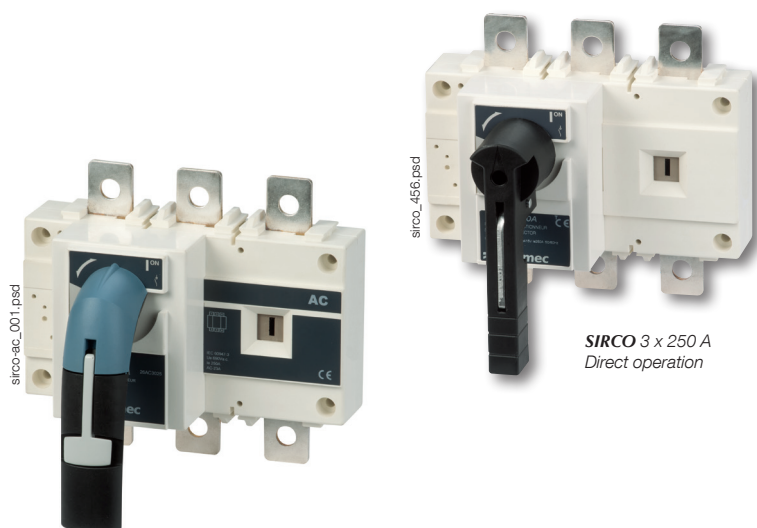


SIRCO

Load break switches for power distribution
from 125 to 5000 A



The solution for

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



Functions

SIRCO and **SIRCO AC** are manually operated multipolar load break switches.

They make and break under load conditions and provide safety isolation.

SIRCO are designed for 415 VAC and DC low voltage electrical circuits.

SIRCO AC are designed for harsh applications up to 1000 VAC - AC 23.

Advantages

Reliability and performance

The double breaking per pole, achieved through its sliding contact system, is a proven design that offers very high durability and short-circuit withstand.

The quick opening and rapid closure, combined with specifically designed arcing chambers, provides SIRCO AC with improved breaking performance.

Safety of property and personnel

The position indicator is located directly on the sliding contact system, ensuring it can be seen in all circumstances.

The use of glass fibre reinforced polyester gives the SIRCO both high mechanical and thermal resistance.

Simplicity

A common range of accessories to meet all types of applications:

- Simple mounting.
- Simplified stock management and reduced storage costs.

Easy to install

Terminal design allows the connection of all types of conductors (cables, copper bars):

- Sufficient distance between terminals to facilitate connections.
- Connection up to 6 x 185 mm².
- Connection accessories which facilitate both flat and edgewise connections.

Strong points

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

Conformity to standards

- > IEC 60947-3



Approvals and certifications⁽¹⁾

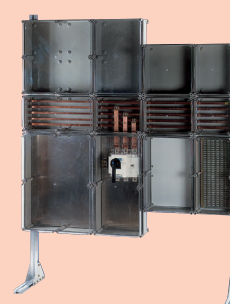


BUREAU
VERITAS

⁽¹⁾ Product references on request.

Enclosures

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

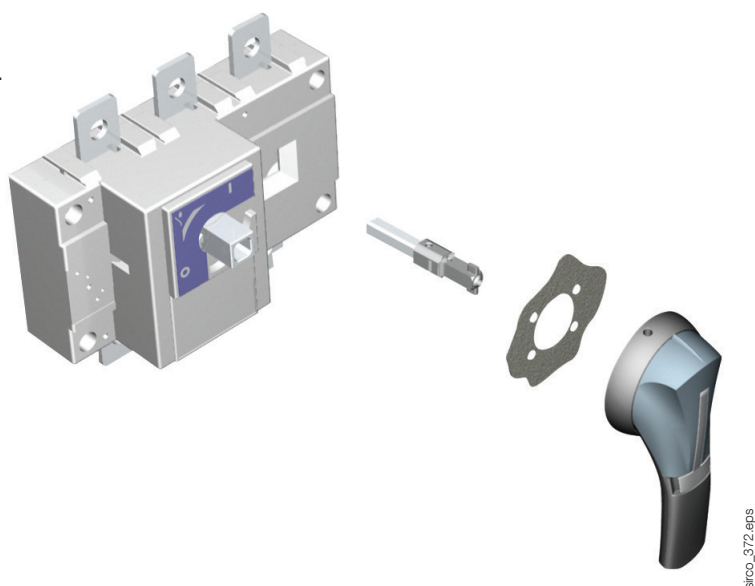


General characteristics

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

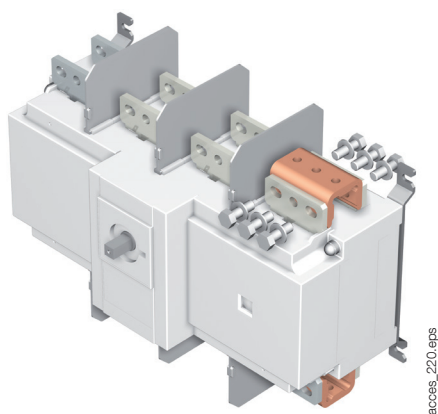
What you need to know

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

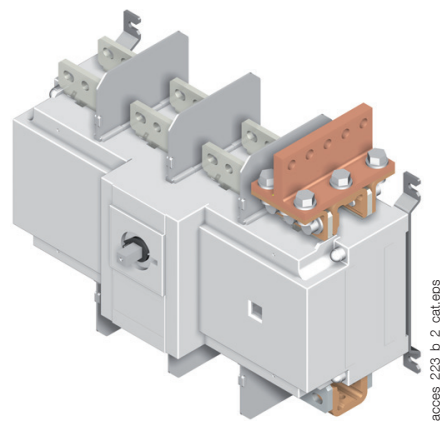


For ratings 2000, 2500 and 3200A, a copper **bar connection kit** enables the connection between the two power terminals of one pole.

Flat connection
top or bottom



Edgewise connection
top or bottom



SIRCO References

Standard applications - Front operation - 3 and 4-pole

Rating (A) / Frame size	No. of poles	Enclosure ⁽¹⁾	Direct handle	External handle	Shaft for external operation	Auxiliary contact	Terminal shroud	Terminal screens																										
125 A / B3	3 P	2600 3014	J0 type Black	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	1 st NO/NC contact 2699 0031 2 nd NO/NC contact 2699 0032	3 P	3 P																										
	4 P	2600 4014	1102 1111 ⁽²⁾ Red				2694 3014 ⁽³⁾ 4 P	2698 3012 ⁽³⁾ 4 P																										
160 A / B3	3 P	2600 3017	1103 1111				2694 4014 ⁽³⁾	2698 4012 ⁽³⁾																										
	4 P	2600 4017																																
200 A / B4	3 P	2600 3021	J1 type Black 1112 1111 Red 1113 1111				2694 3021 ⁽³⁾ 4 P	2698 3020 ⁽³⁾ 4 P																										
	4 P	2600 4021							2694 4021 ⁽³⁾	2698 4020 ⁽³⁾																								
250 A / B4	3 P	2600 3026							J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾																						
	4 P	2600 4026																																
315 A / B5	3 P	2600 3032											1 st NO/NC contact 2699 0031 2 nd NO/NC contact 2699 0032	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾																				
	4 P	2600 4032																																
400 A / B5	3 P	2600 3041													J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾																
	4 P	2600 4041																																
500 A / B5	3 P	2600 3051																	J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾												
	4 P	2600 4051																																
630 A / B5	3 P	2600 3064																					J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾								
	4 P	2600 4064																																
800 A / B6	3 P	2600 3081	J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540		3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾																											
	4 P	2600 4081																																
1000 A / B6	3 P	2600 3099						J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111					S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540													3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾							
	4 P	2600 4099																																
CD 1250 A / B6	3 P	2600 3119																										J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾			
	4 P	2600 4119																																
1250 A / B7	3 P	2600 3121							J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾																						
	4 P	2600 4121																																
1600 A / B7	3 P	2600 3161													J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111																200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾	
	4 P	2600 4161																																
1800 A / B7	3 P	2600 3181															J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111					200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾										
	4 P	2600 4181																																
2000 A / B8	3 P	2600 3200				J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111													S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾													
	4 P	2600 4200																																
2500 A / B8	3 P	2600 3250																				J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111			S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540								3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾
	4 P	2600 4250																																
3200 A / B8	3 P	2600 3320	J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540		3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾																											
	4 P	2600 4320																																
4000 A / B9	3 P	2600 3401						J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111					S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540													3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾							
	4 P	2600 4401																																
5000 A / B9	3 P	2600 3500																										J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽²⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽²⁾ 400 mm 1401 1540	3 P 2698 3050 ⁽³⁾ 4 P 2698 4050 ⁽³⁾			
	4 P	2600 4500																																

(1) Device available enclosed (see "Enclosed load break switches")

(2) Standard.

