



Модульный рубильник Socomes Como M - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: <https://www.uni-jet.com/catalog/commutation/vyiklyuchateli-nagruzki/socomes-como-m/>



COM O M

20 to 100 A

Functions
 References
 Accessories
 Characteristics
 Dimensions

Functions

COMO M are manually operated modifiable and modular multipolar load break switches.

They break on and off under load and provide safety isolation for any low voltage circuit, particularly for machine control circuits.

Conformity to standards

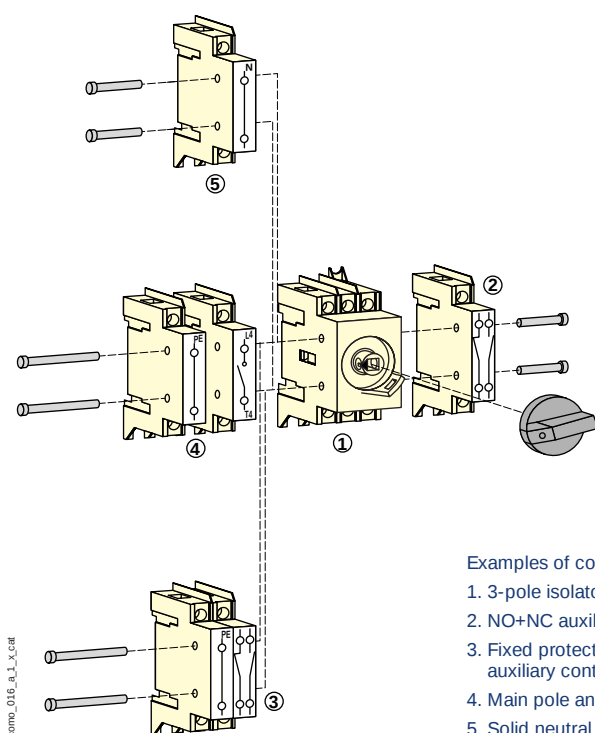
- IEC 60947-3
- EN 60947-3
- UL 508: consult us.
- CSA C22.2 n° 14: consult us

Approvals and certifications

- LOVAG/ASEFA
- KEMA
- CCA
- BBJ Poland (attestation of verification)

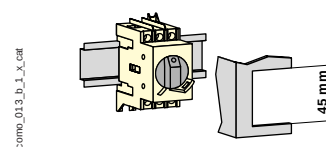
General characteristics

- Double break per phase
- Fully visible breaking
- Contact point technology.

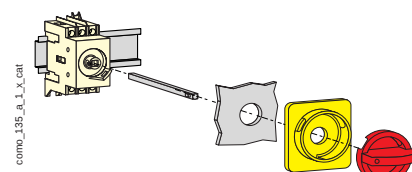


Examples of composition:

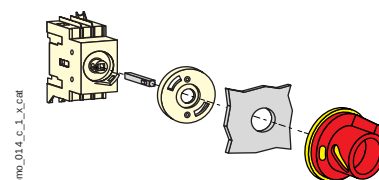
1. 3-pole isolator
2. NO+NC auxiliary contacts
3. Fixed protective earth module and NO+NC auxiliary contacts
4. Main pole and fixed protective earth pole
5. Solid neutral pole



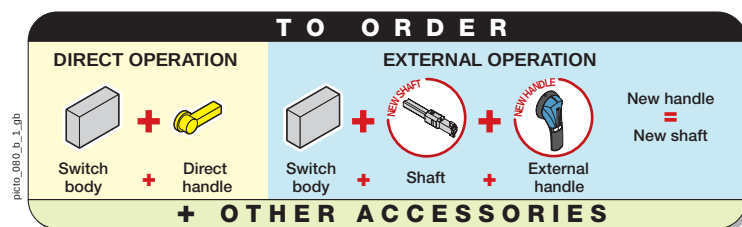
Base mounted: direct operation



Base mounted: door interlocked external front operation



Door mounting: direct external door mounted handle (20 to 63 A M1)



Load break switches
COMOM



References

► Base mounted



Switches

Back plate mounted switch body

No. of poles		References	References	References	References
3 pole		2410 3001	2410 3002	2410 3003	2410 3004

