

# FUSOMAT DIN

## Fuse combination switches with tripping function

250 A to 1250 A



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### The solution for

- > Healthcare
- > Energy
- > Infrastructure & Transport
- > Industry

### Strong points

- > Automatic tripping
- > Optimum safety
- > High breaking capacity

### Conformity to standards

- > IEC 60947-3

### Function

**FUSOMAT** fuse-combination switches are manually operated 3 or 4-pole load break switches with visible breaking and a remote tripping function.

They provide load operation, safety disconnection and protection against overloads and short-circuits in any low voltage electrical circuit. They can ensure the automatic opening of the circuit together with:

- fuse blown detection system (see DDMM or FMD),
- thermal relay,
- differential relay (see RESYS),
- other safety devices.

### Advantages

#### Automatic tripping

FUSOMAT is the only fuse combination switch that allows automatic remote opening by means of a coil associated with an external device.

#### Optimum safety

Double phase breaking (upstream and downstream from the fuse) and fully visible isolation keep people and equipment protected from overcurrent.

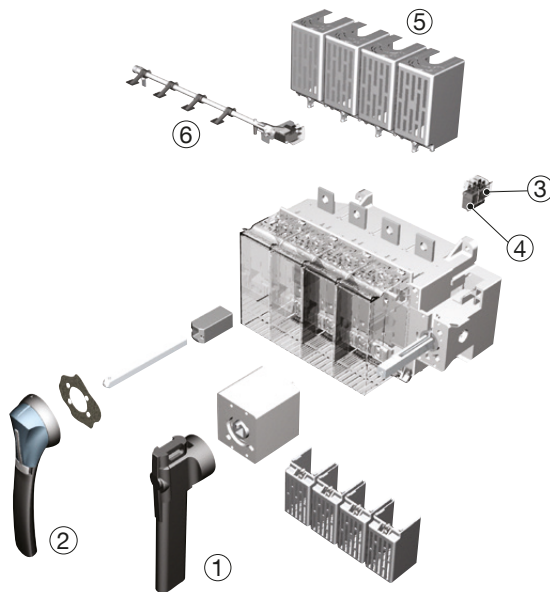
#### High breaking capacity

High breaking capacity fuses (100 kA rms) provide protection from overloads and short circuits.

### General characteristics

- For industrial fuses up to 1250 A.
- 3P or 4P available.
- Direct or external handle.
- Auxiliary contact optional.

## Configurations



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

1. Direct front operation.
2. External front operation.
3. NO/NC auxiliary contact for each position.
4. NO/NC auxiliary contact with standard shunt trip coil control.
5. Terminal shroud.
6. Fuse melting detector (FMD)