(3) Top or bottom.

SIRCO AC References

Harsh applications - Front operation - 3 and 4-pole

Rating (A) / Frame size	No. of poles	Case	Direct handle	External handle	Shaft for external operation	Auxiliary contact	Terminal shroud	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		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						
	4 P	26AC 4040						
500 A / B5	3 P	26AC 3050						
	4 P	26AC 4050						
CD 630 A / B5	3 P	26AC 3063						
	4 P	26AC 4063						
630 A / B6	3 P	26AC 3064	J4 type Blue 1142 1111 ⁽¹⁾ Red 1143 1111	S4 type Black IP65 1443 3111 ⁽¹⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽¹⁾ 400 mm 1401 1540	1 st NO/NC contact 2699 0031 2 nd NO/NC contact 2699 0032		
	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						
	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 3120 ⁽²⁾⁽³⁾ 4 P 2698 4120 ⁽²⁾⁽³⁾	
	4 P	26AC 4200						
4000 A / B9	3 P	contact us	Type V0 Black 2799 7072 ⁽¹⁾	Type V0 Black 2799 7155 ⁽¹⁾		1 st / 2 nd included	3/4P 1509 4200 ⁽⁴⁾	
	4 P							

(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 and 8-pole

Rating (A) / Frame size	No. of poles	Case	Direct handle	External handle	Shaft for external operation	Auxiliary contact	Terminal shroud	Terminal screens							
125 A / B3 _{DS}	6 P	2601 6013	J2 type Black 1122 1111 ⁽¹⁾ Red 1123 1111	S2 type Black IP55 1421 2111 ⁽¹⁾ Red IP65 1424 2111	200 mm 1400 1020 320 mm 1400 1032 ⁽¹⁾	1 st NO/NC contact 2699 0061 2 nd NO/NC contact 2699 0062	6 P 2694 3014 ⁽²⁾⁽³⁾ 8 P 2694 4014 ⁽²⁾⁽³⁾	6 P 1509 3012 ⁽⁴⁾ 8 P 1509 4012 ⁽⁴⁾							
	8 P	2601 8013													
160 A / B3 _{DS}	6 P	2601 6016													
	8 P	2601 8016													
250 A / B4 _{DS}	6 P	2601 6025	J3 type Black 1132 1111 ⁽¹⁾ Red 1133 1111	S4 type Black IP65 1443 3111 ⁽¹⁾ Red IP65 1444 3111	200 mm 1401 1520 320 mm 1401 1532 ⁽¹⁾		6 P 2694 3021 ⁽²⁾⁽³⁾ 8 P 2694 4021 ⁽²⁾⁽³⁾	6 P 1509 3025 ⁽⁴⁾ 8 P 1509 4025 ⁽⁴⁾							
	8 P	2601 8025													
400 A / B5 _{DS}	6 P	2601 6040					6 P 2694 3051 ⁽²⁾⁽³⁾ 8 P 2694 4051 ⁽²⁾⁽³⁾	6 P 1509 3063 ⁽⁴⁾ 8 P 1509 4063 ⁽⁴⁾							
	8 P	2601 8040													
630 A / B5 _{DS}	6 P	2601 6063	J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	Type V1 Black IP65 2799 7145 ⁽¹⁾	320 mm 2799 3018 ⁽¹⁾		-	6 P 1509 3080 ⁽⁴⁾ 8 P 1509 4080 ⁽⁴⁾							
	8 P	2601 8063													
800 A / B6 _{DS}	6 P	2601 6080							J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	Type V1 Black IP65 2799 7145 ⁽¹⁾	320 mm 2799 3018 ⁽¹⁾		-	6 P 1509 3080 ⁽⁴⁾ 8 P 1509 4080 ⁽⁴⁾	
	8 P	2601 8080													
1000 A / B6 _{DS}	6 P	2601 6100	J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	Type V1 Black IP65 2799 7145 ⁽¹⁾	320 mm 2799 3018 ⁽¹⁾		-	6 P 1509 3080 ⁽⁴⁾ 8 P 1509 4080 ⁽⁴⁾							
	8 P	2601 8100													
1250250 A / B7 _{DS}	6 P	2601 6120							J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	Type V1 Black IP65 2799 7145 ⁽¹⁾	320 mm 2799 3018 ⁽¹⁾		-	6 P 1509 3080 ⁽⁴⁾ 8 P 1509 4080 ⁽⁴⁾	
	8 P	2601 8120													
1600 A / B7 _{DS}	6 P	2601 6160	J4 type Blue 1142 1111 ⁽²⁾ Red 1143 1111	Type V1 Black IP65 2799 7145 ⁽¹⁾	320 mm 2799 3018 ⁽¹⁾		-	6 P 1509 3160 ⁽⁴⁾ 8 P 1509 4160 ⁽⁴⁾							
	8 P	2601 8160													

(1) Standard.

(2) Top or bottom on the front or rear of the device.

(3) Select 2 sets for front or rear.

(4) Top or bottom on the front or rear of the device.

Accessories

Direct operation handle

For SIRCO				
Rating (A) / Frame size	No. of poles	Handle type	Handle colour	Reference
125 ... 160 / B3	3/4 P	J0	Black	1102 1111 ⁽¹⁾
125 ... 160 / B3	3/4 P	J0	Red	1103 1111
125 ... 160 / B3 _{DS}	6/8 P	J2	Black	1122 1111 ⁽¹⁾
125 ... 160 / B3 _{DS}	6/8 P	J2	Red	1123 1111
200 ... 630 / B4-B5	3/4 P	J1	Black	1112 1111 ⁽¹⁾
200 ... 630 / B4-B5	3/4 P	J1	Red	1113 1111
250 ... 630 / B4 _{DS} -B5 _{DS}	6/8 P	J3	Black	1132 1111 ⁽¹⁾
250 ... 630 / B4 _{DS} -B5 _{DS}	6/8 P	J3	Red	1133 1111
800 ... 1800 / B6...B7	3/4 P	J4	Blue	1142 1111 ⁽¹⁾
800 ... 1800 / B6...B7	3/4 P	J4	Red	1143 1111
800 ... 1600 / B6 _{DS} -B7 _{DS}	6/8 P	J4	Blue	1142 1111 ⁽¹⁾
800 ... 1600 / B6 _{DS} -B7 _{DS}	6/8 P	J4	Red	1143 1111
1800 ... 3200 / B8	3/4 P	S5	Black	2799 7042 ⁽¹⁾
1800 ... 3200 / B8	3/4 P	S5	Red	2799 7043
4000 ... 5000 / B9	3/4 P	V0	Black	2799 7072 ⁽¹⁾

(1) Standard.