Accessories

Direct operation handle

Black		2419 0111	2419 0111	2419 0111	2419 0111
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Door interlocked external front operation

Black	Selector M	IP65		2419 0311*	2419 0311*	2419 0311*	2419 0311*
Red / Yellow	Selector M	IP65		2419 0411	2419 0411	2419 0411	2419 0411
Black	S1 type ⁽¹⁾	IP55		1411 2111*	1411 2111*	1411 2111*	1411 2111*
Black	S1 type ⁽¹⁾	IP65		1413 2111	1413 2111	1413 2111	1413 2111
Red / Yellow	S1 type ⁽¹⁾	IP65		1414 2111	1414 2111	1414 2111	1414 2111

Shaft extensions for external operation (for dimensions, see "Accessories" pages)

55 mm	Selector M			2499 3005	2499 3005	2499 3005	2499 3005
150 mm	Selector M			2499 3015	2499 3015	2499 3015	2499 3015
200 mm	Selector M			2499 3020*	2499 3020*	2499 3020*	2499 3020*
300 mm	Selector M			2499 3030	2499 3030	2499 3030	2499 3030
200 mm	S1 type ⁽¹⁾			1402 0520*	1402 0520*	1402 0520*	1402 0520*
320 mm	S1 type ⁽¹⁾			1402 0532	1402 0532	1402 0532	1402 0532

Main pole module

1 pole	switched			2410 1001	2410 1002	2410 1003	2410 1004
--------	----------	--	--	-----------	-----------	-----------	-----------

Neutral module

1 pole	unswitched			2410 5005	2410 5005	2410 5005	2410 5005
--------	------------	--	--	-----------	-----------	-----------	-----------

Protective earth module

1 pole	unswitched			2410 9005	2410 9005	2410 9005	2410 9005
--------	------------	--	--	-----------	-----------	-----------	-----------

Auxiliary contacts

1 AC	NC+ NO			2419 0001	2419 0001	2419 0001	2419 0001
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Terminal shrouds (2 sets)

1 pole	top / bottom			2409 4105	2409 4105	2409 4105	2409 4105
3 pole	top / bottom			2409 4305	2409 4305	2409 4305	2409 4305

IP65 enclosed switches

3 pole	/	PG ⁽²⁾		2415 9501	2415 9502	2415 9503	2415 9504
3 pole	/	M ⁽²⁾		2415 9401	2415 9402	2415 9403	2415 9404
3 pole	1 NC+ NO AC	PG ⁽²⁾		2415 9511	2415 9512	2415 9513	2415 9514
3 pole	1 NC+ NO AC	M ⁽²⁾		2415 9411	2415 9412	2415 9413	2415 9414

* Standard

(1) Defeatable handle.

(2) Knockout M or PG type glands not included.

COM O M

20 to 100 A

Functions
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References

► Base mounted



63 A M1

63 A



80 A

100 A

Switches

Back plate mounted switch body

No. of poles

3 pole



References

2410 3005

References

2410 3006

References

2410 3008

References

2410 3010

Accessories

Direct operation handle

Black



2419 0111

2419 0112

2419 0112

2419 0112

Door interlocked external front operation

Black

Selector M

IP65



2419 0311*

2419 0311*

2419 0311*

2419 0311*

Red / Yellow

Selector M

IP65

2419 0411

2419 0411

2419 0411

2419 0411

Black S1 type⁽¹⁾

IP55



1411 2111*

1411 2111*

1411 2111*

1411 2111*

Black S1 type⁽¹⁾

IP65

1413 2111

1413 2111

1413 2111

1413 2111

Red / Yellow S1 type⁽¹⁾

IP65

1414 2111

1414 2111

1414 2111

1414 2111

Shaft extensions for external operation (for dimensions, see "Accessories" pages)

