

Safety enclosures

Safety enclosures

ATEX enclosures

Customised solutions



Functions

Safety enclosures equipped with SOCOMEC switches provide emergency breaking, breaking for mechanical maintenance and safety isolation in the vicinity of any low voltage final circuit.

They offer the following features:

- fully visible breaking,
- visible breaking,
- double door locking,
- triple locking of the handle,
- mechanical flag indicator (optional).

Conformity to standards

- IEC 60364
- EN 60204-1
- EN 60439
- EN 60695-2-11

General characteristics

Environment	Steel	Polyester
Chemical attack		•
Mechanical risk	•	
Dust hazard	•	•
Contamination hazard		•
Atmospheric corrosion		•

• Steel enclosure

- FEP01ZE steel, electrogalvanised, 2 mm thick.
- 2 earth connection points.
- IP55, Ik 10 (glass excepted).

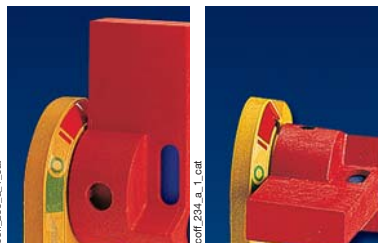
• Polyester enclosure

- High comparative tracking index.
- High resistance to chemicals.
- Self-extinguishing at 960°C.
- 2 earth connection points.

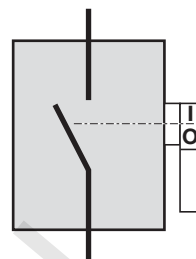


Safety functions

Fully visible breaking



The handle can only indicate the "open" position if the contacts are actually open.

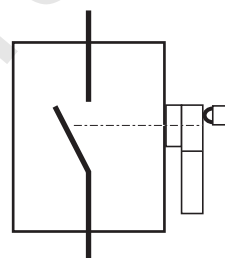


coff_259_b_1_x_cat

Locking

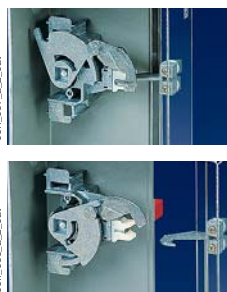


The ergonomic handle can accommodate up to three locks.



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Double locking (e.g. side operation)

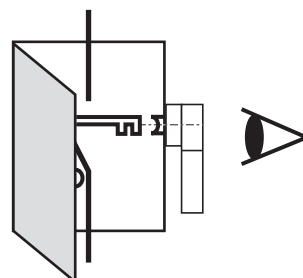


The double locking of the enclosure prevents the opening of the door when the breaking device is closed and the closure of the breaking device when the door is open.



Neutralisation of the double locking feature

It is possible to close the breaking device when the enclosure door is open by using a tool to inhibit the double lock, thus allowing tests to be carried out by qualified staff.



coff_261_a_1_x_cat

Visible breaking

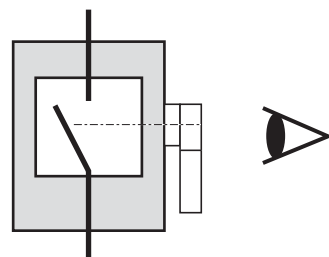


In position 1



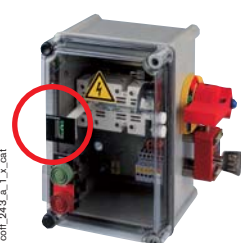
In position 0

In accordance with NF C 13-100: "an isolating device is considered as having visible breaking if the separation of the contacts is directly visible."



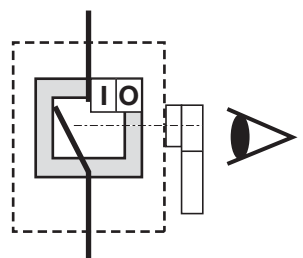
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Optional extra: mechanical flag indicator



Flush with the sight glass and integral with the movable bar, it indicates the position of the contacts unambiguously and at a glance.

It provides easier visualisation of the visible breaking.



