

Manual transfer enclosed switches

Enclosed COMO CS, SIRCOVER, SIRCO M

25 to 1600 A



COMO CS *enclosure*
25 to 100 A
Polycarbonate - IP65



SIRCOVER *enclosure*
160 to 630 A
Polyester - IP65



SIRCO M *enclosure*
32 to 100 A
Painted steel - IP65



SIRCOVER *enclosure*
160 to 1600 A
Painted steel - IP65

The solution for

> Securing the electrical supply for moderately sensitive applications



Strong points

> Safe operation
> Suitable for all kinds of environment
> Easy setup
> Extensive range

Compliance with standards

> IEC 60947-6,-1
> IEC 60364
> IEC 61439
> EN 60204-1

Function

Enclosed changeover switches ensure the on-load changeover of circuits and safely isolate all low-voltage electrical circuits by providing protection against contact with live parts and environmental elements such as dust, water and other hazards.

They safely switch sources or loads and enable the shutdown and isolation of the power supply as close to the equipment as possible.

Advantages

Safe operation
- Proximity disconnection.
- Ergonomic control lever.
- Triple lock system.

Suitable for all kinds of environments
- Isolating for chemical environments and outdoor areas.
- Painted steel for impact protection.
- Stainless steel for food processing and pharmaceutical applications.

Easy setup
- Room for cabling.
- Pre-drilled cable-in holes.

Extensive range
- Standard range.
- Products suitable for any use.
- Red-yellow, black lever.

COMO CS in polycarbonate enclosure



General characteristics

- 25 to 100 A
- 3 poles, 4 poles.
- Red lever / yellow backplate.
- Triple lock in OFF position.
- Polyester enclosure.
- Screw-on cover.
- Colour: RAL 7035.
- Degree of protection: IP65.
- Wall-mounted.
- Built-in bridging bars.

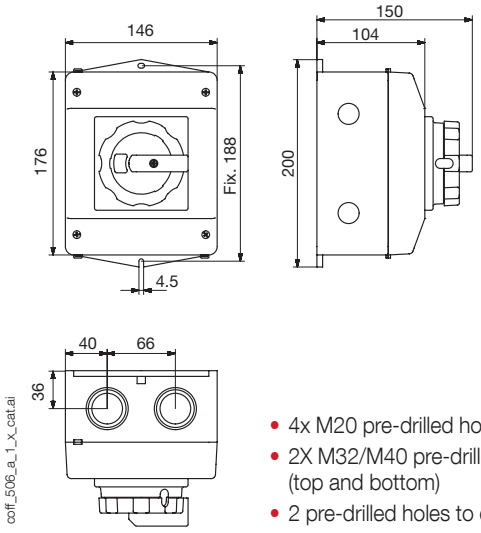
References

Rating (A)	No. of poles	I-0-II Reference	I-II Reference
25	3 P	4331 **3C02**	4321 **3C02**
25	4 P	4331 **4C02**	4321 **4C02**
40	3 P	4331 **3C04**	4321 **3C04**
40	4 P	4331 **4C04**	4321 **4C04**
63	3 P	4331 **3C06**	4321 **3C06**
63	4 P	4331 **4C06**	4321 **4C06**
100	3 P	4331 **3C10**	4321 **3C10**
100	4 P	4331 **4C10**	4321 **4C10**

Mechanical accessories

Name	Reference
Set of 4 brackets for enclosure P = 171 mm	U000 **CB18**

Dimensions



- 4x M20 pre-drilled holes (on the side)
- 2X M32/M40 pre-drilled holes (top and bottom)
- 2 pre-drilled holes to expel water

Rating (A)	No. of poles	H x W x D (mm)	Cable-in (top and bottom)
25 … 40	3 / 4 P	200 x 146 x 104	2 x (Ø 32 + Ø 40)
63 … 100	3 / 4 P	270 x 180 x 171	-

COMO CS in polycarbonate enclosure (continued)

