

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-0-II 3 P 40 A

The solution for

> Industry
(machine control)



Strong points

> Simple installation
> Quick mounting
> Effective in all circumstances

Compliance with standards

> IEC 60947-3

> UL 60947-4-1

88EJ &5LM6

** cULus under certification.*

Function

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

Advantages

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

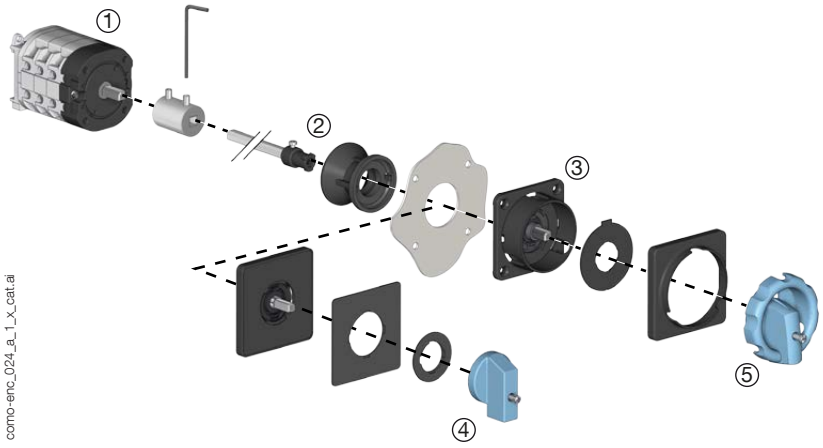
Quick mounting
The accessories offered are common to all the products in the range. The products are designed for installation:
- on the rear of the cabinet on a backplate,
- on the rear of the cabinet on a DIN rail,
- on the door with a direct handle.

Effective in all circumstances
The devices are available with 3 standard switching types that can cover a wide variety of applications:
- I-II
- I-0-II
- I-0-II with bypass

Please consult us for adaptations to specific wiring diagrams.

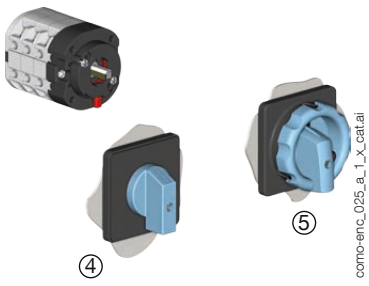
Configurations

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 quickfixing handle for door or backplate mounted switch



5. Padlockable handle

References

COMO CS

Backplate mounting with direct quickfixing handles or external handles

Rating (A)	N° of poles	Switching type	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 - 0 - II	4330 **3002**				
	4 P	I - 0 - II	4330 **4002**				
	3 P	Bypass I - 0 - II	4350 **3002**				
	4 P	Bypass I - 0 - II	4350 **4002**				
40 A	3 P	I - II	4320 **3004**				
	4 P	I - II	4320 **4004**				
	3 P	I - 0 - II	4330 **3004**				
	4 P	I - 0 - II	4330 **4004**				
	3 P	Bypass I - 0 - II	4350 **3004**				
	4 P	Bypass I - 0 - II	4350 **4004**				
63 A	3 P	I - II	4320 **3006**				
	4 P	I - II	4320 **4006**				
	3 P	I - 0 - II	4330 **3006**				
	4 P	I - 0 - II	4330 **4006**				
	3 P	Bypass I - 0 - II	4350 **3006**				
	4 P	Bypass I - 0 - II	4350 **4006**				
100 A	3 P	I - II	4320 **3010**				
	4 P	I - II	4320 **4010**				
	3 P	I - 0 - II	4330 **3010**				
	4 P	I - 0 - II	4330 **4010**				
	3 P	Bypass I - 0 - II	4350 **3010**				
	4 P	Bypass I - 0 - 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) Delivered with shaft and plate for front external control.