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## References

### FUSOMAT DIN front operation

Device fitted with a 230 VAC shunt trip coil

| Rating (A)<br>/ Fuse | N° of<br>Poles | Appareil nu      | direct<br>handle                        | External<br>handle                                                                                         | Shaft for<br>external<br>handle                                        | Auxiliary<br>contact<br>position                                                                             | Auxiliary<br>contact tripping                      | 1 <sup>st</sup> auxiliary<br>contact<br>blown fuse                      | Terminal<br>Shrouds<br>(1 unit)                                                | Top terminals<br>screen                            | Inter phase<br>barrier                                                         |                                                    |                                                                                |
|----------------------|----------------|------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------|
| 250 A / 1            | 3 P            | 3650 <b>3026</b> | Black<br>3999 <b>6201<sup>(1)</sup></b> | S3 type<br>Black<br>IP55<br>1431 <b>3511<sup>(1)</sup></b><br><br>Red / Yellow<br>IP55<br>1432 <b>3511</b> | 200 mm<br>1401 <b>1520</b><br>320 mm<br>1401 <b>1532<sup>(1)</sup></b> | 1 <sup>st</sup> contact<br>NO/NC<br>3999 <b>0051</b><br>2 <sup>nd</sup> contact<br>NO/NC<br>3999 <b>0052</b> | 1 contact<br>NO/NC<br>3999 <b>0031</b>             | 3 P<br>3994 <b>1304</b><br>4 P<br>3994 <b>1404</b>                      | 3 P<br>3998 <b>3040<sup>(2)</sup></b><br>4 P<br>3998 <b>4040<sup>(2)</sup></b> |                                                    |                                                                                |                                                    |                                                                                |
|                      | 4 P            | 3650 <b>6026</b> |                                         |                                                                                                            |                                                                        |                                                                                                              |                                                    |                                                                         |                                                                                |                                                    |                                                                                |                                                    |                                                                                |
| 400 A / 2            | 3 P            | 3650 <b>3041</b> |                                         |                                                                                                            |                                                                        |                                                                                                              |                                                    |                                                                         |                                                                                |                                                    |                                                                                | 3 P<br>3994 <b>1306</b><br>4 P<br>3994 <b>1406</b> | 3 P<br>3998 <b>3063<sup>(2)</sup></b><br>4 P<br>3998 <b>4063<sup>(2)</sup></b> |
|                      | 4 P            | 3650 <b>6041</b> |                                         |                                                                                                            |                                                                        |                                                                                                              |                                                    |                                                                         |                                                                                |                                                    |                                                                                |                                                    |                                                                                |
| 630 A / 3            | 3 P            | 3650 <b>3064</b> |                                         |                                                                                                            |                                                                        |                                                                                                              |                                                    | 3 P<br>3994 <b>1306</b><br>4 P<br>3994 <b>1406</b>                      | 3 P<br>3998 <b>3063<sup>(2)</sup></b><br>4 P<br>3998 <b>4063<sup>(2)</sup></b> |                                                    |                                                                                |                                                    |                                                                                |
|                      | 4 P            | 3650 <b>6064</b> |                                         |                                                                                                            |                                                                        |                                                                                                              |                                                    |                                                                         |                                                                                |                                                    |                                                                                |                                                    |                                                                                |
| 800 A / 4            | 3 P            |                  | Black<br>3999 <b>6012<sup>(1)</sup></b> |                                                                                                            |                                                                        |                                                                                                              | 3 P<br>3994 <b>1312</b><br>4 P<br>3994 <b>1412</b> | 3998 <b>3120<sup>(3)</sup></b><br>4 P<br>3998 <b>4120<sup>(3)</sup></b> | 3 P<br>2998 <b>0003</b><br>4 P<br>2998 <b>0004</b>                             |                                                    |                                                                                |                                                    |                                                                                |
|                      | 4 P            |                  |                                         |                                                                                                            |                                                                        |                                                                                                              |                                                    |                                                                         |                                                                                |                                                    |                                                                                |                                                    |                                                                                |
| 1250 A / 4           | 3 P            | 3650 <b>3121</b> |                                         |                                                                                                            |                                                                        |                                                                                                              |                                                    |                                                                         |                                                                                | 3 P<br>3994 <b>1312</b><br>4 P<br>3994 <b>1412</b> | 3 P<br>3998 <b>3120<sup>(3)</sup></b><br>4 P<br>3998 <b>4120<sup>(3)</sup></b> |                                                    |                                                                                |
|                      | 4 P            | 3650 <b>6121</b> |                                         |                                                                                                            |                                                                        |                                                                                                              |                                                    |                                                                         |                                                                                |                                                    |                                                                                |                                                    |                                                                                |

(1) Standard.

(2) Top/bottom

(3) Bottom terminals screen as standard

(4) One of the T4 fuses is fitted with a striker.

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250 A to 1250 A

## Accessories

### direct handle

| Front operation |               |                  |
|-----------------|---------------|------------------|
| Current (A)     | Handle colour | Reference        |
| 250 ... 630     | Black         | 3999 <b>6201</b> |
| 800 ... 1250    | Black         | 3999 <b>6012</b> |

| Lateral operation |               |                  |
|-------------------|---------------|------------------|
| Current (A)       | Handle colour | Reference        |
| 250 ... 1250      | Black         | 3999 <b>6012</b> |



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### External handle

| Front operation |             |               |             |                  |
|-----------------|-------------|---------------|-------------|------------------|
| Current (A)     | Handle type | Handle colour | External IP | Reference        |
| 250 ... 1250    | S3          | Black         | IP55        | 1431 <b>3511</b> |
| 250 ... 1250    | S3          | Rouge         | IP55        | 1432 <b>3511</b> |

| Lateral operation |             |               |             |                  |
|-------------------|-------------|---------------|-------------|------------------|
| Current (A)       | Handle type | Handle colour | External IP | Reference        |
| 250 ... 1250      | S3          | Black         | IP55        | 1435 <b>3511</b> |
| 250 ... 1250      | S3          | Rouge         | IP55        | 1436 <b>3511</b> |



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S3 type handle

S3 type handle

### S-type handle adapter

#### Use

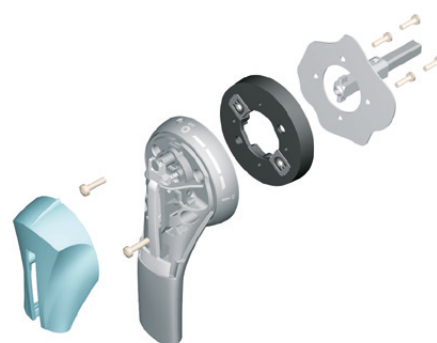
Enables S type handles to be fitted in place of existing older style SOCOMEC handles.