Characteristics according to IEC 60947-3

Conventional free air thermal current I_{th} at 40 °C (A)	**25 A**	**40 A**	**63 A**	**100 A**
Conventional free air thermal current I_{th} at 50 °C (A)	25	34	63	100
Conventional free air thermal current I_{th} (60 °C) (A)	19	24	53	90
Rated insulation voltage U_i (V)	690	690	690	690
Rated impulse withstand voltage U_{imp} (kV)	4	6	6	6
Rated operational currents I_e (A)				
Utilisation category at 400 VAC				
AC-21A	25	40	63	100
AC-22A	20,5	40	63	100
AC-23A	15	29	63	63
AC-3	12	22	/	/
Utilisation category at 690 VAC				
AC-21A	25	40	63	100
AC-22A	20,5	40	63	100
AC-23A	8,5	17	63	63
AC-3	7	12,8	/	/
Operational power in AC-23 (kW)(1)				
At 400 VAC without pre-break AC	7,5	15	37	37
At 690 VAC without pre-break AC	4,8	15	/	/
Fuse protected short-circuit withstand with gG DIN fuses				
Prospective short-circuit (kA rms)	7	10	5	5
Associated fuse rating (A)	25	40	63	100
Rated operational voltage (Va.c)	690	690	690	690
Connection				
Minimum CU cable cross-section (mm^2)	0,5	1	1.5	4
Maximum CU cable cross-section (mm^2)	4	10	16	35
Tightening torque min - max (Nm)	0.8-1.2	1.2-1.5	2.5	1.5
Mechanical characteristics				
Durability (number of operating cycles)	100 000	100 000	100 000	100 000
Weight of a 3 pole device (g)	109	184	440	440
Weight of a 4 pole device (g)	130	221	535	535

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

SIRCOVER in polyester enclosure



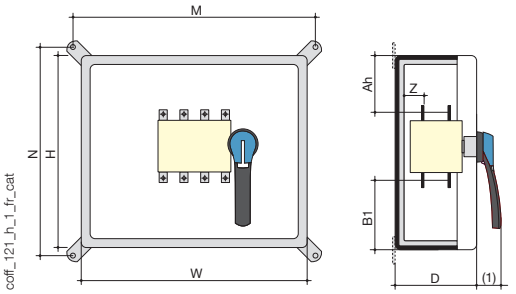
General characteristics

- From 160 to 630 A.
- 3 poles, 4 poles.
- Switch with transfer when OFF (I-0-II), other options on request
- Black lever.
- Triple lock in OFF position.
- Polyester enclosure.
- Door latch system.
- Colour: RAL 7035.
- IP rating: IP55.
- Wall-mounted, 4 brackets included.
- Bridging bars (order separately).
- NO/NC auxiliary contact (order separately).
- Terminal screen (order separately).

References

Rating (A)	N° of poles	Reference	Bridging bars	Auxiliary contacts	Protective screen
160	3 P	4215 **3016**	4109 **3019**	1 contact NO/NC 4109 **0021**	1509 **3012**
	4 P	4215 **4016**	4109 **4019**		1509 **4012**
250	3 P	4215 **3025**	4109 **3025**		1509 **3025**
	4 P	4215 **4025**	4109 **4025**		1509 **4025**
400	3 P	4215 **3040**	4109 **3040**		1509 **3025**
	4 P	4215 **4040**	4109 **4040**		1509 **4025**
630	3 P	4215 **3063**	4109 **3063**		1509 **3063**
	4 P	4215 **4063**	4109 **4063**		1509 **4063**

Dimensions



Rating (A)	N° of poles	H x W x D (mm)	M (mm)	N (mm)	Z (mm)	Ah (mm)	B1 (mm)	Weight (kg)
160	3 P	540 x 270 x 233	272	542	28	210	210	9
	4 P	540 x 360 x 233	362	542	28	210	210	10
250	3 P	540 x 360 x 233	362	542	29	205	205	11
	4 P	540 x 360 x 233	362	542	29	205	205	12
400	3 P	800 x 600 x 300	620	796	29	330	330	30
	4 P	800 x 600 x 300	620	796	29	330	330	31
630	3 P	800 x 600 x 300	620	796	45	297	297	38
	4 P	800 x 600 x 300	620	796	45	297	297	40