For SIRCO AC				
Rating (A) / Frame size	No. of poles	Handle type	Handle colour	Reference
200 ... CD 630 / B4 ... B5	3/4 P	J1	Black	1112 1111 ⁽¹⁾
200 ... CD 630 / B4 ... B5	3/4 P	J1	Red	1113 1111
630 ... 1600 / B6 ... B7	3/4 P	J4	Blue	1142 1111 ⁽¹⁾
630 ... 1600 / B6 ... B7	3/4 P	J4	Red	1143 1111
2000 / B8	3/4 P	S5	Black	2799 7042 ⁽¹⁾
2000 / B8	3/4 P	S5	Red	2799 7043
4000 / B9	3/4 P	V0	Black	2799 7072 ⁽¹⁾

(1) Standard.

External operation handle

Front operation for SIRCO and SIRCO AC						
Rating (A) / Frame size		No. of poles	Handle type	Handle colour	External IP ⁽¹⁾	Reference
125 ... 630 / B3 ... B5	200 ... CD 630 / B4 ... B5	3/4 P	S2	Black	IP55	1421 2111 ⁽²⁾
				Black	IP65	1423 2111
				Red	IP65	1424 2111
				Black	IP55	1421 2111 ⁽²⁾
125 ... 160 / B3 _{DS}		6/8 P	S2	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⁾
				Black	IP65	1443 3111 ⁽²⁾
800 ... 1800 / B6-B7	630 ... 1600 / B6 ... B7	3/4 P	S4	Red	IP65	1444 3111
				Black	IP65	2799 7136 ⁽²⁾
2000 ... 3200 / B8	2000 / B8	3/4 P	V2	Red	IP65	2799 7134
				Black	IP65	1453 8111
			S5	Red	IP65	1454 8111
4000 ... 5000 / B9	4000 / B9	3/4 P	V0	Black	IP65	2799 7155 ⁽²⁾

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

(2) Standard.



Use

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



Accessories (continued)

Shaft guide for external operation

For SIRCO and SIRCO AC 3/4-pole devices

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

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

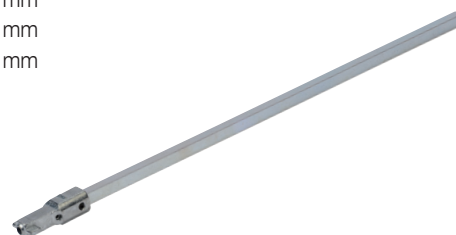
Use

Shaft lengths:

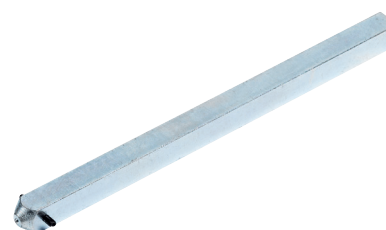
- 200 mm
- 250 mm
- 300 mm
- 400 mm
- 500 mm
- 750 mm

Other lengths available:

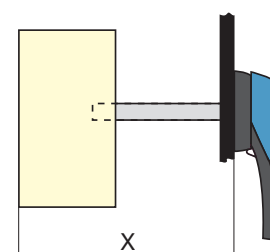
- please contact us.



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access_144.eps



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Alternative handle cover colours

Use

For S-type handles.

Handle colour	Order in multiples of	Handle type	Reference
Light grey	50	S2, S3	1401 0001
Dark grey	50	S2, S3	1401 0011
Light grey	50	S4	1401 0031
Dark grey	50	S4	1401 0041



access_198.eps

S type cover

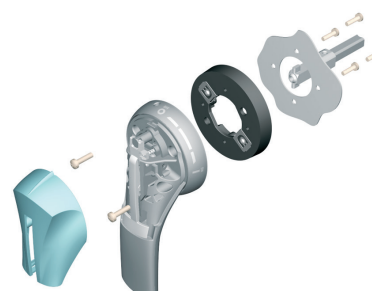
S-type handle adaptor

Use

Adds 12 mm to the depth of the handle.

Handle colour	Available for order in multiples of	External IP ⁽¹⁾	Reference
Black	1	IP65	1493 0000

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



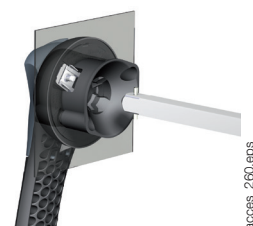
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Shaft guide for external operation

Use

Use with S-type handles to guide the shaft extension into the external handle. This accessory enables the handle to engage the extension shaft with a misalignment of up to 15 mm. Recommended for a shaft length 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 AC: IP2 for 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 AC	Reference
125 ... 3200 / B3 ... B8	1 st	2699 0031
125 ... 3200 / B3 ... B8	2 nd	2699 0032
4000 ... 5000 / B9	1 st /2 nd	included

NO/NC contact for 6/8-pole SIRCO		
Rating (A) / Frame size	Position AC	Reference
125 ... 1600 / B3 _{DS} ... B7 _{DS}	1 st	2699 0061
125 ... 1600 / B3 _{DS} ... B7 _{DS}	2 nd	2699 0062

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

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

Characteristics

Rating (A) / Frame size	Contact type	Current current (A)	Operating current I ₀ (A)									
			230 VAC		400 VAC		24 VDC			48 VDC		
			AC-12	AC-13/15	AC-12	AC-13/15	DC-12	DC-13	DC-14	DC-12	DC-13	DC-14
125 ... 3200 / B3 ... B8	NO/NC	16	16	4	12	3	2.5	2.5	1	2.5	1.2	0.2
125 ... 3200 / B3 ... B8	NO + NC	16	16	4	16	3	16	5	1	2.5	1.2	0.2

Inter-phase barriers

Use

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

For 3/4-pole SIRCO and SIRCO AC

Rating (A) / Frame size	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 630 / B5	3 P	2998 0013
315 ... 630 / B5	315 ... CD 630 / 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 shroud

Use

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

Advantage

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



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For 3/4-pole SIRCO and SIRCO AC

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

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

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

For 6/8-pole SIRCO

Rating (A) / Frame size	No. of poles	Position	Reference
125 ... 160 / B3 _{DS}	6 P	Top or bottom	2694 3014 ⁽¹⁾⁽³⁾
125 ... 160 / B3 _{DS}	8 P	Top or bottom	2694 4014 ⁽²⁾⁽³⁾
250 / B4 _{DS}	6 P	Top or bottom	2694 3021 ⁽¹⁾⁽³⁾
250 / B4 _{DS}	8 P	Top or bottom	2694 4021 ⁽²⁾⁽³⁾
400 ... 630 / B5 _{DS}	6 P	Top or bottom	2694 3051 ⁽¹⁾⁽³⁾
400 ... 630 / B5 _{DS}	8 P	Top or bottom	2694 4051 ⁽²⁾⁽³⁾

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

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

(3) Select 2 sets for front or rear.

Distribution block

Use

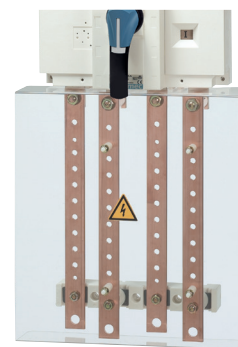
Easy connection of multiple cables, downstream of the SIRCO.

