COMO C

Manual changeover switches
from 25 to 100 A

COMO C
I-I+II-II 4P 63 A

COMO C
I-0-II 3P 25 A

The solution for

> Industry (machine control).

Strong points

> High number of operations.
> Flexibility.
> Pre-installed bridging bars.
> Compact Design.

Conformity to standards

> IEC 60947-3

> UL 508

Function

COMO C are manual multipolar changeover switches with positive break indication. They provide changeover, source inversion or switching under load between two low voltage power circuits, as well as their safety isolation.

Advantages

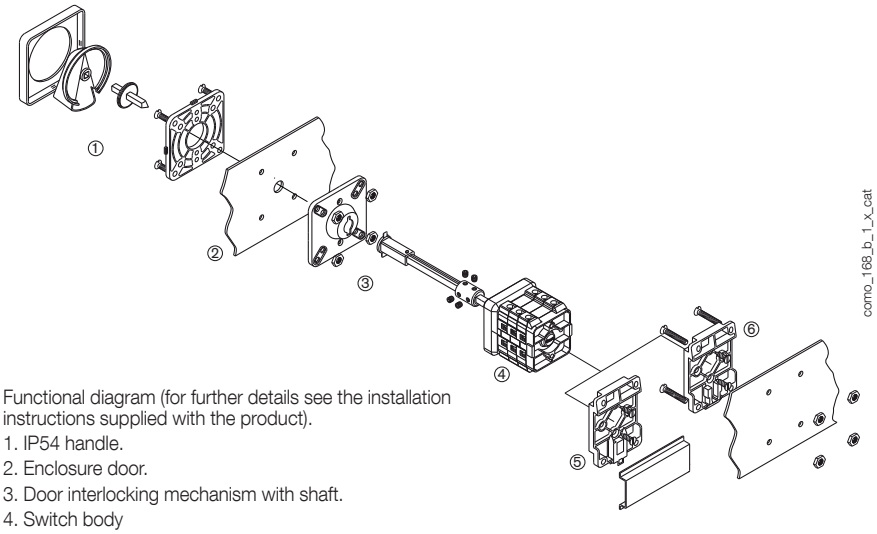
High number of operations
COMO C can perform up to 100000 operation cycles.

Bridging bars
Bridging bars are supplied factory fitted as standard.

Flexibility
Four types of changeover switches are available as standard (I-II, I-0-II, I-I+II-II & Bypass I-0-II). Other switching options are available on request.

Compact design
With its small frame size, the COMO C can be installed where limited space is available.

Configurations



Functional diagram (for further details see the installation instructions supplied with the product).
1. IP54 handle.
2. Enclosure door.
3. Door interlocking mechanism with shaft.
4. Switch body
5. DIN rail mounting device.
6. Back plate mounting device.

References

Rating (A)	No. of poles	Switching type	Switch body	IP54 padlockable handle	IP54 non-padlockable white handle	Shaft and escutcheon for external handle	Back plate mounting device	IP65 gasket
25 A	3 P	I - II	4220 **3002**(1)	Black/Grey 4259 **1042** Red/Yellow 4259 **1043**	I - II 4259 **2022** I - 0 - II and Bypass 4259 **3022** I - I+II - II 4259 **4022**	200 mm 4259 **5042**	DIN rail mounted 4259 **9001** Base-mounted 4259 **9040**	4299 **5001**(2)
	4 P	I - II	4220 **4002**(1)					
	3 P	I - 0 - II	4230 **3002**(1)(3)					
	4 P	I - 0 - II	4230 **4002**(1)(3)					
	3 P	I - I+II - II	4240 **3002**(1)					
	4 P	I - I+II - II	4240 **4002**(1)					
	3 + 6 P	Bypass I - 0 - II	4250 **3002**					
	4 + 8 P	Bypass I - 0 - II	4250 **4002**					
40 A	3 P	I - II	4220 **3004**(1)		I - II 4259 **2042** I - 0 - II and Bypass 4259 **3042** I - I+II - II 4259 **4042**			
	4 P	I - II	4220 **4004**(1)					
	3 P	I - 0 - II	4230 **3004**(1)(3)					
	4 P	I - 0 - II	4230 **4004**(1)(3)					
	3 P	I - I+II - II	4240 **3004**(1)					
	4 P	I - I+II - II	4240 **4004**(1)					
	3 + 6 P	Bypass I - 0 - II	4250 **3004**					
	4 + 8 P	Bypass I - 0 - II	4250 **4004**					
63 A	3 P	I - II	4220 **3006**(1)	Black/Grey 4259 **1082** Red/Yellow 4259 **1083**	I - II 4259 **2082** I - 0 - II and Bypass 4259 **3082** I - I+II - II 4259 **4082**	200 mm 4259 **5082**	DIN rail mounted 4259 **9001** Base-mounted 4259 **9080**	4299 **5002**(2)
	4 P	I - II	4220 **4006**(1)					
	3 P	I - 0 - II	4230 **3006**(1)(3)					
	4 P	I - 0 - II	4230 **4006**(1)(3)					
	3 P	I - I+II - II	4240 **3006**(1)					
	4 P	I - I+II - II	4240 **4006**(1)					
	3 + 6 P	Bypass I - 0 - II	4250 **3006**					
	4 + 8 P	Bypass I - 0 - II	4250 **4006**					
80 A	3 P	I - II	4220 **3008**(1)					
	4 P	I - II	4220 **4008**(1)					
	3 P	I - 0 - II	4230 **3008**(1)(3)					
	4 P	I - 0 - II	4230 **4008**(1)(3)					
	3 P	I - I+II - II	4240 **3008**(1)					
	4 P	I - I+II - II	4240 **4008**(1)					
	3 + 6 P	Bypass I - 0 - II	4250 **3008**					
	4 + 8 P	Bypass I - 0 - II	4250 **4008**					
100 A	3 P	I - II	4220 **3010**					
	4 P	I - II	4220 **4010**					
	3 P	I - 0 - II	4230 **3010**					
	4 P	I - 0 - II	4230 **4010**					
	3 P	I - I+II - II	4240 **3010**					
	4 P	I - I+II - II	4240 **4010**					
	3 + 6 P	Bypass I - 0 - II	4250 **3010**					
	4 + 8 P	Bypass I - 0 - II	4250 **4010**					

