁽¹⁾				4109 0050		3 P 2694 3051 ⁽⁴⁾⁽⁵⁾ 4 P 2694 4051 ⁽⁴⁾⁽⁵⁾	3 P 1509 3063 ⁽⁶⁾ 4 P 1509 4063 ⁽⁶⁾
500 A	3 + 6 P	4100 7050 ⁽¹⁾				4109 0050			
	4 + 8 P	4100 9050 ⁽¹⁾				4109 0063			
630 A	3 + 6 P	4100 7063 ⁽¹⁾				4109 0063			
	4 + 8 P	4100 9063 ⁽¹⁾				4109 0080			3 P 1509 3080 ⁽⁶⁾ 4 P 1509 4080 ⁽⁶⁾ 3 P 1509 3160 ⁽⁶⁾ 4 P 1509 4160 ⁽⁶⁾
800 A	3 + 6 P	4100 7080 ⁽¹⁾				4109 0080			
	4 + 8 P	4100 9080 ⁽¹⁾				4109 0120			
1 250 A	3 + 6 P	4100 7120 ⁽¹⁾			200 mm 2799 3015 450 mm 2799 3019 ⁽²⁾	4109 0120			
	4 + 8 P	4100 9120 ⁽¹⁾				4109 0160			
1 600 A	3 + 6 P	4100 7160				4109 0160			
	4 + 8 P	4100 9160							

* For By-Pass 2 pieces are required per pole.

(1) Available enclosed (see pages 498 and 500 "Enclosed changeover switches").

(2) Standard.

(3) 2 pieces: one for position I and one for position II.

(4) To shroud front switch top and bottom 3 references required.

(5) To fully shroud front, rear, top and bottom 6 references required.

(6) 2 pieces: one for top side and another for bottom side.

Accessories

Direct handle



SIRCOVER

Rating (A)	Handle color	Handle type	Reference
125 ... 630	Black	Single lever	4199 5012
800 ... 1800	Black	Single lever	2799 7052
2000 ... 3200	Black	Double lever	2799 7012

SIRCOVER BY-PASS

Rating (A)	Handle color	Handle type	Reference
125 ... 200	Black	Single lever	4199 5012
250 ... 630	Black	Single lever	2799 7052
800 ... 1600	Black	Double lever	2799 7012

External operation handle



Use

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

SIRCOVER

Rating (A)	Switching type	External IP ⁽¹⁾	Handle	Reference
125 ... 630	I - 0 - II	IP55	S2 type	1421 2113
125 ... 630	I - 0 - II	IP65	S2 type	1423 2113
125 ... 630	I - I+II - II	IP65	S2 type	1423 2114
800 ... 1800	I - 0 - II	IP65	S4 type	1443 3113 ⁽²⁾
800 ... 1800	I - I+II - II	IP65	S4 type	1443 3114 ⁽²⁾
2000 ... 3200	I - 0 - II	IP65		2799 7146 ⁽²⁾

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

(2) Double lever handle.

SIRCOVER BY-PASS

Rating (A)	Switching type	External IP ⁽¹⁾	Handle	Reference
125 ... 200	I - 0 - II	IP55	S2 type	1421 2113
125 ... 200	I - 0 - II	IP65	S2 type	1423 2113
250 ... 630	I - 0 - II	IP65	S3 type	1433 3113
800 ... 1600	I - 0 - II	IP65		4199 7146

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

Alternative S-type handle cover colours



Use

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

Color	To be ordered in multiples of	Handle	Reference
Light grey	50	S2, S3 type	1401 0001
Dark grey	50	S2, S3 type	1401 0011
Light grey	50	S4 type	1401 0031
Dark grey	50	S4 type	1401 0041

S type handle adapter



Use

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

Dimensions

Adds 12 mm to the depth.

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

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

Shaft guide for external operation

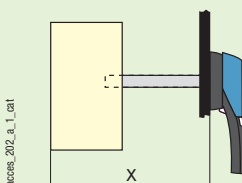


Use

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

Description	Reference
Shaft guide	1429 0000

Shaft for external handle



Use

Standard lengths:
- 200 mm,
- 320 mm,
- 450 mm.
Other lengths: Consult us.

SIRCOVER

Rating (A)	Shaft length (mm)	Dimension X (mm)	Reference
125 ... 400	200 mm	210 ... 310	1400 1020
125 ... 400	320 mm	210 ... 430	1400 1032
500 ... 630	200 mm	280 ... 390	1400 1020
500 ... 630	320 mm	280 ... 510	1400 1032
800 ... 1800	200 mm	425 ... 577	1401 1520
800 ... 1800	320 mm	425 ... 697	1401 1532
2000 ... 3200	320 mm	653 ... 923	2799 3018 ⁽¹⁾

(1) Extension shaft.

