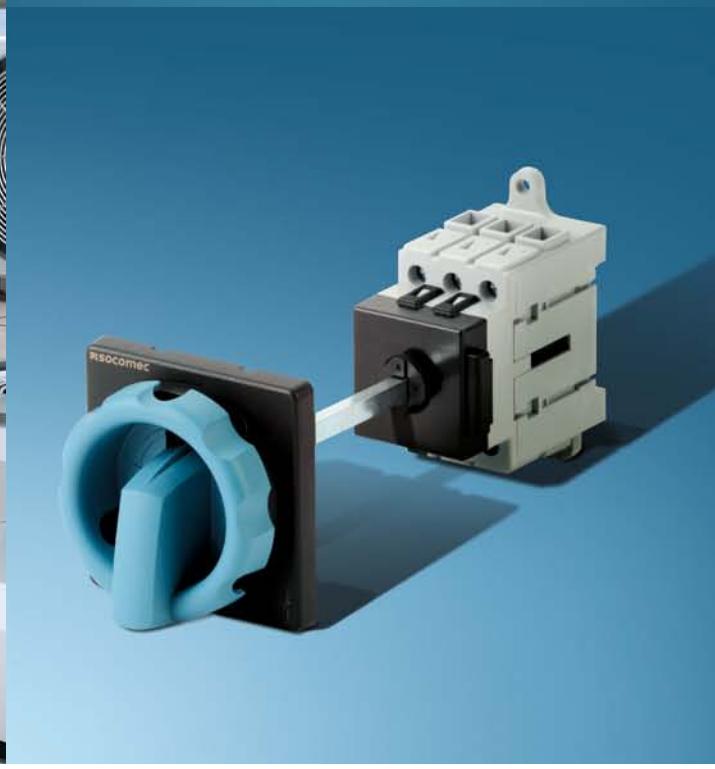
CATALOGUE EXTRACT

COMO

Non-fusible disconnect switches from 30 to 50 A

EDITION 2



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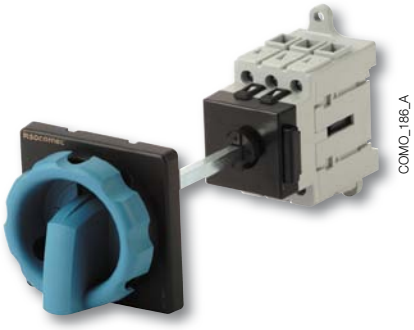
Non-fusible disconnect switches
from 30 to 50 A



COMO

COMO

The solution for

> Industrial control systems

Strong points

> Easy mounting
> Compact
> Safety

Conformity to standards

> UL 60947-4-1(1)

> IEC 60947-3

(1) New UL standard replaces UL508

Local safety enclosures

> The COMO is fitted within a polycarbonate enclosure and can be used, for example, for on load breaking of a motor (HP rated).

Function

COMO are compact and modular non-fusible disconnect switches. They make and break under all types of load conditions and provide safe isolation for any low voltage circuit, especially for machine control circuits.

General characteristics

- 2 stable positions (I, 0)
- Double break per phase
- Positive contact indication
- Contact point technology
- Padlocking in 0 position
- IP20 devices and accessories

Advantages

Easy mounting
Three mounting possibilities are available for optimum integration and time saving:
- DIN rail or back plate mounting,
- Door mounting,
- “Quick Fix” mounting to save time when integrating in high quantities.

Compact
Thanks to its compact design panel space is greatly reduced.

Safety
- Direct access to connection terminals for adequate tightening
- Lockable rotary operating mechanism