#### Dimensions

Adds 12 mm to the handle depth.

| Handle colour | To be ordered in multiples of | External IP <sup>(1)</sup> | Reference        |
|---------------|-------------------------------|----------------------------|------------------|
| Black         | 1                             | IP65                       | 1493 <b>0000</b> |

(1) IP: protection index according to IEC 60529.



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### Alternative S type handle cover colour

#### Use

For single lever S3 type handles.

Other colours available - please contact us.

| Color      | To be ordered in multiples of | Handle  | Reference        |
|------------|-------------------------------|---------|------------------|
| Light grey | 50                            | S3 type | 1401 <b>0001</b> |
| Dark Grey  | 50                            | S3 type | 1401 <b>0011</b> |



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## Shaft for external operation

### Use

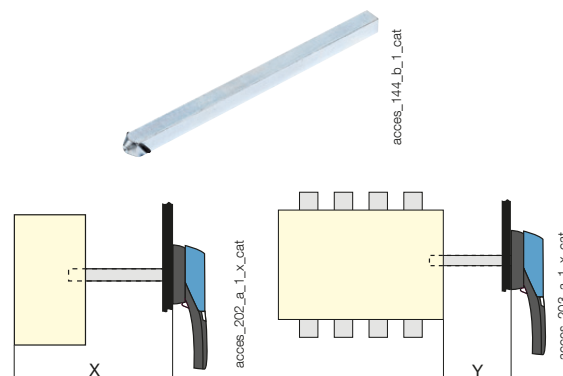
Standard lengths:

- 200 mm
- 320 mm.

Other lengths available -  
please contact us.

| Front operation |                  |                   |         |                  |
|-----------------|------------------|-------------------|---------|------------------|
| Current (A)     | Dimension X (mm) | Shaft length (mm) | Type    | Reference        |
| 250... 400      | 300 ... 422      | 200               | 15 x 12 | 1401 <b>1520</b> |
| 250... 400      | 300 ... 542      | 320               | 15 x 12 | 1401 <b>1532</b> |
| 630 ... 1250    | 345 ... 467      | 200               | 15 x 12 | 1401 <b>1520</b> |
| 630 ... 1250    | 345 ... 587      | 320               | 15 x 12 | 1401 <b>1532</b> |

| Lateral operation |                  |                   |         |                  |
|-------------------|------------------|-------------------|---------|------------------|
| Current (A)       | Dimension Y (mm) | Shaft length (mm) | Type    | Reference        |
| 250 ... 1250      | 78 ... 200       | 200               | 15 x 12 | 1403 <b>1520</b> |



## Auxiliary contact

### Use

Pre-break and signalling of positions 0 and I: 1 to 2 NO/NC auxiliary contacts.

### Coil tripping

1 to 2 NO/NC auxiliary contacts.

### Connection to the control circuit

By 6.35 mm fast-on terminal.

### Features

NO/NC auxiliary contact IP2.

### Electrical Rating

30,000 operations.

### NO/NC position contact

| Current (A)  | Current nominal (A) | Operating current I <sub>o</sub> (A) |               |                   |              |
|--------------|---------------------|--------------------------------------|---------------|-------------------|--------------|
|              |                     | 250 VAC AC-13                        | 400 VAC AC-13 | 5A / 24 VDC DC-13 | 48 VDC DC-13 |
| 250 ... 1800 | 16                  | 12                                   | 8             | 14                | 6            |

### NO/NC coil trip signalling

| Current (A)  | Current nominal (A) | Operating current I <sub>o</sub> (A) |               |                   |              |
|--------------|---------------------|--------------------------------------|---------------|-------------------|--------------|
|              |                     | 250 VAC AC-13                        | 400 VAC AC-13 | 5A / 24 VDC DC-13 | 48 VDC DC-13 |
| 250 ... 1800 | 16                  | 12                                   | 8             | 12                | 2            |

