

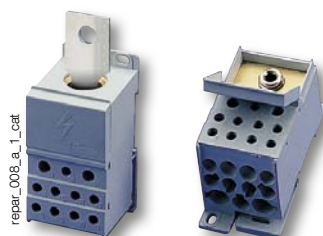


# Distribution blocks

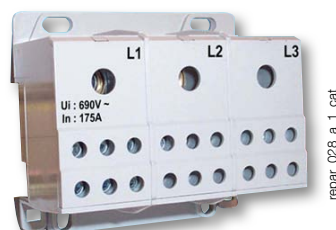
## Distribution



Distribution blocks for  
SOCOMEC disconnection devices



Unipolar distribution blocks



Multipolar distribution blocks

### The solution for

- > Electrical distribution



### Conformity to standards

- > IEC 61439-1
- > NF C 20455



## Function

SOCOMEC **distribution blocks** allow easy connection of conductors. They are installed downstream of a load break switch, a changeover switch or a fuse-combination switch.

## Characteristics

### General characteristics

- Insulation voltage:
  - ferrules terminal distribution block: 500 V,
  - modular row terminal distribution block: 690 V,
  - wire-terminal distribution block: 1000 V.
- Impulse voltage:
  - ferrules terminal distribution block: 6 kV,
  - modular row terminal distribution block: 6 kV,
  - wire-terminal distribution block: 8 kV.
- Self-extinguishing: 960 °C.

### Composition of the range

- 7 ratings from 80 to 360 A in 1, 2, 3 and 4 poles.
- 2 connection modes:
  - direct or ferrules,
  - cable lugs.

## Direct or cable connection

### Bridge multipolar distribution block

#### References

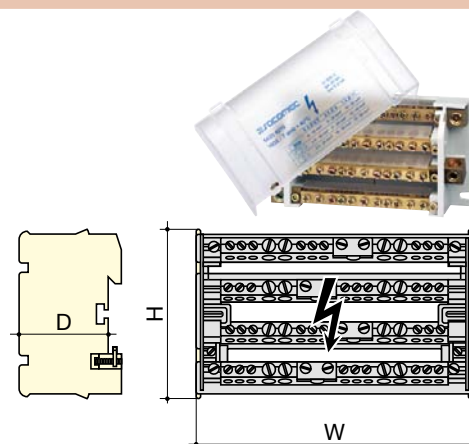
| Rating (A) | No. of poles | No of feeders per section (mm <sup>2</sup> ) | Dimensions H x W x D (mm) | I <sub>cc</sub> (kA rms) <sup>(1)</sup> | Reference |
|------------|--------------|----------------------------------------------|---------------------------|-----------------------------------------|-----------|
| 125        | 3/4 P        | 2x25 + 7x10                                  | 85 x 88 x 48              | 3                                       | 5420 4108 |
| 125        | 3/4 P        | 2x25 + 2x16 + 9x10                           | 85 x 129 x 48             | 4.2                                     | 5420 4112 |
| 160        | 3/4 P        | 1x35 + 3x25 + 8x16 <sup>(2)</sup>            | 90 x 160.5 x 50           | 6.2                                     | 5420 4016 |

(1) Short circuit withstand (rms value) 1 second.

(2) Maximum section of flexible cable.

#### Dimensions

| Rating (A) | H (mm) | W (mm) | D (mm) |
|------------|--------|--------|--------|
| 125        | 98     | 74.5   | 45     |
| 175        | 80     | 71.5   | 42.5   |



repar\_027\_a\_2\_cat

repar\_009\_a\_1\_gb\_cat

Direct or cable connection distribution blocks which can be clipped onto a symmetric DIN rail.

