

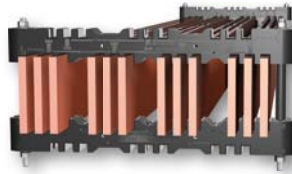


Busbar supports

Busbar

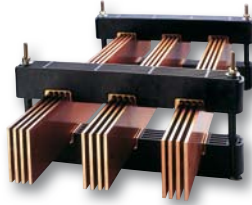
Enclosures & accessories

new



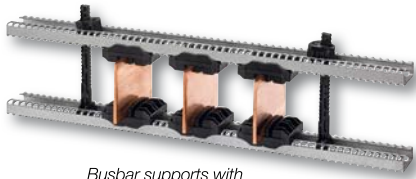
Fixed interphase, SB C 15

sb_214_a_1_cat.eps



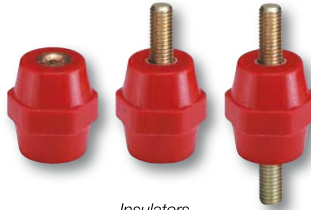
Busbar supports with fixed interphase

sb_077_a_1_cat.eps



Busbar supports with adjustable interphase

sb_195_a_1_cat.eps



Insulators

sb_103_a_1_cat.eps

The solution for

- > Power distribution



Conformity to standards

- > IEC 61439-1
- > IEC 60865-1



Approvals and certifications⁽¹⁾

- > ASEFA/LCIE



Available on request

- > Please consult us

Function

SOCOMEK **insulating busbar supports** allow the fixation of a copper or aluminium bar or busbar.

Characteristics

Insulators

- Polyester without halogene.
- UL94 VO self-extinguishable.
- Colour red RAL 3002.
- Operating temperature from 40°C to + 130°C.
- Deformation under load temperature (ASTM D643): > 200 °C.
- Dielectric constant (ASTM D150): 4/5.
- Arc resistance (ASTM D495): > 180 s.
- Water absorption (ASTM D570): < 0.3 %.

Busbar support

- High dielectric strength.
- High mechanical resistance.
- Amagnetism of assembly parts.
- High resistance to damp heat (supplied "tropicalised").

Software tool for size selection

Mechanical systems is a software which is used to size bar sets. It defines the optimum busbar configuration depending on the electrical characteristics of the panel, in compliance with standard IEC 61439-1. It runs in a Windows® 95, 98, 2000, NT ou XP environment.

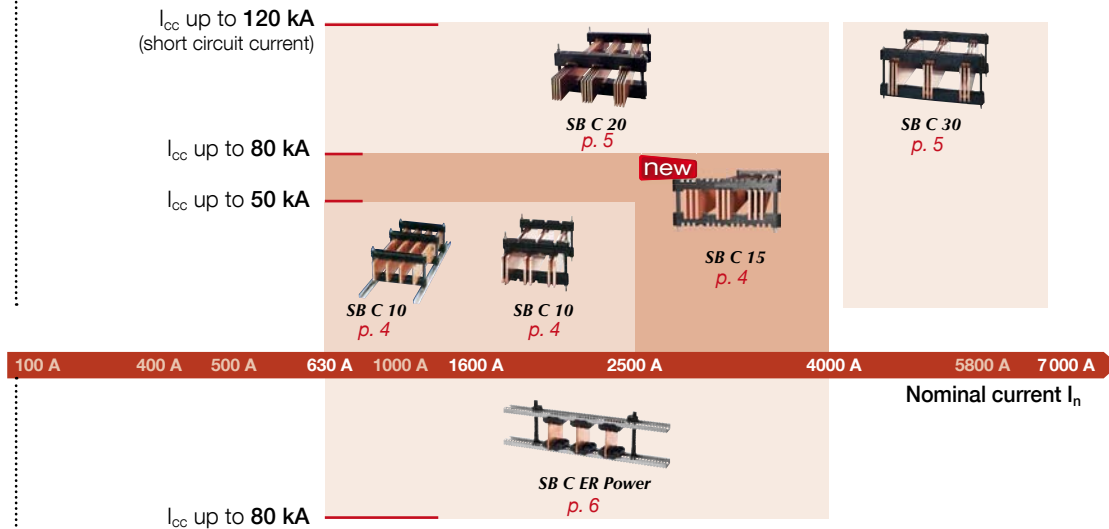


sb_201_b_1_fr_cat.eps

Selection guide

Edgewise mounting

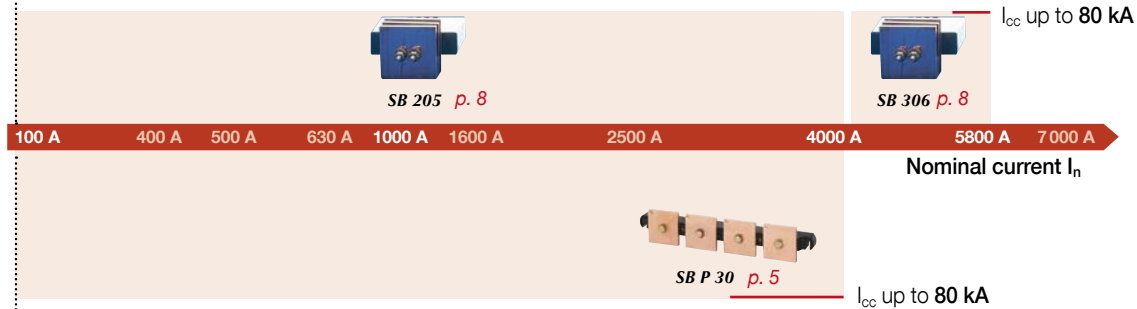
• Busbar supports with **fixed interphase**



