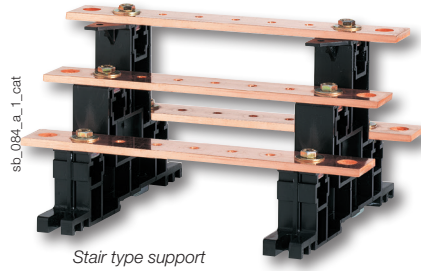
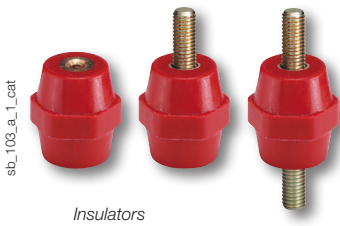
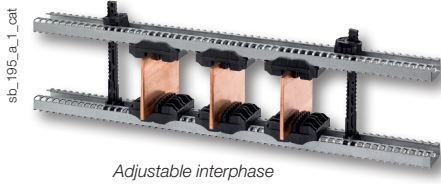


# Busbar supports

## Busbar

Enclosures & accessories



### The solution for

- > Industrial Control Panels Manufacturers (UL 508A)
- > Switchboards Manufacturers (UL 891)
- > Distributors
- > OEM/Machine Builders



### Approvals and certifications (1)

- > ASEFA/LCIE



(1) Product references on request.

### Available on request

- > Please contact us

## Function

SOCOMECS insulating busbar supports enable the fixing of copper or aluminium busbars.

## Characteristics

### Insulators

- Polyester without halogen.
- UL94 VO self-extinguishing.
- Color red RAL 3002.
- Operating temperature from -40 to + 266°F.
- Deformation under load temperature (ASTM D643): > 392°F / 200°C.
- Dielectric constant (ASTM D150): 4/5.
- Arc resistance (ASTM D495): > 180 s.
- Water absorption (ASTM D570): < 0.3%.

### Busbar supports

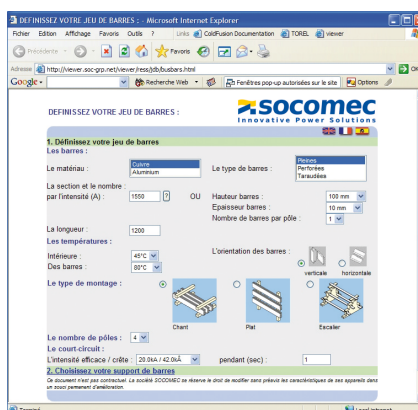
- High dielectric strength.
- High mechanical resistance.
- Non-magnetic assembly parts.
- High resistance to damp heat (supplied "with a conformal coating").

### Stair type supports

- Thermoplastic material.
- UL 94 VO self-extinguishing.
- Insulating voltage: 1000 V.

## Software tool for size selection

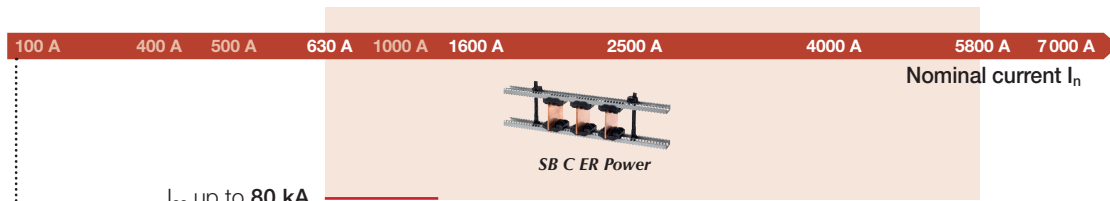
**Mechanical Systems** is a software that can be utilized to size bar sets. It defines the configuration of the busbar system, including bar section and distance between supports, according to the required electrical characteristics of the panel in compliance with standard IEC 61439-1. The software runs on Windows® 7 and 10. Visit our website [www.socomec.us](http://www.socomec.us).