### NO/NC changeover contact

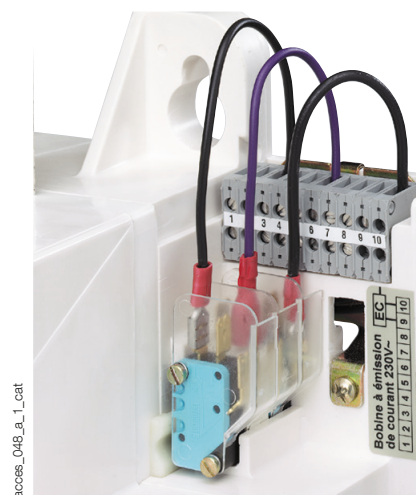
| Current (A)  | AC position                       | Reference        |
|--------------|-----------------------------------|------------------|
| 250 ... 1800 | 1 <sup>st</sup> AC                | 3999 <b>0051</b> |
| 250 ... 1800 | 2 <sup>nd</sup> auxiliary contact | 3999 <b>0052</b> |

### NO/NC low level position contact

| Current (A)  | AC position                       | Reference        |
|--------------|-----------------------------------|------------------|
| 250 ... 1800 | 1 <sup>st</sup> AC                | 3999 <b>0111</b> |
| 250 ... 1800 | 2 <sup>nd</sup> auxiliary contact | 3999 <b>0112</b> |

### NO/NC coil trip signalling

| Current (A)  | AC position | Reference        |
|--------------|-------------|------------------|
| 250 ... 1800 | 1 AC        | 3999 <b>0031</b> |



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250 A to 1250 A

## Accessories (continued)

### Tripping Coil

#### Shunt trip coil

| Premim.       | Replacement coil<br>Reference | Alternative coil<br>Reference |
|---------------|-------------------------------|-------------------------------|
| 24 VAC        | 3990 1024                     | 3991 1024                     |
| 48 VAC        | 3990 1048                     | 3991 1048                     |
| 110 VAC       | 3990 1110                     | 3991 1110                     |
| 230 V a.c.    | 3990 1220                     | included                      |
| 400 VAC       | 3990 1380                     | 3991 1380                     |
| 12 VDC        | 3990 2012                     | 3991 2012                     |
| 5A / 24 VDC   | 3990 2024                     | 3991 2024                     |
| 48 VDC        | 3990 2048                     | 3991 2048                     |
| 110 / 200 VDC | 3990 2220                     | 3991 2220                     |
| 220 VDC       | 3990 2220                     |                               |

#### Undervoltage trip coil

| Premim.     | Replacement coil<br>Reference | Alternative coil<br>Reference |
|-------------|-------------------------------|-------------------------------|
| 24 VAC      | 3990 3024                     | 3991 3024                     |
| 48 VAC      | 3990 3048                     | 3991 3048                     |
| 110 VAC     | 3990 3110                     | 3991 3110                     |
| 230 V a.c.  | 3990 3220                     | 3991 3220                     |
| 400 VAC     | 3990 3380                     | 3991 3380                     |
| 12 VDC      | 3990 4012                     | 3991 4012                     |
| 5A / 24 VDC | 3990 4024                     | 3991 4024                     |
| 48 VDC      | 3990 4048                     | 3991 4048                     |
| 110 VDC     | 3990 4110                     | 3991 4110                     |
| 220 VDC     | 3990 4220                     | 3991 4220                     |

#### Use

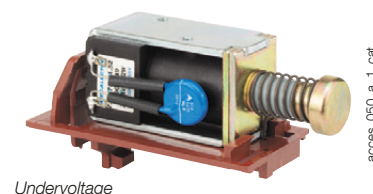
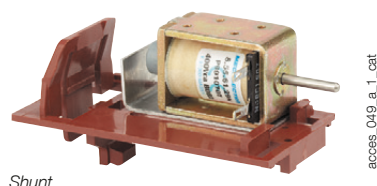
Omnipolar breaking remotely controlled by a shunt trip or undervoltage release coil.

Note: the shunt trip coil must not be supplied for more than 5s.

Coil mounted as standard on the device: shunt trip coil. To modify the coil, order one of the references opposite with the device.

#### Examples of ordering:

- FUSOMAT with shunt trip coil 230 VAC - 1 reference: FUSOMAT 250 A, 3-pole, front operation, reference 3650 3026.
- FUSOMAT with another coil type or voltage - 2 references: FUSOMAT 250 A, 3-pole, front operation with 110 VAC undervoltage trip coil: 3650 3026 + 3991 3110.



### Current-reducing resistor for undervoltage trip coil

#### Use

By limiting the current, the resistor reduces the effects on undervoltage trip coils used in continuous processes or those exposed to high ambient temperatures.

| Premim. | Reference |
|---------|-----------|
| 110 VAC | 3999 3112 |
| 230 VAC | 3999 3230 |
| 400 VAC | 3999 3400 |
| 110 VDC | 3999 4110 |

## Fuse blown indication

### Use

For DIN fuse cartridge with striker.