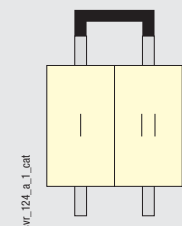
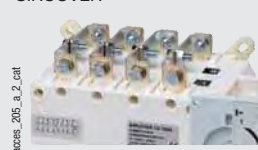
SIRCOVER BY-PASS

Rating (A)	Shaft length (mm)	Dimension X (mm)	Reference
125 ... 200	200 mm	320 ... 450	1400 1020
125 ... 200	320 mm	320 ... 570	1400 1032
250 ... 400	200 mm	298 ... 420	1401 1520
250 ... 400	320 mm	298 ... 540	1401 1532
500 ... 630	200 mm	417 ... 539	1401 1520
500 ... 630	320 mm	417 ... 659	1401 1532
800 ... 1600	200 mm	550 ... 680	2799 3015 ⁽¹⁾
800 ... 1600	450 mm	550 ... 800	2799 3019 ⁽¹⁾

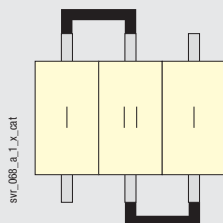
(1) Extension shaft.

Bridging bars

SIRCOVER



SIRCOVER BY-PASS



Use

Creation of a common link, on the top or bottom side of the switch, in order to feed load with either power supply I or/and II. For SIRCOVER BY-PASS, two sets of bridging bars are needed as the switch is composed of three basic switch frames.

Position I: 6 or 8 poles
Position II: 3 or 4 poles

Rating (A)	Section (mm)	Reference
125 ... 200	20 x 2.5	4109 0019
250	25 x 2.5	4109 0025
400	32 x 5	4109 0039
500	32 x 5	4109 0050
630	50 x 5	4109 0063
800	50 x 6	4109 0080
1250	60 x 8	4109 0120
1600 ... 1800	90 x 10	4109 0160

Copper bars connection kits for 2000 to 3200 A SIRCOVER

Fig. 1

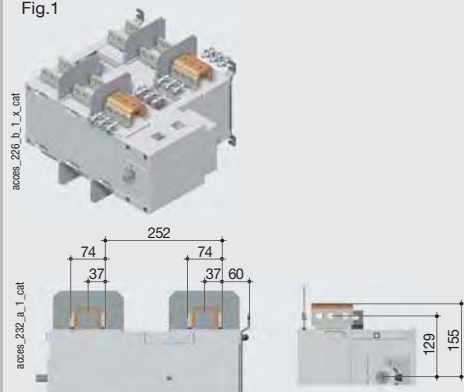


Fig. 2

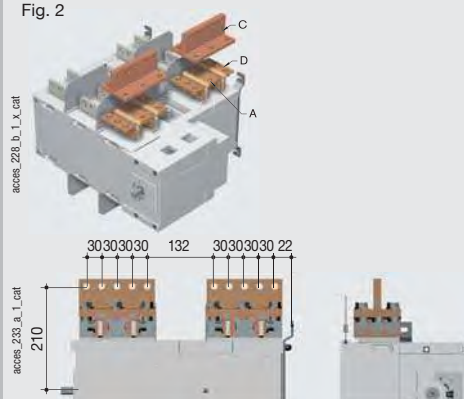
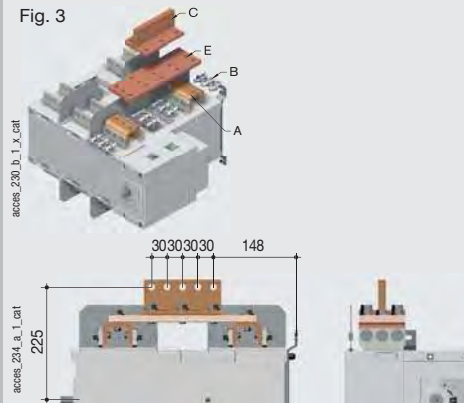


Fig. 3

**Use**

Enables:

- To allow connection between the two power terminals from a same pole for 2000 to 3200A ratings (Fig. 1 and Fig 2).
- Top or bottom bridging connection (Fig. 3).

For 3200 A rating, the connection pieces (part A) are delivered bridged from factory. Bolt sets must be ordered separately.

Technical notice for these specific accessories is downloadable from www.socomec.com

Top or bottom flat connection - Fig. 1

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

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

Top or bottom edgewise connection - Fig. 2

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

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

(2) Bolt set is provided with the accessories.

Top or bottom bridging connection - Fig. 3

Rating (A)	Piece	Quantity to order per pole ⁽¹⁾	Reference
2 000 ... 2 500	Connection - part A	2	2619 1200
2 000 ... 2 500	Bolt set - part B	2	2699 1200
2 000 ... 2 500	Bar - piece E	1	4109 0250 ⁽²⁾
2 000 ... 2 500	T piece - part C	1	2629 1200 ⁽²⁾
3 200	Connection - part A		included
3 200	Bolt set - part B	2	2699 1200
3 200	Bar - piece E	1	4109 0320 ⁽²⁾
3 200	T piece - part C	1	2629 1200 ⁽²⁾

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

(2) Bolt set is provided with the accessories.

Auxiliary contacts**Use**

Pre breaking and positions I and II signalling: 1 or 2 NO/NC auxiliary contacts in each position.
Low level auxiliary contacts: Consult us.

Connection to the control circuit

By 6.35 mm fast-on terminal.

Electrical characteristics

30 000 operations.