For 3/4-pole SIRCO

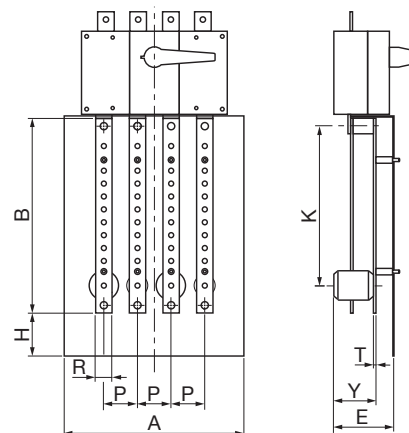
Rating (A) / Frame size	No. of poles	No. of feeders per section (mm ²)	I _{cc} (kA rms) ⁽¹⁾	Reference
160 / B3	3 P	1x95 + 8x25	10	5411 3016
160 / B3	4 P	1x95 + 8x25	10	5411 4016
250 / B4	3 P	1x150 + 8x50	15	5411 3025
250 / B4	4 P	1x150 + 8x50	15	5411 4025
400 / B5	3 P	1x240 + 8x95	21	5411 3040
400 / 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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Terminal screens

Use

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

For 3/4-pole SIRCO and SIRCO AC

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



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For 6/8-pole SIRCO

Rating (A) / Frame size	No. of poles	Position	Reference
125 ... 160 / B3 _{DS}	6 P	Top or bottom	1509 3012
125 ... 160 / B3 _{DS}	8 P	Top or bottom	1509 4012
250 / B4 _{DS}	6 P	Top or bottom	1509 3025
250 / B4 _{DS}	8 P	Top or bottom	1509 4025
400 ... 630 / B5 _{DS}	6 P	Top or bottom	1509 3063
400 ... 630 / B5 _{DS}	8 P	Top or bottom	1509 4063
800 ... 1250 / B6 _{DS} -B7 _{DS}	6 P	Top or bottom	1509 3080
800 ... 1250 / B6 _{DS} -B7 _{DS}	8 P	Top or bottom	1509 4080
1600 / B7 _{DS}	6 P	Top or bottom	1509 3160
1600 / B7 _{DS}	8 P	Top or bottom	1509 4160

Cage terminals

Use

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

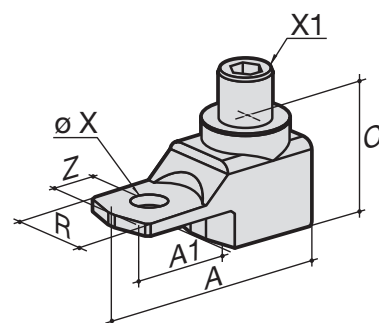
Material: tin-plated aluminium

Dimensions

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

References

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



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Accessories (continued)

Copper bar connection kits

Use

To enable connection between the two power terminals of the same pole for 2000 to 3200 A ratings (Fig. 1 and Fig. 2).

For 3200 A rating, the connection pieces (part A) are delivered bridged as standard.

Bolt sets must be ordered separately.

For more details on these specific accessories, please consult the user guide that can be downloaded at www.socomec.co.uk.

Top or bottom connection - Fig. 1

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

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

Fig. 1

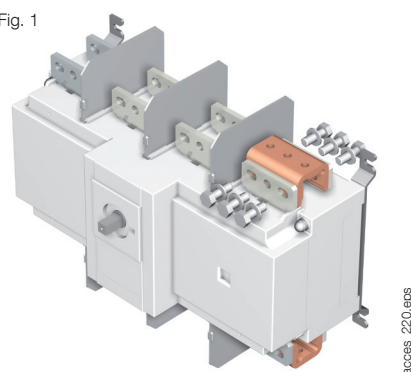
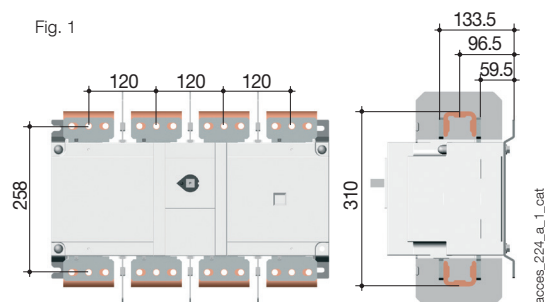


Fig. 1



Top or bottom edgewise connection - Fig. 2

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

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

(2) Bolt set is provided with the accessories.

Fig. 2

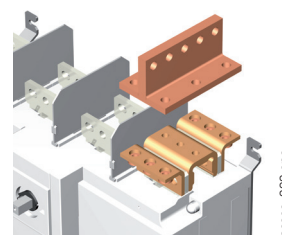
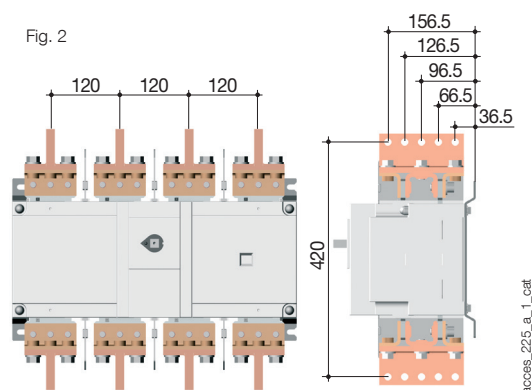


Fig. 2



Operation lock-out device

Use

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

- using a padlock (not supplied) and standard padlocking function of the handle. From 125 to 1800 A, padlocking the external front operating handle provides door interlocking

- using a lock (not supplied): see diagrams opposite,
- using an undervoltage coil: the SIRCO can only be closed if the coil is energised.

For 6 or 8-pole, please contact us.

For SIRCO

Locking using RONIS EL11AP lock (not included)

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

(1) Front operation handle included.

For SIRCO AC

Locking using RONIS EL11AP lock (not included)

Rating (A) / Frame size	No. of poles	Operation	Figure	Reference
200 ... CD 630 / B4 ... B5	3/4 P	Direct front	1	2699 6008 ⁽¹⁾
630 ... 1600 / B6 ... B7	3/4 P	Direct front	2	2699 6027

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

For SIRCO

Locking using 230 VAC undervoltage coil (please contact us for other voltages)

Rating (A) / Frame size	No. of poles	Operation	Reference
125 ... 630 / B3 ... B5	3/4 P	External front	2699 9063 ⁽¹⁾
800 ... 3200 / B6 ... B8	3/4 P	Direct front	2699 9315 ⁽¹⁾

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

Locking using CASTELL K lock (not supplied)

Rating (A) / Frame size	No. of poles	Handle type	Type of lock	Operation	Figure	Reference
125 ... 160 / B3	6/8 P	S2	K	External front	2	4109 8507
125 ... 1800 / B3 ... B8	3/4 P	S2, S4	FS	External front	3	1499 7703
125 ... 1800 / B3 ... B8	3/4 P	S2, S4	K	External front	3	1499 7702
250 ... 630 / B4 ... B5	6/8 P	S4	K	External front	2	2999 8707
800 ... 1600 / B6 ... B7	6/8 P	S5	K	External front	2	2799 7003
1250 ... 4000 / B7 ... B9	3/4 P	S5, S0	K	External front	2	2799 7003

Fig. 1

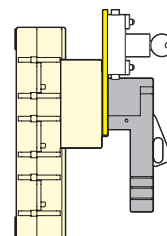


Fig. 2

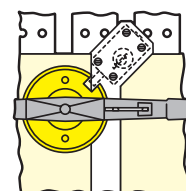


Fig. 3

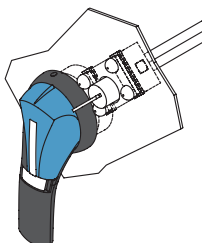
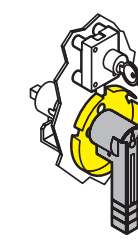