### Electrical principle

An NO/NC auxiliary contact detects fuse blowing.

### Connection to the control circuit

By 6.35 mm fast-on terminal.

### Electrical Rating

30,000 operations.

| NO/NC changeover contact |             |                 |           |
|--------------------------|-------------|-----------------|-----------|
| Current (A)              | N° of Poles | AC position     | Reference |
| 250... 400               | 3 P         | 1 <sup>st</sup> | 3994 1304 |
| 250... 400               | 4 P         | 1 <sup>st</sup> | 3994 1404 |
| 630                      | 3 P         | 1 <sup>st</sup> | 3994 1306 |
| 630                      | 4 P         | 1 <sup>st</sup> | 3994 1406 |
| 800 ... 1250             | 3 P         | 1 <sup>st</sup> | 3994 1312 |
| 800 ... 1250             | 4 P         | 1 <sup>st</sup> | 3994 1412 |
| 250 ... 1250             | 3/4 P       | 2 <sup>nd</sup> | 3994 1902 |

### Features

| Current (A)  | Current nominal (A) | Operating current I <sub>e</sub> (A) |                  |                      |                 |
|--------------|---------------------|--------------------------------------|------------------|----------------------|-----------------|
|              |                     | 250 VAC<br>AC-13                     | 400 VAC<br>AC-13 | 5A / 24 VDC<br>DC-13 | 48 VDC<br>DC-13 |
| 250 ... 1250 | 16                  | 12                                   | 8                | 12                   | 2               |

## Terminal Shrouds

### Use

Top or bottom protection from direct contact with terminals or connection parts.

### Advantage

Perforations allow remote thermographic inspection without the need to remove the shrouds.

### For FUSOMAT

| Current (A) | N° of Poles | Position      | Reference                |
|-------------|-------------|---------------|--------------------------|
| 250... 400  | 3 P         | top or bottom | 3998 3040 <sup>(1)</sup> |
| 250... 400  | 4 P         | top or bottom | 3998 4040 <sup>(2)</sup> |
| 630         | 3 P         | top or bottom | 3998 3063 <sup>(1)</sup> |
| 630         | 4 P         | top or bottom | 3998 4063 <sup>(2)</sup> |

(1) Reference comprises 3 parts.

(2) Reference comprises 4 parts.



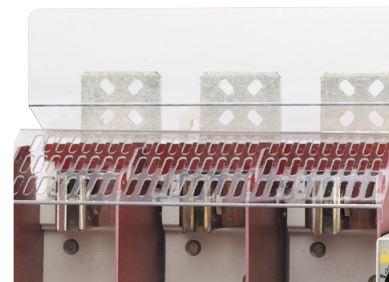
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## Terminals protection screen

### Use

Top or bottom protection against direct contact with terminals or connecting parts.

| Current (A)  | N° of Poles | Position | Reference |
|--------------|-------------|----------|-----------|
| 800 ... 1250 | 3 P         | Top      | 3998 3120 |
| 800 ... 1250 | 4 P         | Top      | 3998 4120 |
| 800 ... 1250 | 3/4 P       | Bottom   | included  |



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250 A to 1250 A

## Accessories (continued)

### Inter-phase barrier

#### Use

Safety isolation between the terminals, essential for use at 690 VAC or in a polluted or dusty atmosphere.

| Current (A)  | N° of Poles | Reference |
|--------------|-------------|-----------|
| 800 ... 1250 | 3 P         | 2998 0003 |
| 800 ... 1250 | 4 P         | 2998 0004 |



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### Handle key interlocking accessories

#### Use

- Locking in position 0 of the front operation handle:
- Using a padlock (not supplied) and standard padlocking function of the handle
- Using RONIS 1104 A lock (key BC 3318) to be mounted directly on the padlockable handle
- Using CASTELL K lock (not supplied)
- Using RONIS EL11AP lock (not supplied)

#### Locking using RONIS EL 1104 A lock (supplied)

| Current (A)  | Command      | Reference |
|--------------|--------------|-----------|
| 250 ... 1800 | front direct | 3999 8104 |

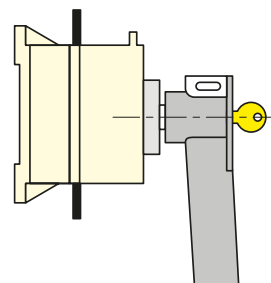
#### Locking using RONIS EL 11AP lock (not included)

| Current (A)   | Command      | Reference                |
|---------------|--------------|--------------------------|
| 250 ... 1800  | handle       | 1499 7701                |
| 1600 ... 1800 | front direct | 3999 6117 <sup>(1)</sup> |

#### Locking using CASTELL K (not supplied)

| Current (A)  | Command | Reference |
|--------------|---------|-----------|
| 250 ... 1250 | handle  | 1499 7702 |

<sup>(1)</sup> For SIDERMAT fuse-combination switches only



RONIS 1104 A lock.