NO/NC changeover contact

Rating (A)	Contact(s)	Reference
125 ... 1800	1 st /2 nd	4109 0021
2000 ... 3200	1 st	included
2000 ... 3200	2 nd	4409 0022

Characteristics

Rating (A)	Nominal current (A)	Operating current I _e (A)			
		A - 250 -13VAC	400 VAC AC-13	24 VDC DC-13	48 VDC DC-13
125 ... 3200	16	12	8	14	6

Terminal shrouds

access_206_a_2_cat



Use

Protection against direct contact with terminals or connecting parts.

Advantage

Perforations allowing remote thermographic inspection without removal.

Rating (A)	No. of poles	Position	Reference
125 ... 200	3 P	top / bottom / front (I) / rear (II)	2694 3014 ⁽¹⁾⁽²⁾
125 ... 200	4 P	top / bottom / front (I) / rear (II)	2694 4014 ⁽¹⁾⁽²⁾
250 ... 400	3 P	top / bottom / front (I) / rear (II)	2694 3021 ⁽¹⁾⁽²⁾
250 ... 400	4 P	top / bottom / front (I) / rear (II)	2694 4021 ⁽¹⁾⁽²⁾
500 ... 630	3 P	top / bottom / front (I) / rear (II)	2694 3051 ⁽¹⁾⁽²⁾
500 ... 630	4 P	top / bottom / front (I) / rear (II)	2694 4051 ⁽¹⁾⁽²⁾

(1) To shroud front switch top and bottom 4 references required for a SIRCOVER and 6 references for a SIRCOVER BY-PASS.

(2) To shroud front switch top and bottom 2 references required for a SIRCOVER and a SIRCOVER BY-PASS.

Terminal screens

access_207_a_2_cat



Use

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

Rating (A)	No. of poles	Position	Reference
125 ... 200	3 P	top / bottom	1509 3012
125 ... 200	4 P	top / bottom	1509 4012
250 ... 400	3 P	top / bottom	1509 3025
250 ... 400	4 P	top / bottom	1509 4025
500 ... 630	3 P	top / bottom	1509 3063
500 ... 630	4 P	top / bottom	1509 4063
800 ... 1 250	3 P	top / bottom	1509 3080
800 ... 1 250	4 P	top / bottom	1509 4080
1 600 ... 1 800	3 P	top / bottom	1509 3160
1 600 ... 1 800	4 P	top / bottom	1509 4160
2 000 ... 3 200	3 / 4 P	top / bottom	included

Inter phase barriers

access_008_a_1_cat



Use

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

The terminal shrouds also provide phase separation from 125 to 630 A.

Rating (A)	No. of poles	Reference
125 ... 200	3 P	2998 0033 ⁽¹⁾
125 ... 200	4 P	2998 0034 ⁽¹⁾
250 ... 400	3 P	2998 0023 ⁽¹⁾
250 ... 400	4 P	2998 0024 ⁽¹⁾
500 ... 630	3 P	2998 0013 ⁽¹⁾
500 ... 630	4 P	2998 0014 ⁽¹⁾
800 ... 3200	3 / 4 P	included

(1) Use 2 sets per side.

Handle key interlocking accessories

Fig. 1

accos_001_a_1_x_cat

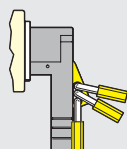


Fig. 2

accos_001_a_1_x_cat

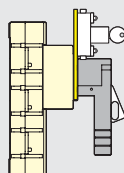


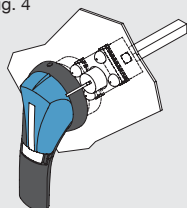
Fig. 3

accos_132_a_1_x_cat



Fig. 4

accos_132_a_1_x_cat

**Use**

- using padlock (not supplied), this device is factory mounted in the direct or external operation handle and allows using up to 3 padlocks (Fig.1).
- Locking:
 - using lock (not supplied)
 - using undervoltage coil.

The interlocking positions are either determined as standard or configured by the user, removing pre-formed tabs.

Padlocking and locking can be combined.

Lockable in position I, 0 or II

Rating (A) SIRCOVER	Rating (A) SIRCOVER BY-PASS	Operation	Figure	Reference
125 ... 630	125 ... 200	external	1	1423 2813

Locking using RONIS EL11AP lock in position 0 (not included)

Rating (A) SIRCOVER	Rating (A) SIRCOVER BY-PASS	Operation	Figure	Reference
125 ... 630	125 ... 200	direct	2	4109 1006⁽¹⁾
	250 ... 630	direct	3	consult us
800 ... 1800	800 ... 1600	direct	3	4109 1004⁽²⁾
2000 ... 3200		direct	3	4109 2007
125 ... 1800	125 ... 630	external	4	1499 7701
2000 ... 3200	800 ... 1600	external	4	2799 7002

(1) Specific handle included.

(2) This locking facility can be configured by the user in the 3 positions.

Locking using RONIS EL11AP lock in position I, 0, II (not included)

Rating (A) SIRCOVER	Rating (A) SIRCOVER BY-PASS	Operation	Figure	Reference
125 ... 630	125 ... 200	direct	2	4109 1002⁽¹⁾
	250 ... 630	direct	3	consult us
800 ... 1800	800 ... 1600	direct	3	4109 1004⁽²⁾
2000 ... 3200		direct	3	4109 2007
125 ... 1800	125 ... 630	external	4	1499 7701
	800 ... 1600	external	4	2799 7002

(1) Specific handle included.