• Busbar supports with **adjustable interphase**

Flat mounting

• **Unipolar** busbar supports



• **Multipolar** busbar supports

Other supports

• **Unipolar** busbar supports



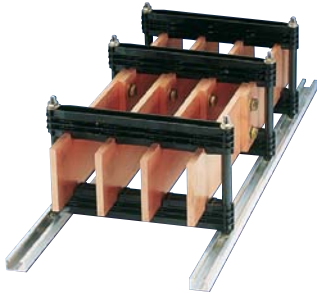
Busbar supports

Busbar

Edgewise mounting busbar support fixed interphase

SB C 10

References



sb_061_b_2_cat.eps

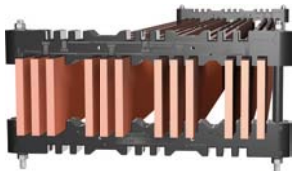
| No. of poles | No. of maximum bars | Reference |
|--------------|---------------------|-----------|
| 3 | 2x5 / 1x10 | 5024 6300 |
| 4 | 2x5 / 1x10 | 5024 6500 |
| 3 | 1x10 / 2x10 | 5024 6400 |
| 4 | 1x10 / 2x10 | 5024 6600 |

Characteristics

| peak I _{sc} | 3 & 4 poles with 5 mm bars | | | | | | 3 & 4 poles with 10 mm bars | | | | | |
|--------------------------|---------------------------------------------|-------|-------|-------|-------|--------------------|-----------------------------|-------|-------|-------|-------|--------------------|
| | 15 kA | 24 kA | 48 kA | 63 kA | 82 kA | I _z (A) | 15 kA | 24 kA | 48 kA | 63 kA | 82 kA | I _z (A) |
| rms I _{sc} (1s) | 9 kA | 12 kA | 23 kA | 30 kA | 39 kA | | 9 kA | 12 kA | 23 kA | 30 kA | 39 kA | |
| Bars x no. | Max distance between 2 busbar supports (mm) | | | | | | | | | | | |
| 25x1 | 775 | 475 | 225 | 175 | 140 | 330 | 1000 | 1000 | 500 | 375 | 275 | |
| 25x2 | 675 | 425 | 200 | 160 | 125 | 590 | 1000 | 1000 | 525 | 400 | 300 | 850 |
| 50x1 | 1000 | 700 | 350 | 250 | 200 | 600 | 1000 | 1000 | 725 | 550 | 425 | 850 |
| 50x2 | 1000 | 675 | 325 | 250 | 200 | 1050 | 1000 | 1000 | 800 | 600 | 475 | 1550 |
| 80x1 | 1000 | 950 | 475 | 350 | 225 | 900 | 1000 | 1000 | 975 | 725 | 550 | 1300 |
| 80x2 | 1000 | 975 | 475 | 375 | 275 | 1550 | 1000 | 1000 | 1000 | 850 | 650 | 2300 |
| 100x1 | 1000 | 1000 | 550 | 400 | 225 | 1100 | 1000 | 1000 | 1000 | 850 | 650 | 1550 |
| 100x2 | 1000 | 1000 | 575 | 425 | 325 | 1900 | 1000 | 1000 | 1000 | 975 | 675 | 2750 |

SB C 15

References



sb_214_a_1_cat.psd

| No. of poles | No. of maximum bars | Bars thickness | Reference |
|--------------|---------------------|----------------|-----------|
| 3 / 4 | 1 ... 3 | 10 | 5024 4501 |

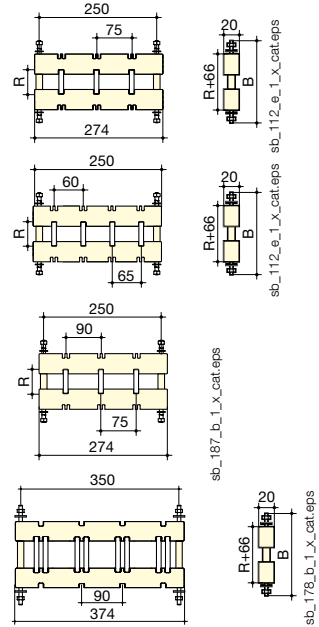
Characteristics

Characteristics of 3 and 4 poles with bars of 10 mm for SB C 15

| peak I _{sc} | L max. (support bars in mm) for | | | | | | D (mm) | I _z (A) ⁽¹⁾ |
|----------------------|---------------------------------|-------|--------|--------|--------|--------|--------|-----------------------------------|
| | 63 kA | 82 kA | 114 kA | 152 kA | 165 kA | 176 kA | | |
| rms I _{sc} | 30 kA | 39 kA | 52 kA | 69 kA | 75 kA | 80 kA | | |
| Bar x qty | | | | | | | | |
| 40 x 10 x 1 | 1000 | 1000 | 600 | 225 | 200 | 200 | 90 | 700 |
| 40 x 10 x 2 | 1000 | 1000 | 600 | 225 | 200 | 200 | 90 | 1250 |
| 40 x 10 x 3 | 1000 | 1000 | 600 | 225 | 225 | 200 | 90 | 1800 |
| 50 x 10 x 1 | 1000 | 1000 | 600 | 225 | 200 | 200 | 90 | 850 |
| 50 x 10 x 2 | 1000 | 1000 | 600 | 225 | 200 | 200 | 90 | 1550 |
| 50 x 10 x 3 | 1000 | 1000 | 600 | 250 | 200 | 200 | 90 | 2150 |
| 80 x 10 x 1 | 1000 | 1000 | 600 | 275 | 225 | 225 | 90 | 1300 |
| 80 x 10 x 2 | 1000 | 1000 | 600 | 275 | 225 | 225 | 90 | 2300 |
| 80 x 10 x 3 | 1000 | 1000 | 600 | 275 | 225 | 225 | 90 | 3200 |
| 100 x 10 x 1 | 1000 | 1000 | 650 | 300 | 250 | 225 | 90 | 1550 |
| 100 x 10 x 2 | 1000 | 1000 | 650 | 300 | 250 | 225 | 90 | 2750 |
| 100 x 10 x 3 | 1000 | 1000 | 650 | 300 | 250 | 225 | 90 | 3250 |

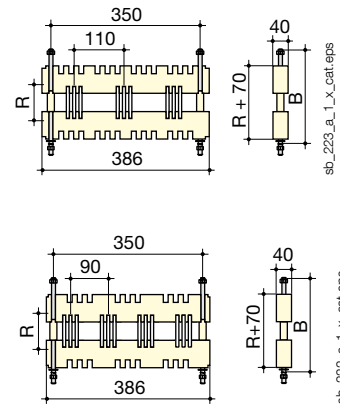
(1) Admissible busbar nominal current with a temperature inside the panel of between 45°C and 80°C. For other mounting configurations, please contact us.