55 mm

Selector M

2499 3005

2499 3005

2499 3005

2499 3005

150 mm

Selector M

2499 3015

2499 3015

2499 3015

2499 3015

200 mm

Selector M

2499 3020*

2499 3020*

2499 3020*

2499 3020*

300 mm

Selector M

2499 3030

2499 3030

2499 3030

2499 3030

200 mm

S1 type⁽¹⁾

1402 0520*

1402 0520*

1402 0520*

1402 0520*

320 mm

S1 type⁽¹⁾

1402 0532

1402 0532

1402 0532

1402 0532

Main pole module

1 pole

switched

2410 1005

2410 1006

2410 1008

2410 1010

Neutral module

1 pole

unswitched

2410 5005

2410 5011

2410 5011

2410 5011

Protective earth module

1 pole

unswitched

2410 9005

2410 9011

2410 9011

2410 9011

Auxiliary contacts

1 AC

NC+NO

2419 0001

2419 0001

2419 0001

2419 0001

Terminal shrouds (2 sets)

1 pole

top / bottom

2409 4105

2409 4111

2409 4111

2409 4111

3 pole

top / bottom

2409 4305

2409 4311

2409 4311

2409 4311

IP65 enclosed switches

3 pole

/

PG⁽²⁾

2415 9505

2415 9506

3 pole

/

M⁽²⁾

2415 9405

2415 9406

3 pole

1 NC+ NO AC

PG⁽²⁾

2415 9515

2415 9516

3 pole

1 NC+ NO AC

M⁽²⁾

2415 9415

2415 9416

3 pole

/

/

2415 9508

2415 9510

3 pole

1 NC+ NO AC

/

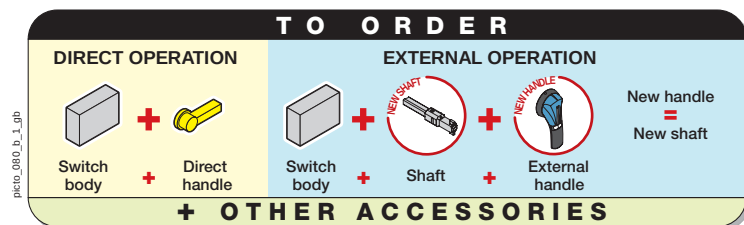
2415 9518

2415 9520

* Standard

(1) Defeatable handle.

(2) Knockout M or PG type glands not included.



Load break switches
COMOM



References

Door mounted



Switches

Door mounted switch body

No. of poles

3 pole



20 A

25 A

32 A

40 A

63 A M1

References

References

References

References

References

2420 3001

2420 3002

2420 3003

2420 3004

2420 3005

Accessories

Door interlocked external front operation

Black Selector M IP65



2419 0311*

2419 0311*

2419 0311*

2419 0311*

2419 0311*

Red / Yellow Selector M IP65



2419 0411

2419 0411

2419 0411

2419 0411

2419 0411

Black Rotary D IP54



2429 1010*

2429 1010*

2429 1010*

2429 1010*

2429 1010*

Red / yellow Rotary D IP54



2429 1011

2429 1011

2429 1011

2429 1011

2429 1011

Main pole module

1 pole switched

2420 1001

2420 1002

2420 1003

2420 1004

2420 1005

Neutral module

1 pole unswitched

2420 5005

2420 5005

2420 5005

2420 5005

2420 5005

Protective earth module

1 pole unswitched

2420 9005

2420 9005

2420 9005

2420 9005

2420 9005

Auxiliary contacts

1 AC NC+ NO

2429 0001

2429 0001

2429 0001

2429 0001

2429 0001

Terminal shrouds (2 sets)

1 pole top / bottom

2409 4105

2409 4105

2409 4105

2409 4105

2409 4105

3 pole top / bottom

2409 4305

2409 4305

2409 4305

2409 4305

2409 4305

IP65 seal for D-type handle

For external operation

2429 1012

2429 1012

2429 1012

2429 1012

2429 1012

* Standard

COM O M

20 to 100 A

Functions
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Accessories

Direct operation handle

como_143_a_1_cat



References

Back plate mounted

Rating (A)	Handle colour	References
20 ... 63 M1	Black	2419 0111
63 ... 100	Black	2419 0112