(2) This locking facility can be configured by the user in the 3 positions.

Locking using 230 VAC undervoltage coil in position 0 (factory fitted)

Rating (A) SIRCOVER	Rating (A) SIRCOVER BY-PASS	Operation	Figure	Reference
800 ... 3200	800 ... 1600	direct	3	consult us

Locking using CASTELL type K lock (not included)

Rating (A) SIRCOVER	Rating (A) SIRCOVER BY-PASS	Operation	Figure	Reference
125 ... 1800	125 ... 630	external	4	1499 7702
2000 ... 3200	800 ... 1600	external	4	2799 7003

Other specific accessories

btd_03_04_01



- Customised protection screens (for specific dimensions or high ambient temperatures).
- Inter phase barrier.
- Connection accessories.
- Low level auxiliary contacts.

125 to 500 A

Thermal current I_{th} (40°C)	125 A	160 A	200 A	250 A	400 A	500 A
Rated insulation voltage U_i (V)	800	800	800	800	800	1000
Rated impulse withstand voltage U_{imp} (kV)	8	8	8	8	8	12

Rated operational currents I_e (A)

Rated voltage	Load duty category	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
400 VAC	AC-21 A / AC-21 B	125/125	160/160	200/200	250/250	400/400	500/500
400 VAC	AC-22 A / AC-22 B	125/125	160/160	200/200	250/250	400/400	500/500
400 VAC	AC-23 A / AC-23 B	125/125	160/160	160/160	250/250	250/250	500/500
690 VAC ⁽²⁾	AC-20 A / AC-20 B	125/125	160/160	200/200	250/250	400/400	500/500
690 VAC ⁽²⁾	AC-21 A / AC-21 B	125/125	160/160	160/160	200/250	200/250	400/400
690 VAC ⁽²⁾	AC-22 A / AC-22 B	125/125	125/125	125/125	125/160	125/160	250/315
690 VAC ⁽²⁾	AC-23 A / AC-23 B	63/80	63/80	63/80	100/125	100/125	160/200
220 VDC	DC-20 A / DC-20 B	125/125	160/160	200/200	250/250	400/400	500/500
220 VDC	DC-21 A / DC-21 B	125/125	160/160	160/160	250/250	250/250	500/500
220 VDC	DC-22 A / DC-22 B	125/125	160/160	160/160	250/250	250/250	400/500
220 VDC	DC-23 A / DC-23 B	125/125	125/125	125/125	200/200	200/200	400/400
440 VDC	DC-20 A / DC-20 B	125/125	160/160	200/200	250/250	400/400	500/500
440 VDC	DC-21 A / DC-21 B	125 ⁽³⁾ /125 ⁽³⁾	125 ⁽³⁾ /125 ⁽³⁾	125 ⁽³⁾ /125 ⁽³⁾	200 ⁽³⁾ /200 ⁽³⁾	200 ⁽³⁾ /200 ⁽³⁾	400 ⁽³⁾ /400 ⁽³⁾
440 VDC	DC-22 A / DC-22 B	125 ⁽³⁾ /125 ⁽³⁾	125 ⁽³⁾ /125 ⁽³⁾	125 ⁽³⁾ /125 ⁽³⁾	200 ⁽³⁾ /200 ⁽³⁾	200 ⁽³⁾ /200 ⁽³⁾	315 ⁽³⁾ /400 ⁽³⁾
440 VDC	DC-23 A / DC-23 B	125 ⁽⁴⁾ /125 ⁽⁴⁾	125 ⁽⁴⁾ /125 ⁽⁴⁾	125 ⁽⁴⁾ /125 ⁽⁴⁾	200 ⁽⁴⁾ /200 ⁽⁴⁾	200 ⁽⁴⁾ /200 ⁽⁴⁾	400 ⁽⁴⁾ /400 ⁽⁴⁾

Operational power in AC-23 (kW)

At 400 VAC without pre-break in AC ⁽¹⁾⁽⁵⁾	63/63	80/80	80/80	132/132	132/132	280/280
At 690 VAC without pre-break in AC ⁽¹⁾⁽⁵⁾	55/75	55/75	55/75	90/110	90/110	150/185

Reactive power (kvar)

At 400 VAC ⁽⁶⁾	55	75	90	115	185	230
---------------------------	----	----	----	-----	-----	-----

Fuse protected short-circuit withstand (kA rms prospective)

Prospective short-circuit (kA rms) ⁽⁶⁾	100	100	50	50	18	100
Associated fuse rating (A) ⁽⁶⁾	125	160	200	250	400	500

Overload capacity

Rated short-time withstand current 0.3 s. I_{cw} (kA eff.)	15	15	15	17	17	25
Rated peak withstand current (kA peak) ⁽⁶⁾	20	20	20	30	30	45

Connection

Minimum Cu cable section (mm ²)	35	50	50	95	185	240
Minimum Cu busbar section (mm ²)						
Maximum Cu cable section (mm ²)	50	95	95	150	240	240
Maximum Cu busbar width (mm)	25	25	25	32	32	40
Tightening torque min (Nm)	9	9	9	20	20	20

Mechanical characteristics

Durability (number of operating cycles) ⁽⁷⁾	10 000	10 000	10 000	10 000	10 000	5 000
Weight of 3 P switch (kg)	1.5	1.6	1.8	2	3	3.5
Weight of 4 P switch (kg)	1.6	1.7	1.9	2.1	3.5	4

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

(2) With terminal shrouds or phase barrier.

