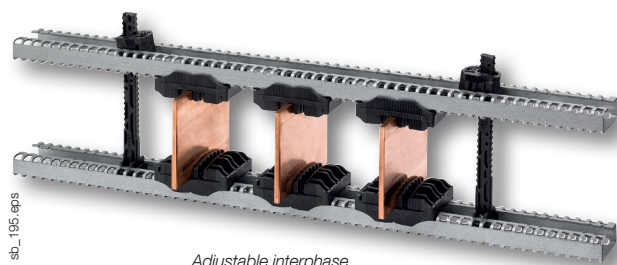


Busbar supports

Edgewise mounting with adjustable interphase



The solution for

- > Electrical distribution



Conformity to standards

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



Strong points

- > Insulating materials
- > Durability
- > Adaptability

Function

With SOCOMEC's **insulating bar supports** you can:

- mount and attach the busbars inside the electrical panel,
- cope with the forces experienced by the busbars during a short circuit.

Advantages

Insulating materials

Our range of SB C upright supports (studs) with adjustable interphase is made using thermoplastic. This very resistant material (reinforced fibreglass) is insulating so there are no risks in terms of clearance and creepage distances.

Amagnetism of assembly parts.

High resistance to damp heat (supplied "tropicalised").

Durability

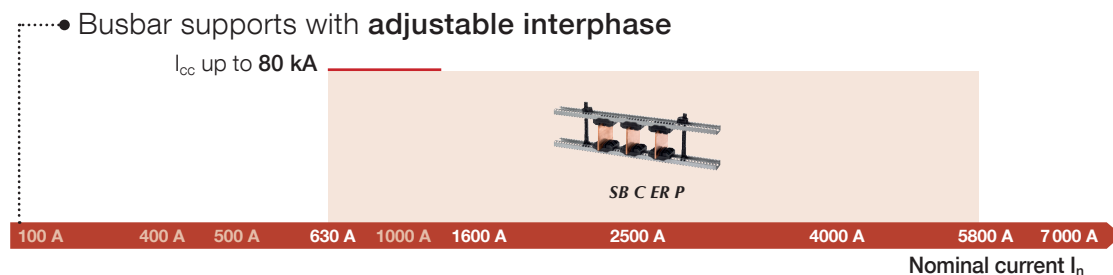
Standard spacers are made of high-strength insulating material. If used in extreme conditions or for greater robustness, metal rod kits are available.

Adaptability

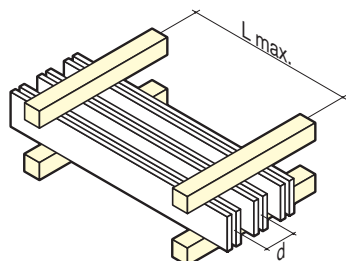
The studs are fixed onto profiles adapted to standard cabinet sizes.

Selection guide

Edgewise mounting



What you need to know



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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 as long as they adhere to the insulation distances.

Busbar supports

Edgewise mounting with adjustable interphase

References

Full support

Description	Thickness of busbar (mm)	Busbar width (mm)	Number of bars	No. of poles	Reference
Complete busbar supports	10	480	1 ... 3	4	5025 5135

Stud

Ordering guide

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

Stud	Bar thickness (mm)	Number of bars	No. of poles	Quantity	Available for order in multiples of	Reference
Stud for 5 mm bars	5	3	3 P	6 ⁽¹⁾	8	5025 5205
Stud for 5 mm bars	5	3	4 P	8 ⁽¹⁾	8	5025 5205
Stud for 10 mm bars	10	2	3 P	6 ⁽¹⁾	4	5025 5210
Stud for 10 mm bars	10	2	4 P	8 ⁽¹⁾	4	5025 5210
Stud for 10 mm bars	10	3	3 P	6 ⁽¹⁾	1	5025 5111
Stud for 10 mm bars	10	3	4 P	8 ⁽¹⁾	1	5025 5111

(1) Quantity required for 1 busbar support

(2) Kit of 2 profiles and 4 brackets.

Mounting accessories	Length (mm)	Quantity	Available for order in multiples of	Reference
Rod kit (bar height 25 to 200 mm)		2 ⁽¹⁾	4	5025 5100
Metal rod kit (bar height 0 to 100 mm)		2	2	5025 5101
Metal rod kit (bar height 0 to 200 mm)		2	2	5025 5102
380 mm profile	380	2 ⁽¹⁾	4	5025 5124
480 mm profile	480	2 ⁽¹⁾	4	5025 5125
580 mm profile	580	2 ⁽¹⁾	4	5025 5126
780 mm profile	780	2 ⁽¹⁾	4	5025 5128
2 m profile	2000		4	5025 5120
Profile for Prisma enclosure ⁽²⁾	525	1 ⁽¹⁾	1	5025 5130

Characteristics

5 mm stud / 3 bars and 10 mm stud / 2 bars

peak I _{cc}	L max. (support bars in mm) for						
	82 kA	114 kA	152 kA	165 kA	187 kA		
rms I _{cc}	39 kA	52 kA	69 kA	75 kA	85 kA		
Bar x qty						d min. (mm)	Iz (A) ⁽¹⁾
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.

Characteristics (continued)

10 mm studs / 3 bars

peak I_{cc} rms I_{cc}	L max. (support bars in mm)						d (mm)	Iz (A) ⁽¹⁾
	63 kA	82 kA	114 kA	152 kA	165 kA	187 kA		
	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

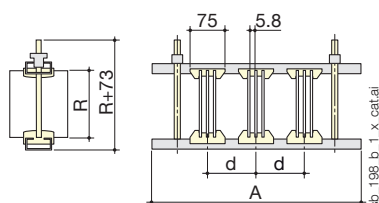
(1) Admissible busbar nominal current with a temperature inside the panel of between 45 °C and 80 °C.
For other mounting configurations, please contact us

Dimensions (mm)

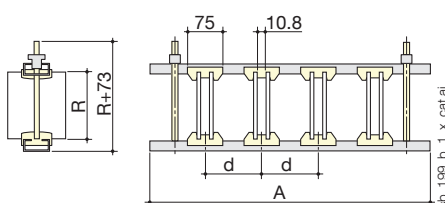
Mounting

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

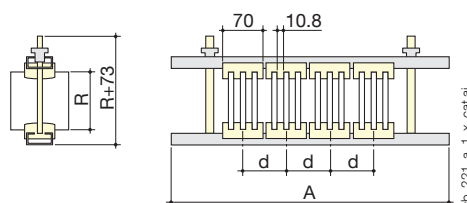
A (mm)	Cabinet (mm)
380	400
480	500
580	600
780	800



5 mm stud / 3 bars



10 mm stud / 2 bars



10 mm studs / 3 bars