(1) Available enclosed (see page 624).
(2) IP65: protection degree according to IEC 60529 standard.
(3) References available with 1 or 2 A/C, please consult us.

Accessories

IP54 handle

Padlockable handle

Rating (A)	Handle colour	Reference
25 … 40	Black/Grey	4259 **1042**
25 … 40	Red/Yellow	4259 **1043**
63 … 100	Black/Grey	4259 **1082**
63 … 100	Red/Yellow	4259 **1083**

Non-padlockable handle

Rating (A)	Switching type	Reference
25	I - II	4259 **2022**
25	I - 0 - II and Bypass	4259 **3022**
25	I - I+II - II	4259 **4022**
40	I - II	4259 **2042**
40	I - 0 - II and Bypass	4259 **3042**
40	I - I+II - II	4259 **4042**
63 … 100	I - II	4259 **2082**
63 … 100	I - 0 - II and Bypass	4259 **3082**
63 … 100	I - I+II - II	4259 **4082**

Shaft and escutcheon for external handle

Use

Standard length: 200 mm.

Other lengths: Please consult us.

Rating (A)	Length (mm)	Reference
25 … 40	200 mm	4259 **5042**
63 … 100	200 mm	4259 **5082**

Characteristics according to IEC 60947-3

25 to 100 A

Thermal current I_{th} (40 °C)		25 A	40 A	63 A	80 A	100 A
Rated insulation voltage U_i (V)		660	660	660	660	660
Rated impulse withstand voltage U_{imp} (kV)		4	4	4	4	4
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]**
400 VAC	AC-21 A	25/25	40/40	63/63	80/80	100/100
400 VAC	AC-22 A	25/25	40/40	63/63	80/80	100/100
400 VAC	AC-23 A	20/20	32/32	63/63	63/63	63/63
Operational power in AC-23 (kW)						
At 400 VAC without pre-break[1][2]		9/9	15/15	22/22	30/30	30/30
Reactive power (kvar)						
At 400 VAC [2]		14	18	28	37	
Fuse protected short-circuit withstand (kA rms prospective)						
Prospective short-circuit (kA rms)[3]		6	6	8	8	8
Associated fuse rating (A)[3]		25	40	63	80	100
Short-circuit capacity						
Closing capacity on short-circuit (kA peak) [3]		2	2.6	5.8	5.8	6.5
Connection						
Minimum Cu cable cross-section (mm^2)		2.5	10	16	16	16
Maximum Cu cable cross-section (mm^2)		6	16	50	50	50
Tightening torque min (Nm)		2	2	3.5	3.5	3.5
Mechanical characteristics						
Durability (number of operating cycles)		100 000	100 000	100 000	100 000	100 000
Weight of 3 P switch (kg)		0.25	0.3	0.55	0.63	0.63
Weight of 4 P switch (kg)		0.31	0.4	0.7	0.8	0.8

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

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

(3) For a rated operational voltage U_e = 400 VAC.