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

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

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

(6) For a rated operational voltage $U_n = 400$ VAC.

(7) Increased endurance: please consult us.

630 to 3200 A

Thermal current I_{th} (40°C)	630 A	800 A	1250 A	1600 A	1800 A	2000 A	2500 A	3200 A
Rated insulation voltage U_i (V)	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	12	12	12	12	12	12	12	12

Rated operational currents I_e (A)

Rated voltage	Load duty category	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
400 VAC	AC-21 A / AC-21 B	630/630	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2500/2500	3200/3200
400 VAC	AC-22 A / AC-22 B	630/630	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2000/2500	2500/3200
400 VAC	AC-23 A / AC-23 B	500/500	800/800	1250/1250	1250/1250	1250/1250	1600/1600	1600/1600	1600/1600
690 VAC ⁽²⁾	AC-20 A / AC-20 B	630/630	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2500/2500	3200/3200
690 VAC ⁽²⁾	AC-21 A / AC-21 B	500/500	800/800	800/800	1000/1000	1000/1000	2000/2000	2000/2500	2000/2500
690 VAC ⁽²⁾	AC-22 A / AC-22 B	315/315	800/800	800/800	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000
690 VAC ⁽²⁾	AC-23 A / AC-23 B	160/200	200/250	200/250	500/500	500/500	800/800	800/800	800/800
220 VDC	DC-20 A / DC-20 B	630/630	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2500/2500	3200/3200
220 VDC	DC-21 A / DC-21 B	630/630	800/800	1250/1250	1250/1250	1250/1250	2000/2000	2000/2500	2000/2500
220 VDC	DC-22 A / DC-22 B	500/500	800/800	1250/1250	1250/1250	1250/1250	1250/1600	1250/1600	1250/1600
220 VDC	DC-23 A / DC-23 B	500/500	800/800	1250/1250	1250/1250	1250/1250	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾
440 VDC	DC-20 A / DC-20 B	630/630	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2500/2500	3200/3200
440 VDC	DC-21 A / DC-21 B	500 ⁽³⁾ /500 ⁽³⁾	800 ⁽³⁾ /800 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	2000/2000	2000/2000	2000/2000
440 VDC	DC-22 A / DC-22 B	500 ⁽³⁾ /500 ⁽³⁾	800 ⁽³⁾ /800 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾
440 VDC	DC-23 A / DC-23 B	500 ⁽⁴⁾ /500 ⁽⁴⁾	800 ⁽³⁾ /800 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1000 ⁽³⁾ /1000 ⁽³⁾	1000 ⁽³⁾ /1000 ⁽³⁾	1000 ⁽³⁾ /1000 ⁽³⁾

Operational power in AC-23 (kW)

At 400 VAC without pre-break in AC ⁽¹⁾⁽⁵⁾	280/280	450/450	710/710	710/710	710/710	710/710	710/710	710/710
At 690 VAC without pre-break in AC ⁽¹⁾⁽⁵⁾	150/185	185/220	185/220	475/475	475/475	750/750	750/750	750/750

Reactive power (kvar)

At 400 VAC ⁽⁵⁾	290	365	575					
---------------------------	-----	-----	-----	--	--	--	--	--

Fuse protected short-circuit withstand (kA rms prospective)

Prospective short-circuit (kA rms) ⁽⁶⁾	70	50	100	100	100	100	100	
Associated fuse rating (A) ⁽⁶⁾	630	800	1250	2 x 800	2 x 800	2 x 1000	2 x 1250	

Overload capacity

Rated short-time withstand current 0.3 s. I_{ow} (kA eff.)	25	50	65	100	100	100	100	110
Rated peak withstand current (kA peak) ⁽⁶⁾	45	55	80	110	110	110	110	120

Connection

Minimum Cu cable section (mm ²)	2 x 150	2 x 185						
Minimum Cu busbar section (mm ²)	2 x 30 x 5	2 x 40 x 5	2 X 60 X 5	2 x 80 x 5	2 x 80 x 5	3 x 100 x 5	4 x 100 x 5	4 x 100 x 5
Maximum Cu cable section (mm ²)	2 x 300	2 x 300	4 X 185	6 x 185	6 x 185			
Maximum Cu busbar width (mm)	50	63	63	100	100	125	125	125
Tightening torque min (Nm)	20		20	40	40	40	40	40

Mechanical characteristics

Durability (number of operating cycles) ⁽⁷⁾	5 000	3 000	3 000	4 000	4 000	3 000	3 000	3 000
Weight of 3 P switch (kg)	3.5	17.5	22.5	34	34	50	50	50
Weight of 4 P switch (kg)	4	21	27.5	42	42	60	60	60

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

(4) 4-pole device with 2 pole 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 $U_n = 400$ VAC.