Fig. 4



Other specific accessories



- Mechanical coupling device for combining 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 ⁽²⁾ / 125 ⁽²⁾	160 ⁽²⁾ / 160 ⁽²⁾	160 ⁽²⁾ / 200 ⁽²⁾	200 ⁽²⁾ / 200 ⁽²⁾	315 ⁽²⁾ / 315 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	500 ⁽²⁾ / 500 ⁽²⁾	800 ⁽³⁾ / 800 ⁽³⁾
440 VDC	DC-22 A / DC-22 B	125 ⁽²⁾ / 125 ⁽²⁾	125 ⁽²⁾ / 125 ⁽²⁾	160 ⁽²⁾ / 160 ⁽²⁾	200 ⁽²⁾ / 200 ⁽²⁾	315 ⁽²⁾ / 315 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	500 ⁽²⁾ / 500 ⁽²⁾	800 ⁽³⁾ / 800 ⁽³⁾
440 VDC	DC-23 A / DC-23 B	125 ⁽³⁾ / 125 ⁽³⁾	125 ⁽³⁾ / 125 ⁽³⁾	160 ⁽³⁾ / 160 ⁽³⁾	200 ⁽³⁾ / 200 ⁽³⁾	315 ⁽³⁾ / 315 ⁽³⁾	400 ⁽³⁾ / 400 ⁽³⁾	400 ⁽³⁾ / 400 ⁽³⁾	500 / 500	800 ⁽³⁾ / 800 ⁽³⁾
500 VDC	DC-20 A / DC-20 B	125 / 125	160 / 160	200 / 200	250 / 250	315 / 315	400 / 400	500 / 500	630 / 630	800 / 800
500 VDC	DC-21 A / DC-21 B	125 ⁽²⁾ / 125 ⁽²⁾	125 ⁽²⁾ / 125 ⁽²⁾	160 ⁽²⁾ / 200 ⁽²⁾	200 ⁽²⁾ / 200 ⁽²⁾	315 ⁽²⁾ / 315 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	400 ⁽²⁾ / 400 ⁽²⁾	500 ⁽²⁾ / 500 ⁽²⁾	800 ⁽³⁾ / 800 ⁽³⁾
500 VDC	DC-22 A / DC-22 B	125 ⁽³⁾ / 125 ⁽³⁾	125 ⁽³⁾ / 125 ⁽³⁾	160 ⁽³⁾ / 160 ⁽³⁾	200 ⁽³⁾ / 200 ⁽³⁾	315 ⁽³⁾ / 315 ⁽³⁾	315 ⁽³⁾ / 400 ⁽³⁾	315 ⁽³⁾ / 400 ⁽³⁾	500 ⁽³⁾ / 500 ⁽³⁾	800 ⁽³⁾ / 800 ⁽³⁾
500 VDC	DC-23 A / DC-23 B	125 ⁽³⁾ / 125 ⁽³⁾	125 ⁽³⁾ / 125 ⁽³⁾	160 ⁽³⁾ / 160 ⁽³⁾	200 ⁽³⁾ / 200 ⁽³⁾	315 ⁽³⁾ / 315 ⁽³⁾	315 ⁽³⁾ / 400 ⁽³⁾	315 ⁽³⁾ / 400 ⁽³⁾	500 ⁽³⁾ / 500 ⁽³⁾	800 ⁽³⁾ / 800 ⁽³⁾

Operational power in AC-23 (kW) ⁽¹⁾⁽⁴⁾

At 415 VAC without pre-break AC ⁽¹⁾	63 / 63	80 / 80	100 / 100	132 / 132	160 / 160	220 / 220	280 / 280	280 / 280	450 / 450
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Reactive power (kvar)

At 400 VAC (kvar) ⁽⁴⁾	55	75	90	115	145	185	230	290	365
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gG DIN fuse-protected short-circuit withstand (prospective kA rms)⁽⁵⁾

Prospective short-circuit current (kA rms)	100	100	80	50	100	100	100	70	50
Associated fuse rating (A)	125	160	200	250	315	400	500	630	800

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

Rated short-time withstand current 0.3s. I_{cw} (kA rms)	15	15	17	17	25	25	25	25	50
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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) ⁽⁵⁾⁽⁶⁾	20	20	30	30	45	45	45	45	55

Connection

Minimum Cu cable cross-section	35	50	70	95	150	185	240	2 x 150	2 x 185
Minimum Cu busbar cross-section (mm ²)								2 x 30 x 5	2 x 40 x 5
Maximum copper cable cross-section (mm ²)	50	95	95	150	240	240	240	2 x 300	2 x 300
Maximum width of copper bars (mm)	25	25	32	32	40	40	40	50	63
Tightening torque min. - max. (Nm)	9 / -	9 / -	20 / -	20 / -	20 / -	20 / -	20 / -	40 / 45	40 / 45

Mechanical characteristics

Durability (number of operating cycles)	10000	10000	10000	10000	10000	10000	10000	10000	3000
Operating effort (Nm)	6.5	6.5	10	10	14.5	14.5	14.5	14.5	37
Weight of a 3-pole device (kg)	1	1.5	2	2	3.5	3.5	3.5	3.5	8
Weight of a 4-pole device (kg)	1.5	1.5	2	2	4	4	4.5	4.5	10

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

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

(3) 4-pole device with 2 poles in series per polarity

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

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

(6) Coordination tables with circuit breakers: please contact us.

SIRCO characteristics according to IEC 60947-3

1000 to 5000 A

Thermal current I_{th} at 40 °C	1000 A	CD 1250 A	1250 A	1600 A	1800 A	2000 A	2500 A	3200 A	4000 A	5000 A
Frame size	B6	B6	B7	B7	B7	B8	B8	B8	B9	B9
Rated insulation voltage U_i (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	12	12	12	12	12	12	12	12	12	12

Rated operational currents I_e (A)

Rated voltage	Utilisation category	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC-20 A / AC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
415 VAC	AC-21 A / AC-21 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
415 VAC	AC-22 A / AC-22 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	2500 / 3200	2500 / 3200	2500 / 3200
415 VAC	AC-23 A / AC-23 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1600 / 1600	1600 / 1600	1600 / 1600	1800 / 2000	1800 / 2000
220 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
220 VDC	DC-21 A / DC-21 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600	2000 / 2000	2000 / 2500	2000 / 2500	2500 / 3200	2500 / 3200
220 VDC	DC-22 A / DC-22 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600	1250 / 1600	1800 / 2000	1800 / 2000
220 VDC	DC-23 A / DC-23 B	1000 / 1000	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1250	1250 / 1600	1250 / 1600
440 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3200 / 3200	4000 / 4000	5000 / 5000
440 VDC	DC-21 A / DC-21 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	2000 ⁽²⁾ / 2000 ⁽²⁾	2000 ⁽²⁾ / 2500 ⁽²⁾	2500 ⁽²⁾ / 3200 ⁽²⁾	3200 ⁽²⁾ / 4000 ⁽²⁾	3200 ⁽²⁾ / 5000 ⁽²⁾
440 VDC	DC-22 A / DC-22 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1600 ⁽²⁾ / 1800 ⁽²⁾	1600 ⁽²⁾ / 1800 ⁽²⁾
440 VDC	DC-23 A / DC-23 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾
500 VDC	DC-20 A / DC-20 B	1000 / 1000	1250 / 1250	1250 / 1250	1600 / 1600	1800 / 1800	2000 / 2000	2500 / 2500	3250 / 3250	4000 / 4000	5000 / 5000
500 VDC	DC-21 A / DC-21 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1600 ⁽²⁾ / 1800 ⁽²⁾	1600 ⁽²⁾ / 1800 ⁽²⁾
500 VDC	DC-22 A / DC-22 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾	1250 ⁽²⁾ / 1600 ⁽²⁾
500 VDC	DC-23 A / DC-23 B	1000 ⁽²⁾ / 1000 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1250 ⁽²⁾ / 1250 ⁽²⁾	1000 ⁽²⁾ / 1000 ⁽²⁾	1000 ⁽²⁾ / 1000 ⁽²⁾	1000 ⁽²⁾ / 1000 ⁽²⁾	1000 ⁽²⁾ / 1000 ⁽²⁾	1000 ⁽²⁾ / 1000 ⁽²⁾

