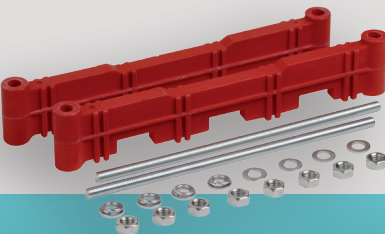


Busbar supports

SPI SERIES

DIMENSIONS (mm)



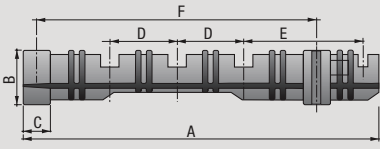
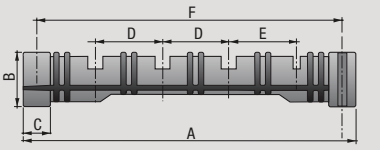
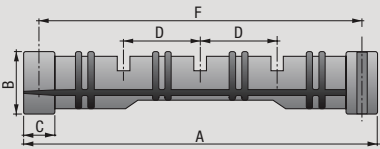
TECHNICAL CHARACTERISTICS

Series of insulators designed to be used as a busbar support element in three-phase systems and three-phase plus neutral systems.

The series consists of two families, each divided into four different measurements dimensionally related to the sections of the bars, four for the three-phase system and four for the three-phase plus neutral system.

The insulator consists of two crossbars on which socket slots are obtained whose width, which can be completed with a simple and patented system of rider spacers, allows the different bar sections to be adapted by always keeping the axle base constant between the phases. Everything is fitted with threaded shafts, washers and zinc coated nuts for fastening to the frame and the clamping of the two crossbars. Made of polyester resin with the addition of a high percentage of glass fibres, they guarantee a high electrodynamic resistance over time in case of faulty currents and an excellent performance in contaminated atmospheres.

- Colour: red RAL-3002 (a different colour can be provided on request in case of large orders)
- Arc resistance: > 120 s - ASTM D-495
- Material: self-extinguishing in class V0 (3.2 mm) according to the UL-94 standard
- Operating temperature: -40 °C ÷ +130 °C
- Water absorption: < 0.15% - UNI 4292
- Tracking resistance: 300 W/min - ASTM D-2303
- Dielectric rigidity: 12 kV/mm - UNI 4291
- Shock resistance: 25 kJ/m² - UNI 6062
- Expansion coefficient: 2x10-5 °C - UNI 6061
- AC/DC operating voltage: 750/900 V
- Max rated voltage at 50 Hz for 1 min: 3 kV
- Max rated pulse voltage: 8 kV

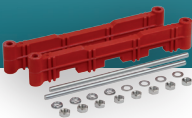


		Dimensions (mm)					
Code	Model	A	B	C	D	E	F
SA497500	SPI 31	173	32	17	40	-	156
SA498300	SPI 32	237	44	23	60	-	214
SA499100	SPI 33	293	52	23	80	-	270
SA500600	SPI 34	363	62	23	110	-	340

		Dimensions (mm)					
Code	Model	A	B	C	D	E	F
SA501400	SPI 41	213	34	17	40	40	196
SA502200	SPI 42	297	47	23	60	60	274
SA503000	SPI 43	363	56	23	80	70	340

		Dimensions (mm)					
Code	Model	A	B	C	D	E	F
SA504800	SPI 44	422	62	23	110	110	340

INSULATORS AND BUSBAR SUPPORTS

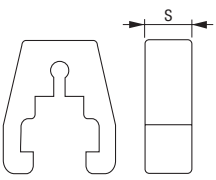
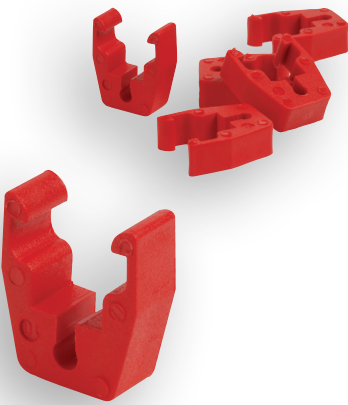


SELECTABLE ELEMENTS

Three-phase system		Three-phase system+Neutral		Bar dimensions (mm)		Ultimate strength	Busbar
Code	Model	Code	Model	Phase	Neutral	(daN)	supports size
SA497500	SPI 31	SA501400	SPI 41	I	32x4 - 63x5	780	I
SA498300	SPI 32	SA502200	SPI 42	I	50x5 - 100x10	1300	II
				I	50x5 - 100x5		
SA499100	SPI 33	SA503000	SPI 43	I	50x8 - 125x10	2000	III
				I	50x5 - 125x10		
SA500600	SPI 34	SA504800	SPI 44	I	50x8 - 160x10	2500	IV
				I	50x5 - 160x10	2500	

Ultimate strength tolerance ±10% 1 daN = 10 N

Spacing slugs



DIMENSIONS (mm)

