

Busbar supports

SPI SERIES

DIMENSIONS (mm)

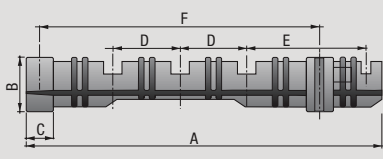
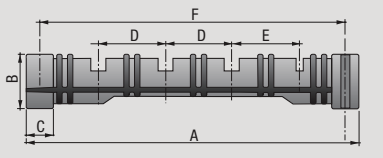
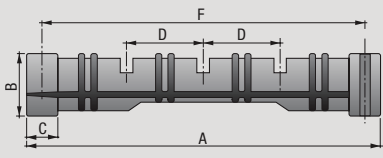
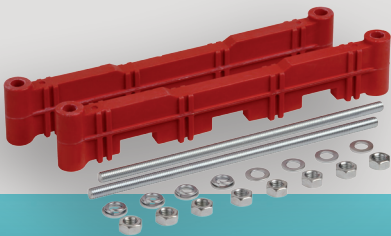
TECHNICAL CHARACTERISTICS

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

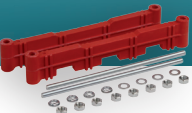
		Dimensions (mm)					
Code	Model	A	B	C	D	E	F
SA504800	SPI 44	422	62	23	110	110	340

INSULATORS AND BUSBAR SUPPORTS

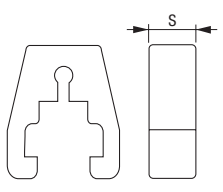
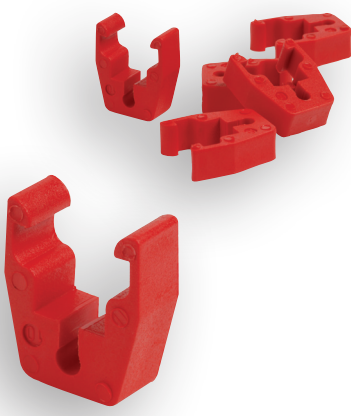
SELECTABLE ELEMENTS

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	■ 32x4 - 63x5	■ 32x4 - 63 x 4	780	I
SA498300	SPI 32	SA502200	SPI 42	■ 50x5 - 100x10	■ 50x4 - 100x5	1300	II
				■ 50x5 - 100x5			
SA499100	SPI 33	SA503000	SPI 43	■ 50x8 - 125x10	■ 50x4 - 125x10	2000	III
				■ 50x5 - 125x10			
SA500600	SPI 34	SA504800	SPI 44	■ 50x8 - 160x10	■ 50x4 - 160x10	2500	IV
				■ 50x5 - 160x10	■ 50x4 - 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) In	Symmetrical short circuit current between phases (kA)				Symmetrical short circuit current between phases (kA)												Three-phase system			Three-phase system+Neutral																									
		Phase	Neutral*		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	315													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	400	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			
								■						■		■		790	470		1155	770	580	465	385	330													SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8					
								■						■		■		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		
									■					■		■		1480	890			1360	1020	820	680	585	510	455	410	340	270													SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8
									■					■		■		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	
															■		1250	750			1425	1070	855	715	610	535	475	430	355	305													SPI34	12-SB 100	3	SPI44	12-SB 100+2-SB 50	8	
															■		1340	800			1280	960	770	640	550	480	425	385	320	275													SPI34	12-SB 110	3	SPI44	12-SB 110+2-SB 60	8	
															■		1480	890				1200	960	800	685	600	535	480	400	345													SPI34	12-SB 100	3	SPI44	12-SB 100+2-SB 50	8	
																■		1560	940			1425	1070	855	715	610	535	475	430	355	305													SPI34	12-SB 110	3	SPI44	12-SB 110+2-SB 60	8
																■		1750	1050				1340	1070	895	765	670	595	535	445	385													SPI34	12-SB 100	3	SPI44	12-SB 100+2-SB 50	8
																■		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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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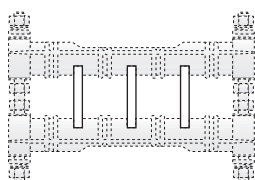
* Three-phase+Neutral system

Busbar supports SPACER POSITIONING DIAGRAMS

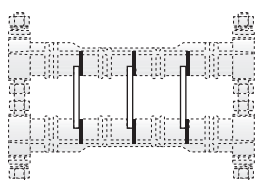
SPI SERIES

THREE-PHASE SYSTEM

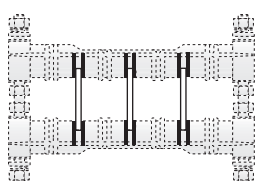
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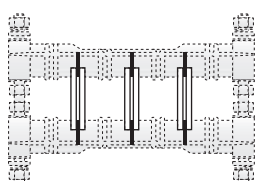
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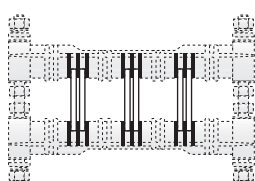
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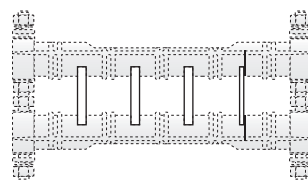


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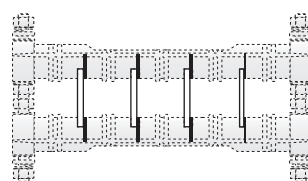


THREE-PHASE + NEUTRAL SYSTEM

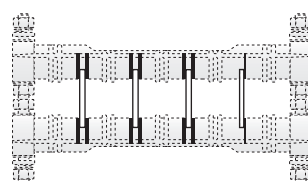
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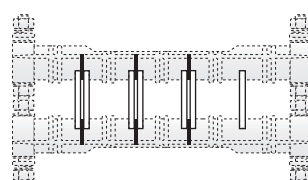
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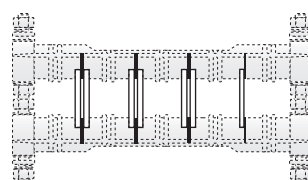
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N° 9



N° 10



N° 11