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References

DIN rail/back plate mounting

Rating (A)	Type	Switch	4th pole	External handle K1 type IP65 - 4/4X blue/black no defeater	External handle K1 type IP65 - 4/4X red/yellow no defeater	Extension shaft	Aux contact NO+NC	Neutral pole	Earth pole	Terminal shrouds
30 A	for direct operation	2111 **3003**	2111 **1003**	-	-	-	2113 **4000**	2111 **1056**	2111 **1076**	1 P (top and bottom) 2113 **5001** 3 P (top and bottom) 2113 **5003**
	for external operation	2111 **3103**		with guide shaft 2113 **1112** with cross coupling 2113 **1212**	with guide shaft 2113 **1113** with cross coupling 2113 **1213**	200 mm 2113 **2200** 320 mm 2113 **2320**				
50 A	for direct operation	2111 **3005**	2111 **1005**	-	-	-				
	for external operation	2111 **3105**		with guide shaft 2113 **1112** with cross coupling 2113 **1212**	with guide shaft 2113 **1113** with cross coupling 2113 **1213**	200 mm 2113 **2200** 320 mm 2113 **2320**				

Door mounting

Rating (A)	Type	Switch	4th pole	External handle K1 type IP65 - 4/4X blue/black no defeater	External handle K1 type IP65 red/yellow no defeater	Aux contact NO+NC	Neutral pole	Earth pole	Terminal shrouds
30 A	with screws	2111 **3203**	2111 **1203**	2113 **1322**	2113 **1323**	2113 **4200**	2111 **1256**	2111 **1276**	1 P (top and bottom) 2113 **5001** 3 P (top and bottom) 2113 **5003**
	quick fix	2111 **3303**		2113 **1332**	2113 **1333**				
50 A	with screws	2111 **3205**	2111 **1205**	2113 **1322**	2113 **1323**				
	quick fix	2111 **3305**		2113 **1332**	2113 **1333**				

Accessories

External operation handle

DIN-rail or back plate mounting

Rating (A)	Handle type	With guide shaft or cross coupling	Handle colour	Nema degree of protection	Reference
30 … 50	K1	guide shaft	black/blue	4, 4X	2113 **1112**
			red/yellow		2113 **1113**
		compensation	black/blue		2113 **1212**
			red/yellow		2113 **1213**

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Door mounting

Rating (A)	Handle type	Door mounting type	Handle colour	Nema degree of protection	Reference
30 … 50	K1	4 screws	black/blue	4, 4X	2113 **1322**
			red/yellow		2113 **1323**
		quick fix	black/blue		2113 **1332**
			red/yellow		2113 **1333**

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Shaft for external handle

Use
Shaft extensions are for external front operation. The shaft is clipped directly into the COMO without using a screw.

Shafts
7.9 in (200 mm), 12.6 in (320 mm), (custom length, for high qty).

Rating (A)	Handle type	Length (in)	Length (mm)	Reference
30 … 50	K1	7.9	200	2113 **2200**
		12.6	320	2113 **2320**

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Additional pole

Use

Installation of this switched pole converts a 3 pole COMO into a 4 pole non-fusible switches, 3 pole + neutral or 3 pole + earth.
The 4th pole can be mounted without tools on the right or left side of the device.
Max 2 addtionnal modules, 1 switching module and 1 unswitched module.

Switched fourth pole module

Rating (A)	Type of mounting	Type	Reference
30	back mounting	switched	2111 **1003**
	door mounting		2111 **1203**
50	back mounting		2111 **1005**
	door mounting		2111 **1205**

Solid neutral pole

Rating (A)	Type of mounting	Type	Reference
30…50	back mounting	unswitched	2111 **1056**
	door mounting		2111 **1256**

Ground module

Rating (A)	Type of mounting	Type	Reference
30…50	back mounting	unswitched	2111 **1076**
	door mounting		2111 **1276**

Auxiliairy contacts

Use

There are two types of auxiliary contact, one for back plate mounting and one for door mounting. NO+NC auxiliary contacts per device (1 on each side of the device).

Rating (A)	Type of mounting	Contact(s)	Contact type	Reference
30…50	back mounting	1 contact	NO+NC	2113 **4000**
	door mounting			2113 **4200**

Terminal shrouds

Use

Top and bottom protection against direct contact with terminal or connection parts.
Available in 1 or 3 pole version. Top and bottom pair.

