

COMO CS

Manual cam transfer switches
from 25 to 100 A



COMO CS - Door mounting
I-II 3 P 25 A



COMO CS in enclosure
I-O-II 3 P 40 A

The solution for

- > Industry
(machine control)



Strong points

- > Quick mounting
- > Simple installation
- > Effective in all circumstances

Conformity to standards

- > IEC 60947-3



- > UL 60947-4-1



Function

COMO CS are manually operated multi-pole transfer switches. They ensure manual switching, transfer switching or on-load permutation of two low voltage circuits as well as their safe disconnection.

Advantages

Quick mounting

The "quick fix" allows significant time saving in fixing the handle to the device. The devices sold in enclosed version are ready for installation.

Simple installation

The accessories offered are common to all the products in the range. The products are designed for installation:

- on the rear of the cabinet on a backplate,
- on the rear of the cabinet on a DIN rail,
- on the door with a direct handle.

Effective in all circumstances

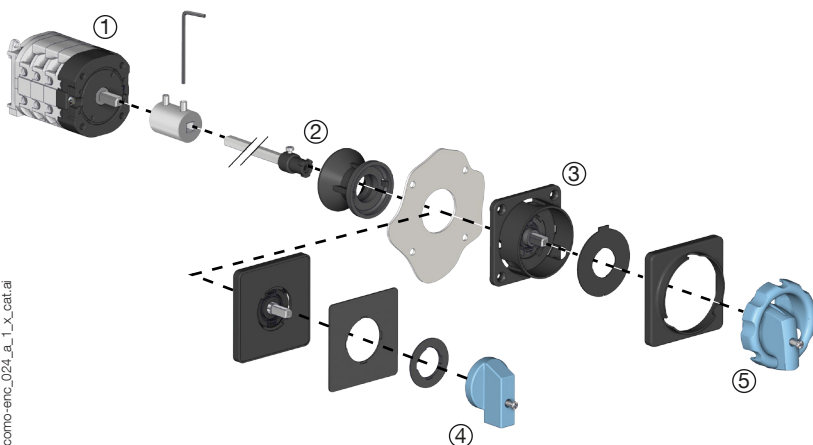
The devices are available with 3 standard switching types that can cover a wide variety of applications:

- I-II
- I-O-II
- I-O-II with bypass

Please consult us for adaptations to specific wiring diagrams.

Configurations

Backplate switch mounted with external handle



Functional diagram (for further details see the installation instructions supplied with the product).

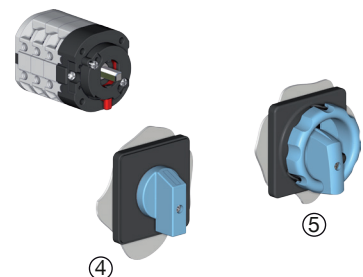
1. Shaft extension

2. Shaft guide

3. Signalling plate

4. Non padlockable handle

Direct quick-fixing handle for door or backplate mounted switch



5. Padlockable handle

References

COMO CS

Backplate mounting with direct quick-fixing handles or external handles

Rating (A)	No. of poles	Switch operation	Switch body rear mounting ⁽¹⁾	Padlockable direct quick-fixing handle	Non-padlockable direct quick-fixing handle	Padlockable external handle ⁽²⁾	Non-padlockable external handle ⁽²⁾
25 A	3 P	I - II	4320 3002	Blue/Black 4359 3042 Red/Yellow 4359 3043	Blue/Black 4359 3022	Blue/Black 4359 1042 Red/Yellow 4359 1043	Blue/Black 4359 2022
	4 P	I - II	4320 4002				
	3 P	I - O - II	4330 3002				
	4 P	I - O - II	4330 4002				
	3 P	Bypass I - O - II	4350 3002				
	4 P	Bypass I - O - II	4350 4002				
40 A	3 P	I - II	4320 3004				
	4 P	I - II	4320 4004				
	3 P	I - O - II	4330 3004				
	4 P	I - O - II	4330 4004				
	3 P	Bypass I - O - II	4350 3004				
	4 P	Bypass I - O - II	4350 4004				
63 A	3 P	I - II	4320 3006				
	4 P	I - II	4320 4006				
	3 P	I - O - II	4330 3006				
	4 P	I - O - II	4330 4006				
	3 P	Bypass I - O - II	4350 3006				
	4 P	Bypass I - O - II	4350 4006				
100 A	3 P	I - II	4320 3010				
	4 P	I - II	4320 4010				
	3 P	I - O - II	4330 3010				
	4 P	I - O - II	4330 4010				
	3 P	Bypass I - O - II	4350 3010				
	4 P	Bypass I - O - II	4350 4010				

(1) Mounting on DIN rail and backplate from 25 to 40 A and mounting on backplate for ratings from 63 to 100 A.