Operational power in AC-23 (kW) ⁽¹⁾⁽³⁾

At 415 VAC without pre-break AC ⁽¹⁾	560 / 560	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710	710 / 710
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Reactive power (kvar)

At 400 VAC (kvar) ⁽³⁾	460										
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gG DIN fuse-protected short-circuit withstand (prospective kA rms)⁽⁴⁾

Prospective short-circuit current (kA rms)	100	100	100	100	100	100	100				
Associated fuse rating (A)	1000	1250	1250	2 x 800	2 x 800	2 x 1000	2 x 1250				

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

Rated short-time withstand current 0.3s. I_{cw} (kA rms)	65	65	100	100	100	100	100	100			
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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) ⁽⁴⁾⁽⁵⁾	80	80	110	110	110	110	110	110	120	165	165

Connection

Minimum Cu cable cross-section	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 copper cable cross-section (mm ²)	4 x 185	4 x 185	4 x 185	6 x 185	6 x 185						
Maximum width of copper bars (mm)	63	63	100	100	100	100	100	100			
Tightening torque min. - max. (Nm)	40/45	40/45	40/45	40/45	40/45	40/45	40/-	40/-	40/-	40/-	

Mechanical characteristics

Durability (number of operating cycles)	3000	3000	4000	4000	4000	3000	3000	3000	2000	2000	
Operating effort (Nm)	37	37	56	56	56	75	75	75	105	105	
Weight of a 3-pole device (kg)	8	8	12	12	12	22	22	22	45	45	
Weight of a 4-pole device (kg)	10	10	15	15	15	25	25	25	50	50	

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

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

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

(4) For a rated operational voltage $U_o = 415$ VAC.

(5) Coordination tables with circuit breaker: please contact 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 (kW) ⁽³⁾								
At 690 VAC without pre-break AC		160	220	250	400	500	500	630
Reactive power (kvar)								
At 690 VAC (kvar)		160	190	250	325	400	400	450
Fuse-protected short-circuit withstand (prospective kA rms) at 690 VAC ⁽⁴⁾								
Prospective short-circuit current (kA rms)		50	50	50	50	50	50	50
Associated fuse rating (A)		200	250	315	400	500	630	630
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s at 690 VAC								
Rated short-time withstand current 0.3s. I_{cw} (kA rms)		15	15	15	15	15	15	28
Short-circuit operation (switch only)								
Rated short-time withstand current: 1 s. I_{cw} (kA rms)		8	8	8	11	11	11	20
Rated short-circuit breaking capacity without fuses I_{cm} (kA presumed peak)		22	22	22	22	22	22	40
Connection								
Minimum Cu cable cross-section		70	70	70	185	240	2 x 150	2 x 185
Minimum Cu busbar cross-section (mm ²)							2 x 30 x 5	2 x 40 x 5
Maximum copper cable cross-section (mm ²)		95	95	95	240	240	2 x 300	2 x 300
Maximum width of copper bars (mm)		32	32	32	40	40	63	63
Tightening torque min. - max. (Nm)		20/-	20/-	20/-	20/-	20/-	20/-	40/45
Mechanical characteristics								
Durability (number of operating cycles)		10000	10000	10000	5000	5000	5000	4000
Operating effort (Nm)		10	10	10	14.5	14.5	14.5	48
Weight of a 3-pole device (kg)		2	2	2	3.5	3.5	3.5	8
Weight of a 4-pole device (kg)		2	2	2	4	4	4	10

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

(2) With terminal shrouds or inter-phase barrier.

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

(4) For a rated operational voltage 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 (kW) ⁽³⁾

At 690 VAC without pre-break AC	900	900	-	-	-	-	-
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Reactive power (kvar)

At 690 VAC (kvar)	550	750	950	950	-	-	-
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Fuse-protected short-circuit withstand (prospective kA rms) at 690 VAC⁽⁴⁾

Prospective short-circuit current (kA rms)	50	50	50	50	50	-	-
Associated fuse rating (A)	800	800	2 x 500	1250	2 x 800	-	-

Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s at 690 VAC

Rated short-time withstand current 0.3s. I_{cw} (kA rms)	28	55	55	53	53	53	53
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Short-circuit operation (switch only) at 690 VAC

Rated short-time withstand current: 1 s. I_{cw} (kA rms)	20	30	30	35	35	35	35
Rated short-circuit breaking capacity without fuses I_{cm} (kA presumed peak)	40	80	80	75	75	75	75

Connection

Minimum Cu cable cross-section	2 x 185	2 x 240					
Minimum Cu busbar cross-section (mm²)	2 x 40 x 5	2 x 50 x 5	2 x 60 x 5	2 x 60 x 5	2 x 80 x 5	3 x 100 x 5	1 x 100 x 5
Maximum copper cable cross-section (mm²)	2 x 300	4 x 185	4 x 185	4 x 185	6 x 185		
Maximum width of copper bars (mm)	63	63	63	100	100	100	
Tightening torque min. - max. (Nm)	40/45	40/45	40/45	40	40	40	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 inter-phase barrier.

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

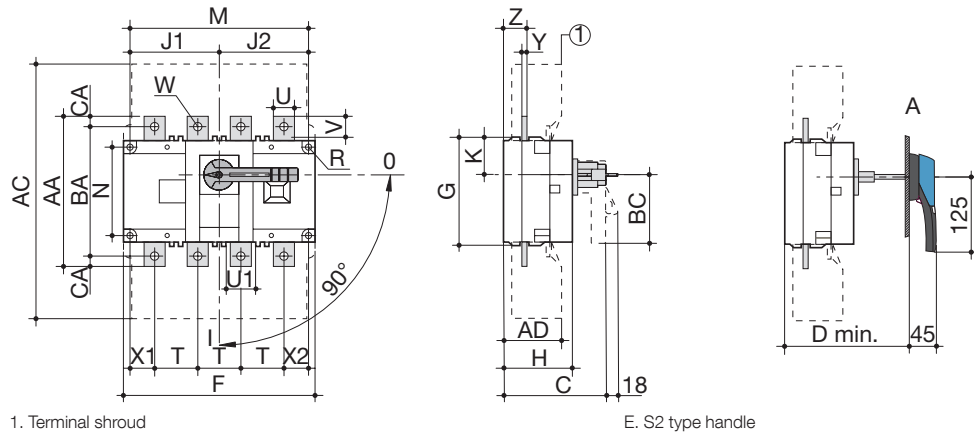
(4) For a rated operational voltage U_e = 690 VAC.