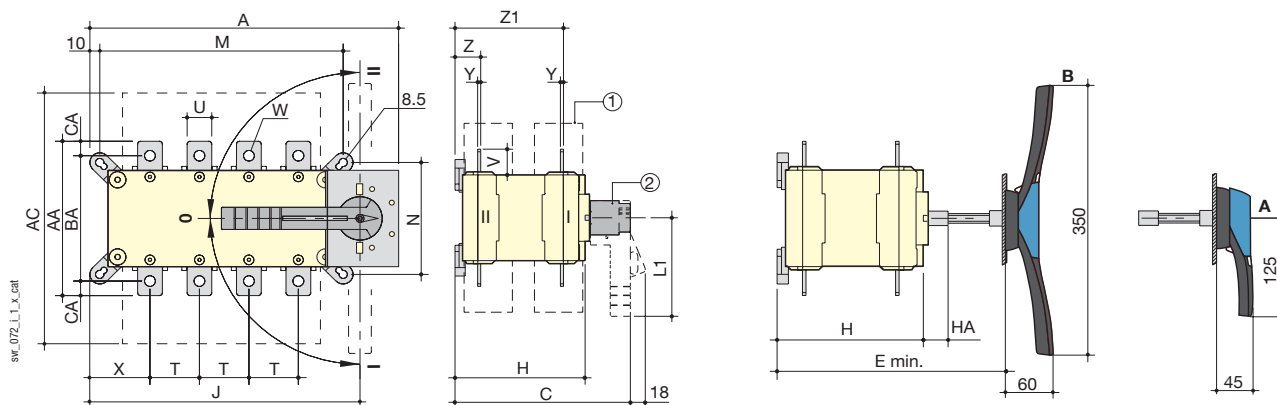
(7) Increased durabilities: please consult us.

➔ SIRCOVER and SIRCOVER BY-PASS - Dimensions

SIRCOVER 125 to 1800 A

Direct front operation

External front operation



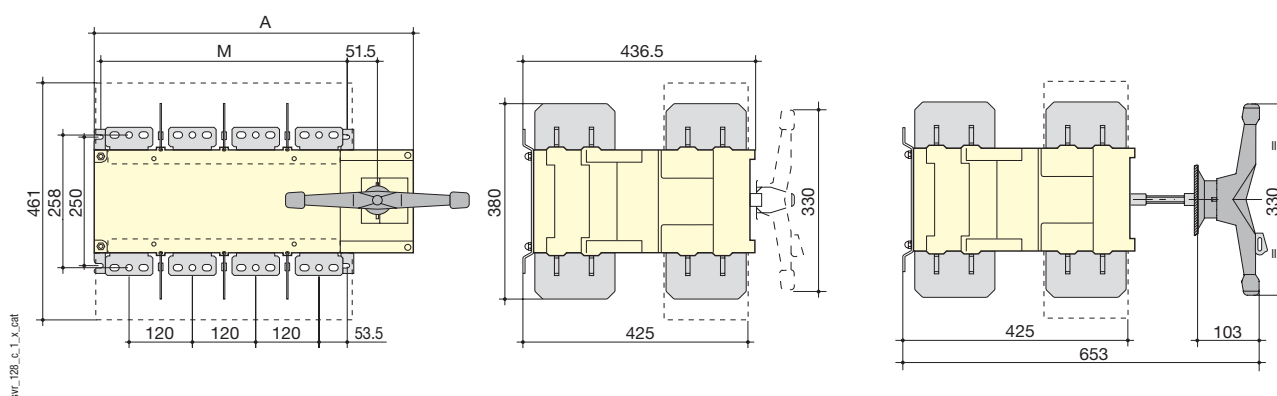
A. S2 type handle for external operation: 125 to 630 A
B. S4 type handle for external operation: 800 to 1800 A

1. Terminal shrouds
2. Direct handle operation:
- 125 to 630 A: L1 = 140 mm,
- 800 to 1800 A: L1 = 210 mm.

Rating (A)	Overall dimensions				Terminal shrouds	Switch body				Switch mounting			Connection											
	A 3p.	A 4p.	C	E min	AC	H	HA	J 3p.	J 4p.	M 3p.	M 4p.	N	T	U	V	W	X 3p.	X 4p.	Y	Z	Z1	AA	BA	AC
125	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	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	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	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
400	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	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	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	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	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	478	598	375	425 ... 577	461	298	29	306.5	388.5	347	467	250	120	90	43.5	12.5x5	54	54	8	66.5	255.5	288		15
1800	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

