

Busbar supports

SPI SERIES

DIMENSIONS (mm)

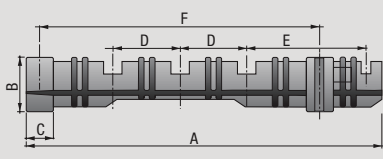
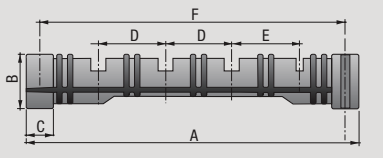
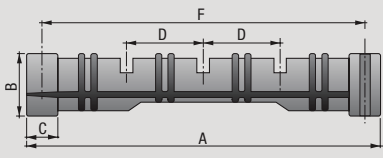
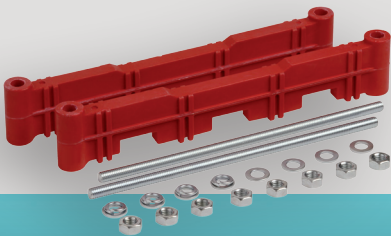
TECHNICAL CHARACTERISTICS

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

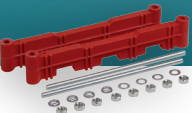
		Dimensions (mm)					
Code	Model	A	B	C	D	E	F
SA504800	SPI 44	422	62	23	110	110	340

INSULATORS AND BUSBAR SUPPORTS

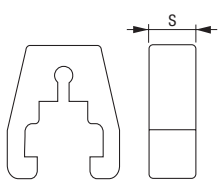
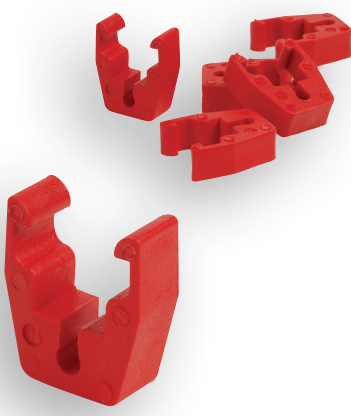
SELECTABLE ELEMENTS

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

SELECTABLE ELEMENTS

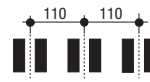
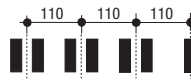
SPI SERIES

Distance between phases	Phase bar height (mm)										Bar thickness (mm)				Rated current (A) In	Symmetrical short circuit current between phases (kA)				Symmetrical short circuit current between phases (kA)										Three-phase system			Three-phase system+Neutral																														
											Phase		Neutral*																	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	5	7.5	10	15	20	25	30	35	40	45	50	60							70																											
	■								■					■		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													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													SPI32	12-SB 45	3	SPI42	12-SB 45+2-SB 40	8																								
																790	470			1000	670													SPI32	12-SB 35	3	SPI42	12-SB 35+2-SB 40	8																								
																870	520			1250	835														SPI32	12-SB 25	3	SPI42	12-SB 25+2-SB 30	8																							
																760	460	1400	935	705	470															SPI32	12-SB 50	3	SPI42	12-SB 50+2-SB 40	8																						
																840	500		1125	845	560																	SPI32	12-SB 45	3	SPI42	12-SB 45+2-SB 40	8																				
																950	570		1125	750																	SPI32	12-SB 35	3	SPI42	12-SB 35+2-SB 40	8																					
																1100	660		1405	935																		SPI32	12-SB 25	3	SPI42	12-SB 25+2-SB 30	8																				
																930	560		1055	790	530																		SPI32	12-SB 50	3	SPI42	12-SB 50+2-SB 40	8																			
																1030	620		1265	950	635																				SPI32	12-SB 45	3	SPI42	12-SB 45+2-SB 40	8																	
																1130	680		1265	845																						SPI32	12-SB 35	3	SPI42	12-SB 35+2-SB 40	8																
																1250	750			1055																							SPI32	12-SB 25	3	SPI42	12-SB 25+2-SB 30	8															
																1120	670		1180	885	590																										SPI32	12-SB 50	3	SPI42	12-SB 50+2-SB 40	8											
																1220	730		1415	1060	710																											SPI32	12-SB 45	3	SPI42	12-SB 45+2-SB 40	8										
																1340	800		1415	945																													SPI32	12-SB 35	3	SPI42	12-SB 35+2-SB 40	8									
																1480	890			1180																														SPI32	12-SB 25	3	SPI42	12-SB 25+2-SB 30	8								
																	790	470		1155	770																												SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8									
																870	520		1445	965																													SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8									
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																1100	660		1080																															SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8								
																1130	680		1460	975																													SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8									
																1250	750		1215																															SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8								
																1340	800		1090																															SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8								
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																	1560	940		1220																																						SPI33	12-SB 110	3	SPI43	12-SB 110+2-SB 60	8
																	1750	1050		1520																																					SPI33	12-SB 100	3	SPI43	12-SB 100+2-SB 50	8	
																	790	470		1355	915																																				SPI34	12-SB 110	3	SPI44	12-SB 110+2-SB 60	8	
																870	520		1060																																							SPI34	12-SB 100	3	SPI44	12-SB 100+2-SB 50	8
																950	570		1015																																							SPI34	12-SB 110	3	SPI44	12-SB 110+2-SB 60	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)		Symmetrical short circuit current between phases (kA)																Three-phase system			Three-phase system+Neutral																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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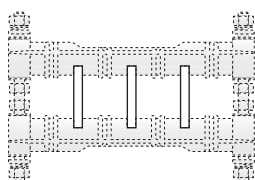
* Three-phase+Neutral system

Busbar supports SPACER POSITIONING DIAGRAMS

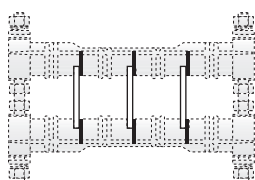
SPI SERIES

THREE-PHASE SYSTEM

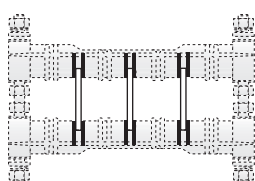
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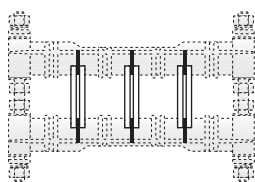
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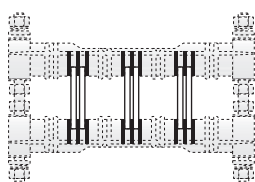
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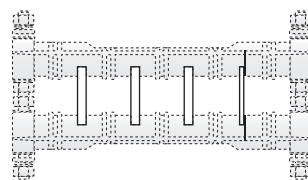


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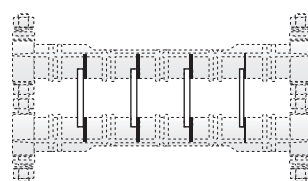


THREE-PHASE + NEUTRAL SYSTEM

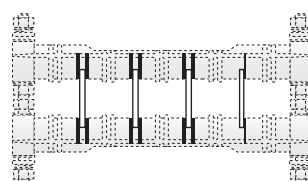
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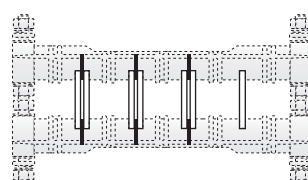
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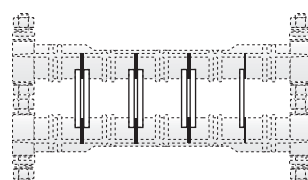
N° 8



N° 9



N° 10



N° 11