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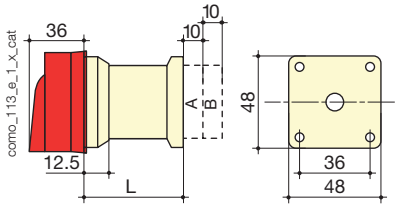
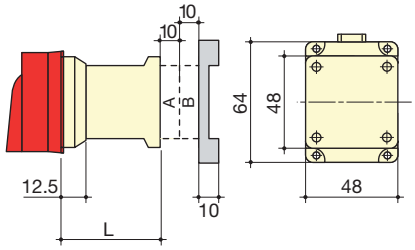
Dimensions

COMO C 25 A

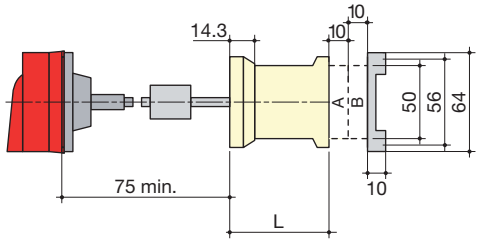
Direct operation front mounting



Direct operation rear mounting



Door interlocked external operation

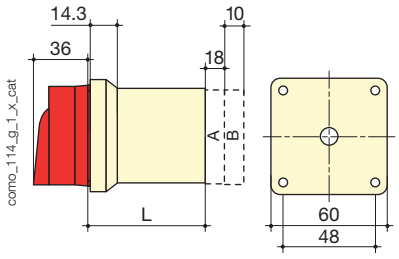


A. 1st auxiliary contact
B. 2nd auxiliary contact

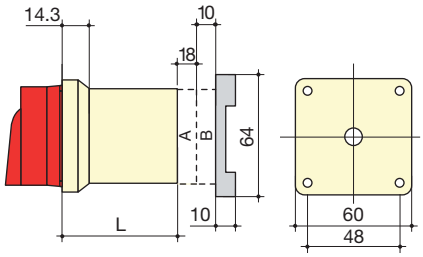
Switching type	L 3p.	L 4p.
I - II	50.5	60.5
I - 0 - II	50.5	60.5
I - I+II - II	50.5	60.5
Bypass I - 0 - II	70.5	80.5

COMO C 40 A

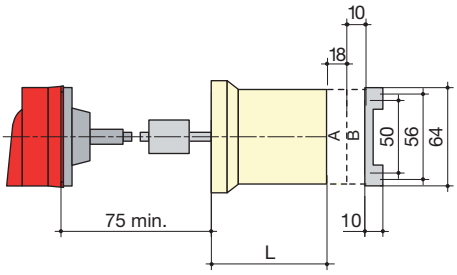
Direct operation front mounting



Direct operation rear mounting



Door interlocked external operation

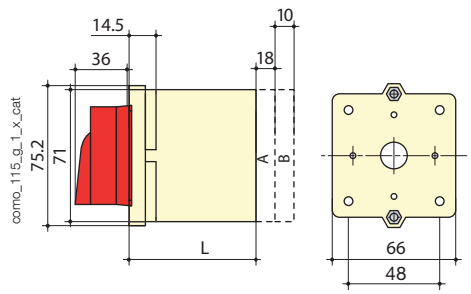


A. 1st auxiliary contact
B. 2nd auxiliary contact

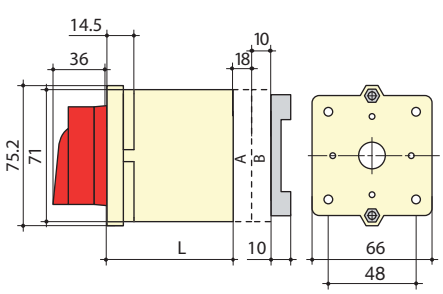
Switching type	L 3p.	L 4p.
I - II	60.3	72.3
I - 0 - II	60.3	72.3
I - I+II - II	60.3	72.3
Bypass I - 0 - II	84.3	96.3

COMO C 63 to 100 A

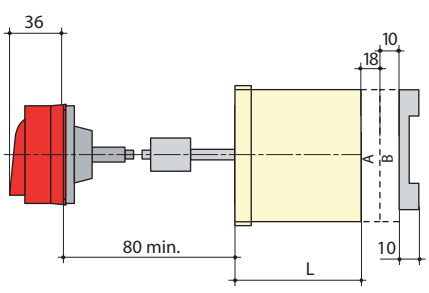
Direct operation front mounting



Direct operation rear mounting



Door interlocked external operation



A. 1st auxiliary contact
B. 2nd auxiliary contact

Switching type	L 3p.	L 4p.
I - II	82	99.5
I - 0 - II	82	99.5
I - I+II - II	82	99.5
Bypass I - 0 - II	117	134.5