Rating (A)	Type of mounting	No. of poles	Position	Pack (unit)	Reference
30…50	back/door mounting	1 P	top and bottom	2	2113 **5001**
		3 P		2	2113 **5003**

Characteristics

Characteristics according to UL 60947-4-1 (replaces UL508)

	30 to 50 A	
General use rating (A)	**30 A**	**50 A**
Short circuit rating at 600 VAC (kA)	5	
Branch circuit fuse type	RK5	
Max fuse rating (A)	50 A	
Max horsepower rating / Max motor FLA current		
120 VAC / 1 phase	2 / 24	3 / 34
120 VAC / 3 phase	3 / 19.2	5 / 30.4
240 VAC / 1 phase	3 / 17	10 / 50
240 VAC / 3 phase	10 / 28	10 / 28
480 VAC / 3 phase	20 / 27	25 / 34
600 VAC / 3 phase	22 / 27	30 / 32
Connection terminals		
Solid - 1 wire (AWG)	#14 - #6	
Solid - 2 wires (AWG)	2 x (#14 - #6)	
Auxiliary contacts		
Electrical characteristics	A300	
Mechanical characteristics		
Durability (number of operating cycles)	100 000	
Operating torque (lbs.in / Nm)	11.24 / 1.27	

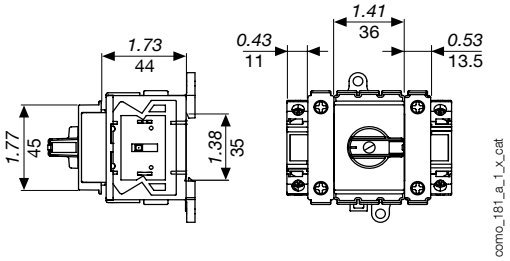
Characteristics according to IEC 60947-3

		32 to 63 A	
Thermal current I_{th} (40°C)		**32 A**	**63 A**
Rated insulation voltage U_i (V)		690	690
Rated operational currents I_e (A)			
Rated voltage	**Utilisation category**	**A**	**A**
415 VAC	AC-21A	32	63
Operational power in AC-23A (kW)			
400 VAC without pre-break AC		11.5	22
Operational power in AC-3 (kW)			
400 VAC without pre-break AC		9.5	18.5

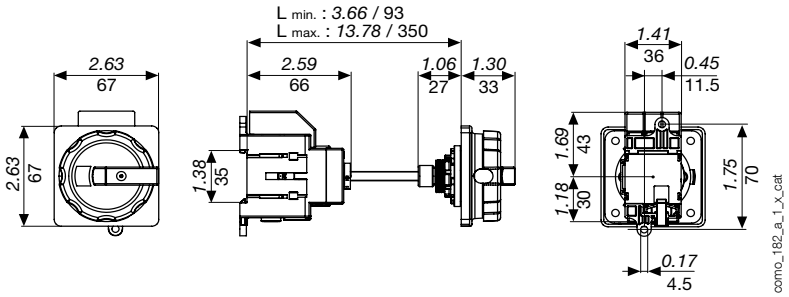
Dimensions (in/mm)

Back mounting

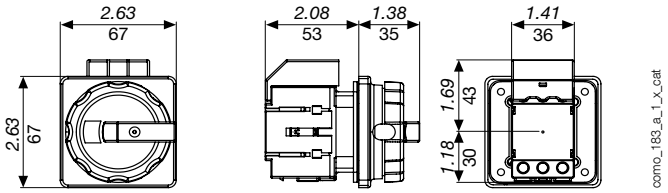
Direct operation



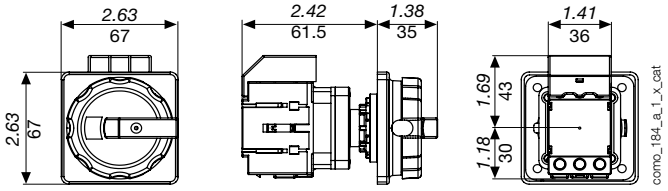
External operation



Door mounting



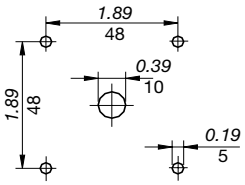
Door mounting quick fix



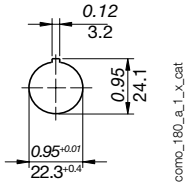
External handles dimensions (in/mm)

K1 type

Standard handle



Quick fix handle



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