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



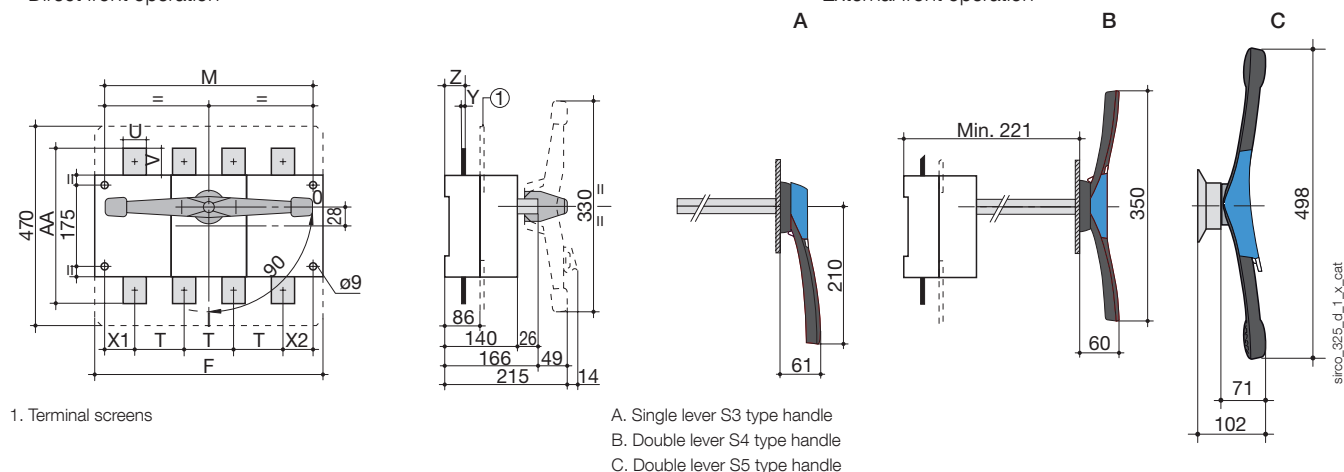
sirco_198_L1_x_cat

Rating (A) / Frame size		Perimeter dimensions		Terminal shroud		Case										Mounting accessory				Connection											
SIRCO	SIRCO AC	C	D min	AC	AD	F 3p.	F 4p.	G	H	J1 3p.	J1 4p.	J2	K	BC	M 3p.	M 4p.	N	R	T	U	U1	V	W	X1 3p.	X1 4p.	X2	Y	Z	AA	BA	CA
125...160 / B3		115	125	235	50	140	170	93	65	45	75	75	31.5	80	120	150	65	5.5	36	20	20.5	25	9	28	22	20	3.5	20.5	135	115	10
200...250 / B4	200...250 / B4			280	60	180	230	108	75	55	105	105	34	115	160	210	80	5.5	50	25	25.5	21.5	11	33	33	27	3.5	22.5	170	130	15
	315 / B4	160	165																	35											
315...400 / B5	400...500 / B5																			32		29	11						235	205	15
500 / B5	-																			45	45.5										
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

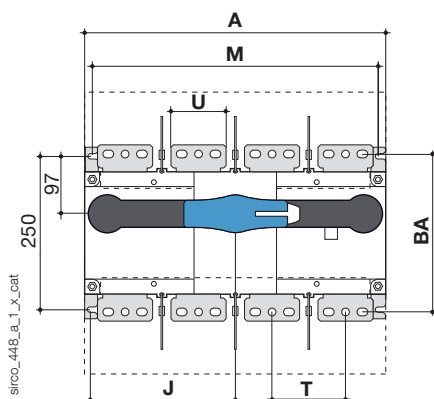


sirco_325_d_1_x_cat

Rating (A) / Frame size		Case		Mounting accessory		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			

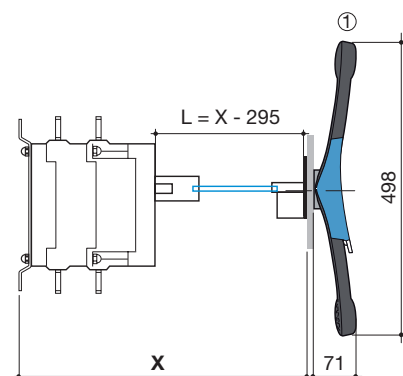
SIRCO 2000 to 3200 A and SIRCO AC 2000 A - B8

Direct front operation



1. Double lever S5 type handle

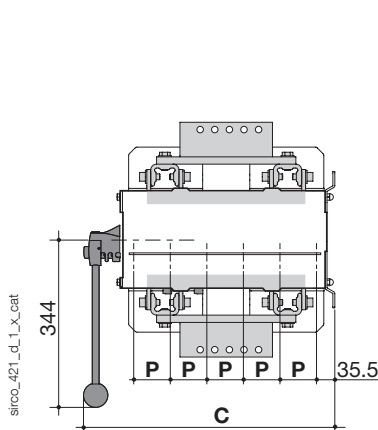
External front operation



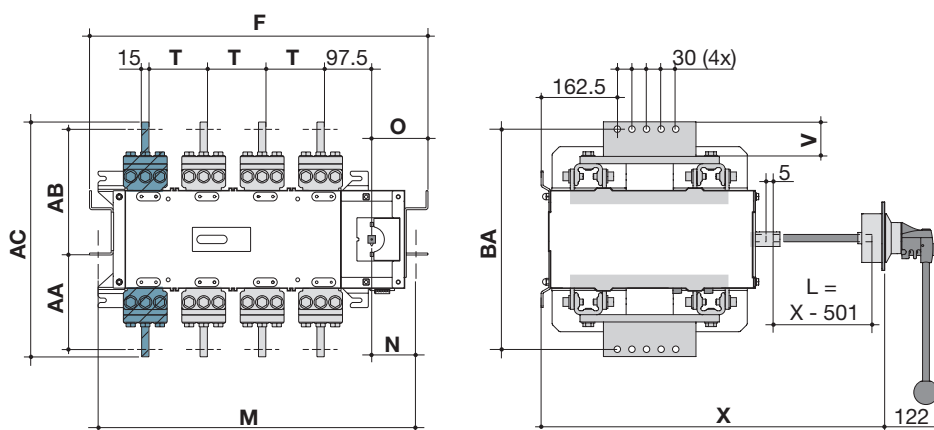
Rating (A) / Frame size		Perimeter dimensions		Case		Mounting accessory		Connection			
SIRCO	SIRCO AC	A 3p.	A 4p.	J 3p.	J 4p.	M 3p.	M 4p.	T	U	Y	BA
2000 ... 3200 / B8	2000 / B8	372	492	173.5	233.5	347	367	120	90	8	258

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

Direct front operation



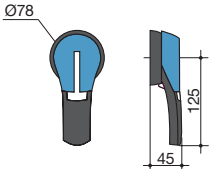
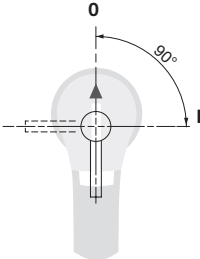
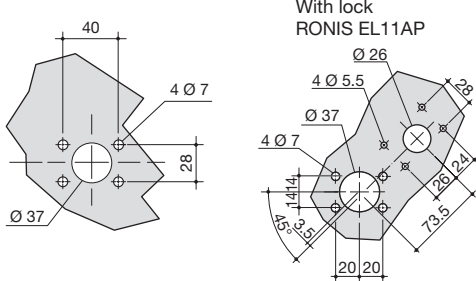
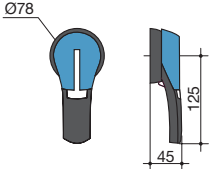
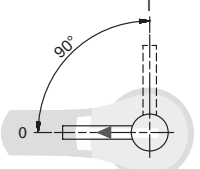
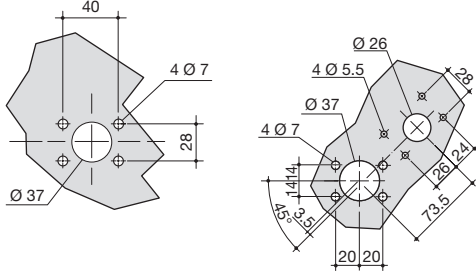
External front operation