Characteristics according to IEC 60947-3, IEC 60947-6-1 and IEC 61439-2

Thermal current I_{th} (40°C)		**160 A**	**250 A**	**400 A**	**630 A**
Enclosed thermal current I_{th} (35°C) (A)		160	250	400	630
Enclosed thermal current I_{th} (50°C) (A)		138	216	345	544
Rated insulation voltage U_i (V)		800	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)		8	12	12	12
Rated operational currents Ie (A)					
Rated voltage	**Utilisation category**				
415 VAC	AC-23 A / AC-23 B	160	250	400	500/630
690 VAC	AC-23 A / AC-23 B	63/80	125	125	400
Operational power in AC-23 (kW)					
400 VAC without pre-break AC (kW)		80	132	280	450
690 VAC without pre-break AC (kW)		55/75	90/110	150/185	185/220
Current rated as conditional short-circuit with fuse gG DIN					
Prospective short-circuit current (kA rms)		100	50	50	50
Associated fuse rating (A)		160	250	400	630
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)		12	15	15	17
Short-circuit operation (switch only)					
Rated short-time withstand current I_{cw} 1s (kA rms)		7	8	8	10
Connection					
Minimum Cu cable cross-section (mm^2)		35	95	185	2x120
Maximum Cu cable cross-section (mm^2)		95	150	240	2x300

Manual transfer enclosed switches

Enclosed COMO CS, SIRCOVER, SIRCO M

25 to 1600 A

SIRCO M changeover switch in steel enclosure



General characteristics

- 32 to 100A.
- 3 poles + solid neutral , 4th switched pole optional extra (max. 1).
- Black lever
- Triple lock in OFF position.
- Painted steel enclosure.
- Door latch system.
- Fixed via 4 holes at the base of the enclosure.
- Colour: RAL 7035.
- Pre-drilled cable-in holes at top and bottom.
- Degree of protection: IP65.
- Aux contact NO+NC or 2 NC (max. 1 per source) (order separately).
- Terminal shroud (order separately).
- Bridging bars (order separately).

References

Rating (A)	No. of poles	I-0-II Reference	Bridging bars	Auxiliary contacts	Terminal shroud and screen
32	3 P + N	4214 **5003**	2299 **3005**	1 contact NO + NC 2299 **0001** 1 contact 2 NC 2299 **0011**	(3 P) 2294 **3005**
	4 P	4214 **4003**	2299 **4005**		(1 P) 2294 **1005**
63	3 P + N	4214 **5006**	2299 **3009**		(3 P) 2294 **3009**
	4 P	4214 **4006**	2299 **4009**		(1 P) 2294 **1009**
100	3 P + N	4214 **5010**			(3 P) 2294 **3016**
	4 P	4214 **4010**			(1 P) 2294 **1011**

Dimensions

Rating (A)	No. of poles	H x W x D (mm)	Cable-in (mm) (top and bottom)
32 … 63	3 P + N 4 P	300 x 250 x 150	2 x 16.5 + 2 x 25.5 + 2 x 32.5
100	3 P + N 4 P	400 x 300 x 210	180 x 100

Characteristics according to IEC 60947-3, IEC 60947-6-1 and IEC 61439-2

Thermal current I_{th} (40°C)		**32 A**	**63 A**	**100 A**
Frame size		**M1**	**M2**	**M3**
Enclosed thermal current I_{th} (35°C) (A)		32	63	100
Enclosed thermal current I_{th} (50°C) (A)		28	54	86
Rated insulation voltage U_i (V)		800	800	800
Rated impulse withstand voltage U_{imp} (kV)		8	8	8
Rated operational currents I_e (A)				
Rated voltage	**Utilisation category**			
415 VAC	AC-23 A / AC-23 B	32	63	100
690 VAC	AC-23 A / AC-23 B	25	40	63
Operational power in AC-23 (kW)				
400 VAC without pre-break AC (kW)		15	30	45
690 VAC without pre-break AC (kW)		15	30	45
Current rated as conditional short-circuit with fuse gG DIN				
Prospective short-circuit current (kA rms)		50	50	25
Associated fuse rating (A)		32	63	100
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)		2.5	3	5
Short-circuit operation (switch only)				
Rated short-time withstand current I_{cw} 1s (kA rms)		1.26	1.5	2.75
Rated peak withstand current (kA peak)		6	9	12
Connection				
Minimum Cu cable cross-section (mm^2)		1.5	2.5	10
Maximum Cu cable cross-section (mm^2)		16	35	70