Door mounting with direct quickfixing handles

Rating (A)	N° of poles	Switching type	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 - 0 - II	4330 **3102**		
	4 P	I - 0 - II	4330 **4102**		
	3 P	Bypass I - 0 - II	4350 **3102**		
	4 P	Bypass I - 0 - II	4350 **4102**		
40 A	3 P	I - II	4320 **3104**		
	4 P	I - II	4320 **4104**		
	3 P	I - 0 - II	4330 **3104**		
	4 P	I - 0 - II	4330 **4104**		
	3 P	Bypass I - 0 - II	4350 **3104**		
	4 P	Bypass I - 0 - II	4350 **4104**		
63 A	3 P	I - II	4320 **3106**		
	4 P	I - II	4320 **4106**		
	3 P	I - 0 - II	4330 **3106**		
	4 P	I - 0 - II	4330 **4106**		
	3 P	Bypass I - 0 - II	4350 **3106**		
	4 P	Bypass I - 0 - II	4350 **4106**		
100 A	3 P	I - II	4320 **3110**		
	4 P	I - II	4320 **4110**		
	3 P	I - 0 - II	4330 **3110**		
	4 P	I - 0 - II	4330 **4110**		
	3 P	Bypass I - 0 - II	4350 **3110**		
	4 P	Bypass I - 0 - 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 due to triple padlocking of the handle in position 0 (position I for switching type I-II).
- IP 65 / NEMA 4, 4X : When installed in an industrial environment, protection degree IP 65 and NEMA 4 , 4X ensures that the products are protected against dust and water jets.
- Red-yellow operating handle.

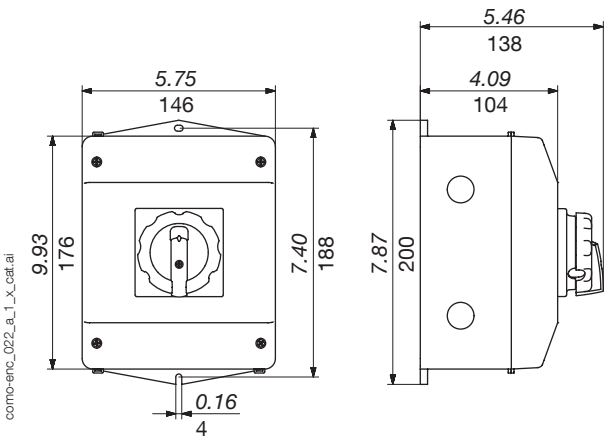
References

Rating (A)	No. of poles	Switching type	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**

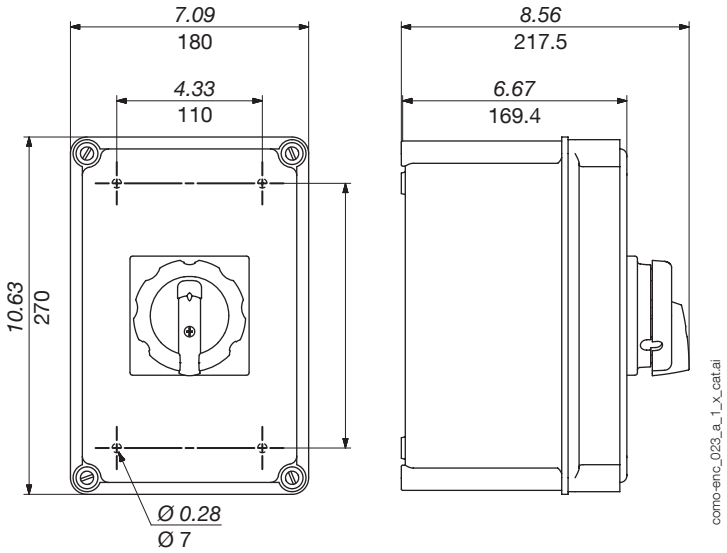
** For an ambient temperature of 35 °C*

Dimensions (in/mm)

25 to 40 A



63 to 100 A



Characteristics according to IEC 60947-3

25 to 100 A

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.