Door interlocked external front operation

como_067_a_1_cat



M-type handle

acces_009_a_1_cat



D-type handle

acces_149_a_1_cat



S1-type handle

References

Back plate mounted

Rating (A)	Handle colour	Handle type	External IP ⁽¹⁾	References
20 ... 100	Black	Selector M	IP65	2419 0311*
20 ... 100	Red / Yellow	Selector M	IP65	2419 0411
20 ... 100	Black	S1 ⁽²⁾	IP55	1411 2111*
20 ... 100	Black	S1 ⁽²⁾	IP65	1413 2111
20 ... 100	Red / Yellow	S1 ⁽²⁾	IP65	1414 2111

Door mounted

Rating (A)	Handle colour	Handle type	External IP ⁽¹⁾	References
20 ... 63 M1	Black	Selector M	IP65	2419 0311*
20 ... 63 M1	Red / yellow	Selector M	IP65	2419 0411
20 ... 63 M1	Black	Rotary D	IP54	2429 1010*
20 ... 63 M1	Red / yellow	Rotary D	IP54	2429 1011

* Standard

(1) IP: protection rating according to IEC 60529 standard.

(2) Defeatable handle.

S-type handle adapter

acces_187_a_1_cat



Use

Enables new S type handles to be mounted using old fixing holes for replacement or retrofit applications.

Dimensions

Adds 12 mm to the depth.

References

Handle colour	External IP ⁽¹⁾	Pack qty	References
Black	IP65	10	1493 0000

(1) IP: protection rating according to IEC 60529 standard.

Alternative S-type handle cover colours

acces_198_a_1_cat



Use

For single lever handles type S1, S2 and S3.
Other colours: please consult us.

References

Handle colour	Pack qty	References
Light grey	50	1401 0001
Dark grey	50	1401 0011

Shaft extensions for external operation

acces_127_a_1_cat

acces_145_a_1_cat



Use

For standard length external operation:

- 55 mm,
- 150 mm,
- 200 mm,
- 300 mm,
- 320 mm.

Other lengths: please consult us.

References

Rating (A)	Shaft length (mm)	Handle type	Backplate to door (max)	References
20 ... 100	55	Selector M	90	2499 3005
20 ... 100	150	Selector M	185	2499 3015
20 ... 100	200	Selector M	235	2499 3020*
20 ... 100	300	Selector M	335	2499 3030
20 ... 100	200	S1 ⁽¹⁾	(2)	1402 0520*
20 ... 100	320	S1 ⁽¹⁾	(2)	1402 0532

* Standard

(1) Defeatable handle.

(2) Consult us.



Accessories

Switched fourth pole module

Use

- Transforms the 3-pole switch-disconnector into a 4-pole device.
- Max 2 switching modules 1 each side of switch. Combination of auxiliaries and switching poles.

References

Back plate mounted

Rating (A)	No. of pole	Type	References
20	1	switched	2410 1001
25	1	switched	2410 1002
32	1	switched	2410 1003
40	1	switched	2410 1004
63 M1	1	switched	2410 1005
63	1	switched	2410 1006
80	1	switched	2410 1008
100	1	switched	2410 1010

Door mounted

Rating (A)	No. of pole	Type	References
20	1	switched	2420 1001
25	1	switched	2420 1002
32	1	switched	2420 1003
40	1	switched	2420 1004
63 M1	1	switched	2420 1005

Unswitched neutral pole

Use

Transforms the 3-pole switch into a 3-pole + solid neutral.

References

Back plate mounted

Rating (A)	No. of pole	Type	References
20 ... 63 M1	1	unswitched	2410 5005
63 ... 100	1	unswitched	2410 5011

Door mounted

Rating (A)	No. of pole	Type	Reference
20 ... 63 M1	1	unswitched	2420 5005

Protective earth module

Use

Adds 1 protective earth module pole to the switch-disconnector.

References

Back plate mounted

Rating (A)	No. of pole	Type	References
20 ... 63 M1	1	unswitched	2410 9005
63 ... 100	1	unswitched	2410 9011

Door mounted

Rating (A)	No. of pole	Type	Reference
20 ... 63 M1	1	unswitched	2420 9005

Auxiliary contacts



Use

Pre-breaking and signalling for positions 0 and I: 1 to 2 max. NO+NC auxiliary contacts per device (1 on each side of switch). For low-level use, specific auxiliary contact: please consult us.