Dimensions



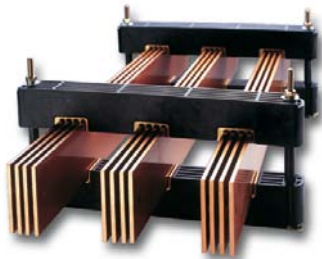
- Fixed interphase:
- 3 poles: 75 mm
 - 4 poles 5 mm: 60 mm
 - 4 poles 10 mm: 65 mm.
- Fixed interphase:
- 3 poles 1 x 10 mm: 75 mm
 - 3 poles 2 x 10 mm: 90 mm
 - 4 poles 1 or 2 x 10 mm: 90 mm.

Dimensions



SB C 20

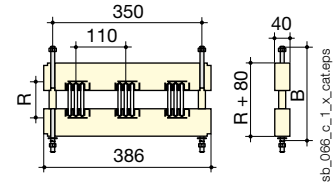
References



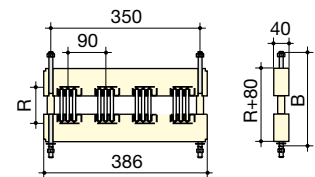
sb_077_a_1_cat.eps

| No. of poles | No. of maximum bars | Bars thickness | Reference |
|--------------|---------------------|----------------|-----------|
| 3 | 1 ... 2 | 10 | 5024 7300 |
| 4 | 1 ... 2 | 10 | 5024 7400 |
| 3 | 1 ... 4 | 5 | 5024 8300 |
| 4 | 1 ... 4 | 5 | 5024 8400 |

Dimensions



sb_066_c_1_x_cat.eps



sb_067_c_1_x_cat.eps

Characteristics

| peak I_{sc} | 3 & 4 poles with 5 mm bars | | | | | | 3 & 4 poles with 10 mm bars | | | | | |
|-------------------|---------------------------------------------|-------|--------|--------|--------|-----------|-----------------------------|-------|--------|--------|--------|-----------|
| | 63 kA | 82 kA | 114 kA | 152 kA | 165 kA | I_z (A) | 63 kA | 82 kA | 114 kA | 152 kA | 165 kA | I_z (A) |
| rms I_{sc} (1s) | 30 kA | 39 kA | 52 kA | 69 kA | 75 kA | | 30 kA | 39 kA | 52 kA | 69 kA | 75 kA | |
| Bars x no. | Max distance between 2 busbar supports (mm) | | | | | | | | | | | |
| 50x1 | 625 | 475 | 350 | 250 | 225 | 600 | 1000 | 925 | 675 | 500 | 450 | 850 |
| 50x2 | 525 | 400 | 300 | 225 | 200 | 1050 | 1000 | 850 | 600 | 450 | 400 | 1550 |
| 80x1 | 800 | 625 | 450 | 325 | 300 | 900 | 1000 | 1000 | 850 | 625 | 575 | 1300 |
| 80x2 | 725 | 550 | 400 | 300 | 275 | 1550 | 1000 | 1000 | 775 | 575 | 525 | 2300 |
| 100x1 | 900 | 700 | 500 | 375 | 350 | 1100 | 1000 | 1000 | 950 | 700 | 650 | 1550 |
| 100x2 | 850 | 650 | 475 | 350 | 325 | 1900 | 1000 | 1000 | 850 | 625 | 575 | 2750 |
| 125x1 | 1000 | 800 | 575 | 425 | 400 | 1300 | 1000 | 1000 | 1000 | 800 | 725 | 1900 |
| 125x2 | 975 | 750 | 550 | 400 | 375 | 2350 | 1000 | 1000 | 925 | 675 | 625 | 3350 |

- Fixed interphase:
- 3 poles: 110 mm
 - 4 poles: 90 mm

SB C 30

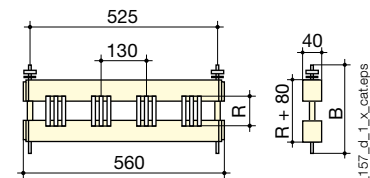
References



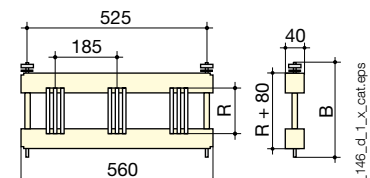
sb_173_a_2_cat

| No. of poles | No. of maximum bars | Bars thickness | Reference |
|--------------|---------------------|----------------|-----------|
| 3 | 1 ... 3 | 10 | 5024 5300 |
| 4 | 1 ... 3 | 10 | 5024 5500 |

Dimensions



sb_157_d_1_x_cat.eps



sb_146_d_1_x_cat.eps

Characteristics

| peak I_{sc} | 3 & 4 poles with 5 mm bars | | | | | | | |
|-------------------|---------------------------------------------|--------|--------|--------|--------|--------|--------|-----------|
| | 82 kA | 114 kA | 152 kA | 165 kA | 187 kA | 220 kA | 264 kA | I_z (A) |
| rms I_{sc} (1s) | 39 kA | 52 kA | 69 kA | 75 kA | 85 kA | 100 kA | 120 kA | |
| Bars x no. | Max distance between 2 busbar supports (mm) | | | | | | | |
| 80x1 | 1000 | 1000 | 750 | 675 | 600 | 500 | 425 | 1300 |
| 80x2 | 1000 | 825 | 625 | 575 | 500 | 425 | 350 | 2300 |
| 80x3 | 750 | 550 | 400 | 375 | 325 | 275 | 225 | 3200 |
| 125x1 | 1000 | 1000 | 925 | 850 | 750 | 625 | 525 | 1900 |
| 125x2 | 1000 | 1000 | 750 | 675 | 600 | 500 | 425 | 3350 |
| 125x3 | 1000 | 750 | 550 | 525 | 450 | 375 | 325 | 4650 |
| 160x1 | 1000 | 1000 | 1000 | 925 | 825 | 700 | 575 | 2350 |
| 160x2 | 1000 | 1000 | 750 | 700 | 625 | 525 | 425 | 4150 |
| 160x3 | 1000 | 900 | 675 | 625 | 550 | 475 | 375 | 5800 |

