



# Technical information

## System data

### SV-TS 8 enclosures

for cable chambers

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Enclosures						
Mechanical characteristics	Dimensions	Enclosure width	300/400/600 mm <sup>3)</sup>			
		Enclosure height	1800/2000/2200 mm <sup>3)</sup>			
		Enclosure depth	600/800 mm <sup>3)</sup>			
		Pitch pattern	25 mm			
	Protection category		Max. IP 54			IEC 60 529
Design		1 – 4			EN 61 439-1/-2	
Surface protection/ Material	Enclosure frame	Enclosure frame	Dipcoat-primed			
		Panels (roof plate, rear panel)	Dipcoat-primed, powder-coated in RAL 7035 on the outside			
		System attachment	Stainless steel			
		System rails and punched sections with mounting flanges	Sheet steel, zinc-plated			
Maxi-PLS busbar system						
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_b^{4)}$	1400 A	1800 A	2800 A	For IP 54
			1600 A	2000 A	3000 A	For IP 2X <sup>1)</sup>
			1800 A	2500 A	4000 A	For IP 2X <sup>2)</sup>
		Rated surge current resistance $I_{pk}$	110 kA		220 kA	EN 61 439-1/-2
	Rated short-time current resistance $I_{cw}$	50 kA		100 kA		
Testing under accidental arc conditions	Permissible prospective short-circuit current	50 kA		70 kA	EN 61 641	
		Test voltage	420 V			
		Permissible arc duration	0.3 sec.			
Mechanical characteristics	Busbar	Material	E-Cu, bare			
		External dimensions (cross-section)	45 x 45 mm (1000 mm <sup>2</sup> )	45 x 45 mm (1380 mm <sup>2</sup> )	60 x 60 mm (2700 mm <sup>2</sup> )	
RiLine60 busbar system						
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_b^{4)}$	800 A	1150 A		IP 54
			860 A	1300 A		IP 43
			1000 A <sup>5)</sup>	1600 A <sup>2)</sup>		IP 2X
		Rated surge current resistance $I_{pk}$	68 kA	110 kA		EN 61 439-1/-2
	Rated short-time current resistance $I_{cw}$	32 kA, 1 sec.	50 kA, 1 sec./50 kA, 3 sec.			
Testing under accidental arc conditions	Permissible prospective short-circuit current	30 kA	50 kA		EN 61 641	
		Test voltage	690 V			
		Permissible arc duration	0.3 sec.			
Mechanical characteristics	Busbar	Material	E-Cu, bare			
		Version (cross-section)	30 x 10 mm (300 mm <sup>2</sup> )	PLS 1600 (900 mm <sup>2</sup> )		
Flat-PLS busbar system						
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_b^{4)}$	2360 A	3120 A		IP 54
			2540 A	3400 A		IP 43
			4100 A <sup>2)</sup>	5500 A <sup>2)</sup>		IP 2X
		Rated surge current resistance $I_{pk}$	154 kA	220 kA		EN 61 439-1/-2
Rated short-time current resistance $I_{cw}$	70 kA, 1 sec.	100 kA, 1 sec.				
Mechanical characteristics	Busbar	Material	E-Cu, bare			
		Version (cross-section)	Up to 4 x 60 x 10 mm (max. 2400 mm <sup>2</sup> )	Up to 4 x 100 x 10 mm (max. 4000 mm <sup>2</sup> )		

<sup>1)</sup> Using outlet filter SK 3243.600 and roof plate IP 2X.

<sup>2)</sup> Using fan-and-filter unit SK 3244.100 (700 m<sup>3</sup>/h) and roof plate IP 2X.

<sup>3)</sup> Other sizes available on request.

<sup>4)</sup> Other rated currents for different protection categories on request.

<sup>5)</sup> Using fan-and-filter unit SK 3241.100 (230 m<sup>3</sup>/h) and roof plate IP 2X.