References

NC+NO contact for back plate mounted switches

Rating (A)	Reference
20 ... 100	2419 0001

NO+NC contact for door mounted switches

Rating (A)	Reference
20 ... 63 M1	2429 0001

COM O M

20 to 100 A

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▶ Characteristics
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Accessories

Terminal shrouds

como_100_a_1_cat



Use

Top and bottom protection against direct contacts with the terminals.

Top and bottom pair.

References

Rating (A)	No. pole (s)	Position	Pack qty	References
20 ... 63 M1	1	top / bottom	2	2409 4105 ⁽¹⁾
20 ... 63 M1	3	top / bottom	2	2409 4305 ⁽¹⁾
63 ... 100	1	top / bottom	2	2409 4111 ⁽¹⁾
63 ... 100	3	top / bottom	2	2409 4311 ⁽¹⁾

(1) To fully shroud top and bottom terminals max 1 reference required.

IP65 seal for D type handle

Use

Provides a IP65 seal for external operation D type handle.

References

Door mounted

Rating (A)	Reference
20 ... 63 M1	2429 1012

IP65 enclosed switches

como_126_a_2_cat



Characteristics

- Equipped with a 3-pole COMO M
- 1 neutral terminal and 1 earth terminal integrated
- Possibility of adding 2 additional modules (max 1 on each side of switch)
- Polycarbonate enclosure
- IP65 protection
- Yellow cover and red handle (from 20 to 32 A). Grey casing and red/yellow handle front face (from 40 to 100 A)
- Knockouts as standard (from 20 to 63 A)
- Lead sealable enclosure
- Auxiliary contacts can be purchased separately
- Option: cable clamps (from 20 to 32 A) reference: 2499 0002.

References

Rating (A)	No. of poles	Auxiliary contact type	Knockout type ⁽¹⁾	References
20	3	/	PG16	2415 9501
20	3	1 NC+ NO AC	PG16	2415 9511
20	3	/	M20	2415 9401
20	3	1 NC+ NO AC	M20	2415 9411
25	3	/	PG16	2415 9502
25	3	1 NC+ NO AC	PG16	2415 9512
25	3	/	M20	2415 9402
25	3	1 NC+ NO AC	M20	2415 9412
32	3	/	PG16	2415 9503
32	3	1 NC+ NO AC	PG16	2415 9513
32	3	/	M20	2415 9403
32	3	1 NC+ NO AC	M20	2415 9413
40	3	/	PG21	2415 9504
40	3	1 NC+ NO AC	PG21	2415 9514
40	3	/	M25	2415 9404
40	3	1 NC+ NO AC	M25	2415 9414
63 M1	3	/	PG21	2415 9505
63 M1	3	1 NC+ NO AC	PG21	2415 9515
63 M1	3	/	M25	2415 9405
63 M1	3	1 NC+ NO AC	M25	2415 9415
63	3	/	PG21	2415 9506
63	3	1 NC+ NO AC	PG21	2415 9516
63	3	/	M25	2415 9406
63	3	1 NC+ NO AC	M25	2415 9416
80	3	/	/	2415 9508
80	3	1 NC+ NO AC	/	2415 9518
100	3	/	/	2415 9510
100	3	1 NC+ NO AC	/	2415 9520

(1) Knockout M or PG type glands not included.