- Fixed interphase:
- 3 poles: 185 mm
 - 4 poles: 130 mm

Busbar supports

Busbar

Edgewise mounting busbar support fixed interphase

■ Stud kits for **SB C 10, 15, 20 & 30**

References

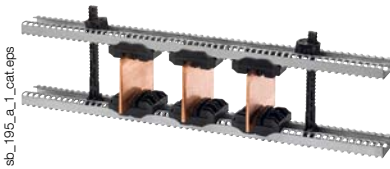
| Bar width | Available for | B SBC 10 | B SBC 15 | B SBC 20 | B SBC 30 | Reference |
|-----------|-----------------------------------|----------|----------|----------|----------|------------------|
| 25 | SBC 10 | 160 | - | - | - | 5020 2025 |
| 30 | SBC 10 ; SBC 15 | 160 | 160 | - | - | 5020 2030 |
| 40 | SBC 10 ; SBC 15 | 160 | 160 | - | - | 5020 2040 |
| 50 | SBC 10 ; SBC 15 ; SBC 20 ; SBC 30 | 190 | 190 | 190 | 190 | 5020 2050 |
| 60 | SBC 10 ; SBC 15 ; SBC 20 ; SBC 30 | 190 | 190 | 190 | 190 | 5020 2060 |
| 63 | SBC 10 ; SBC 20 ; SBC 30 | 190 | - | 190 | 190 | 5020 2063 |
| 70 | SBC 30 | - | - | - | 190 | 5020 2070 |
| 80 | SBC 10 ; SBC 15 ; SBC 20 ; SBC 30 | 220 | 220 | 220 | 220 | 5020 2080 |
| 100 | SBC 10 ; SBC 15 ; SBC 20 ; SBC 30 | 220 | 220 | 220 | 220 | 5020 2100 |
| 120 | SBC 20 | - | - | 245 | - | 5020 2120 |
| 125 | SBC 15 ; SBC 20 ; SBC 30 | - | 245 | 245 | 245 | 5020 2125 |
| 160 | SBC 15 ; SBC 20 ; SBC 30 | - | 280 | 280 | 280 | 5020 2160 |
| 200 | SBC 20 ; SBC 30 | - | - | - | 325 | 5020 2200 |

Order example for a SBC 20 4 poles 2 x 60 x 10: 1 x 5024 7400 + 1 x 5020 2060.

Edgewise mounting busbar support adjustable interphase

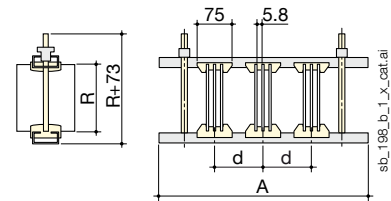
■ **SB C ER P**

References



| No. of poles | No. of bars | Bars thickness | Order quantity for 1 support | Reference |
|--------------|-------------|----------------|------------------------------|------------------|
| 3 | 1...3 | 5 | 6 | 5025 5205 |
| 4 | 1...3 | 5 | 8 | 5025 5205 |
| 3 | 1...2 | 10 | 6 | 5025 5210 |
| 4 | 1...2 | 10 | 8 | 5025 5210 |
| 3 | 1...3 | 10 | 6 | 5025 5111 |
| 4 | 1...3 | 10 | 8 | 5025 5111 |

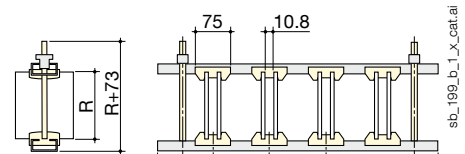
Dimensions



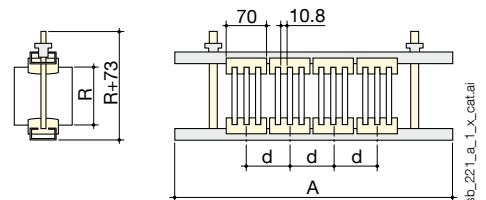
5 mm insert / 3 bars

Accessories

| Description | Length | Order quantity for 1 support | Reference |
|-----------------------------------|--------|------------------------------|------------------|
| Rod kit (bar height 25 to 200 mm) | | 2 | 5025 5100 |
| 380 mm profile | 380 | 2 | 5025 5124 |
| 480 mm profile | 480 | 2 | 5025 5125 |
| 580 mm profile | 580 | 2 | 5025 5126 |
| 780 mm profile | 780 | 2 | 5025 5128 |
| 2 m profile | 2000 | | 5025 5120 |



10 mm insert / 2 bars



10 mm insert / 3 bars

| A (mm) | Enclosure (mm) |
|--------|----------------|
| 380 | 400 |
| 480 | 500 |
| 580 | 600 |
| 780 | 800 |

Edgewise mounting busbar support adjustable interphase (continued)