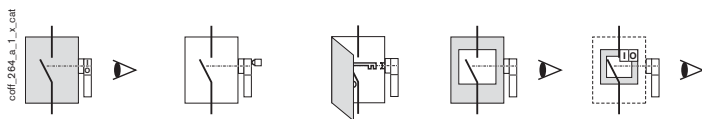
coff_263_a_1_x_cat

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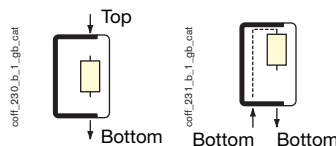
Customised solutions



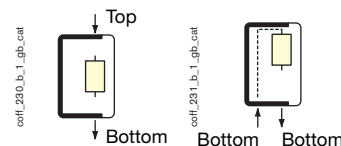
Steel enclosure



Connection



Connection



References⁽¹⁾

Rating (A)	No. of poles	References	References	References	References
50	3 P	3211 3005	3221 3005	3261 3005	3271 3005
50	4 P	3211 4005	3221 4005	3261 4005	3271 4005
50	6 P	-	-	3261 6005	3271 6005
80	3 P	3211 3008	3221 3008	3261 3008	3271 3008
80	4 P	3211 4008	3221 4008	3261 4008	3271 4008
80	6 P	-	-	3261 6008	3271 6008
125	3 P	3211 3012	3221 3012	3261 3012	3271 3012
125	4 P	3211 4012	3221 4012	3261 4012	3271 4012
125	6 P	3211 6012	3221 6012	3261 6012	3271 6012
200	3 P	3211 3020	3221 3020	3261 3020	3271 3020
200	4 P	3211 4020	3221 4020	3261 4020	3271 4020
200	6 P	3211 6020	3221 6020	3261 6020	3271 6020
400	3 P	3211 3040	3221 3040	3261 3040	3271 3040
400	4 P	3211 4040	3221 4040	3261 4040	3271 4040
400	6 P	3211 6040	3221 6040	-	-
500	3 P	3211 3050	3221 3050	3261 3050	3271 3050
500	4 P	3211 4050	3221 4050	3261 4050	3271 4050
630	3 P	3211 3063	3221 3063	3261 3063	3271 3063
630	4 P	3211 4063	3221 4063	3261 4063	3271 4063
800	3 P	3211 3080	3221 3080	3261 3080	3271 3080
800	4 P	3211 4080	3221 4080	3261 4080	3271 4080
1250	3 P	3211 3120	3221 3120	3261 3120	3271 3120
1250	4 P	3211 4120	3221 4120	3261 4120	3271 4120
1600	3 P	3211 3160	3221 3160	3261 3160	3271 3160
1600	4 P	3211 4160	3221 4160	3261 4160	3271 4160

(1) For the mechanical indicator option, replace the second digit in the enclosure reference number with the letter V.
For example: 3V11 3005.

General characteristics

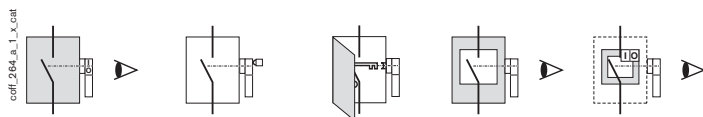
- Load break switch: *SIDER* with visible breaking.
- Handle: aluminium, natural colour.
- Protection degree: IP55.
- Colour: RAL 9001, roof and/or closing plates RAL 7032.
- Cable gland plate/s: "Top - Bottom" and "Bottom - Bottom" configuration.
- Raw material: galvanised steel, thickness 20 / 10 mm.
- Coating: polyester powder.
- Wall mounting: 4 fixing lugs supplied loose.
- Locking system: 8 mm male square (key supplied).
- Miscellaneous: "Bottom-Bottom" configuration, connection through busbar system (range > 80 A).