Characteristics (according to IEC 60947-3)

Thermal current I_{th} (40°C)	20 A	25 A	32 A	40 A	63 A M1	63 A	80 A	100 A
Rated insulation voltage U_i (V)	800	800	800	800	800	800	800	800
Rated impulse withstand voltage U_{imp} (kV)	8	8	8	8	8	8	8	8

Rated operational currents I_e (A)

Rated voltage	Load duty category	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾	A ⁽¹⁾
400 VAC	AC-21 A / AC-22 A	20	25	32	40	63	63	80
	AC-23 A	20	25	32	40	63	63	80
500 VAC	AC-21 A / AC-22 A	20	25	32	40	63	63	80
	AC-23 A	16	20	25	32	32	50	63
690 VAC ⁽²⁾	AC-21 A / AC-22 A	20	25	32	40	63	63	80
	AC-23 A	16	20	20	20	20	50	50

Operational power (kW)⁽¹⁾⁽³⁾

At 400 VAC without pre-break AC in AC-3	5.5	7.5	9	15	15	18.5	22	30
At 400 VAC without pre-break AC in AC-23 A	9	11	15	18.5	30	30	40	40
At 500 VAC without pre-break AC in AC-3	7.5	9	11	15	15	18.5	18.5	22
At 500 VAC without pre-break AC in AC-23 A	9	11	15	18.5	18.5	33	40	40
At 690 VAC without pre-break AC in AC-3	9	11	11	11	11	18.5	18.5	22
At 690 VAC without pre-break AC in AC-23 A	11	15	15	15	15	45	45	45

Fuse protected short-circuit withstand (kA rms prospective)⁽⁴⁾

Prospective short-circuit current (A rms)	50	50	50	50	20	25	25	25
Associated fuse rating (A)	20	25	32	40	63	63	80	100

Overload capacity

Rated short-time withstand current 1 s. I_{CW} (kA rms)	1260	1260	1260	1260	1260	1500	1500	1500
Short-circuit making capacity (kA peak) ⁽⁴⁾	5.9	5.9	5.9	5.9	5.9	9.6	9.6	9.6

Connection

Minimum Cu cable section (mm ²)	2.5	2.5	4	6	10	10	16	25
Maximum Cu cable section (mm ²)	16	16	16	16	16	50	50	50
Min. tightening torque (Nm)	2	2	2	2	2	4	4	4

Mechanical characteristics

Endurance (number of operating cycles)	100 000	100 000	100 000	100 000	100 000	30 000	30 000	30 000
Weight of 3 p switch (kg)	0.13	0.13	0.13	0.13	0.13	0.25	0.25	0.25

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

(2) With terminal shrouds.

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

(4) For a rated operating voltage U_e = 400 VAC.

COM O M

20 to 100 A

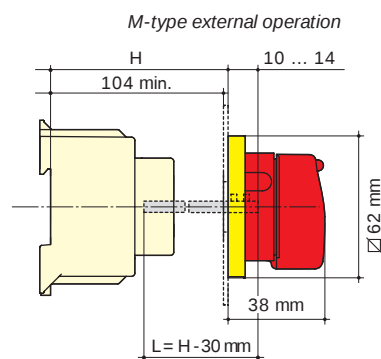
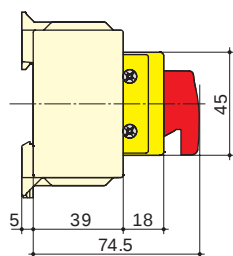
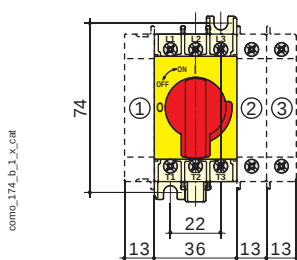
Functions
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► Dimensions

Dimensions

► Base mounted

• COMO M 20 to 63 A M1

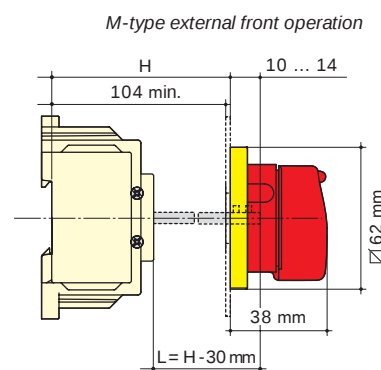
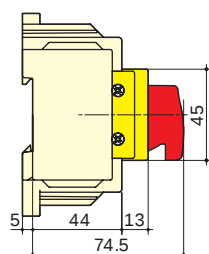
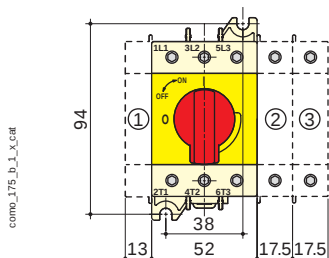
Direct operation



1. Auxiliary contact.
 2. Switched fourth pole module.
 3. Unswitched neutral pole - Protective earth module.
- Note:** Max 1 switched module on each side of switch.