(2) Supplied with shaft and escutcheon plate for external front operation.

Door mounting with direct quick-fixing handles

Rating (A)	No. of poles	Switch operation	Switch body mounting on door	Padlockable direct quick-fixing handle	Non-padlockable direct quick-fixing handle
25 A	3 P	I - II	4320 3102	Blue/Black 4359 3042 Red/Yellow 4359 3043	Blue/Black 4359 3022
	4 P	I - II	4320 4102		
	3 P	I - O - II	4330 3102		
	4 P	I - O - II	4330 4102		
	3 P	Bypass I - O - II	4350 3102		
	4 P	Bypass I - O - II	4350 4102		
40 A	3 P	I - II	4320 3104		
	4 P	I - II	4320 4104		
	3 P	I - O - II	4330 3104		
	4 P	I - O - II	4330 4104		
	3 P	Bypass I - O - II	4350 3104		
	4 P	Bypass I - O - II	4350 4104		
63 A	3 P	I - II	4320 3106		
	4 P	I - II	4320 4106		
	3 P	I - O - II	4330 3106		
	4 P	I - O - II	4330 4106		
	3 P	Bypass I - O - II	4350 3106		
	4 P	Bypass I - O - II	4350 4106		
100 A	3 P	I - II	4320 3110		
	4 P	I - II	4320 4110		
	3 P	I - O - II	4330 3110		
	4 P	I - O - II	4330 4110		
	3 P	Bypass I - O - II	4350 3110		
	4 P	Bypass I - O - II	4350 4110		

Other solutions with enclosures

General characteristics



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- Available for switching types I-II and I-0-II
- Different enclosure sizes adapted to your needs.
 - Maximum safety during maintenance operations thanks to triple padlocking of the handle in position 0 (position I for switching type I-II).
 - IP65 / NEMA 4, 4X: When installed in an industrial environment, Ingress Protection rating IP65 and NEMA 4, 4X ensures that the products are protected against dust and water jets.
 - Red-yellow operating handle.

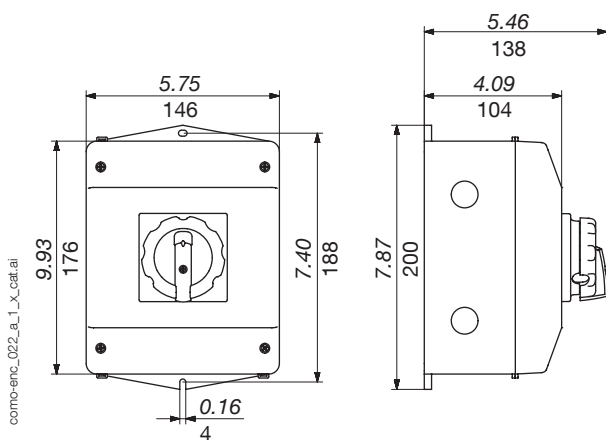
References

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

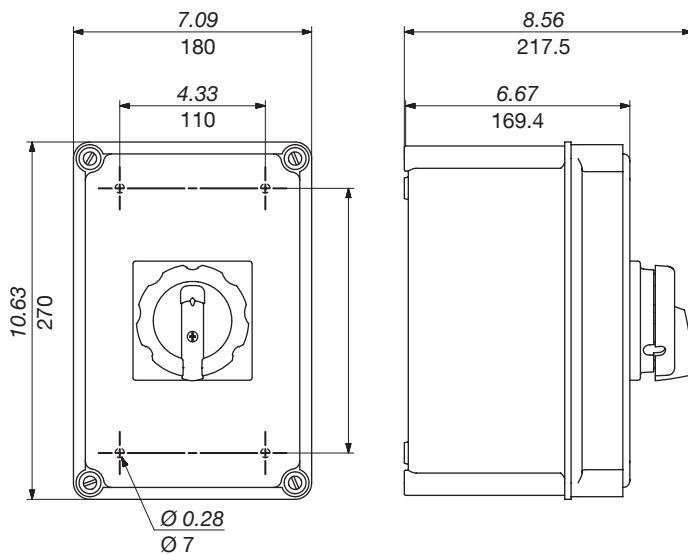
* For an ambient temperature of 35 °C

Dimensions (in/mm)