sb\_201\_b\_1\_fr\_cat.eps

## Selection guide

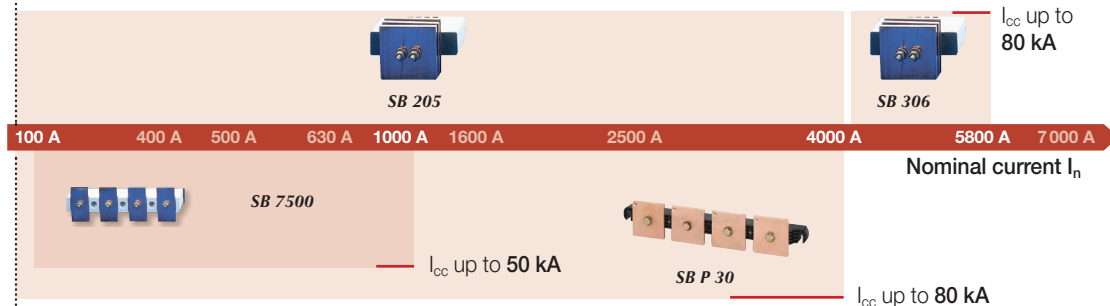
### Edgewise mounting



- Busbar supports with **adjustable interphase**

### Flat mounting

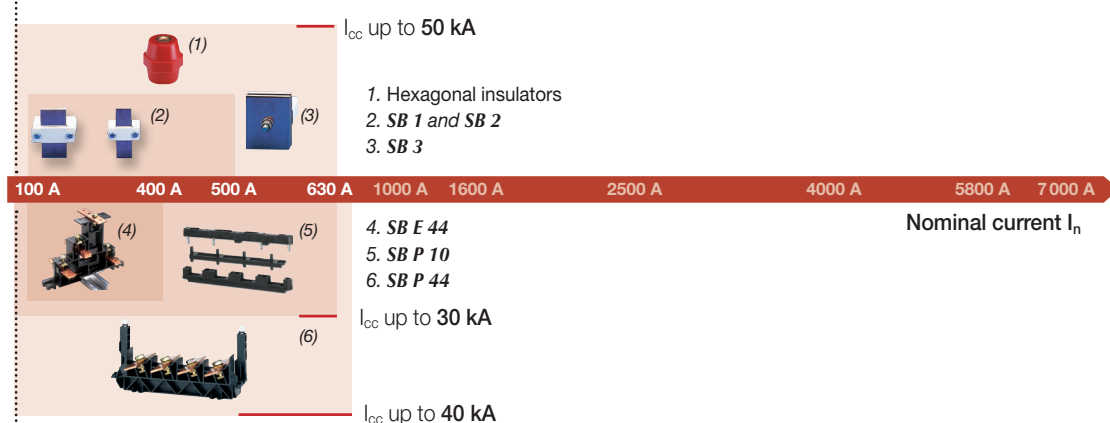
- **Unipolar** busbar supports



- **Multipolar** busbar supports

### Other supports

- **Unipolar** busbar supports



- **4 Pole** busbar supports

# Busbar supports

## Busbar

### ■ SB C ER P multipolar edgewise mounting busbar supports with adjustable interphase

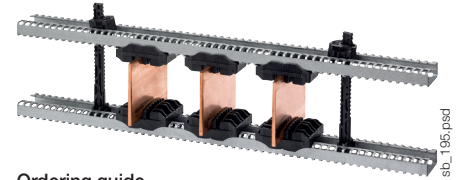
## References

### Complete busbar support

Designation	Thickness of bar (mm)	Width of bar (mm)	No. of bars	No. of poles	Reference
Complete support	10	480	1 ... 3	4	5025 5135

### Insert

Designation	Thickness of bar (mm)	No. of bars	No. of poles	Quantity	To be ordered in multiples of	Reference
Insert for 5 mm bars	5	3	3 P	6 <sup>(1)</sup>	8	5025 5205
Insert for 5 mm bars	5	3	4 P	8 <sup>(1)</sup>	8	5025 5205
Insert for 10 mm bars	10	2	3 P	6 <sup>(1)</sup>	4	5025 5210
Insert for 10 mm bars	10	2	4 P	8 <sup>(1)</sup>	4	5025 5210
Insert for 10 mm bars	10	3	3 P	6 <sup>(1)</sup>	1	5025 5111
Insert for 10 mm bars	10	3	4 P	8 <sup>(1)</sup>	1	5025 5111



### Ordering guide

- For three poles, order: 6 x inserts, 2 x studs, 2 x profiles.
- For four poles, order: 8 x inserts, 2 x studs, 2 x profiles.

### Mounting accessories

Designation	Length (mm)	Quantity	To be ordered in multiples of	Reference
Stud kit (bar height 25 to 200 mm)		2 <sup>(1)</sup>	4	5025 5100
Stud kit metal (bar height 0 to 100 mm)		2	2	5025 5101
Stud kit metal (bar height 0 to 200 mm)		2	2	5025 5102
380 mm profile	380	2 <sup>(1)</sup>	4	5025 5124
480 mm profile	480	2 <sup>(1)</sup>	4	5025 5125
580 mm profile	580	2 <sup>(1)</sup>	4	5025 5126
780 mm profile	780	2 <sup>(1)</sup>	4	5025 5128
2 m profile	2000		4	5025 5120
Profile for Prisma enclosure <sup>(2)</sup>	525	1 <sup>(1)</sup>	1	5025 5130

(1) Quantity required for 1 busbar support inserts.

(2) Kit of 2 profiles and 4 brackets.