Rated operational currents I_b (A)

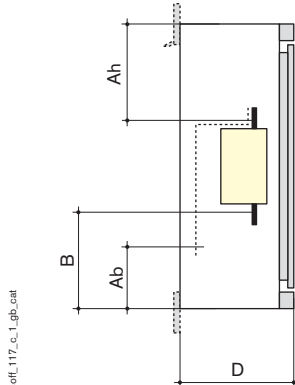
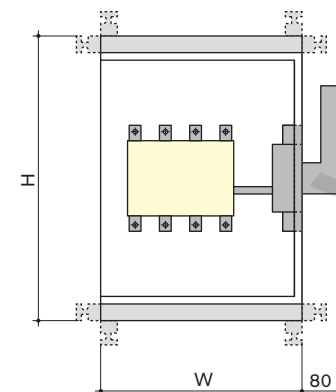
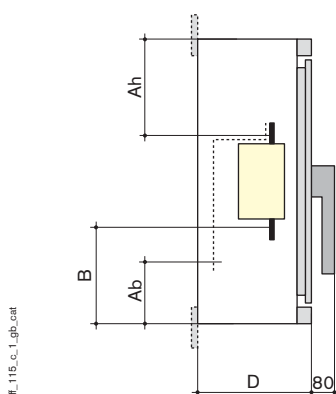
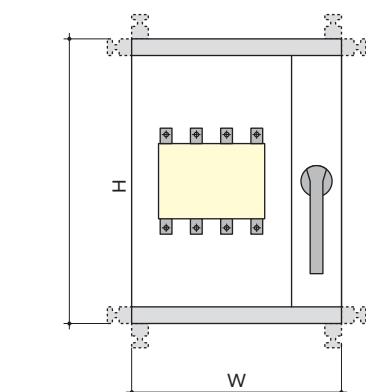
		50 A	80 A	125 A	200 A	400 A	500 A	630 A
Rated voltage	400 VAC	AC-21	50	80	125	200	400	500
		AC-22	50	63	125	200	400	500
		AC-23	50	63	125	200	400	500
690 VAC		AC-21	40	63	100	160	400	400
		AC-22	25	40	63	100	200	200
		AC-23	-	10	16	-	80	80

Operational power (kW)

400 VAC without pre-break	25	30	63	100	220	220	355
690 VAC without pre-break	-	7.5	11	-	75	75	90
400 VAC with pre-break	25	30	63	100	220	220	355
690 VAC with pre-break	22	33	55	90	185	185	295



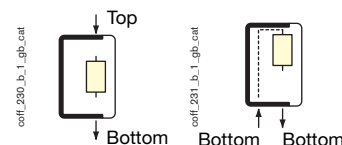
Steel enclosure



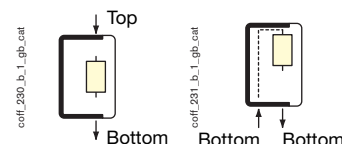
Dimensions - Front operation

Rating (A)	No. of poles	H x W x D (mm)	Max. cond. section (mm ²)	Weight (kg)					
				Ah	B	Ab	B	B	Weight (kg)
50	3/4 P	300 x 250 x 130	16	70	160	9	205	155	9
80	3/4 P	300 x 250 x 130	35	70	105	10	225	135	10
125	3/4 P	400 x 300 x 200	50	130	135	15	130	185	16
125	6 P	600 x 500 x 200	50	195	195	18	180	235	21
200	3 P	400 x 300 x 200	95	150	200	17	215	275	18
200	4 P	500 x 400 x 200	95	150	200	17	215	275	18
200	6 P	600 x 500 x 200	95	225	230	22	315	375	24
400	3/4 P	700 x 500 x 250	185	220	245	33	240	305	37
400	6 P	800 x 700 x 400	185	300	300	45	340	405	60
500	3/4 P	700 x 500 x 250	185	215	240	34	240	300	39
630	3/4 P	900 x 500 x 300	2 x 300	380	500	47	320	525	84
800	3/4 P	1200 x 600 x 400	2 x 300	380	500	52	320	525	85
1250	3 P	1200 x 600 x 400	4 x 185	375	495	70	-	-	90
1250	4 P	1200 x 700 x 400	4 x 185	375	495	74	-	-	94
1600	3 P	1200 x 600 x 400	4 x 300	360	480	80	-	-	92
1600	4 P	1200 x 700 x 400	4 x 300	360	480	85	-	-	96