■ SB C ER P

Characteristics

5 mm inserts for up to 3 bars and 10 mm inserts for up to 2 bars

| peak I_{sc} | L max. (support bars in mm) for | | | | | d min. (mm) | I_z (A) ⁽¹⁾ |
|---------------|---------------------------------|--------|--------|--------|--------|-------------|--------------------------|
| | 82 kA | 114 kA | 152 kA | 165 kA | 187 kA | | |
| rms I_{sc} | 39 kA | 52 kA | 69 kA | 75 kA | 85 kA | | |
| Bar x qty | | | | | | | |
| 50 x 5 x 1 | 500 | 325 | 175 | 150 | | 75 | 600 |
| 50 x 5 x 2 | 500 | 325 | 175 | 150 | 100 | 75 | 1050 |
| 50 x 5 x 3 | 500 | 325 | 175 | 150 | 100 | 75 | 1450 |
| 63 x 5 x 1 | 525 | 350 | 200 | 175 | | 75 | 700 |
| 63 x 5 x 2 | 525 | 350 | 200 | 175 | 125 | 75 | 1250 |
| 63 x 5 x 3 | 525 | 350 | 200 | 175 | 125 | 75 | 1800 |
| 80 x 5 x 1 | 525 | 350 | 200 | 175 | 125 | 75 | 900 |
| 80 x 5 x 2 | 525 | 350 | 200 | 175 | 125 | 75 | 1550 |
| 80 x 5 x 3 | 525 | 350 | 200 | 175 | 125 | 75 | 2200 |
| 100 x 5 x 1 | 550 | 375 | 225 | 200 | 175 | 75 | 1100 |
| 100 x 5 x 2 | 550 | 375 | 225 | 200 | 175 | 75 | 1900 |
| 100 x 5 x 3 | 550 | 375 | 225 | 200 | 175 | 75 | 2650 |
| 125 x 5 x 1 | 575 | 400 | 250 | 225 | 200 | 75 | 1300 |
| 125 x 5 x 2 | 575 | 400 | 250 | 225 | 200 | 75 | 2350 |
| 125 x 5 x 3 | 575 | 400 | 250 | 225 | 200 | 75 | 3250 |
| 80 x 10 x 1 | 1000 | 750 | 350 | 300 | 200 | 75 | 1300 |
| 80 x 10 x 2 | 1000 | 750 | 350 | 300 | 200 | 75 | 2300 |
| 100 x 10 x 1 | 1000 | 750 | 375 | 325 | 225 | 75 | 1550 |
| 100 x 10 x 2 | 1000 | 775 | 375 | 325 | 225 | 75 | 2750 |
| 125 x 10 x 1 | 1000 | 775 | 375 | 325 | 225 | 75 | 1900 |
| 125 x 10 x 2 | 1000 | 775 | 375 | 325 | 225 | 75 | 3350 |
| 160 x 10 x 1 | 1000 | 775 | 400 | 350 | 250 | 75 | 2350 |
| 160 x 10 x 2 | 1000 | 800 | 400 | 350 | 250 | 75 | 4150 |

(1) Admissible busbar nominal current with a temperature inside the panel of between 45°C and 80°C.
For other mounting configurations, please contact us.

10 mm insert / 3 bars

| peak I_{sc} | L max. (bar supports in mm) | | | | | | D (mm) | I_z (A) ⁽¹⁾ |
|---------------|-----------------------------|-------|--------|--------|--------|--------|--------|--------------------------|
| | 63 kA | 82 kA | 114 kA | 152 kA | 165 kA | 187 kA | | |
| rms I_{sc} | 30 kA | 39 kA | 52 kA | 69 kA | 75 kA | 85 kA | | |
| Bar x qty | | | | | | | | |
| 50 x 10 x 1 | 1000 | 1000 | 650 | 250 | 200 | 150 | 70 | 850 |
| 50 x 10 x 2 | 1000 | 1000 | 650 | 250 | 200 | 150 | 70 | 1550 |
| 50 x 10 x 3 | 1000 | 1000 | 650 | 250 | 200 | 150 | 70 | 2150 |
| 63 x 10 x 1 | 1000 | 1000 | 675 | 275 | 225 | 175 | 70 | 1050 |
| 63 x 10 x 2 | 1000 | 1000 | 675 | 275 | 225 | 175 | 70 | 1850 |
| 63 x 10 x 3 | 1000 | 1000 | 675 | 275 | 225 | 175 | 70 | 2600 |
| 80 x 10 x 1 | 1000 | 1000 | 700 | 300 | 250 | 175 | 70 | 1300 |
| 80 x 10 x 2 | 1000 | 1000 | 700 | 300 | 250 | 175 | 70 | 2300 |
| 80 x 10 x 3 | 1000 | 1000 | 700 | 300 | 250 | 175 | 70 | 3200 |
| 100 x 10 x 1 | 1000 | 1000 | 725 | 325 | 275 | 175 | 70 | 1550 |
| 100 x 10 x 2 | 1000 | 1000 | 725 | 325 | 275 | 175 | 70 | 2750 |
| 100 x 10 x 3 | 1000 | 1000 | 725 | 325 | 275 | 175 | 70 | 3250 |
| 125 x 10 x 1 | 1000 | 1000 | 725 | 350 | 275 | 200 | 70 | 1900 |
| 125 x 10 x 2 | 1000 | 1000 | 725 | 350 | 275 | 200 | 70 | 3350 |
| 125 x 10 x 3 | 1000 | 1000 | 725 | 350 | 275 | 200 | 70 | 4650 |
| 160 x 10 x 1 | 1000 | 1000 | 750 | 350 | 300 | 200 | 70 | 2350 |
| 160 x 10 x 2 | 1000 | 1000 | 750 | 350 | 300 | 200 | 70 | 4150 |
| 160 x 10 x 3 | 1000 | 1000 | 750 | 350 | 300 | 200 | 70 | 5800 |

(1) Admissible busbar nominal current with a temperature inside the panel of between 45°C and 80°C.
For other mounting configurations, please contact us.