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 horsepower rating (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				
Solid wire (AWG)	#14-#12	#14-#8	#14-#4	#10-#2
Wire stripping distance (in/mm)	0.31 / 8	0.39 / 10	0.51 / 13	0.51 / 13
Mechanical characteristics				
Durability (number of operating cycles)	100000	100000	100000	100000
Tightening torque (Lb.in / N.m)	8.8 / 1	13.3 / 1.5	22,1 / 2.5	13.3 / 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

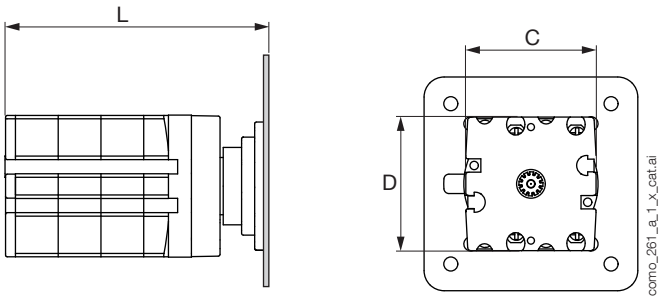
Dimensions (in/mm)

25 to 100A

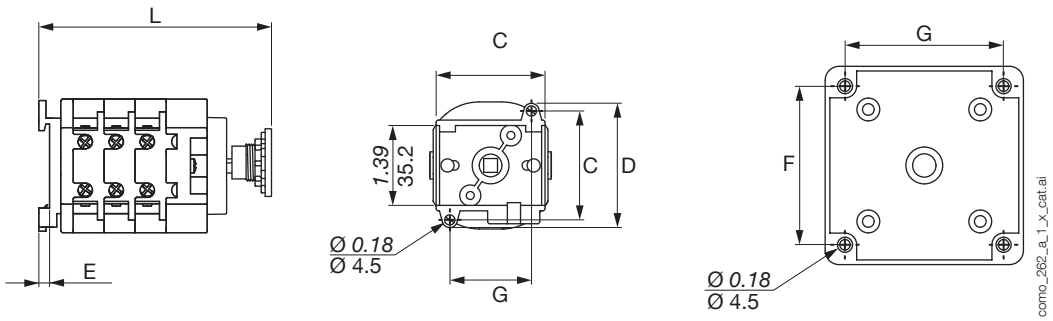
Mounting on door - Fixing with direct handle

Door width		
Unit	**Mini**	**Maxi**
in	0.04	0.16
mm	1	4

		L				C	D
		I-II /I-0-II		Bypass I-0-II			
Rating (A)	**Unit**	**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

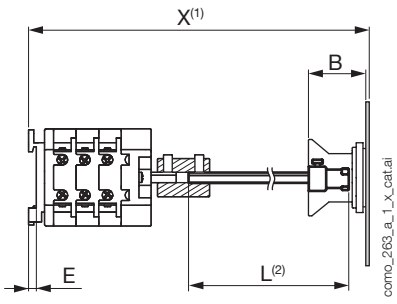


		L				E	C	D	F	G
		I-II /I-0-II		Bypass I-0-II						
Rating (A)	**Unit**	**3 P**	**4 P**	**3 P**	**4 P**					
25	in	3.20	3.68	4.15	4.57	0.18	1.89	2.2	1.65	1.42
	mm	81.4	93.4	105.4	116.1	4.5	48	56	47	36
40	in	3.73	4.28	4.28	5.08	0.18	1.89	2.2	1.65	1.42
	mm	94.7	107.7	120.7	129	4.5	48	56	47	36
63 … 100	in	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

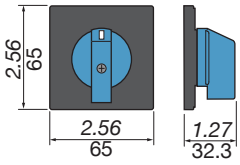
(1) X is the distance between the inside of the door and the fixing plate
(2) L is the total length of the shaft (max 200 mm)
(3) Minimum distance between the inside of the door and the fixing plate



Dimensions for handles

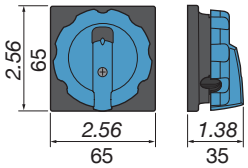
25 to 100 A

Handle type	Front operation Direction of operation	Door drilling
K1 type non padlockable	0 or I 90° 90° I II	1.89 48 Ø 0.20 Ø 5 0.88 22.3 1.89 48 0.94 24.1



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Handle type	Front operation Direction of operation	Door drilling
K1 type padlockable	0 or I 90° 90° I II	1.89 48 Ø 0.20 Ø 5 0.88 22.3 1.89 48 0.94 24.1



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