SIRCOVER 2000 to 3200 A

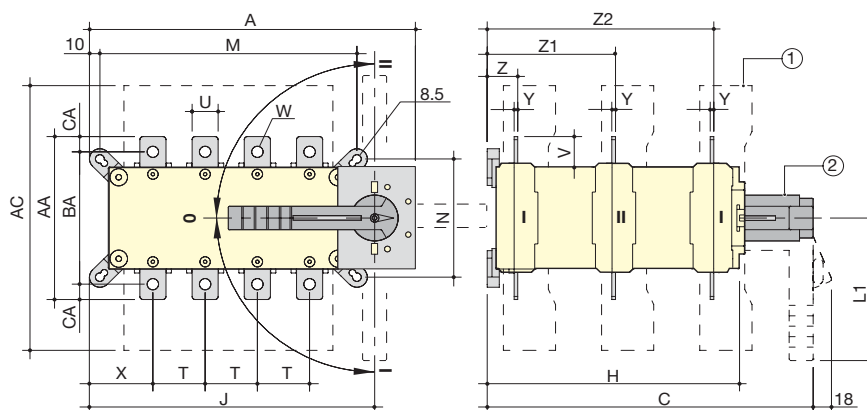
Direct front operation



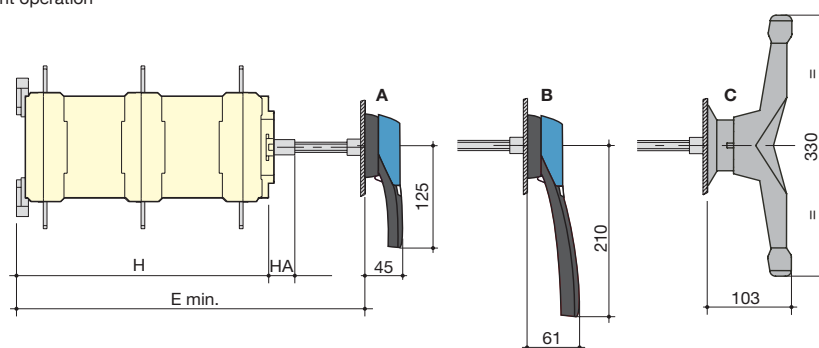
Rating (A)	Overall dimensions		Switch mounting	
	A 3p.	A 4p.	M 3p.	M 4p.
2000 ... 3200	478	598	347	467

SIRCOVER BY-PASS 125 to 1600 A

Direct front operation



External front operation

A. S2 type handle for external operation:
125 to 200 AB. S3 type handle for external operation:
250 to 630 A

C. External double lever handle: 800 to 1600 A

1. Terminal shrouds

2. Direct handle operation:

- 125 to 200 A: L1 = 140 mm,

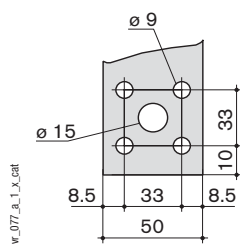
- 250 to 630 A: L1 = 210 mm,

- 800 to 1600 A: L1 = Ø 330 mm.

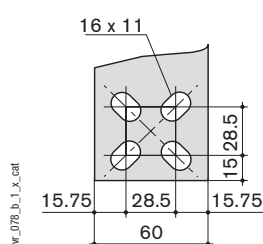
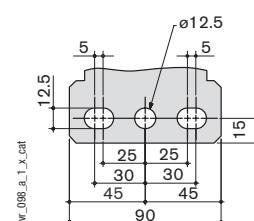
Rating (A)	Overall dimensions				Terminal shrouds	Switch body				Switch mounting			Connection													
	A	A	C	E min		AC	H	HA	J	J	M	M	N	T	U	V	W	X	X	Y	Z	Z1	Z2	AA	BA	AC
	3+6p.	4+8p.						3+6 p.	4+8 p.	3+6 p.	4+8 p.	N					3+6p.	4+8p.								
125	221	251	313	320	235	243	25	182	212	156	186	101	36	20	25	8,5	56	50	3.5	28	124	219	135	115	10	
160	221	251	313	320	235	243	25	182	212	156	186	101	36	20	25	8,5	56	50	3.5	28	124	219	135	115	10	
200	221	251	313	320	235	243	25	182	212	156	186	101	36	20	25	8,5	56	50	3.5	28	124	219	135	115	10	
250	262	312	313	298	280	243	25	223	273	196	246	116	50	25	30	11	61	61	3.5	30	124	219	160	130	10	
400	262	312	313	298	280	243	25	223	273	196	246	116	50	35	35	11	61	61	3.5	30	124	219	170	140	15	
500	319	379	432	417	401	362	25	272	332	246	306	176	65	32	37	13	70.5	65.5	5	43	180	317	235	205	15	
630	319	379	432	417	400	362	25	272	332	246	306	176	65	45	50	13	70.5	65.5	5	43	180	317	260	220	20	
800	386	466	560	550	459	479	29	306.5	386.5	255	335	250	80	50	60.5	15	48	48	7	66.5	253.5	439.5	321			26.5
1250	386	466	560	550	459	479	29	306.5	386.5	255	335	250	80	60	65	16x11	48	48	7	66.5	253.5	439.5	320			29.25
1600	478	598	560	550	461	479	29	388.5	518.5	347	467	250	120	90	43.5	12.5x5	54	54	8	66.5	253.5	439.5	288			15

Connection terminals

SIRCOVER and SIRCOVER BY-PASS 800 A

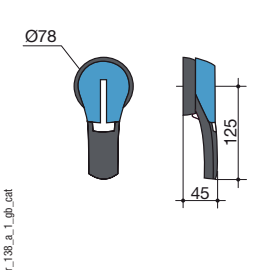
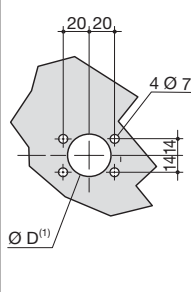
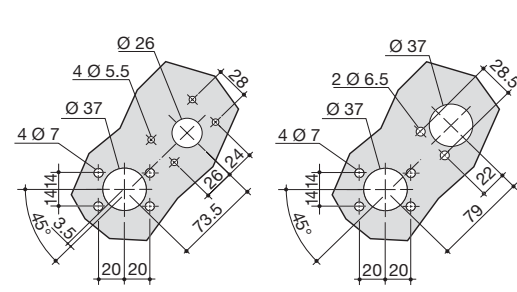