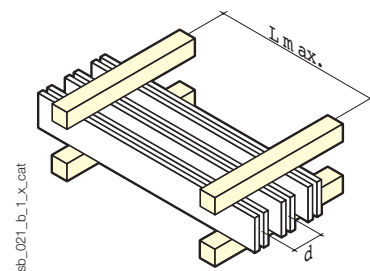
## Characteristics

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

peak I <sub>sc</sub>	L max. (support bars in mm) for					d min. (mm)	I <sub>z</sub> (A) <sup>(1)</sup>
	82 kA	114 kA	152 kA	165 kA	187 kA		
rms I <sub>sc</sub>	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 113°F and 176°F.

For other mounting configurations, please contact us.



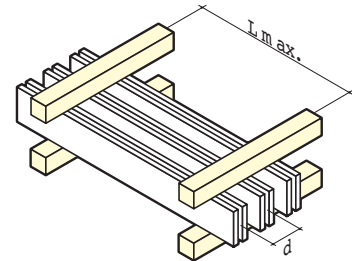
Adhering to the **maximum distance** between two supports ensures that the busbar supports are able to withstand the given short circuit current values. At these limits, distortion of the copper bars may occur. These deformations are permitted by standard IEC 61439-1 so long as they adhere to the insulation distances.

## Characteristics (continued)

### 10 mm insert / 3 bars

peak $I_{sc}$	L max. (bar supports in mm)						d (mm)	Iz (A) <sup>(1)</sup>
	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 113°F and 176°F. For other mounting configurations, please contact us.



Adhering to the **maximum distance** between two supports ensures that the busbar supports are able to withstand the given short circuit current values. At these limits, distortion of the copper bars may occur. These deformations are permitted by standard IEC 61439-1 so long as they adhere to the insulation distances.

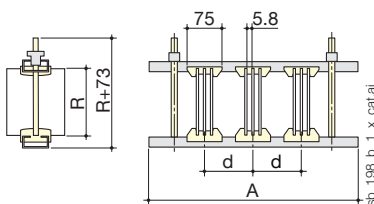
sb\_021\_b\_1\_x\_cat.eps

## Dimensions

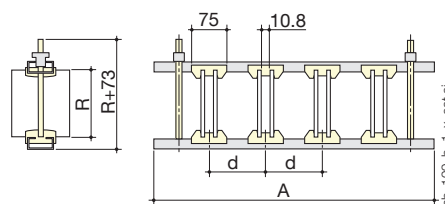
### Mounting

- 1 to 3 bars of 5 mm thickness, per phase.
- 1 to 3 bars of 10 mm thickness, per phase.
- Interphase distance: min. 70 mm and max. 200 mm.
- Use 2 studs positioned symmetrically on the extremity of the poles or between the outermost poles.

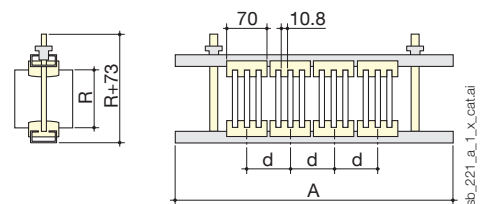
A (mm)	Enclosure (mm)
380	400
480	500
580	600
780	800



5 mm insert / 3 bars



10 mm insert / 2 bars



10 mm insert / 3 bars

# Busbar supports

## Busbar

### SB 205 - SB 306 unipolar flat mounting busbar supports

#### References

Support	Insulation voltage (VAC)	No. of bars	Bar width (mm)	To be ordered in multiples of	Reference
SB 205	1,000	1 - 3	100	6	5022 5110
SB 306	1,000	1 - 3	160	6	5023 6110

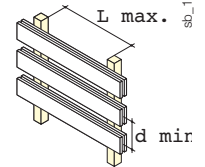
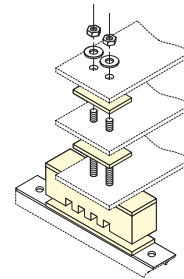


sb\_117.psd

#### Characteristics

Support	Bar x qty	L max. (support bars in mm) for						d min. (mm)	Iz (A) <sup>(1)</sup>	
		peak I <sub>sc</sub>	48 kA	63 kA	82 kA	114 kA	152 kA			165 kA
		rms I <sub>sc</sub>	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 busbar nominal current with a temperature inside the panel of between 113°F and 176°F. For other mounting configurations, please contact us.