### Monoblock multipolar distribution block

#### References

| Rating (A) | No. of poles | Dimensions H x W x D (mm) | Reference |
|------------|--------------|---------------------------|-----------|
| 125        | 4 P          | 98 x 74.5 x 45            | 5410 4112 |
| 175        | 3 P          | 80 x 71.5 x 42.5          | 5410 3017 |



repar\_009\_a\_1\_cat

### Unipolar distribution blocks

#### References

| Rating (A) | Switch mounting N (mm) | I <sub>cc</sub> (kA rms) | Reference |
|------------|------------------------|--------------------------|-----------|
| 80         | 56.5                   | 1.9                      | 5410 1008 |
| 125        | 65                     | 4.4                      | 5410 1012 |
| 175        | 60.5                   | 11                       | 5410 1017 |
| 250        | 86                     | 21                       | 5410 1025 |
| 400        | 86                     | 21                       | 5410 1040 |

| Description of accessories                 | Reference |
|--------------------------------------------|-----------|
| Connection for rating 250 A <sup>(1)</sup> | 5410 0025 |
| Connection for rating 400 A <sup>(1)</sup> | 5410 0040 |

(1) Linking part enabling direct assembly on the connecting lugs of the switching device.

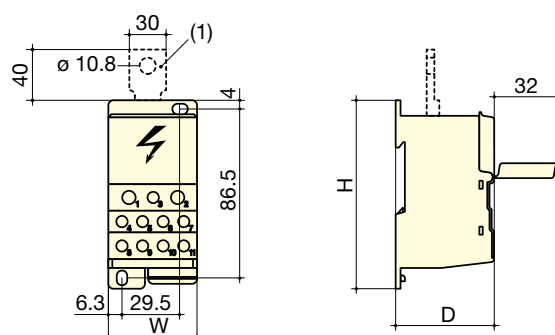
#### Dimensions

| Rating (A) | Dimensions H x W x D (mm) | I <sub>cc</sub> (kA rms) <sup>(1)</sup> |
|------------|---------------------------|-----------------------------------------|
| 80         | 66 x 27 x 47              | 1.9                                     |
| 125        | 74.5 x 27 x 46.5          | 4.4                                     |
| 175        | 71 x 45 x 43.5            | 11                                      |
| 250        | 96 x 45 x 50              | 21                                      |
| 400        | 96 x 45 x 50              | 21                                      |

(1) Short circuit withstand (rms value) 1 second.

#### Connections

| Rating (A) | Power supply section (mm <sup>2</sup> )                                      | No of phases per section (mm <sup>2</sup> ) |
|------------|------------------------------------------------------------------------------|---------------------------------------------|
| 80         | < 16                                                                         | 4 x 6 + 2 x 16                              |
| 125        | < 35                                                                         | 6 x 2.5 to 16                               |
| 175        | 16 ... 70                                                                    | 10 x 2.5 to 16                              |
| 250        | 35 ... 120                                                                   | 2 x 25 + 5 x 16 + 4 x 10                    |
| 400        | 95 ... 185                                                                   | 2 x 25 + 5 x 16 + 4 x 10                    |
| 125        | Phase: 5 x 1 to 6 + 2 x 1.5 to 10 /<br>Neutral: 6 x 1.5 to 10 + 4 x 1.5 to 6 |                                             |
| 175        | 6 x 2.5 to 16                                                                |                                             |



repar\_008\_a\_2\_cat

repar\_010\_c\_1\_gb\_cat

Direct or cable connection distribution blocks, IP20 which can be clipped onto a symmetric DIN rail.

### Earth bar

#### References

| Mounting by | No of feeders per section (mm <sup>2</sup> ) | Material | W (mm) | To be ordered in multiples of | Reference |
|-------------|----------------------------------------------|----------|--------|-------------------------------|-----------|
| 2 self M4   | 10 x 16 + 2 x 35                             | brass    | 120    | 10                            | 5414 0120 |
| 2 self M6   | 41 x 16 + 2 x 35                             | brass    | 470    | 10                            | 5414 0470 |



barre\_006\_a\_2\_cat

# Distribution blocks

## Distribution

### Row distribution blocks

#### Row distribution block with IP20 connectors

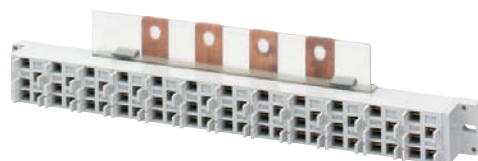
##### References

| Rating (A)         | Length | With connector leads <sup>(1)</sup> | Icc (kA rms) | Reference |
|--------------------|--------|-------------------------------------|--------------|-----------|
| 250 <sup>(2)</sup> | 1 row  | yes                                 | 10           | 5420 2426 |
| 250 <sup>(2)</sup> | 1 row  | no                                  | 10           | 5421 2426 |