• COMO M 63 to 100 A

Direct operation

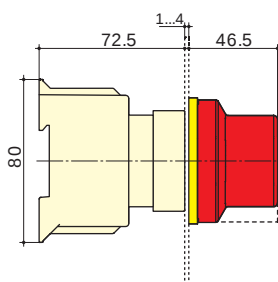
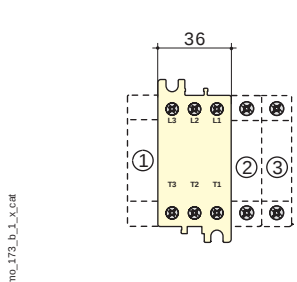


1. Auxiliary contact.
 2. Switched fourth pole module.
 3. Unswitched neutral pole - Protective earth module.
- Note:** Max 1 switched module on each side of switch.

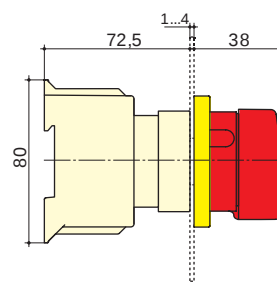
► Door mounted

• COMO M 20 A to 63 A M1

D-type external front operation



M-type external front operation



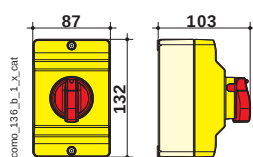
1. Auxiliary contact.
 2. Switched fourth pole module.
 3. Unswitched neutral pole - Protective earth module.
- Note:** Max 1 switched module on each side of switch.



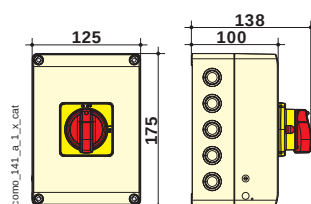
Dimensions

► Enclosed switches

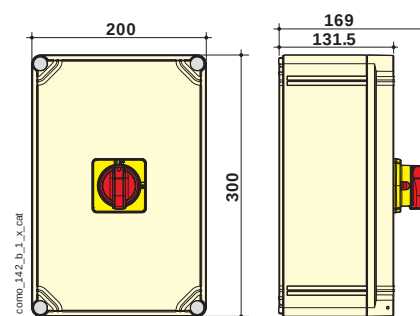
- COMO M 20 to 32 A



- COMO M 40 to 63 A

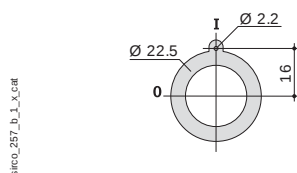


- COMO M 80 to 100 A

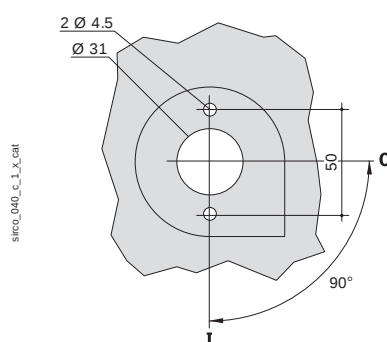


► Door drilling

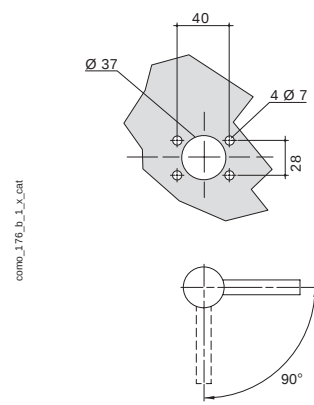
- M type: selector handle



- D type: rotary handle



- S type: pistol handle



- D type: rotary handle with M22 threaded barrel