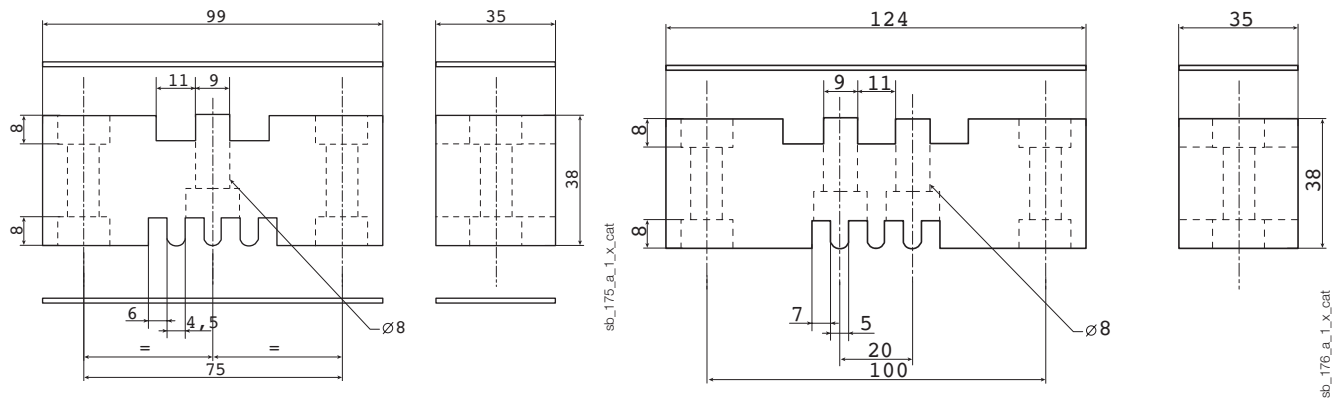


sb\_152\_a\_1\_x\_cat

#### Mounting

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

#### Dimensions



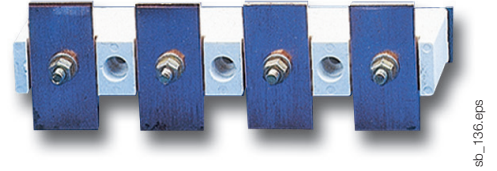
sb\_175\_a\_1\_x\_cat

sb\_176\_a\_1\_x\_cat

## ■ SB 7500 multipolar flat mounting busbar supports with fixed interphase

### References

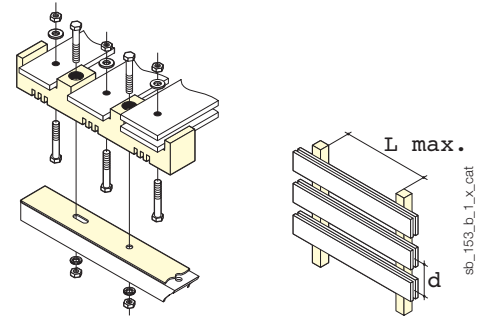
No. of poles	Insulation voltage (VAC)	Bar width (mm)	Pack qty	Reference
3 P	1,000	40 -50	1	5027 5310
4 P	1,000	40 -50	1	5027 5410



sb\_136.eps

### Characteristics

peak $I_{sc}$	L max. (support bars in mm) for						d (mm)	Iz (A)
	24 kA	48 kA	63 kA	82 kA	114 kA	152 kA		
rms $I_{sc}$	12 kA	23 kA	30 kA	39 kA	52 kA	69 kA		
Bar x qty								
50 x 5 x 1	1000	1000	950	725	525	450	75	600
50 x 5 x 2	1000	1000	1000	1000	975	850	75	1,050

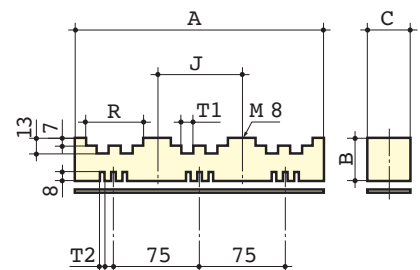


sb\_153\_b\_1\_x\_cat

Mounting: SB 7500: 1 to 2 bars of max. width 50 mm per pole. Fixed interphase of 75 mm.

### Dimensions

No. of poles	A	B	C	J	R	T <sub>1</sub>	T <sub>2</sub>
3 P	220	38	35	75	52.5	11	6
4 P	295	38	35	75	52.5	11	6



sb\_149\_a\_1\_x\_cat

# Busbar supports

## Busbar

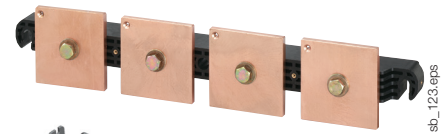
### SB P 30 multipolar flat mounting busbar supports with fixed interphase

#### References

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

Mounting bracket Accessories	To be ordered in multiples of	Reference
2 mounting brackets for SB P 30	1	5024 9002