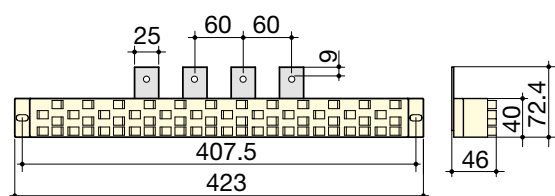
(1) Delivered with 6 mm<sup>2</sup> connector leads, L = 120 mm, 12 black connectors, 12 blue connectors.  
 (2) Preferably the terminations will be distributed over the entire number of terminals.

##### Dimensions

| Cables and connectors |                                     |             |        |                               |           |
|-----------------------|-------------------------------------|-------------|--------|-------------------------------|-----------|
| Rating (A)            | Type                                | Length (mm) | Colour | To be ordered in multiples of | Reference |
| 40                    | 6 mm <sup>2</sup> cable             | 120         | Blue   | 10                            | 5421 1006 |
| 40                    | 6 mm <sup>2</sup> cable             | 120         | Black  | 10                            | 5421 1016 |
| 40                    | 6 mm <sup>2</sup> cable             | 320         | Blue   | 10                            | 5421 1106 |
| 40                    | 6 mm <sup>2</sup> cable             | 320         | Black  | 10                            | 5421 1116 |
| 63                    | 10 mm <sup>2</sup> cable            | 320         | Blue   | 10                            | 5421 1101 |
| 63                    | 10 mm <sup>2</sup> cable            | 320         | Black  | 10                            | 5421 1111 |
|                       | 1.5 - 2.5 mm <sup>2</sup> connector |             |        | 20                            | 5421 0025 |
|                       | 4 - 6 mm <sup>2</sup> connector     |             |        | 20                            | 5421 0125 |



repair\_028\_a\_2\_cat



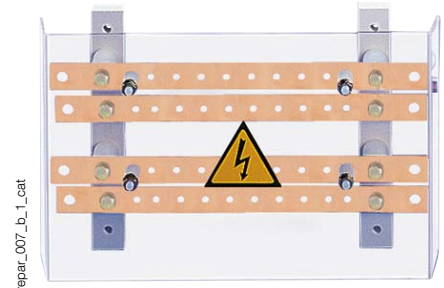
repair\_029\_a\_1\_x\_cat

## Terminal connections

### Multipolar distribution blocks

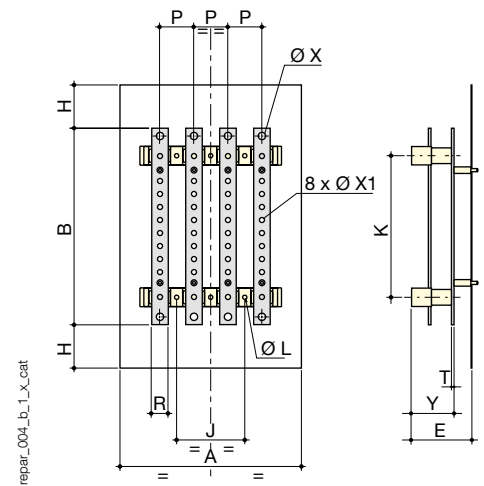
#### References

| Rating (A) | No. of poles | Icc (kA rms) | No of feeders per section (mm <sup>2</sup> ) | Reference |
|------------|--------------|--------------|----------------------------------------------|-----------|
| 160        | 3 P          | 10           | 2 x 95 + 8 x 25                              | 5412 3016 |
| 160        | 4 P          | 10           | 2 x 95 + 8 x 25                              | 5412 4016 |
| 250        | 3 P          | 15           | 2 x 150 + 8 x 50                             | 5412 3025 |
| 250        | 4 P          | 15           | 2 x 150 + 8 x 50                             | 5412 4025 |
| 400        | 3 P          | 21           | 2 x 240 + 8 x 95                             | 5412 3040 |
| 400        | 4 P          | 21           | 2 x 240 + 8 x 95                             | 5412 4040 |
| 630        | 3 P          | 21           | 2 x 300 + 8 x 150                            | 5412 3063 |
| 630        | 4 P          | 21           | 2 x 300 + 8 x 150                            | 5412 4063 |