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SIRCOVER in steel enclosure



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General characteristics

- From 160 to 1600 A.
- 3 poles + solid neutral, 4 poles.
- Black lever.
- Triple lock in OFF position.
- Painted steel enclosure.
- Door latch system.
- Colour: RAL 7035.
- Pre-drilled cable-in holes at top and bottom
- Degree of protection: IP65.
- Wall-mounted, 4 brackets included.
- Bridging bars (order separately).
- NO/NC auxiliary contact (order separately).
- Terminal screen (order separately).

References

Rating (A)	No. of poles	I-0-II Reference	Bridging bars	Auxiliary contacts	Protective screen
160	3 P + N	4214 **5016**	4109 **3019**	1 contact NO/NC 4109 **0021**	1509 **3012**
	4 P	4214 **4016**	4109 **4019**		1509 **4012**
250	3 P + N	4214 **5025**	4109 **3025**		1509 **3025**
	4 P	4214 **4025**	4109 **4025**		1509 **4025**
400	3 P + N	4214 **5040**	4109 **3039**		1509 **3025**
	4 P	4214 **4040**	4109 **4039**		1509 **4025**
630	3 P + N	4214 **5063**	4109 **3063**		1509 **3063**
	4 P	4214 **4063**	4109 **4063**		1509 **4063**
800	3 P + N	4214 **5080**	4109 **3080**		1509 **3080**
	4 P	4214 **4080**	4109 **4080**		1509 **4080**
1250	3 P + N	4214 **5084**	4109 **3120**		1509 **3080**
	4 P	4214 **4084**	4109 **4120**		1509 **4080**
1600	3 P + N	4214 **5088**	4109 **3160**		1509 **3160**
	4 P	4214 **4088**	4109 **4160**		1509 **4160**

Dimensions

Rating (A)	No. of poles	H x W x D (mm)	Cable-in (mm) (top and bottom)
160 ... 250	3 P + N 4 P	600 x 400 x 250	280 x 100
400 ... 630	3 P + N 4 P	800 x 600,350	560 x 100
800 ... 1600	3 P + N 4 P	1200 x 800,500	660 x 100

Characteristics according to IEC 60947-3, IEC 60947-6-1 and IEC 61439-2

Thermal current I_{th} (40°C)		**160 A**	**250 A**	**400 A**	**630 A**	**800 A**	**1250 A**	**1600 A**
Enclosed thermal current Ith (35°C) (A)		160	250	400	630	770	1000	1450
Enclosed thermal current Ith (50°C) (A)		138	216	345	544	665	863	1252
Rated insulation voltage U_i (V)		800	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)		8	12	12	12	12	12	12
Rated operational currents I_e (A)								
Rated voltage	**Utilisation category**							
415 VAC	AC-23 A / AC-23 B	160	250	400	500/630	800	1250	1250
690 VAC	AC-23 A / AC-23 B	63/80	125	125	400	630	800	800
Operational power in AC-23 (kW)								
400 VAC without pre-break AC (kW)		80	132	280	450	710	710	710
500 VAC without pre-break AC (kW)								
690 VAC without pre-break AC (kW)		55/75	90/110	150/185	185/220	185/220	475	750
Current rated as conditional short-circuit with fuse gG DIN								
Prospective short-circuit current (kA rms)		100	50	50	50	50	100	100
Associated fuse rating (A)		160	250	400	630	800	1250	2x800
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)		12	15	15	17	64	64	78
Short-circuit operation (switch only)								
Rated short-time withstand current I_{cw} 1s (kA rms)		7	8	8	10	35	35	50
Connection								
Minimum Cu cable cross-section (mm^2)		35	95	185	2 x 120	2 x 185		
Maximum Cu cable cross-section (mm^2)		95	150	240	2 x 300	2 x 300	4 x 185	6 x 185