Code	Model	Thickness S (mm)
SA477700	SB 010	1
SA478500	SB 020	2
SA479300	SB 025	2.5
SA480100	SB 030	3
SA481900	SB 035	3.5
SA482700	SB 040	4
SA483500	SB 045	4.5
SA484300	SB 050	5
SA485000	SB 060	6
SA486800	SB 075	7.5
SA487600	SB 080	8
SA488400	SB 100	10
SA489200	SB 110	11

Busbar supports and spacers: one bar per phase

SPI SERIES

Distance between phases	Phase bar height (mm)		Bar thickness (mm)				Rated current (A)	Symmetrical short circuit current between phases (kA)				Symmetrical short circuit current between phases (kA)										Three-phase system			Three-phase system+Neutral												
			Phase		Neutral*		In	5	7.5	10	15	20	25	30	35	40	45	50	60	70	Busbar supports	Spacers	Positioning diagram	Busbar supports	Spacers	Positioning diagram											
	32	40	50	63	80	100	125	160	4	5	6	8	10	4	5	Copper	Aluminium																				
	■								■					■		380	230	650	435	330				SPI31	6-SB 10	2	SPI41	8-SB 10	7								
	■									■				■		420	250	820	550	410	275				SPI31	-	1	SPI41	2-SB 10	6							
		■								■				■		470	280	730	490	365				SPI31	6-SB 10	2	SPI41	8-SB 10	7								
		■									■			■		520	310	915	610	460	305				SPI31	-	1	SPI41	2-SB 10	6							
			■							■				■		570	340	820	545	410	275				SPI31	6-SB 10	2	SPI41	8-SB 10	7							
			■								■			■		630	380	1020	680	510	340				SPI31	-	1	SPI41	2-SB 10	6							
				■						■				■		680	410	920	615	460	310				SPI31	6-SB 10	2	SPI41	8-SB 10	7							
				■							■			■		760	460	1145	765	575	385	290			SPI31	-	1	SPI41	2-SB 10	6							
			■							■			■		630	380	1250	835	625	420				SPI32	12-SB 50	3	SPI42	12-SB 50+2-SB 40	8								
			■								■			■		700	420		1000	750	500	375	300		SPI32	12-SB 45	3	SPI42	12-SB 45+2-SB 40	8							
			■									■		■		790	470		1000	670		500	400	335		SPI32	12-SB 35	3	SPI42	12-SB 35+2-SB 40	8						
			■										■		■	870	520		1250	835		625	500	420	360	315	SPI32	12-SB 25	3	SPI42	12-SB 25+2-SB 30	8					
				■							■			■		760	460	1400	935	705	470	350	280		SPI32	12-SB 50	3	SPI42	12-SB 50+2-SB 40	8							
				■								■		■		840	500		1125	845	560	420	340	280		SPI32	12-SB 45	3	SPI42	12-SB 45+2-SB 40	8						
				■								■		■		950	570		1125	750		565	450	375	320		SPI32	12-SB 35	3	SPI42	12-SB 35+2-SB 40	8					
				■									■		■	1100	660		1405	935		705	565	470	400	350	SPI32	12-SB 25	3	SPI42	12-SB 25+2-SB 30	8					
					■						■			■		930	560		1055	790	530	395	316	265		SPI32	12-SB 50	3	SPI42	12-SB 50+2-SB 40	8						
					■							■		■		1030	620		1265	950	635	475	380	220		SPI32	12-SB 45	3	SPI42	12-SB 45+2-SB 40	8						
					■								■		■	1130	680		1265	845		635	515	425	365	320	SPI32	12-SB 35	3	SPI42	12-SB 35+2-SB 40	8					
					■									■		1250	750		1055			790	635	530	455	395	SPI32	12-SB 25	3	SPI42	12-SB 25+2-SB 30	8					
					■					■			■		1120	670		1180	885	590	445	355	295		SPI32	12-SB 50	3	SPI42	12-SB 50+2-SB 40	8							
					■						■		■		1220	730		1415	1060	710	530	425	355		SPI32	12-SB 45	3	SPI42	12-SB 45+2-SB 40	8							
					■							■		■	1340	800		1415	945		710	565	470	405	355	315	SPI32	12-SB 35	3	SPI42	12-SB 35+2-SB 40	8					
					■								■		1480	890			1180			885	710	590	505	405	320	SPI32	12-SB 25	3	SPI42	12-SB 25+2-SB 30	8				
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						■								■		870	520		1445	965		725	580	485	415	365	325	SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8				
							■						■		950	570		1300	865		650	520	435	370	325		SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8					
							■						■		1100	660			1080			810	650	540	465	405	360	325	SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8			
							■							■		1130	680		1460	975		730	585	490	420	365		SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8				
							■							■		1250	750			1215			915	730	610	525	460		SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8			
								■						■		1340	800			1090			820	655	545	470	410	365	330	SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8		
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							■						■		1560	940			1220			915	730	610	525	460		SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8				
							■						■		1750	1050			1520			1140	915	760	655	570	510	460	370	SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8		
								■					■		790	470		1355	915		680	545	455	390	340	305	270	SPI34	12-SB 110	3	SPI44	12-SB 110+2-SB 60	8				
								■					■		870	520			1060			850	680	565	485	425	375	340	285	SPI34	12-SB 100	3	SPI44	12-SB 100+2-SB 50	8		
									■				■		950	570			1015			760	610	505	435	380	340	305	SPI34	12-SB 110	3	SPI44	12-SB 110+2-SB 60	8			
										■			■		1100	660			1265			950	760	635	545	475	425	380	315	270	SPI34	12-SB 100	3	SPI44	12-SB 100+2-SB 50	8	
											■		■		1130	680			1140			855	685	570	490	430	380	345	290	SPI34	12-SB 110	3	SPI44	12-SB110+2-SB 60	8		
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															■		1750	1050						1340	1070	895	765	670	595	535	445	385	SPI34	12-SB 100	3	SPI44	12-SB 100+2-SB 50
															■		2080	1250				1515	1210	1010	865	755	670	605	505	430	SPI34	12-SB 100	3	SPI44	12-SB 100+2-SB 50	8	