#### Dimensions

| Rating (A) | No. of poles | A   | B   | E   | H    | J   | K   | ØL  | P  | R  | T | ØX   | ØX1  | Y  |
|------------|--------------|-----|-----|-----|------|-----|-----|-----|----|----|---|------|------|----|
| 160        | 3 P          | 154 | 286 | 73  | 46.5 | 122 | 207 | 6.5 | 36 | 20 | 4 | 9    | 6    | 54 |
| 160        | 4 P          | 190 | 286 | 73  | 46.5 | 158 | 207 | 6.5 | 36 | 20 | 4 | 9    | 6    | 54 |
| 250        | 3 P          | 210 | 307 | 83  | 57.5 | 50  | 222 | 7   | 50 | 25 | 4 | 11   | 8    | 56 |
| 250        | 4 P          | 260 | 307 | 83  | 57.5 | 100 | 222 | 7   | 50 | 25 | 4 | 11   | 8    | 56 |
| 400        | 3 P          | 281 | 375 | 116 | 82.5 | 65  | 270 | 8   | 65 | 32 | 5 | 14.5 | 8.5  | 82 |
| 400        | 4 P          | 346 | 375 | 116 | 82.5 | 130 | 270 | 8   | 65 | 32 | 5 | 14.5 | 8.5  | 82 |
| 630        | 3 P          | 271 | 438 | 117 | 90.5 | 65  | 333 | 8   | 65 | 40 | 6 | 14.5 | 10.5 | 83 |
| 630        | 4 P          | 346 | 438 | 117 | 90.5 | 130 | 333 | 8   | 65 | 40 | 6 | 14.5 | 10.5 | 83 |



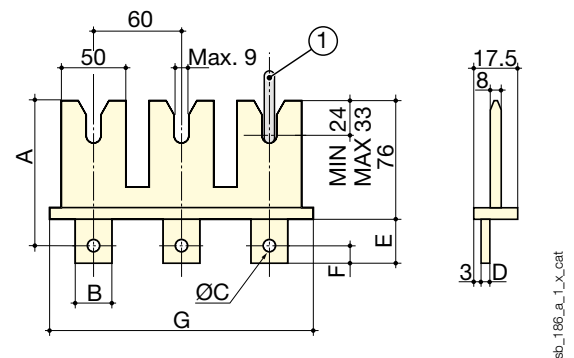
Terminal connections distribution blocks with front protection cover against direct contact.

### Plug-in unit for 5 to 6.3 mm bars

#### References

| Rating (A) | No. of poles | Reference |
|------------|--------------|-----------|
| 125/160    | 3 P          | 3699 3P16 |
| 125/160    | 4 P          | 3699 3P16 |
| 250/400    | 3 P          | 3699 3P39 |
| 250/400    | 4 P          | 3699 6P39 |
| 630/800    | 3 P          | 3699 3P80 |
| 630/800    | 4 P          | 3699 6P80 |

| Rating (A) | No. of poles | A     | B  | C   | D | E  | F    | G   |
|------------|--------------|-------|----|-----|---|----|------|-----|
| 125/160    | 3 P          | 99    | 20 | M8  | 3 | 23 | 10   | 186 |
| 125/160    | 4 P          | 99    | 20 | M8  | 3 | 23 | 10   | 248 |
| 250/400    | 3 P          | 101.5 | 25 | M10 | 4 | 28 | 12.5 | 186 |
| 250/400    | 4 P          | 101.5 | 25 | M10 | 4 | 28 | 12.5 | 248 |
| 630/800    | 3 P          | 101.5 | 25 | M10 | 4 | 28 | 12.5 | 186 |
| 630/800    | 4 P          | 101.5 | 25 | M10 | 4 | 28 | 12.5 | 248 |