Connection



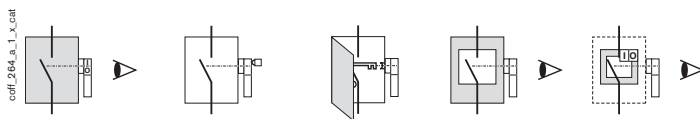
Connection



Dimensions - Side operation

Rating (A)	No. of poles	H x W x D (mm)	Max. cond. section (mm ²)	Weight (kg)					
				Ah	B	Ab	B	B	Weight (kg)
50	3/4 P	300 x 200 x 150	16	120	130	9	210	160	9
50	6 P	300 x 400 x 200	16	120	130	10	210	160	10
80	3/4 P	300 x 200 x 150	35	100	110	8	230	140	9
80	6 P	300 x 400 x 200	35	100	110	10	230	140	10
125	3/4 P	400 x 300 x 200	50	155	130	16	190	225	17
125	6 P	500 x 400 x 200	50	190	190	17	240	275	21
200	3 P	400 x 300 x 200	95	-	-	-	180	220	21
200	3 P	500 x 300 x 200	95	185	185	18	-	-	-
200	4 P	500 x 400 x 200	95	185	185	21	250	295	22
200	6 P	600 x 500 x 200	95	235	235	25	300	345	27
400	3/4 P	700 x 400 x 250	185	270	230	30	345	405	35
500	3/4 P	700 x 400 x 250	185	265	225	32	340	400	39
630	3/4 P	900 x 500 x 300	2 x 300	320	320	47	455	540	55
800	3/4 P	900 x 500 x 300	2 x 300	310	310	55	445	530	85
1250	3 P	1200 x 600 x 400	4 x 185	465	465	70	670	770	90
1250	4 P	1200 x 700 x 400	4 x 185	465	465	74	670	770	100
1600	3 P	1200 x 600 x 400	4 x 300	445	445	75	650	790	100
1600	4 P	1200 x 700 x 400	4 x 300	445	445	76	650	790	110

Safety enclosures



Polyester enclosure

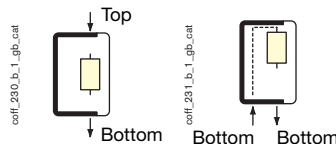


conf_219_a_2_cat

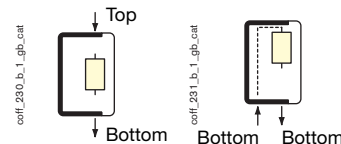


conf_183_a_3_cat

Connection



Connection



SIDER with front operation

SIDER with side operation

References⁽¹⁾

Rating (A)	No. of poles	References	References	References	References
50	3 P	-	-	3265 3005	3265 3005
50	4 P	-	-	3265 4005	3265 4005
50	6 P	-	-	3265 6005	3265 6005
80	3 P	-	-	3265 3008	3265 3008
80	4 P	-	-	3265 4008	3265 4008
80	6 P	-	-	3265 6008	3265 6008
125	3 P	3215 3012	3225 3012	3265 3012	3275 3012
125	4 P	3215 4012	3225 4012	3265 4012	3275 4012
125	6 P	3215 6012	3225 6012	3265 6012	3275 6012
200	3 P	3215 3020	3225 3020	3265 3020	3275 3020
200	4 P	3215 4020	3225 4020	3265 4020	3275 4020
200	6 P	3215 6020	3225 6020	3265 6020	3275 6020
400	3 P	3215 3040	3225 3040	3265 3040	3275 3040
400	4 P	3215 4040	3225 4040	3265 4040	3275 4040
400	6 P	3215 6040	3225 6040	-	-
500	3 P	3215 3050	3225 3050	3265 3050	3275 3050
500	4 P	3215 4050	3225 4050	3265 4050	3275 4050
630	3 P	3215 3063	3225 3063	3265 3063	3275 3063
630	4 P	3215 4063	3225 4063	3265 4063	3275 4063
800	3 P	3215 3080	3225 3080	3265 3080	3275 3080
800	4 P	3215 4080	3225 4080	3265 4080	3275 4080
1250	3 P	3215 3120	3225 3120	3265 3120	3275 3120
1250	4 P	3215 4120	3225 4120	3265 4120	3275 4120
1600	3 P	3215 3160	3225 3160	3265 3160	3275 3160
1600	4 P	3215 4160	3225 4160	3265 4160	3275 4160

(1) For the mechanical indicator option, replace the second digit in the enclosure reference number with the letter V.
For example: 3V15 3012.