Bar fixing screws Accessories	To be ordered in multiples of	Reference
Grub screws for mounting 1 bar	25	5119 4601
Grub screws for mounting 2 bars back-to-back	25	5119 4602
Grub screws for mounting 3 back-to-back bars	25	5119 4603



sb\_123.eps



sb\_211\_a\_1\_cat

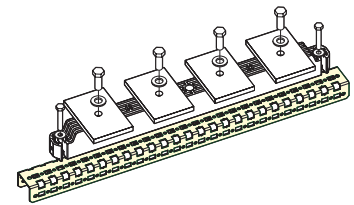


sb\_210\_a\_1\_cat

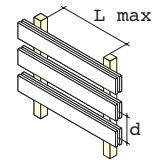
#### Characteristics

d = 123 mm

peak I <sub>sc</sub>	L max. (support bars 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 <sub>sc</sub>	30 kA	40 kA	50 kA	65 kA	75 kA	80 kA	85 kA	100 kA		
Bar x qty										
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



sb\_160\_a\_1\_x\_cat



sb\_200\_a\_1\_x\_cat

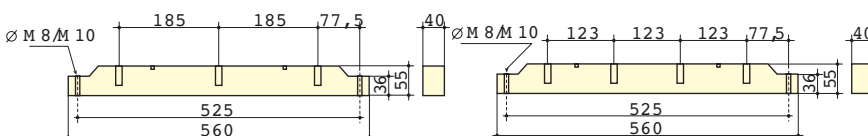
d = 185 mm

peak I <sub>sc</sub>	L max. (support bars 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 <sub>sc</sub>	30 kA	40 kA	50 kA	65 kA	75 kA	80 kA	85 kA	100 kA		
Bar x qty										
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



sb\_164\_c\_1\_x\_cat

## ■ Hexagonal insulators unipolar flat mounting busbar supports Female to female hexagonal insulator

### References

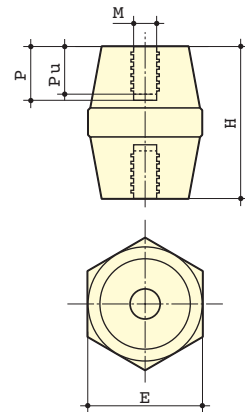
Height H (mm)	Threading M	Depth		Diameter E (mm)	Pack qty	Reference
		P (mm)	Pu (mm)			
20	M4	8	5.5	19	1	5031 2004
20	M6	8	5.5	19	1	5031 2006
25	M6	10	7	21	1	5031 2506
30	M6	10	7	33	1	5031 3006
30	M8	12	9	33	1	5031 3008
35	M6	12	9	33	1	5031 3506
35	M8	12	9	33	1	5031 3508
35	M10	12	9	33	1	5031 3510
40	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\_104\_a\_2\_cat

### Characteristics

Height H (mm)	Threading	Voltage Nominal (V) AC/DC	Insulation voltage (VAC)		Mechanical characteristics (daN)		Tightening torque max. (Nm)
			50 Hz 1 min	Peak	Flexion	Traction	
20	M4	500	3000	5500	70	170	9
20	M6	500	3000	5500	100	190	8
25	M6	500	3000	5500	170	370	12
30	M6	1000	6000	11000	200	650	22
30	M8	1000	6000	11000	360	800	40
35	M6	1400	9000	16000	230	720	25
35	M8	1400	9000	16000	380	900	42
35	M10	1400	9000	16000	320	800	44
40	M8	2000	12000	21500	620	1200	50
40	M10	2000	12000	21500	620	1100	60
45	M8	2000	12000	21500	550	1200	55
45	M10	2000	12000	21500	550	1100	65
50	M8	2000	12000	21500	650	1800	60
50	M10	2000	12000	21500	650	1700	70
50	M12	2000	12000	21500	660	13000	130
60	M10	2400	12000	27000	560	1600	85
65	M10	2400	12000	27000	750	1600	90
70	M12	2400	12000	27000	750	1500	135



sb\_105\_c\_1\_x\_cat



# Busbar supports

## Busbar

### ■ Hexagonal insulators unipolar flat mounting busbar supports (continued) Male to female hexagonal insulator

#### References

Height H (mm)	Threading M	Depth		Diameter E (mm)	Length W (mm)	Pack qty	Reference
		P (mm)	Pu (mm)				
16	M4	6	5	14	26	1	5038 1604
16	M5	6	5	14	26	1	5038 1605
25	M5	10	7	20	35	1	5038 2505
25	M6	10	7	20	35	1	5038 2506
35	M8	12	9	32	50	1	5038 3508
35	M10	12	9	32	65	1	5038 3510
50	M8	15	17	46	75	1	5038 5008
50	M10	20	17	46	80	1	5038 5010
60	M10	20	17	50	85	1	5038 6010



sb\_106\_a\_2\_cat

### Male to male hexagonal insulator

#### References

Height H (mm)	Threading M	Depth		Diameter E (mm)	Length W (mm)	Pack qty	Reference
		P (mm)	Pu (mm)				
16	M4	6	5	14	26	1	5038 1604
16	M5	6	5	14	26	1	5038 1605
25	M5	10	7	20	35	1	5038 2505
25	M6	10	7	20	35	1	5038 2506
35	M8	12	9	32	50	1	5038 3508
35	M10	12	9	32	65	1	5038 3510
50	M8	15	17	46	75	1	5038 5008
50	M10	20	17	46	80	1	5038 5010
60	M10	20	17	50	85	1	5038 6010