1. Dropper busbar with a thickness of 5 to 6.3 mm.

# Distribution blocks

## Distribution

### Terminal connections (continued)

#### Stair type multipolar distribution blocks

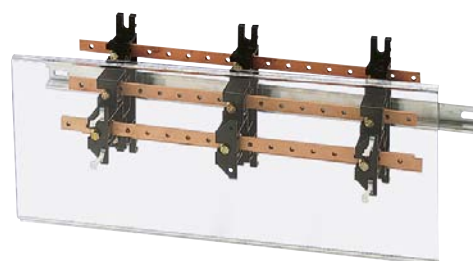
##### References

| Rating (A) | L (mm) | No. of poles | Icc (kA rms) | No. of supports | Distribution block | Protection cover |
|------------|--------|--------------|--------------|-----------------|--------------------|------------------|
|            |        |              |              |                 | Reference          | Reference        |
| 160        | 270    | 4 P          | 25           | 2               | 5028 0421          | 5028 0411        |
| 160        | 420    | 4 P          | 17           | 2               | 5028 0451          | 5028 0412        |
| 160        | 620    | 4 P          | 20           | 3               | 5028 0471          | 5028 0413        |
| 250        | 270    | 4 P          | 30           | 2               | 5028 0423          | 5028 0411        |
| 250        | 420    | 4 P          | 22           | 2               | 5028 0453          | 5028 0412        |
| 250        | 620    | 4 P          | 18           | 3               | 5028 0473          | 5028 0413        |
| 400        | 270    | 4 P          | 24           | 2               | 5028 0425          | 5028 0411        |
| 400        | 420    | 4 P          | 21           | 2               | 5028 0455          | 5028 0412        |
| 400        | 620    | 4 P          | 13           | 3               | 5028 0475          | 5028 0413        |

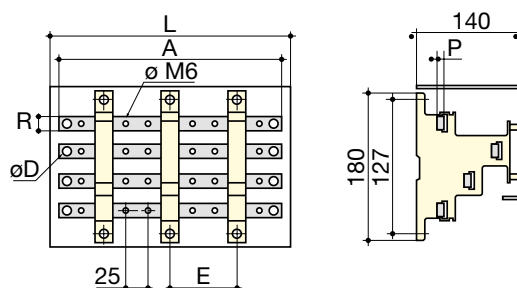
##### Dimensions

| Type                        | Pack qty | Reference |
|-----------------------------|----------|-----------|
| Spacer for protection cover | 1        | 5028 0415 |

| Rating (A) | Nb of terminations | A   | ØD | E   | L   | P | R  |
|------------|--------------------|-----|----|-----|-----|---|----|
| 160        | 9                  | 250 | 8  | 150 | 270 | 5 | 15 |
| 160        | 15                 | 400 | 8  | 300 | 420 | 5 | 15 |
| 160        | 21                 | 600 | 8  | 250 | 620 | 5 | 15 |
| 250        | 9                  | 250 | 10 | 150 | 270 | 5 | 20 |
| 250        | 15                 | 400 | 10 | 300 | 420 | 5 | 20 |
| 250        | 21                 | 600 | 10 | 250 | 620 | 5 | 20 |
| 400        | 8                  | 225 | 12 | 150 | 270 | 5 | 32 |
| 400        | 14                 | 375 | 12 | 300 | 420 | 5 | 32 |
| 400        | 20                 | 620 | 12 | 250 | 620 | 5 | 32 |



repair\_012\_b\_1\_cat



repair\_040\_a\_1\_x\_cat

Stair type distribution blocks with threaded holes. Can be clipped onto a symmetric DIN rail.  
Factory assembled and supplied without protection cover

#### Disconnectable solid neutral links

##### References

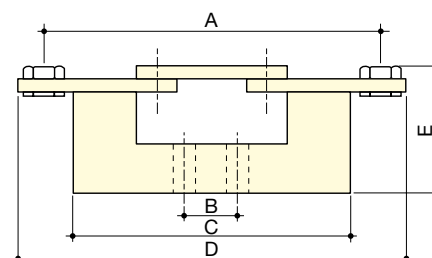
| Rating (A) | Connection type      | Reference |
|------------|----------------------|-----------|
| 160        | Terminal connections | NB16 0000 |
| 250        | Terminal connections | NB16 0000 |
| 400        | Terminal connections | NB40 0000 |
| 630        | Terminal connections | NB63 0000 |