General characteristics

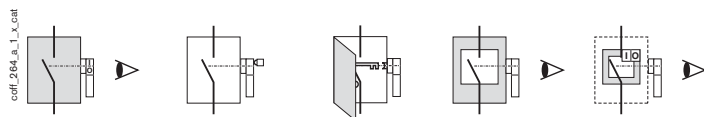
- Load break switch: SIDER with visible breaking.
- Handle: red plastic.
- Protection degree: IP55.
- Colour: RAL 7030 (range ≤ 400 A), RAL 9002 (range > 400 A).
- Cable gland plate: none.
- Raw material: glass fibre reinforced polyester.
- Coating: none.
- Wall mounting: 4 fixing lugs supplied loose.
- Locking system: screws (range ≤ 400 A), 3 mm double bar (key supplied).
- Miscellaneous: "Bottom-Bottom" configuration, connection through busbar system (range > 80 A).

Rated operational currents I_b (A) 50 A 80 A 125 A 200 A 400 A 500 A 630 A

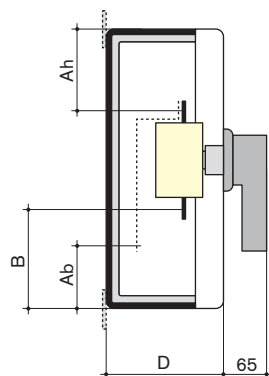
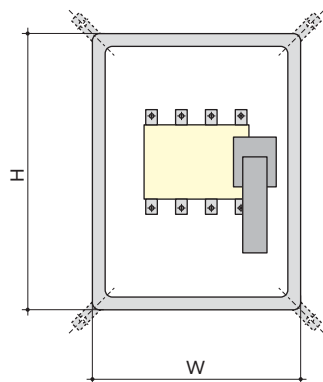
Rated voltage	Load duty category							
		50 A	80 A	125 A	200 A	400 A	500 A	630 A
400 VAC	AC-21	50	80	125	200	400	500	630
	AC-22	50	63	125	200	400	500	630
	AC-23	50	63	125	200	400	500	630
690 VAC	AC-21	40	63	100	160	400	400	630
	AC-22	25	40	63	100	200	200	315
	AC-23	-	10	16	-	80	80	100

Operational power (kW)

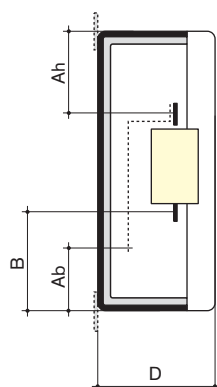
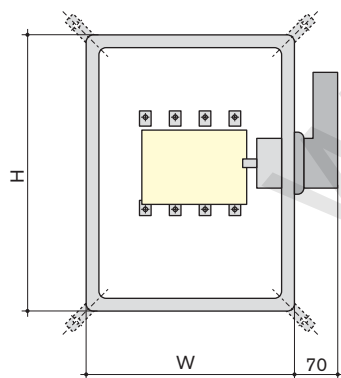
400 VAC without pre-break	25	30	63	100	220	220	355
690 VAC without pre-break	-	7.5	11	-	75	75	90
400 VAC with pre-break	25	30	63	100	220	220	355
690 VAC with pre-break	22	33	55	90	185	185	295