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### Label Holder

#### Use

Recognisable self-adhesive label allowing identification of the devices.

| Dimensions W x H (mm) | To be ordered in multiple of | Reference |
|-----------------------|------------------------------|-----------|
| 18 x 13               | 50                           | 7769 9999 |



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### Other specific accessories

#### Use

- Customised protection screens (for specific dimensions or high ambient temperatures).
- Connection accessories.
- Mounting plates for standard racks
- For specific atmospheric conditions.

## Features

According to IEC 60947-3

|                                                    | <b>FUSOMAT</b> |              |              |              |               |
|----------------------------------------------------|----------------|--------------|--------------|--------------|---------------|
| <b>Thermal current <math>I_{th}</math> (40 °C)</b> | <b>250 A</b>   | <b>400 A</b> | <b>630 A</b> | <b>800 A</b> | <b>1250 A</b> |
| NFC/DIN fuse size                                  | 1              | 2            | 3            | 4            | 4             |
| Rated insulation voltage $U_i$ (V)                 | 1000           | 1000         | 1000         | 1000         | 1000          |
| Rated impulse withstand voltage $U_{imp}$ (kV)     | 12             | 12           | 12           | 12           | 12            |

### Rated operational currents $I_e$ (A)

| <b>Rated voltage</b>   | <b>Load duty category</b> | <b>A/B<sup>(1)</sup></b> | <b>A/B<sup>(1)</sup></b> | <b>A/B<sup>(1)</sup></b> | <b>A/B<sup>(1)</sup></b> | <b>A/B<sup>(1)</sup></b> |
|------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 400 VAC                | AC-21 A / AC-21 B         | 250/250                  | 400/400                  | 630/630                  | 800/800                  | 1250/1250                |
| 400 VAC                | AC-22 A / AC-22 B         | 250/250                  | 400/400                  | 630/630                  | 800/800                  | 1250/1250                |
| 400 VAC                | AC-23 A / AC-23 B         | 250/250                  | 400/400                  | 630/630                  | 800/800                  | 1000/1000                |
| 690 VAC <sup>(2)</sup> | AC-21 A / AC-21 B         | 200/200                  | 315/400                  | 500 /630                 | 800/800                  | 800/1250                 |
| 690 VAC <sup>(2)</sup> | AC-22 A / AC-22 B         | 200/200                  | 315/400                  | 500 /630                 | 800/800                  | 800/1000                 |
| 690 VAC <sup>(2)</sup> | AC-23 A / AC-23 B         | 200/200                  | 250/315                  | 315/400                  | 630/630                  | 630/630                  |
| 220 VDC                | DC-21 A / DC-21 B         | 200/200                  | 315/315                  | 400/630                  | 800/800                  | 800/1250                 |
| 220 VDC                | DC-22 A / DC-22 B         | 200/200                  | 315/315                  | 315/630                  | 800/800                  | 800/1250                 |
| 220 VDC                | DC-23 A / DC-23 B         | 200/200                  | 200/315                  | 400/630                  | 800/800                  | 800/1000                 |
| 440 VDC                | DC-21 A / DC-21 B         | 200/200                  | 315/315                  | 400/630 <sup>(3)</sup>   | 800/800 <sup>(4)</sup>   | 800/1250 <sup>(4)</sup>  |
| 440 VDC                | DC-22 A / DC-22 B         | 200/200                  | 315/315 <sup>(3)</sup>   | 315/630 <sup>(3)</sup>   | 800/800 <sup>(4)</sup>   | 800/1250 <sup>(4)</sup>  |
| 440 VDC                | DC-23 A / DC-23 B         | 200/200                  | 200/315 <sup>(3)</sup>   | 400/630 <sup>(3)</sup>   | 800/800 <sup>(4)</sup>   | 800/1000 <sup>(4)</sup>  |

### Operational power AC-23 (kW) <sup>(1)(5)</sup>

|                                             |         |         |         |         |         |
|---------------------------------------------|---------|---------|---------|---------|---------|
| 400 VAC without pre-break auxiliary contact | 132/132 | 220/220 | 355/355 | 450/450 | 560/560 |
| At 690 VAC without pre-break AC             | 185/185 | 220/295 | 295/400 | 400/400 | 600/600 |