repair\_030\_a\_2\_cat

##### Dimensions

| Rating (A) | A   | B  | C   | D   | E  | Width max. (mm) |
|------------|-----|----|-----|-----|----|-----------------|
| 160        | 100 | 25 | 85  | 117 | 45 | 32              |
| 250        | 150 | 25 | 120 | 173 | 45 | 32              |
| 400        | 176 | 25 | 150 | 200 | 65 | 55              |
| 630        | 210 | 25 | 160 | 240 | 65 | 75              |



shunt\_012\_a\_1\_x\_cat

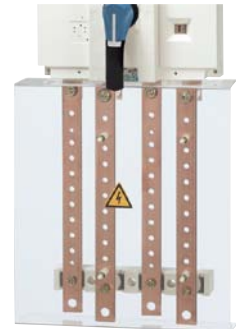
## SIRCO multipolar distribution blocks

### References

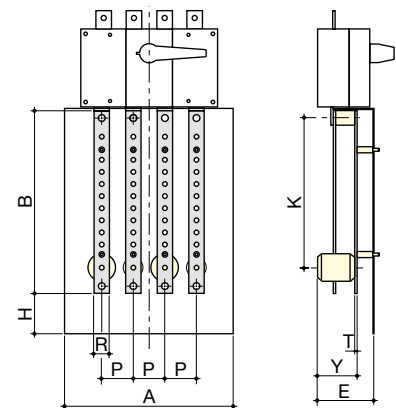
| Rating (A) | No. of poles | Icc (kA rms) | No of feeders per section (mm <sup>2</sup> ) | Reference        |
|------------|--------------|--------------|----------------------------------------------|------------------|
| 160        | 3 P          | 10           | 1 x 95 + 8 x 25                              | 5411 <b>3016</b> |
| 160        | 4 P          | 10           | 1 x 95 + 8 x 25                              | 5411 <b>4016</b> |
| 250        | 3 P          | 15           | 1 x 150 + 8 x 50                             | 5411 <b>3025</b> |
| 250        | 4 P          | 15           | 1 x 150 + 8 x 50                             | 5411 <b>4025</b> |
| 400        | 3 P          | 21           | 1 x 240 + 8 x 95                             | 5411 <b>3040</b> |
| 400        | 4 P          | 21           | 1 x 240 + 8 x 95                             | 5411 <b>4040</b> |
| 630        | 3 P          | 21           | 1 x 300 + 8 x 150                            | 5411 <b>3063</b> |
| 630        | 4 P          | 21           | 1 x 300 + 8 x 150                            | 5411 <b>4063</b> |

### Dimensions

| Rating (A) | No. of poles | A   | B   | E   | H    | K     | P  | R  | T | Y  |
|------------|--------------|-----|-----|-----|------|-------|----|----|---|----|
| 160        | 3 P          | 154 | 286 | 73  | 46.5 | 261.5 | 36 | 20 | 4 | 54 |
| 160        | 4 P          | 190 | 286 | 73  | 46.5 | 261.4 | 36 | 20 | 4 | 54 |
| 250        | 3 P          | 210 | 307 | 83  | 57.5 | 279   | 50 | 25 | 4 | 56 |
| 250        | 4 P          | 260 | 307 | 83  | 57.5 | 279   | 50 | 25 | 4 | 56 |
| 400        | 3 P          | 281 | 375 | 116 | 82.5 | 340   | 65 | 32 | 5 | 82 |
| 400        | 4 P          | 346 | 375 | 116 | 82.5 | 340   | 65 | 32 | 5 | 82 |
| 630        | 3 P          | 271 | 438 | 117 | 90.5 | 410.5 | 65 | 40 | 6 | 83 |
| 630        | 4 P          | 346 | 438 | 117 | 90.5 | 410.5 | 65 | 40 | 6 | 83 |



repar\_020\_b\_1\_cat



repar\_003\_c\_1\_x\_cat

Terminal connections distribution blocks with front protection cover against direct contact (breaking device not supplied).