Coffrets polyester



conf_118_c_1_gb_cat

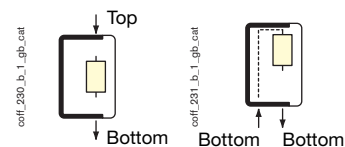


conf_119_c_1_gb_cat

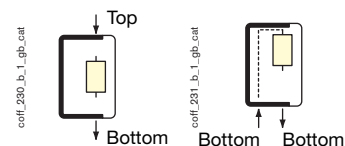
Dimensions - Front operation

Rating (A)	No. of poles	H x W x D (mm)	Max. cond. section (mm ²)	Weight (kg)					
				Ah	B	Ab	B	B	Weight (kg)
125	3/4 P	360 x 270 x 171	50	135	110	6	-	-	-
125	3/4 P	360 x 270 x 201	50	-	-	-	167	205	6
125	6 P	360 x 540 x 171	50	135	110	8	167	205	9
200	3 P	360 x 270 x 201	95	-	-	-	145	190	8
200	3 P	540 x 270 x 201	95	260	150	7	-	-	-
200	4 P	360 x 360 x 201	95	-	-	-	145	190	8
200	4 P	540 x 360 x 201	95	257	153	9	-	-	-
200	6 P	360 x 540 x 201	95	257	153	13	145	190	15
400	3/4 P	720 x 540 x 214	185	258	257	19	330	395	24
500	3/4 P	720 x 540 x 214	185	258	257	20	330	390	26
630	3/4 P	800 x 600 x 300	2 x 300	270	270	26	330	400	36
800	3/4 P	800 x 600 x 300	2 x 300	266	267	27	330	394	40
1250	3/4 P	1000 x 750 x 300	4 x 185	365	365	42	515	594	60
1600	3/4 P	1000 x 750 x 300	4 x 300	360	360	47	500	580	65

Connection



Connection

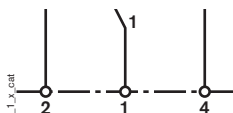
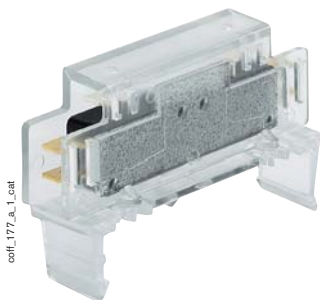
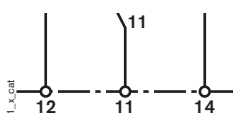


Dimensions - Side operation

Rating (A)	No. of poles	H x W x D (mm)	Max. cond. section (mm ²)	Weight (kg)					
				Ah	B	Ab	B	B	Weight (kg)
50	3/4 P	270 x 180 x 171	16	84	116	3	186	116	3
50	6 P	270 x 360 x 201	16	84	116	5	186	116	5
80	3/4 P	270 x 180 x 171	35	73	106	3	197	106	3
80	6 P	270 x 360 x 201	35	73	106	5	197	106	5
125	3/4 P	360 x 270 x 171	50	135	110	6	167	205	6
125	6 P	360 x 540 x 171	50	135	110	9	167	205	9
200	3 P	360 x 270 x 171	95	-	-	-	145	190	7
200	3 P	540 x 270 x 171	95	260	150	8	-	-	-
200	4 P	360 x 360 x 171	95	-	-	-	145	190	8
200	4 P	540 x 360 x 171	95	257	153	9	-	-	-
200	6 P	540 x 540 x 171	95	260	150	12	145	190	11
400	3/4 P	720 x 540 x 201	185	300	215	19	370	437	24
500	3/4 P	720 x 540 x 201	185	300	215	21	330	432	26
630	3/4 P	800 x 600 x 300	2 x 300	270	270	26	390	438	36
800	3/4 P	800 x 600 x 300	2 x 300	266	267	27	370	434	40
1250	3/4 P	1000 x 750 x 300	4 x 185	365	365	42	570	622	60
1600	3/4 P	1000 x 750 x 300	4 x 300	360	360	47	550	608	65

Accessories

Auxiliary contacts

1st pre-break NO/NC AC2nd pre-break NO/NC AC

Use

For pre-breaking or signalling of positions 0 and I of the breaking switch.

Mounting

- On the double locking system.
- Possibility of factory mounting on enclosure (give enclosure reference when ordering).