* Three-phase+Neutral system

Busbar supports and spacers: two bars per phase
SELECTABLE ELEMENTS

SPI SERIES

Distance between phases	Phase bar height (mm)		Bar thickness (mm)		Rated current (A) In	Symmetrical short circuit current between phases (kA)																Three-phase system			Three-phase system+Neutral														
	Phase	Neutral*	Copper	Aluminium		10	15	20	25	30	35	40	45	50	60	70	Busbar supports	Positioning diagram	Busbar supports	Positioning diagram																			
					Distance between supports (mm)	10	15	20	25	30	35	40	45	50	60	70																							
	32	40	50	63	80	100	125	160	4	5	6	8	10	4	5	6	8	10	Copper	Aluminium	1250	835	625	500	420	360	315												
			■							■					■				1050	630		835	625	500	420	360	315												
				■						■					■				1270	760		1405	935	705	565	470	400	350											
					■					■					■				1530	920			1055	790	635	530	455	395	320										
					■					■					■				1820	1090			1180	885	710	590	505	405	320										
			■							■					■				1050	630		1445	965	725	580	480	415	360	320										
			■								■					■			1150	690		1155	865	695	580	495	435	385	350	290									
			■									■					■		1300	780			1155	925	770	660	580	515	465	370	270								
			■										■					■	1420	850			1445	1155	965	825	725	640	530	370	270								
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					■												■		1530	920		1215	915	730	610	525	460	405	365	305									
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														■				2420	1450				1425	1225	1070	950	855	715	610										
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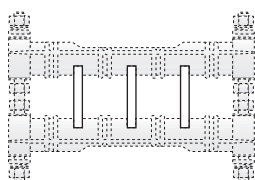
* Three-phase+Neutral system

Busbar supports SPACER POSITIONING DIAGRAMS

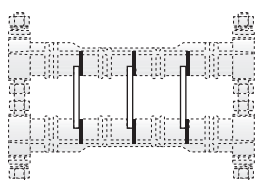
SPI SERIES

THREE-PHASE SYSTEM

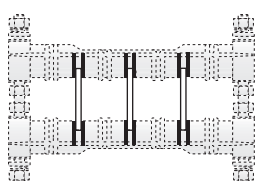
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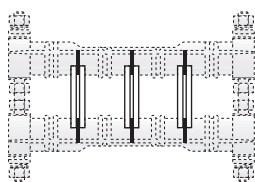
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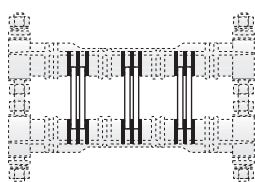
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N° 4

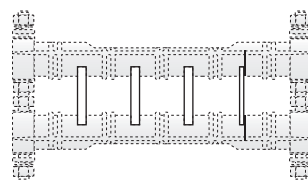


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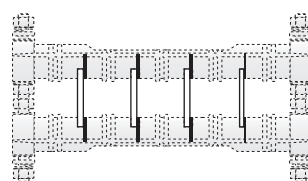


THREE-PHASE + NEUTRAL SYSTEM

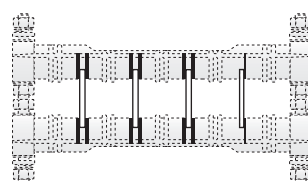
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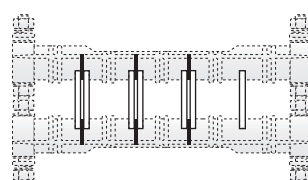
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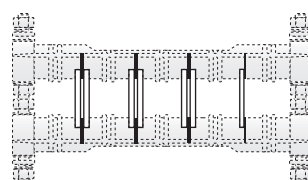
N° 8



N° 9



N° 10



N° 11