SIRCOVER and SIRCOVER BY-PASS 1250 A

SIRCOVER 1600 to 3200 A
SIRCOVER BY-PASS 1600 A

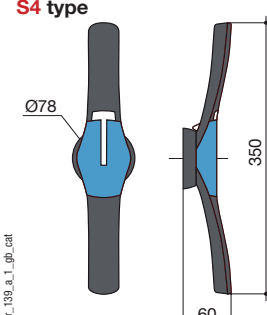
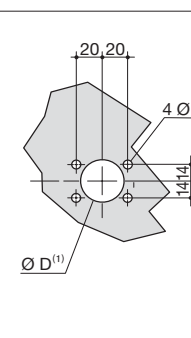
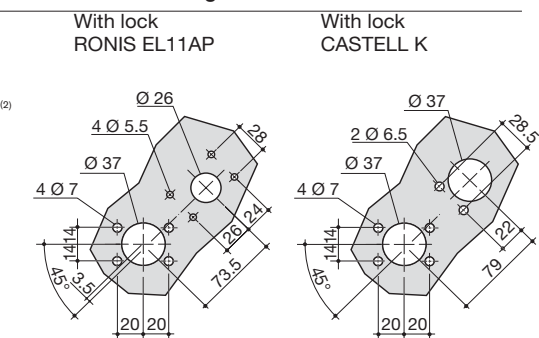
➤ Dimensions for external handles

SIRCOVER 125 to 630 A

Handle type	Direction of operation	Front operation	
		Door drilling	
S2 type			

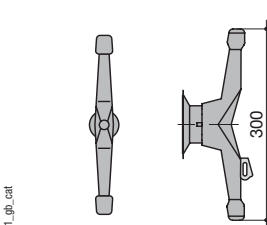
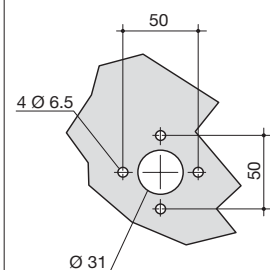
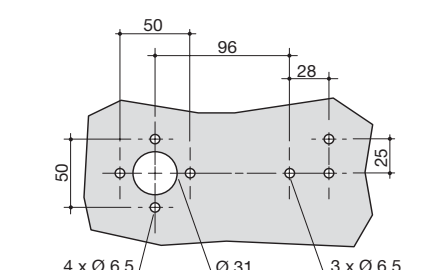
(1) Ø31 to Ø37: rear screw mounting
Ø37: front clip mounting.

SIRCOVER 800 to 1800 A

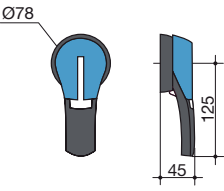
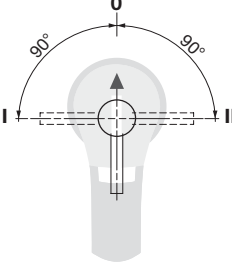
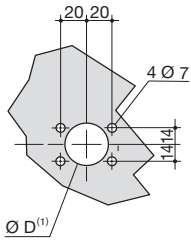
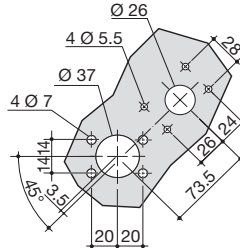
Handle type	Direction of operation	Front operation	
		Door drilling	
S4 type			

(1) Ø31 to Ø37: rear screw mounting
Ø37: front clip mounting.
(2) Ø6 to Ø7: fast fixing.

SIRCOVER 2000 to 3200 A

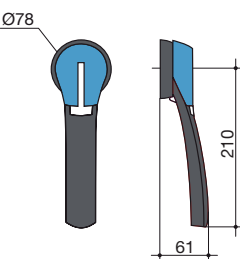
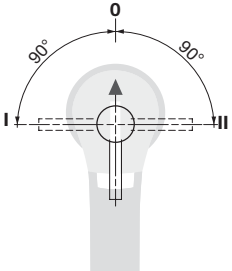
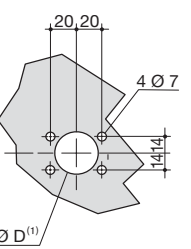
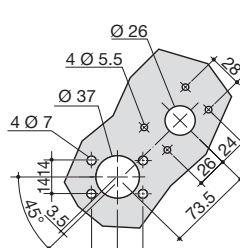
Handle type	Direction of operation	Front operation	
		Door drilling	
C type			

SIRCOVER BY-PASS 125 to 200 A

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

(1) Ø31 to Ø37: rear screw mounting Ø37: front clip mounting.

SIRCOVER BY-PASS 250 to 630 A

Handle type	Direction of operation	Front operation	
		Door drilling	
S3 type		With lock RONIS EL11AP	With lock CASTELL K
			

(1) Ø31 to Ø37: rear screw mounting Ø37: front clip mounting.

SIRCOVER BY-PASS 800 to 1600 A

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