References

Front operation

Contact (s)	References
2 NO/NC changeover AC in steel or polyester enclosure	2999 0012
1 st NO/NC changeover AC in polyester enclosure ≥ 125 A	2799 0001
2 nd NO/NC changeover AC in polyester enclosure ≥ 125 A	2799 0002

Side operation

Contact (s)	Reference
2 NO/NC changeover AC in steel or polyester enclosure	2999 0012

Front operation (factory fitted)

Contact (s)	References
2 NO/NC changeover AC in steel or polyester enclosure	2999 1012 ⁽¹⁾
1 st NO/NC changeover AC in polyester enclosure ≥ 125 A	2799 1001 ⁽¹⁾
2 nd NO/NC changeover AC in polyester enclosure ≥ 125 A	2799 1002 ⁽¹⁾

Side operation (factory fitted)

Contact (s)	Reference
2 NO/NC changeover AC in steel or polyester enclosure	2999 1012 ⁽¹⁾

(1) Give the reference number of the enclosure to be equipped.

Pre-wired auxiliary contacts



Use

For pre-breaking and signalling of positions 0 and I of the breaking switch.

Mounting

- On the double locking system.
- Possibility of factory mounting on enclosure (give enclosure reference when ordering).

References

Side operation

Contact (s)	Reference
2 NO/NC changeover AC in steel or polyester enclosure	3290 6002

Side operation (factory fitted)

Contact (s)	Reference
2 NO/NC changeover AC in steel or polyester enclosure	3290 6102 ⁽¹⁾
2 low level NO/NC changeover AC in steel or polyester enclosure	3290 6012 ⁽¹⁾

(1) Give the reference number of the enclosure to be equipped.

Red handle



Use

For breaking or emergency stop.

References

Front operation (factory fitted)

Rating (A)	References
50 ... 80	3211 0080 ⁽¹⁾
125 ... 500	3211 0500 ⁽¹⁾
630 ... 1600	3211 1250 ⁽¹⁾

Side operation (factory fitted)

Rating (A)	References
50 ... 80	3261 0080 ⁽¹⁾
125 ... 500	3211 0500 ⁽¹⁾
630 ... 1600	3211 1250 ⁽¹⁾

(1) Give the reference number of the enclosure to be equipped.



Accessories

Locking



Use

Kit allowing the mounting of a RONIS EL11AP or Serv Trayvou XOP10 lock for right side operation of a SIDER 50 to 1600 A switch mounted in steel or polyester enclosure.

References

Padlockable in position 0

Lock type	References
EL11AP assembly kit supplied (lock not included)	3290 7005
XOP10 assembly kit supplied (lock not included)	3290 7015
RONIS EL11AP lock	4409 8511
Serv Trayvou XOP10 lock	4409 8601

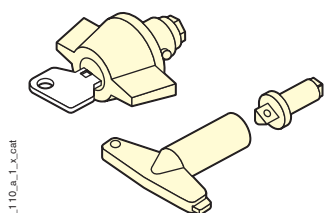
Padlockable in position 0 (factory fitted)

Lock type	Reference
Kit supplied (lock not included)	3290 7006 ⁽¹⁾⁽²⁾

(1) Give the reference number of the enclosure to be equipped.

(2) The key number is a random number can not be chosen by the customer. If you need a specific key number, please consult us.

Door closure



Use

- On steel safety enclosure: 8 mm square key.
- On polyester enclosure: with screw or double 3 mm bar.

Optional

- 6 to 8 mm square key,
- 6.5 - 7 - 8 mm triangular key.
- Key locking (no. to specify).

References

Please consult us.

Ventilation, evacuation device, cable glands



Use

- Water evacuation.
- Ventilation.
- Plastic and brass cable glands Ø 9 to 80 mm.

References

Please consult us.

Labelling



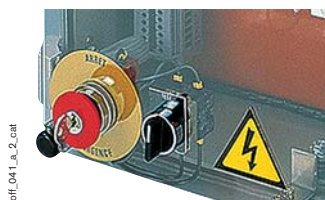
Use

- Engraved dilophane label, fixed by rivets.
- Colour: white, red, black.
- Sizes: 65 x 20, 100 x 40 or 80 x 30 mm.

References

Please consult us.

Remote control auxiliary



Use

- On / Off pushbuttons, emergency stop.
- Measuring device.
- Signalling indicators.

References

Please consult us.