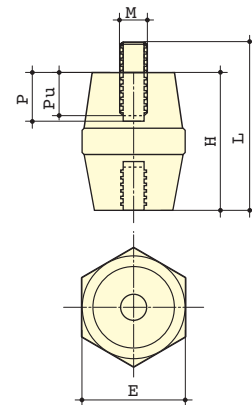


sb\_107\_a\_2\_cat

### Male to female and male to male hexagonal insulator

#### Characteristics

Height H (mm)	Threading	Voltage Nominal (V) AC/DC	Insulating voltage		Mechanical characteristics (daN)		Tightening torque max. (Nm)
			(VAC) 50 Hz 1 min	Peak	Flexion	Traction	
16	M4	500	3000	5500	100	150	3
16	M5	500	3000	5500	100	150	6
25	M5	500	3000	11000	180	400	6
25	M6	500	3000	11000	180	400	12
35	M8	1400	9000	16000	380	900	42
35	M10	1400	9000	16000	320	800	44
50	M8	2000	12000	21500	650	1800	60
50	M10	2000	12000	21500	650	1700	70
60	M10	2400	12000	27000	560	1600	85



sb\_058\_d\_1\_x\_cat

### Grub 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

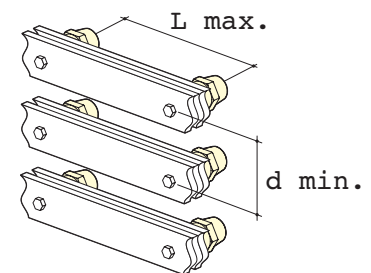
## Define your exact busbar

- > For your busbar, fitted with hexagonal insulators, to be mechanically resistant to a short-circuit, it must correspond to the table below.

Values according to IEC 61439-1.

## General characteristics

Height H (mm)	Threading	Bar x qty	L max. (support bars in mm) for						d min. (mm)	Iz (A) <sup>(1)</sup>	
			peak I <sub>sc</sub>	24 kA		48 kA		82 kA			
			rms I <sub>sc</sub>	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	275	170		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		



sb\_164\_a\_1\_x\_cat

(1) Admissible busbar nominal current with a temperature inside the panel of between 113°F and 176°F.  
For other mounting configurations, please contact us.

# Busbar supports

## Busbar

### SB 1 - SB 2 multipolar flat mounting busbar supports

#### References

Support	Insulation voltage (VAC)	No. of bars	Bar width (mm)	To be ordered in multiples of	Reference
SB 1	690	1	20 -25	6	5021 0110
SB 2	690	1	32 -40	6	5022 0110



sb\_108.psd

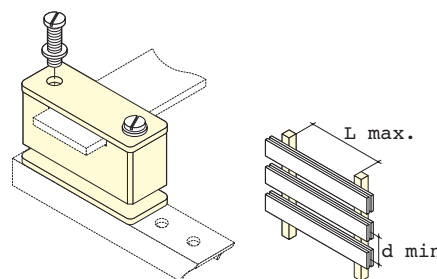
#### Ordering guide

SB 1: bar of max. width 25 mm  
SB 2: bar of max. width 40 mm

#### Characteristics

Support	Bar x qty	peak $I_{sc}$	L max. (support bars in mm) for					d min. (mm)	Iz (A) <sup>(1)</sup>
			24 kA	48 kA	63 kA	82 kA	114 kA		
			rms $I_{sc}$	12 kA	23 kA	30 kA	39 kA		
SB 1	20 x 3 x 1	650	325	250	175	135	50	210	
SB 1	20 x 5 x 1	850	425	325	250	175	50	280	
SB 1	25 x 5 x 1	1000	525	400	300	200	50	330	
SB 2	32 x 5 x 1	1000	750	575	450	300	70	410	
SB 2	40 x 5 x 1	1000	950	700	550	400	70	500	

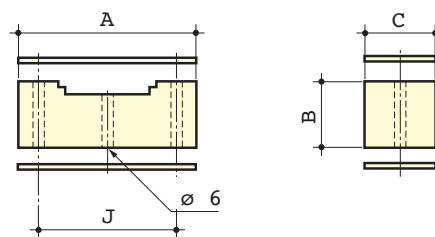
(1) Admissible busbar nominal current with a temperature inside the panel of between 113°C and 176°C. For other mounting configurations, please contact us.