### Reactive power (kvar)

|                                  |     |     |     |     |     |
|----------------------------------|-----|-----|-----|-----|-----|
| At 400 VAC (kvar) <sup>(5)</sup> | 115 | 185 | 290 | 365 | 575 |
|----------------------------------|-----|-----|-----|-----|-----|

### Fuse protected short-circuit withstand with gG DIN fuses

|                                                            |     |     |     |     |       |
|------------------------------------------------------------|-----|-----|-----|-----|-------|
| Prospective short-circuit current (kA rms.) <sup>(6)</sup> | 100 | 100 | 100 | 100 | 100   |
| Associated fuse rating (A) <sup>(6)</sup>                  | 250 | 400 | 630 | 800 | 1,250 |

### Short-circuit operation (switch only)

|                                                       |    |    |    |    |    |
|-------------------------------------------------------|----|----|----|----|----|
| Rated peak withstand current (kA peak) <sup>(6)</sup> | 30 | 45 | 60 | 80 | 80 |
|-------------------------------------------------------|----|----|----|----|----|

### Connection

|                                                   |     |     |            |            |            |
|---------------------------------------------------|-----|-----|------------|------------|------------|
| Minimum Cu cable cross-section (mm <sup>2</sup> ) | 95  | 185 | 2 x 150    |            |            |
| Minimum Cu cable cross-section (mm <sup>2</sup> ) |     |     | 2 x 30 x 5 | 2 x 60 x 5 | 2 x 60 x 5 |
| Minimum Cu cable cross-section (mm <sup>2</sup> ) | 240 | 240 | 2 x 300    | 4 x 185    | 4 x 185    |
| Maximum Cu busbar width (mm)                      | 40  | 40  | 50         | 100        | 100        |
| Tightening torque min (Nm)                        | 20  | 20  | 40         |            | 20         |

### Mechanical Characteristics

|                                        |      |      |      |      |      |
|----------------------------------------|------|------|------|------|------|
| Durability (number of operating cycle) | 8000 | 8000 | 5000 | 5000 | 5000 |
| Weight of a 3-pole device (kg)         | 7    | 8    | 16   | 28   | 28   |
| Weight of a 4-pole device (kg)         | 8.5  | 9.5  | 19   | 33   | 33   |

(1) Category with index A = frequently operated /  
Category with index B = infrequently operated.

(2) With terminal shrouds or terminal screen.

(3) Poles not juxtaposed.

(4) 4-pole device with 2 poles in series per polarity

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

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

# FUSOMAT DIN

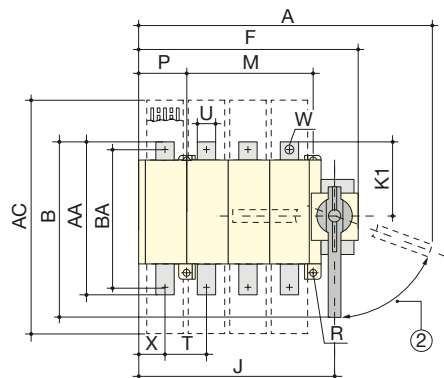
Fuse combination switches with tripping function

250 A to 1250 A

## Dimensions

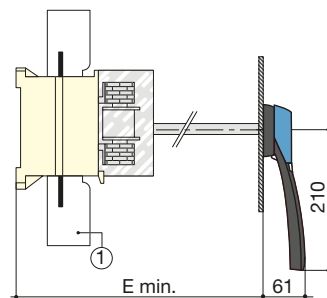
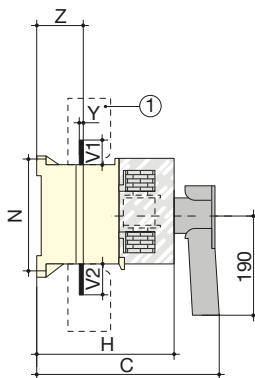
### 250 to 630 A