Busbar supports

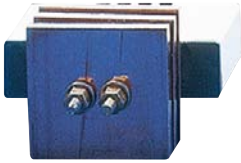
Busbar

Unipolar flat mounting busbar support

SB 205 - SB 306

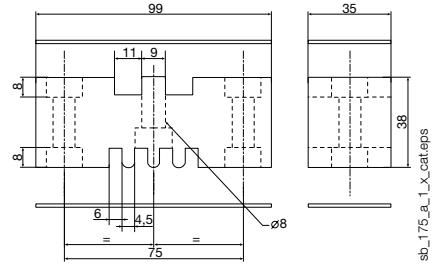
References

sb_117_a_1_cat.eps

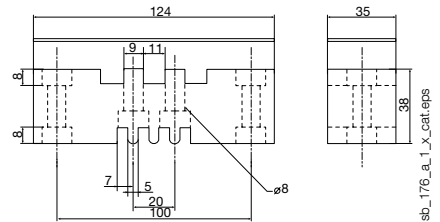


| Support | Insulation voltage (VAC) | No. of bars | Bar width (mm) | To be ordered in multiples of | Reference |
|---------|--------------------------|-------------|----------------|-------------------------------|------------------|
| SB 205 | 1000 | 1 ... 3 | 100 | 6 | 5022 5110 |
| SB 306 | 1000 | 1 ... 3 | 160 | 6 | 5023 6110 |

Dimensions



sb_175_a_1_x_cat.eps

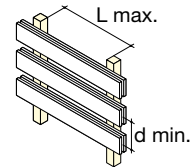
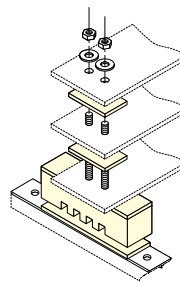


sb_176_a_1_x_cat.eps

Characteristics

| Support | Bars x no. | Max. L (distance between centres of supports in mm) for | | | | | | d min. (mm) | Iz (A) ⁽¹⁾ | |
|---------|--------------|---------------------------------------------------------|-------|-------|-------|--------|--------|-------------|-----------------------|--------|
| | | peak I _{sc} | 48 kA | 63 kA | 82 kA | 114 kA | 152 kA | | | 165 kA |
| | | rms I _{sc} | 23 kA | 30 kA | 39 kA | 52 kA | 69 kA | | | 75 kA |
| SB 205 | 100 x 10 x 1 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 125 | 1550 | |
| SB 205 | 100 x 10 x 2 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 125 | 2750 | |
| SB 205 | 100 x 10 x 3 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 125 | 3850 | |
| SB 306 | 160 x 10 x 1 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 175 | 2350 | |
| SB 306 | 160 x 10 x 2 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 175 | 4150 | |
| SB 306 | 160 x 10 x 3 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 175 | 5800 | |

(1) Admissible nominal current for a temperature in the cabinet of 45°C and 80°C for the bars.
Other assembly configurations: please consult us.



sb_152_a_1_x_cat.eps

Mounting

- SB 205: 1 to 3 bars of max. width 100 mm.
- SB 306: 1 to 3 bars of max. width 160 mm.

Multipolar flat mounting busbar supports with fixed interphase

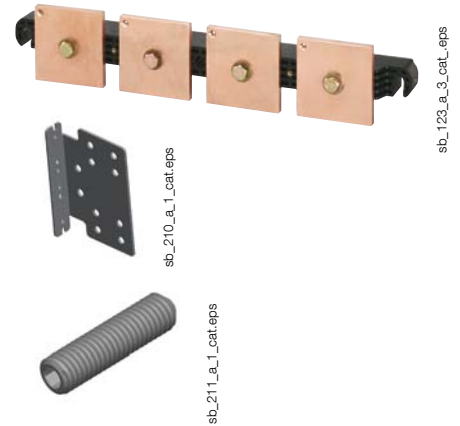
SB P 30

References

| No. of poles | Insulation voltage (VAC) | Bar width (mm) | Pack qty | Reference |
|--------------|--------------------------|----------------|----------|-----------|
| 3 | 1000 | 50-100 | 1 | 5023 0310 |
| 4 | 1000 | 50-80 | 1 | 5023 0410 |

| Mounting bracket | | To be ordered in multiples of | Reference |
|---------------------------------|--|-------------------------------|-----------|
| Description of accessories | | | |
| 2 mounting brackets for SB P 30 | | 1 | 5024 9002 |

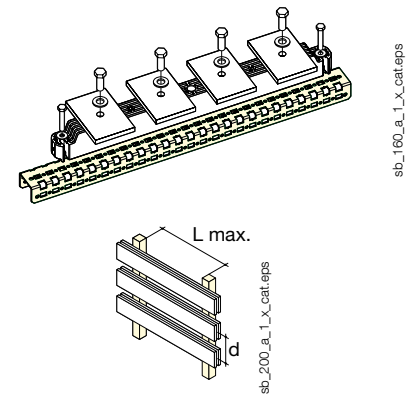
| Bar fixing screws | | To be ordered in multiples of | Reference |
|---------------------------------------------------|--|-------------------------------|-----------|
| Description of accessories | | | |
| Headless screw for attaching 1 thickness of bar | | 25 | 5119 4601 |
| Headless screw for attaching 2 thicknesses of bar | | 25 | 5119 4602 |
| Headless screw for attaching 3 thicknesses of bar | | 25 | 5119 4603 |