25 to 40 A



63 to 100 A



Characteristics according to IEC 60947-3

25 to 100 A

Thermal current I_{th} at 40 °C (A)	25 A	40 A	63 A	100 A
Thermal current I_{th} at 50 °C (A)	25	34	63	100
Thermal current I_{th} at 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 current I_o (A) according to IEC 60947-3				
Utilisation category at 400 VAC (A)				
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 (A)				
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 aux. contact in AC-23	7.5	15	37	37
At 690 VAC without pre-break aux. contact in AC-23	4.8	15	/	/
Rated conditional short-circuit current with gG DIN fuse				
Prospective short-circuit current (kA rms)	7	10	5	5
Associated fuse rating (A)	25	40	63	100
Rated operational voltage (VAC)	690	690	690	690
Connection				
Minimum Cu cable cross-section (mm ²)	0.5	1	1.5	4
Maximum CY 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.

Characteristics according to UL 60947-4-1

25 to 100 A

General use rating (A)	25 A	40 A	63 A	100 A
UL certification file	88EJ		5LM6	
Short circuit rating at 600 VAC (kA)	10	5	/	
Type of fuse	RK5		/	
Max. fuse rating (A)	150		/	
Max. operational power (HP)				
120 VAC / 1 phase	-	2	/	
120 VAC / 3 phase	-	5	/	
240 VAC / 1 phase	-	3	/	
240 VAC / 3 phase	-	10	/	
480 VAC / 3 phase	-	20	/	
600 VAC / 3 phase	5.2	20	/	
Connection terminals				
Min./max. connection cross-section (AWG)	#14-#12	#14-#8	#14-#4	#10-#2
Wire stripping distance (in/mm)	8	10	13	13
Mechanical characteristics				
Durability (number of operating cycles)	100,000	100,000	100,000	100,000
Tightening torque (lb.in / Nm)	1	1.5	2.5	1.5
Weight of a 3-pole device (lb)	0.24	0.4	1	1
Weight of a 4-pole device (lb)	0.28	0.49	1.18	1.18

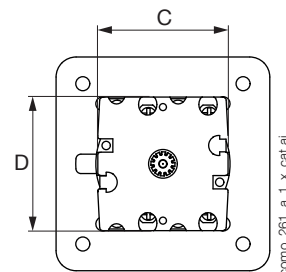
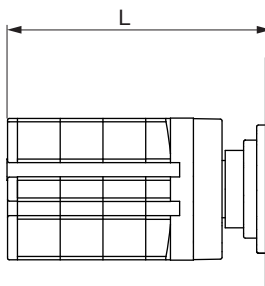
Dimensions (in/mm)

25 to 100 A

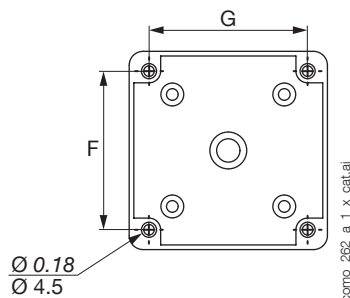
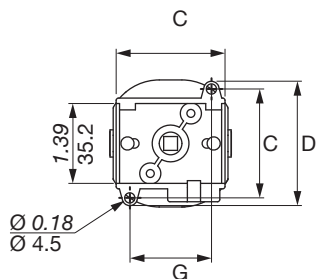
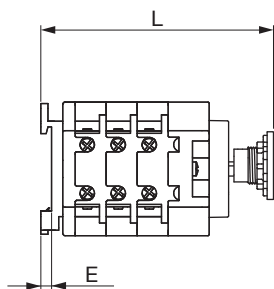
Mounting on door - Fixing with direct handle