sb\_150\_a\_1\_x\_cat

#### Dimensions

Support	A	B	C	J
SB 1	50	23	20	34
SB 2	68	23	23.5	50



sb\_014\_c\_1\_x\_cat

## SB 3 multipolar flat mounting busbar supports

### References

Support	Insulation voltage (VAC)	No. of bars	Bar width (mm)	To be ordered in multiples of	Reference
SB 3 without screws	690	1 - 2	32 -63	6	5023 0111
SB 3 with screws <sup>(1)</sup>	690	1 - 2	32 -63	6	5023 0110

(1) SB 3 bars and with screws.



sb\_118.eps

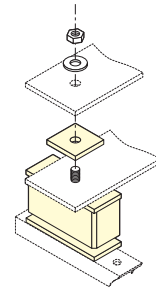
#### Ordering guide

SB 3: 1 to 2 bars of max. recommended width 63 mm.

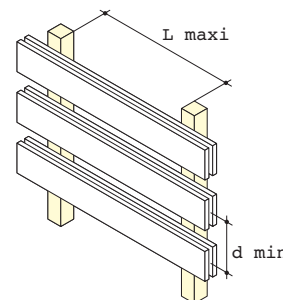
### Characteristics

peak I <sub>sc</sub>	L max. (support bars in mm) for					d min. (mm)	Iz (A) <sup>(1)</sup>
	24 kA	48 kA	63 kA	82 kA	114 kA		
rms I <sub>sc</sub>	12 kA	23 kA	30 kA	39 kA	52 kA		
Bar x qty							
32 x 5 x 2	1000	1000	925	700	500	70	580
40 x 5 x 2	1000	1000	1000	1000	1000	70	700
50 x 5 x 2	1000	1000	1000	925	675	75	850
63 x 5 x 2	1000	1000	1000	1000	1000	85	1000

(1) Admissible busbar nominal current with a temperature inside the panel of between 113°F and 176°F. For other mounting configurations, please contact us.



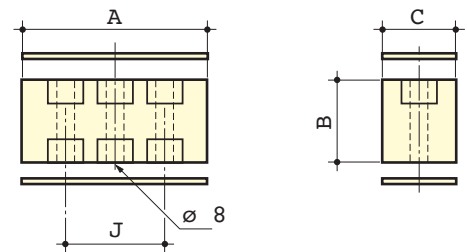
sb\_008\_a\_1\_x\_cat



sb\_023\_b\_1\_fr\_cat

### Dimensions

Support	A	B	C	J
SB 3 without screws	65	32	28	36
SB 3 with screws	65	32	28	36



sb\_089\_b\_1\_x\_cat

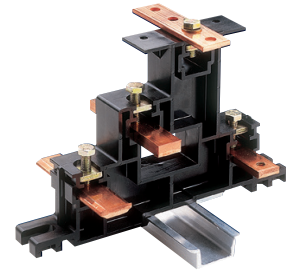
# Busbar supports

## Busbar

### SB E 44 four pole stair type supports

#### References

No. of poles	Pack qty	Reference
4 P	1	5028 0410
Accessories	Pack qty	Reference
270 mm long protection screen kit	1	5028 0411
420 mm long protection screen kit	1	5028 0412
620 mm long protection screen kit	1	5028 0413
Set of 20 protection screen adaption spacers	1	5028 0415