Characteristics

d = 123 mm

| peak I _{sc} | Max. L (distance between centres of supports in mm) for | | | | | | | | d (mm) | Iz (A) |
|----------------------|---------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 63 kA | 84 kA | 110 kA | 143 kA | 165 kA | 176 kA | 187 kA | 220 kA | | |
| rms I _{sc} | 30 kA | 40 kA | 50 kA | 65 kA | 75 kA | 80 kA | 85 kA | 100 kA | | |
| Bars x no. | | | | | | | | | | |
| 50 x 5 x 1 | 1000 | 950 | 525 | 300 | 225 | 200 | 175 | 130 | 123 | 600 |
| 63 x 5 x 1 | 1000 | 925 | 525 | 300 | 225 | 200 | 175 | 130 | 123 | 700 |
| 80 x 5 x 1 | 1000 | 900 | 500 | 300 | 225 | 175 | 175 | 125 | 123 | 900 |
| 80 x 5 x 2 | 1000 | 900 | 500 | 300 | 225 | 175 | 175 | 125 | 123 | 1 550 |
| 50 x 10 x 1 | 1000 | 950 | 525 | 300 | 225 | 200 | 175 | 130 | 123 | 850 |
| 50 x 10 x 2 | 1000 | 975 | 525 | 300 | 225 | 200 | 175 | 135 | 123 | 1 550 |
| 63 x 10 x 1 | 1000 | 925 | 525 | 300 | 225 | 200 | 175 | 130 | 123 | 1 050 |
| 63 x 10 x 2 | 1000 | 950 | 525 | 300 | 225 | 200 | 175 | 130 | 123 | 1 850 |
| 80 x 10 x 1 | 1000 | 900 | 500 | 300 | 225 | 175 | 175 | 125 | 123 | 1 300 |
| 80 x 10 x 2 | 1000 | 925 | 500 | 300 | 225 | 200 | 175 | 125 | 123 | 2 300 |
| 80 x 10 x 3 | 1000 | 950 | 525 | 300 | 225 | 200 | 175 | 130 | 123 | 3 200 |

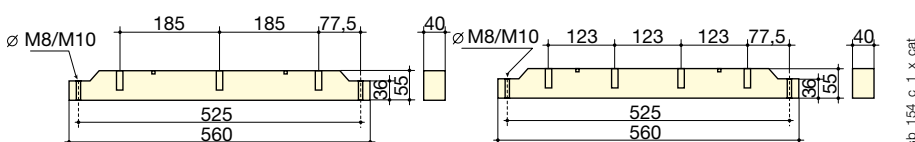


| peak I _{sc} | Max. L (distance between centres of supports in mm) for | | | | | | | | d (mm) | Iz (A) |
|----------------------|---------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 63 kA | 84 kA | 110 kA | 143 kA | 165 kA | 176 kA | 187 kA | 220 kA | | |
| rms I _{sc} | 30 kA | 40 kA | 50 kA | 65 kA | 75 kA | 80 kA | 85 kA | 100 kA | | |
| Bars x no. | | | | | | | | | | |
| 50 x 5 x 1 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 63 x 5 x 1 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 80 x 5 x 1 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 80 x 5 x 2 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 100 x 5 x 1 | 1000 | 1000 | 775 | 450 | 325 | 300 | 250 | 175 | 185 | 1100 |
| 100 x 5 x 2 | 1000 | 1000 | 775 | 450 | 325 | 300 | 250 | 175 | 185 | 1900 |
| 100 x 5 x 3 | 1000 | 1000 | 775 | 450 | 350 | 300 | 250 | 175 | 185 | 2650 |
| 50 x 10 x 1 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 50 x 10 x 2 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 63 x 10 x 1 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 63 x 10 x 2 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 80 x 10 x 1 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 80 x 10 x 2 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 80 x 10 x 3 | 1000 | 1000 | 800 | 475 | 350 | 300 | 275 | 200 | 185 | |
| 100 x 10 x 1 | 1000 | 1000 | 775 | 450 | 325 | 300 | 250 | 175 | 185 | 1550 |
| 100 x 10 x 2 | 1000 | 1000 | 775 | 450 | 350 | 300 | 250 | 175 | 185 | 2750 |
| 100 x 10 x 3 | 1000 | 1000 | 775 | 450 | 350 | 300 | 275 | 175 | 185 | 3850 |

Mounting

- 3 poles: 1 to 3 bars of max. width 100 mm per pole, fixed interphase of 185 mm,
- 4 poles: 1 to 3 bars of max. width 80 mm per pole, fixed interphase of 123 mm.

Dimensions



Busbar supports

Busbar

Unipolar flat mounting busbar support

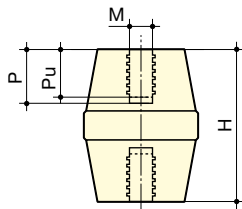
■ Female to female **hexagonal insulator**

References



sb_104_a_1_cat.eps

| Height (mm) | Insert | Depth (mm) | | Ø (mm) | | Pack | Reference |
|-------------|--------|------------|-----|--------|--|------|-----------|
| H | M | P | Pu | E | | qty | |
| 20 | M4 | 8 | 5,5 | 19 | | 1 | 5031 2004 |
| 20 | M6 | 8 | 5,5 | 19 | | 1 | 5031 2006 |
| 25 | M6 | 10 | 7 | 21 | | 1 | 5031 2506 |
| 30 | M6 | 10 | 7 | 33 | | 1 | 5031 3006 |
| 30 | M8 | 12 | 9 | 33 | | 1 | 5031 3008 |
| 35 | M6 | 12 | 9 | 33 | | 1 | 5031 3506 |
| 35 | M8 | 12 | 9 | 33 | | 1 | 5031 3508 |
| 35 | M10 | 12 | 9 | 33 | | 1 | 5031 3510 |
| 40 | M8 | 15 | 12 | 40 | | 1 | 5031 4008 |
| 40 | M10 | 15 | 12 | 40 | | 1 | 5031 4010 |
| 45 | M8 | 15 | 12 | 41 | | 1 | 5031 4508 |
| 45 | M10 | 15 | 12 | 41 | | 1 | 5031 4510 |
| 50 | M8 | 20 | 17 | 46 | | 1 | 5031 5008 |
| 50 | M10 | 20 | 17 | 46 | | 1 | 5031 5010 |
| 50 | M12 | 20 | 17 | 46 | | 1 | 5031 5012 |
| 60 | M10 | 20 | 17 | 50 | | 1 | 5031 6010 |
| 65 | M10 | 20 | 17 | 55 | | 1 | 5031 6510 |
| 70 | M12 | 25 | 21 | 55 | | 1 | 5031 7012 |