## Multipolar distribution blocks for FUSERBLOC and SIRCO VM2

### References

| Rating (A)  | Fuse size | No. of poles | Device    | No of feeders per section (mm <sup>2</sup> ) | Reference                      |
|-------------|-----------|--------------|-----------|----------------------------------------------|--------------------------------|
| 100/125/160 | 22x58/00  | 3 P          | FUSERBLOC | 10x16 + 2x35 + 3xM6                          | 5413 <b>3016</b>               |
| 100/125/160 | 22x58/00  | 4 P          | FUSERBLOC | 10x16 + 2x35 + 3xM6                          | 5413 <b>4016</b>               |
| 160         | 0         | 3 P          | FUSERBLOC | 10x16 + 2x35 + 3xM6                          | 5413 <b>3017</b>               |
| 160         | 0         | 4 P          | FUSERBLOC | 10x16 + 2x35 + 3xM6                          | 5413 <b>4017</b>               |
| 250         | 1         | 3 P          | FUSERBLOC | 11 x M8                                      | 5413 <b>3025</b>               |
| 250         | 1         | 4 P          | FUSERBLOC | 11 x M8                                      | 5413 <b>4025</b>               |
| 400         | 2         | 3 P          | FUSERBLOC | 11 x M8                                      | 5413 <b>3040<sup>(1)</sup></b> |
| 400         | 2         | 4 P          | FUSERBLOC | 11 x M8                                      | 5413 <b>4040<sup>(1)</sup></b> |
| 160/200     |           | 3 P          | SIRCO VM2 | 10x16 + 2x35 + 3xM6                          | 5413 <b>3020</b>               |
| 160/200     |           | 4 P          | SIRCO VM2 | 10x16 + 2x35 + 3xM6                          | 5413 <b>4020</b>               |

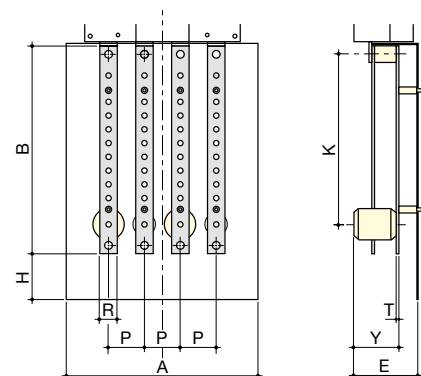
(1) External distribution block only compatible avec Fuserbloc rating 400 A and reference 3xxx xx39.

### Dimensions

| Rating (A)  | No. of poles | Device    | A   | B   | E  | H  | K   | P    | R  | T | Y  |
|-------------|--------------|-----------|-----|-----|----|----|-----|------|----|---|----|
| 100/125/160 | 3 P          | FUSERBLOC | 110 | 260 | 61 | 20 | 233 | 36   | 20 | 4 | 39 |
| 100/125/160 | 4 P          | FUSERBLOC | 145 | 260 | 61 | 20 | 233 | 36   | 20 | 4 | 39 |
| 160         | 3 P          | FUSERBLOC | 150 | 260 | 61 | 20 | 233 | 50   | 20 | 4 | 39 |
| 160         | 4 P          | FUSERBLOC | 200 | 260 | 61 | 20 | 233 | 50   | 20 | 4 | 39 |
| 250         | 3 P          | FUSERBLOC | 185 | 340 | 67 | 15 | 300 | 60   | 32 | 5 | 45 |
| 250         | 4 P          | FUSERBLOC | 245 | 340 | 67 | 15 | 300 | 60   | 32 | 5 | 45 |
| 400         | 3 P          | FUSERBLOC | 210 | 340 | 67 | 15 | 300 | 66   | 32 | 5 | 45 |
| 400         | 4 P          | FUSERBLOC | 275 | 340 | 67 | 15 | 300 | 66   | 32 | 5 | 45 |
| 160/200     | 3 P          | SIRCO VM2 | 142 | 260 | 61 | 20 | 233 | 27.5 | 20 | 4 | 39 |
| 160/200     | 4 P          | SIRCO VM2 | 142 | 260 | 61 | 20 | 233 | 27.5 | 20 | 4 | 39 |



repar\_013\_a\_2\_cat



repar\_041\_a\_1\_x\_cat