Direct front operation



1. Terminal shroud.  
2. 70° reset.

External front operation

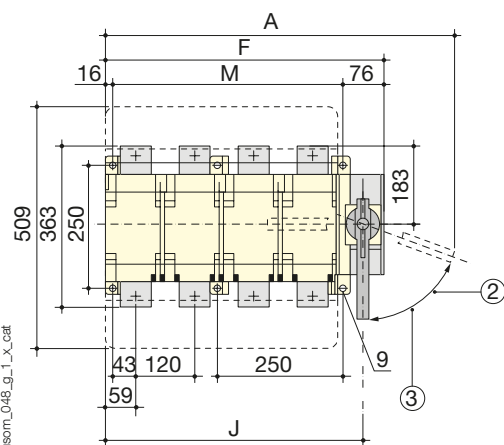


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| Current<br>(A) | Overall dimensions |          |     |     |          | Terminal<br>Shrouds | Body |          |          |     |          |          |     | Switch mounting |    |          |          |    | Connection |    |    |    |    |          |          |    |     |     |
|----------------|--------------------|----------|-----|-----|----------|---------------------|------|----------|----------|-----|----------|----------|-----|-----------------|----|----------|----------|----|------------|----|----|----|----|----------|----------|----|-----|-----|
|                | A<br>3p.           | A<br>4p. | B   | C   | E<br>min |                     | AC   | F<br>3p. | F<br>4p. | H   | J<br>3p. | J<br>4p. | K1  | M               | N  | P<br>3p. | P<br>4p. | R  | T          | U  | V1 | V2 | W  | X<br>3p. | X<br>4p. | Y  | Z   | AA  |
| 250            | 435                | 495      | 305 | 307 | 228      | 388                 | 285  | 345      | 221      | 253 | 313      | 115      | 210 | 180             | 10 | 70       | 7        | 65 | 32         | 35 | 43 | 11 | 51 | 46       | 3        | 67 | 238 | 208 |
| 400            | 435                | 495      | 305 | 307 | 228      | 388                 | 285  | 345      | 221      | 253 | 313      | 115      | 210 | 180             | 10 | 70       | 7        | 65 | 32         | 35 | 43 | 13 | 51 | 46       | 5        | 69 | 238 | 208 |
| 630            | 491                | 570      | 350 | 348 | 276      | 470                 | 346  | 425.5    | 268      | 308 | 388      | 150      | 250 | 250             | 20 | 100      | 9        | 80 | 50         | 50 | 50 | 13 | 65 | 65       | 7        | 72 | 300 | 260 |

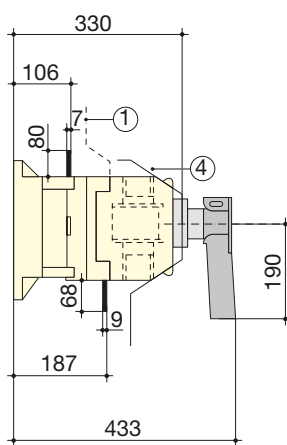
### 800 to 1250 A

Direct front operation

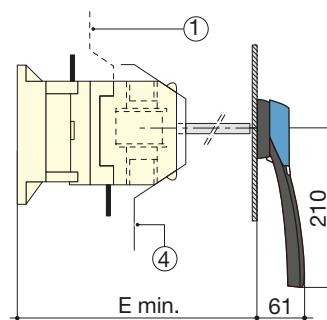


1. Top terminals screen  
2. 70° reset.

External front operation



3. 65° padlock  
4. Front protective screen.



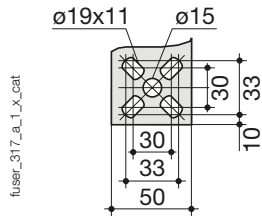
| Current (A) | Overall dimensions |       |       | Body  |       |       |       | Switch mounting |       |
|-------------|--------------------|-------|-------|-------|-------|-------|-------|-----------------|-------|
|             | A 3p.              | A 4p. | E min | F 3p. | F 4p. | J 3p. | J 4p. | M 3p.           | M 4p. |
| 800         | 582                | 702   | 416   | 437   | 557   | 399.5 | 519.5 | 345             | 465   |
| 1,250       | 582                | 702   | 416   | 437   | 557   | 399.5 | 519.5 | 345             | 465   |

## A connection terminals

### FUSOMAT

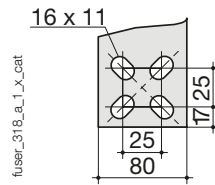
#### 800 A

Top and bottom



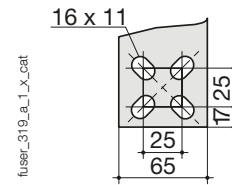
#### 1250 A

Top



#### 1250 A

Bottom



## Dimensions for external handles

### FUSOMAT

250 to 1250 A

| Handle type        | Front operation     |               | Lateral operation   |               |
|--------------------|---------------------|---------------|---------------------|---------------|
|                    | Operating direction | Door drilling | Operating direction | Door drilling |
| <b>Type S3</b><br> |                     |               |                     |               |