Door width		
Unit	Minimum	Maximum
in	0.04	0.16
mm	1	4

Rating (A)	Unit	I-II / I-0-II		L		Bypass I-0-II		C	D
		3 P	4 P	3 P	4 P	3 P	4 P		
25	in	3.19	3.66	4.13	4.61	1.54	1.57		
	mm	81	93	105	117	39	40		
40	in	3.31	4.82	4.33	4.84	2.11	2.2		
	mm	84	97	110	123	53.6	56		
63 ... 100	in	4.45	5.28	6.1	6.93	2.91	2.8		
	mm	113	134	155	176	74	71		



Mounting on backplate / DIN rail - Rear fixing of direct handle



Rating (A)	Unit	I-II / I-0-II		L		E	C	D	F	G
		3 P	4 P	3 P	4 P					
25	in	3.20	3.68	4.15	4.57	0.18	1.89	2.2	1.65	1.42
	mm	81.4	93.4	105.4	116.1	4.5	48	56	47	36
40	in	3.73	4.28	4.28	5.08	0.18	1.89	2.2	1.65	1.42
	mm	94.7	107.7	120.7	129	4.5	48	56	47	36
63 ... 100	in	5.10	5.97	6.83	7.54	-	2.99	2.99	2.68	2.68
	mm	129.5	151.5	173.5	191.5	-	76	76	68	68

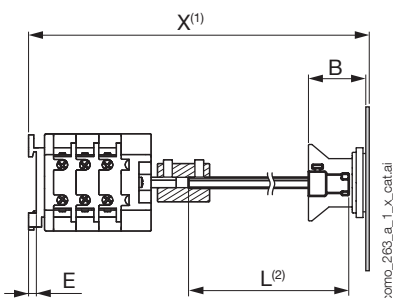
Mounting on backplate / DIN rail - Rear fixing of external handle

		X-L ⁽³⁾				E	B
		I-II /I-0-II		Bypass I-0-II			
Rating (A)	Unit	3 P	4 P	3 P	4 P		
25	in	3.15	3.63	4.10	4.57	0.18	1.24
	mm	80.1	92.1	104.1	116.1	4.5	31.6
40	in	3.54	4.06	4.57	5.08	0.18	1.24
	mm	90	103	116	129	4.5	31.6
63...100	in	5.06	5.89	6.71	7.54	-	1.24
	mm	128.5	149.5	170.5	191.5	-	31.6

(1) X is the distance between the inside of the door and the fixing plate

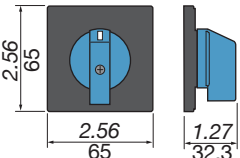
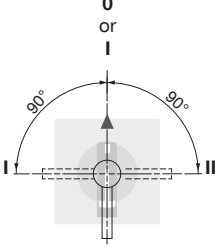
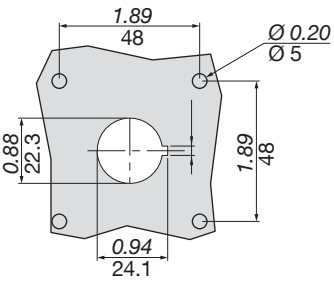
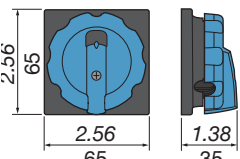
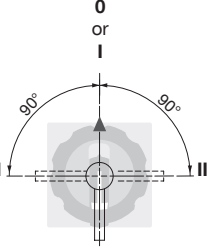
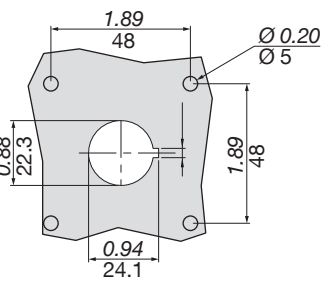
(2) L is the total length of the shaft (max 200 mm)

(3) Minimum distance between the inside of the door and the fixing plate



Dimensions for external handles

25 to 100 A

Handle type	Front operation Direction of operation	Door drilling
K1 type non padlockable 		 polgn_075_a_1_gb_cat.ai
K1 type padlockable 		 polgn_076_a_1_gb_cat.ai