sb_105_c_1_x_cat.eps

■ Headless screw

References

| Length (mm) | Thread | To be ordered in multiples of | Reference |
|-------------|--------|-------------------------------|-----------|
| 20 | M6 | 20 | 5032 2006 |
| 20 | M8 | 20 | 5032 2008 |
| 25 | M6 | 20 | 5032 2506 |
| 25 | M8 | 20 | 5032 2508 |
| 30 | M6 | 20 | 5032 3006 |
| 30 | M8 | 20 | 5032 3008 |
| 40 | M8 | 20 | 5032 4008 |
| 40 | M10 | 20 | 5032 4010 |
| 50 | M12 | 20 | 5032 5012 |



sb_121_a_2_cat.eps

Characteristics

| H (mm) | Insert M | Bars x no. | Max. L (distance between centres of supports in mm) for | | | | | | d min. (mm) | Iz (A) ⁽¹⁾ | |
|--------|----------|------------|---------------------------------------------------------|-------|-------|-------|-------|--------|-------------|-----------------------|--|
| | | | peak I _{sc} | 24 kA | | 48 kA | | 114 kA | | | |
| | | | rms I _{sc} | 12 kA | 23 kA | 30 kA | 39 kA | 52 kA | | | |
| 20 | M4 | 15 x 5 x 1 | 400 | 100 | | | | 45 | 220 | | |
| 20 | M4 | 20 x 5 x 1 | 400 | 100 | | | | 45 | 280 | | |
| 25 | M6 | 15 x 5 x 1 | 550 | 135 | | | | 45 | 220 | | |
| 25 | M6 | 20 x 5 x 1 | 525 | 135 | | | | 45 | 280 | | |
| 25 | M6 | 25 x 5 x 1 | 575 | 145 | | | | 50 | 330 | | |
| 30 | M6 | 15 x 5 x 1 | 675 | 165 | | | | 45 | 220 | | |
| 30 | M6 | 20 x 5 x 1 | 650 | 165 | | | | 45 | 280 | | |
| 30 | M6 | 25 x 5 x 1 | 725 | 175 | 105 | | | 50 | 330 | | |
| 30 | M8 | 15 x 5 x 1 | 850 | 250 | 155 | | | 45 | 220 | | |
| 30 | M8 | 20 x 5 x 1 | 1000 | 250 | 155 | | | 45 | 280 | | |
| 30 | M8 | 25 x 5 x 1 | 1000 | 275 | 170 | 100 | | 50 | 330 | | |
| 35 | M6 | 15 x 5 x 1 | 700 | 175 | 100 | | | 45 | 220 | | |
| 35 | M6 | 20 x 5 x 1 | 675 | 170 | 100 | | | 45 | 280 | | |
| 35 | M6 | 25 x 5 x 1 | 750 | 175 | 110 | | | 50 | 330 | | |
| 35 | M8 | 15 x 5 x 1 | 850 | 275 | 160 | | | 45 | 220 | | |
| 35 | M8 | 20 x 5 x 1 | 1000 | 275 | 160 | | | 45 | 280 | | |
| 35 | M8 | 25 x 5 x 1 | 1000 | 300 | 175 | 105 | | 50 | 330 | | |
| 35 | M8 | 32 x 5 x 1 | 1000 | 325 | 175 | 110 | | 55 | 410 | | |
| 35 | M10 | 20 x 5 x 1 | 850 | 200 | 125 | | | 45 | 280 | | |
| 35 | M10 | 25 x 5 x 1 | 950 | 225 | 135 | | | 50 | 330 | | |
| 35 | M10 | 32 x 5 x 1 | 1000 | 250 | 150 | | | 55 | 410 | | |
| 40 | M8 | 20 x 5 x 1 | 1000 | 325 | 175 | 110 | | 45 | 280 | | |
| 40 | M8 | 25 x 5 x 1 | 1000 | 350 | 200 | 125 | | 50 | 330 | | |
| 40 | M8 | 32 x 5 x 1 | 1000 | 375 | 225 | 135 | | 55 | 410 | | |
| 40 | M10 | 20 x 5 x 1 | 1000 | 325 | 175 | 110 | | 45 | 280 | | |
| 40 | M10 | 25 x 5 x 1 | 1000 | 350 | 200 | 125 | | 50 | 330 | | |
| 40 | M10 | 32 x 5 x 1 | 1000 | 375 | 225 | 135 | | 55 | 410 | | |
| 45 | M8 | 25 x 5 x 1 | 1000 | 425 | 250 | 150 | | 50 | 330 | | |
| 45 | M8 | 32 x 5 x 1 | 1000 | 475 | 175 | 160 | | 55 | 410 | | |
| 45 | M8 | 50 x 5 x 1 | 1000 | 625 | 350 | 200 | 110 | 75 | 600 | | |
| 45 | M10 | 25 x 5 x 1 | 1000 | 425 | 250 | 145 | | 50 | 330 | | |
| 45 | M10 | 32 x 5 x 1 | 1000 | 450 | 250 | 160 | | 55 | 410 | | |
| 45 | M10 | 50 x 5 x 1 | 1000 | 600 | 350 | 200 | 110 | 75 | 600 | | |
| 50 | M8 | 25 x 5 x 1 | 1000 | 450 | 250 | 155 | | 50 | 330 | | |
| 50 | M8 | 32 x 5 x 1 | 1000 | 475 | 275 | 170 | | 55 | 410 | | |
| 50 | M8 | 50 x 5 x 1 | 1000 | 650 | 375 | 225 | 115 | 75 | 600 | | |
| 50 | M10 | 32 x 5 x 1 | 1000 | 525 | 300 | 175 | | 55 | 410 | | |
| 50 | M10 | 50 x 5 x 1 | 1000 | 700 | 400 | 225 | 125 | 75 | 600 | | |
| 60 | M10 | 50 x 5 x 1 | 1000 | 700 | 400 | 225 | 125 | 75 | 600 | | |
| 65 | M10 | 50 x 5 x 1 | 1000 | 775 | 450 | 250 | 135 | 75 | 600 | | |

(1) Admissible nominal current for a temperature in the cabinet of 45°C and 80°C for the bars.
Other assembly configurations: please consult us.