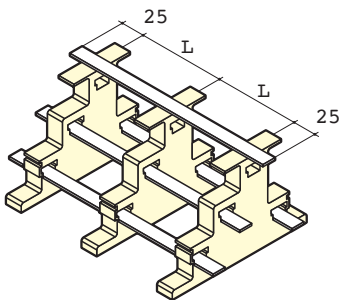
sb\_038.eps

#### Characteristics

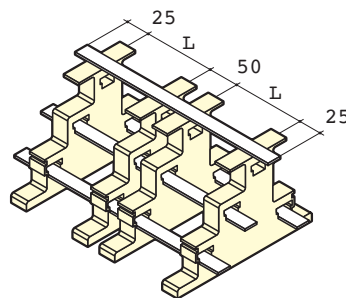
Support	Bar x qty	L max. (support bars in mm) for						Iz (A) <sup>(1)</sup>	
		peak I <sub>sc</sub>	10 kA	15 kA	24 kA	38 kA	48 kA		63 kA
		rms I <sub>sc</sub>	6 kA	9 kA	12 kA	19 kA	23 kA		30 kA
Type 1	15 x 3 x 1	950	625	400	250	175		160	
Type 1	15 x 5 x 1	1000	825	500	300	175		220	
Type 1	15 x 6 x 1	1000	900	550	300	200		250	
Type 1	15 x 8 x 1	1000	1000	650	300	200		290	
Type 1	20 x 3 x 1	1000	825	525	300	175		210	
Type 1	20 x 5 x 1	1000	1000	675	300	175		280	
Type 1	20 x 6 x 1	1000	1000	750	300	175		310	
Type 1	20 x 8 x 1	1000	1000	775	300	175		370	
Type 1	32 x 5 x 1	1000	1000	675	250	170		410	
Type 1	32 x 6 x 1	1000	1000	675	250	170		460	
Type 2	15 x 3 x 1	950	625	400	250	200	150	160	
Type 2	15 x 5 x 1	1000	825	500	325	250	175	220	
Type 2	15 x 6 x 1	1000	900	550	350	275	200	250	
Type 2	15 x 8 x 1	1000	1000	650	400	325	225	290	
Type 2	20 x 3 x 1	1000	825	525	325	250	200	210	
Type 2	20 x 5 x 1	1000	1000	675	425	325	225	280	
Type 2	20 x 6 x 1	1000	1000	750	450	375	225	310	
Type 2	20 x 8 x 1	1000	1000	850	525	375	225	370	
Type 2	32 x 5 x 1	1000	1000	1000	525	325	175	410	
Type 2	32 x 6 x 1	1000	1000	1000	525	325	175	460	

(1) Admissible busbar nominal current with a temperature inside the panel of between 113°F and 176°F. For other mounting configurations, please contact us. **N.B.:** Iz indicated is for a solid (undrilled) busbar.

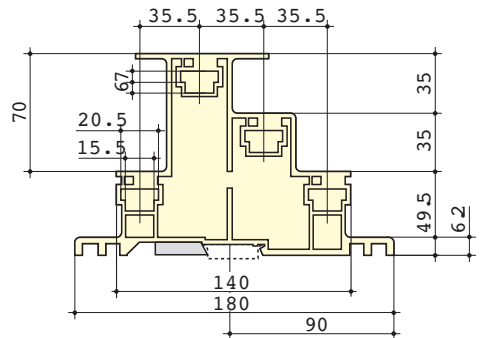
#### Dimensions



sb\_041\_b\_1\_x\_cat



sb\_047\_a\_1\_x\_cat



sb\_036\_e\_1\_x\_cat

Type 1: Busbars including 3 (or more) equally spaced SB E 44 supports.

Type 2: Busbars with 3 (or more) SB E 44 supports with doubled intermediary supports.

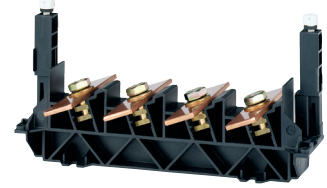
Mounting with elliptical holes: 150 to 170 mm.

■ **SB P 44** four pole flat mounting busbar support with fixed interphase, for mounting angled bars

## References

No. of poles	Insulation voltage (VAC)	Bar width (mm)	Pack qty	Reference
4 P	1,000	20 -32	1	5026 0450

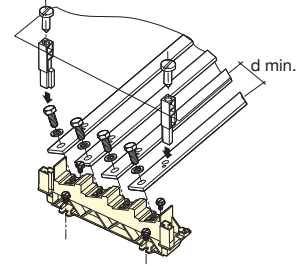
SB P 44: 1 bar of 5 or 10 mm thickness with a width of 20, 25, 30 or 32 mm.  
Please note: protection cover not supplied.



sb\_170.psd

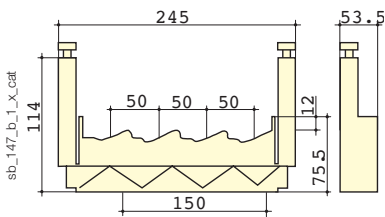
## Characteristics

peak $I_{sc}$	L max. (support bars in mm) for						d min. (mm)	Iz (A)	
	10 kA	15 kA	24 kA	48 kA	63 kA	82 kA			
rms $I_{sc}$	6 kA	9 kA	12 kA	23 kA	30 kA	39 kA			
Bar x qty									
20 x 5 x 1	1000	1000	800	350	200	125	50	280	
25 x 5 x 1	1000	1000	1000	350	200	125	50	330	
32 x 5 x 1	1000	1000	1000	350	200	120	50	390	
25 x 10 x 1	1000	1000	1000	350	200	125	50	500	
30 x 10 x 1	1000	1000	1000	350	200	120	50	580	
32 x 10 x 1	1000	1000	1000	350	200	120	50	610	



sb\_165\_c\_1\_x\_cat

## Dimensions



sb\_147\_b\_1\_x\_cat