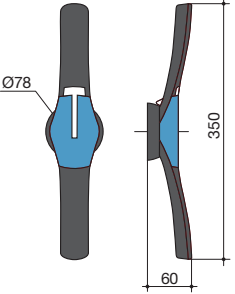
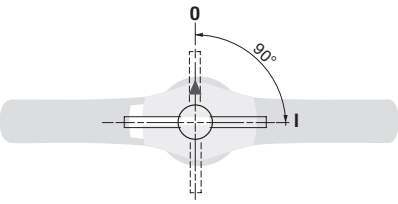
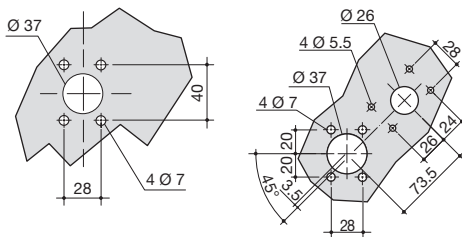
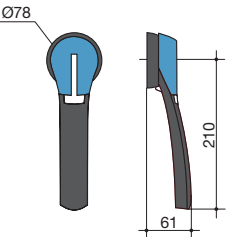
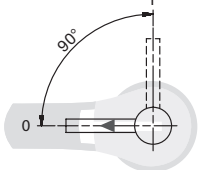
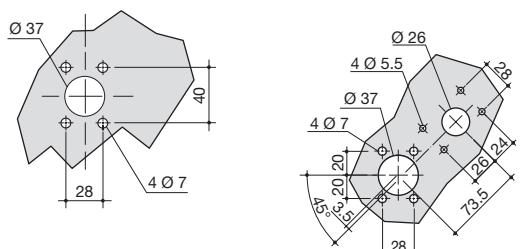
Rating (A) / Frame size		Perimeter dimensions	Case		Mounting accessory					Connection					
SIRCO	SIRCO AC	C	F 3p.	F 4p.	M 3p.	M 4p.	N	O	P	T	V	AA	AB	AC	BA
4000 ... 5000 / B9	4000 / B9	514	695	695	660	660	98	115.5	75	120	86	160	292	482	452

Dimensions for external handles

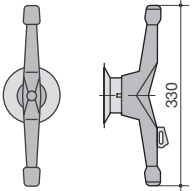
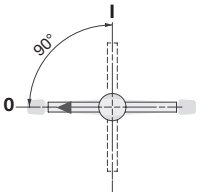
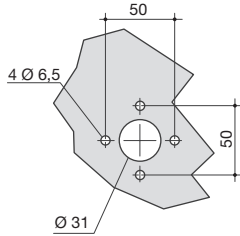
B3 to B5

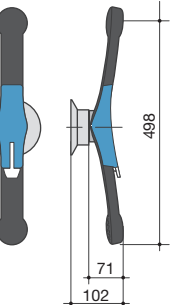
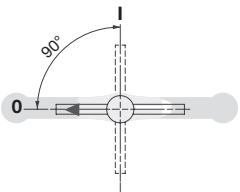
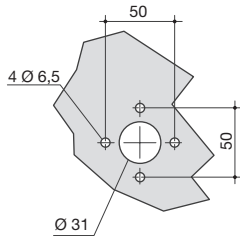
Handle type	Front operation Direction of operation	Door drilling
S2 type  Ø78 125 45	 0 90° I	 With lock RONIS EL11AP Ø26 4 Ø 5.5 Ø37 4 Ø 7 1414 15° 3.5 73.5 26 24 20 20 40 28 Ø 37 4 Ø 7
S2 type  Ø78 125 45	Side operation Right side operation  90° 0	 With lock RONIS EL11AP Ø26 4 Ø 5.5 Ø37 4 Ø 7 1414 15° 3.5 73.5 26 24 20 20 40 28 Ø 37 4 Ø 7

B6 - B7

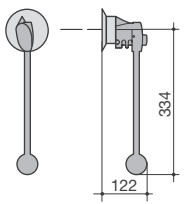
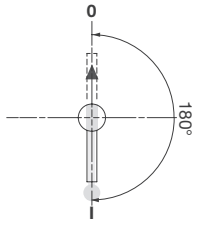
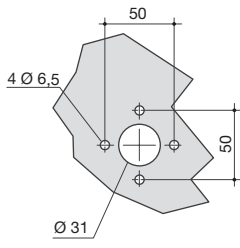
Handle type	Front operation Direction of operation	Door drilling
S4 type  Ø78 350 60	 0 90° I	 With lock RONIS EL11AP Ø26 4 Ø 5.5 Ø37 4 Ø 7 1414 15° 3.5 73.5 26 24 20 20 40 28 Ø 37 4 Ø 7
S3 type  Ø78 210 61	Side operation Right side operation  90° 0	 With lock RONIS EL11AP Ø26 4 Ø 5.5 Ø37 4 Ø 7 1414 15° 3.5 73.5 26 24 20 20 40 28 Ø 37 4 Ø 7

B7 - B8

Handle type	Front operation Direction of operation	Door drilling
V2 Type  poign_065_a_1_gb_cat		

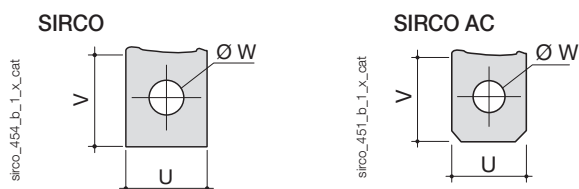
Handle type	Front operation Direction of operation	Door drilling
S5 type with V Escutcheon  poign_020_a_1_gb_cat		

B9

Handle type	Front operation Direction of operation	Door drilling
V0 type  poign_009_a_1_gb_cat		

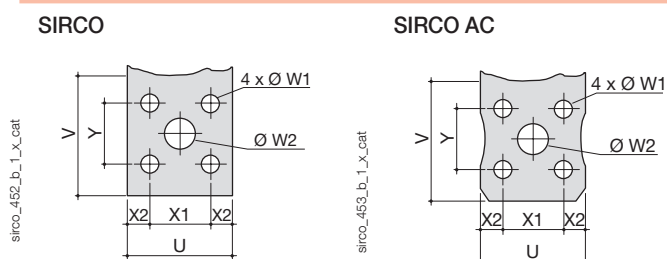
Connection terminal

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



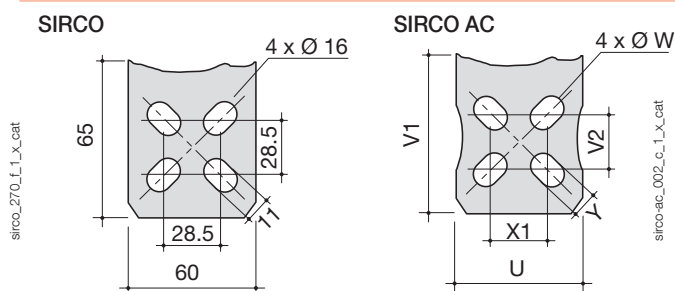
Rating (A)		U	V	W
SIRCO	SIRCO AC			
125 ... 160		20	25	9
200 ... 250	200 ... 250	25	21.5	11
	315	35		
315 ... 400	400 ... 500	32	29	13
500				
630	CD 630	45	41.5	

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



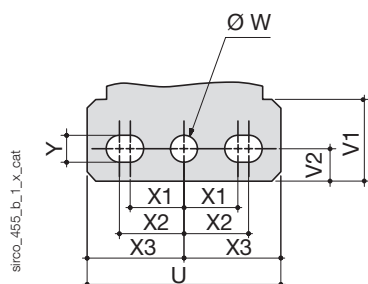
Rating (A)		U	V	W1	W2	X1	X2	Y
SIRCO	SIRCO AC							
800 ... 1000	630 ... 1000	50	60.5	9	15	33	8.5	33

SIRCO and SIRCO AC CD 1250 A



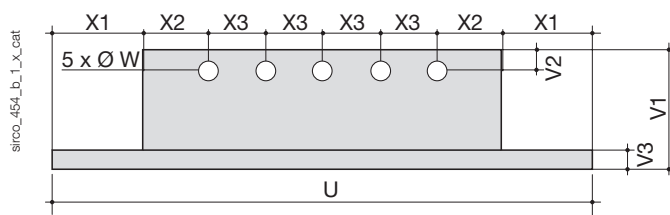
Rating (A)		U	V1	V2	W	X1	Y
SIRCO	SIRCO AC						
CD 1250 A	CD 1250 A	60	65	28.5	16	28.5	11

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



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