### SV-TS 8 enclosures

#### for busbar sections

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Enclosures				
Mechanical characteristics	Dimensions	Enclosure width	200/300/400 mm <sup>3)</sup>	
		Enclosure height	1800/2000/2200 mm <sup>3)</sup>	
	Enclosure depth	600/800 mm <sup>3)</sup>		
	Pitch pattern	25 mm		
	Protection category	Max. IP 54		IEC 60 529
	Design	1 – 4		EN 61 439-1/-2
	Surface protection/ Material	Enclosure frame	Dipcoat-primed	
Panels (roof plate, rear panel)		Dipcoat-primed, powder-coated in RAL 7035 on the outside		
System attachment		Stainless steel		
System rails and punched sections with mounting flanges		Sheet steel, zinc-plated		

#### General ratings data

Electrical characteristics	Rated voltage	Rated insulation voltage $U_i$	1000 V		EN 61 439-1/-2
		Rated operating voltage $U_e$	690 V		
		Rated surge voltage resistance $U_{imp}$	8 kV		
		Overtoltage category	IV		
		Level of contamination	3		
		Rated frequency	50 Hz		

Maxi-PLS busbar system <sup>6)</sup>			Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{4)}$	1400 A	1800 A	2800 A	For IP 54
			1600 A	2000 A	3000 A	For IP 2X <sup>1)</sup>
			1800 A	2500 A	4000 A	For IP 2X <sup>2)</sup>
		Rated surge current resistance $I_{pk}$	110 kA		165 kA	EN 61 439-1/-2
	Rated short-time current resistance $I_{cw}$	50 kA		75 kA		
	Testing under accidental arc conditions	Permissible prospective short-circuit current	50 kA		70 kA	EN 61 641
Test voltage		420 V				
Permissible arc duration		0.3 sec.				
Mechanical characteristics	Busbar	Material	E-Cu, bare			
		External dimensions (cross-section)	45 x 45 mm (1000 mm <sup>2</sup> )	45 x 45 mm (1380 mm <sup>2</sup> )	60 x 60 mm (2700 mm <sup>2</sup> )	

RiLine60 busbar system <sup>6)</sup>			E-Cu 30 x 10 mm	PLS 1600	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{4)}$	800 A	1150 A	IP 54
			860 A	1300 A	IP 43
			1000 A <sup>5)</sup>	1600 A <sup>2)</sup>	IP 2X
		Rated surge current resistance $I_{pk}$	68 kA		110 kA
	Rated short-time current resistance $I_{cw}$	32 kA, 1 sec.		50 kA, 1 sec./50 kA, 3 sec.	
	Testing under accidental arc conditions	Permissible prospective short-circuit current	30 kA		50 kA
Test voltage		690 V			
Permissible arc duration		0.3 sec.			
Mechanical characteristics	Busbar	Material	E-Cu, bare		
		Version (cross-section)	30 x 10 mm (300 mm <sup>2</sup> )	PLS 1600 (900 mm <sup>2</sup> )	

Flat-PLS busbar system <sup>6)</sup>			Flat-PLS 60	Flat-PLS 100	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{4)}$	2360 A	3120 A	IP 54
			2540 A	3400 A	IP 43
			4100 A <sup>2)</sup>	5500 A <sup>2)</sup>	IP 2X
		Rated surge current resistance $I_{pk}$	154 kA		220 kA
Rated short-time current resistance $I_{cw}$	70 kA, 1 sec.		100 kA, 1 sec.		
Mechanical characteristics	Busbar	Material	E-Cu, bare		
		Version (cross-section)	Up to 4 x 60 x 10 mm (max. 2400 mm <sup>2</sup> )	Up to 4 x 100 x 10 mm (max. 4000 mm <sup>2</sup> )	

<sup>1)</sup> Using outlet filter SK 3243.600 and roof plate IP 2X.

<sup>2)</sup> Using fan-and-filter unit SK 3244.100 (700 m<sup>3</sup>/h) and roof plate IP 2X.

<sup>3)</sup> Other sizes available on request.

<sup>4)</sup> Other rated currents for different protection categories on request.

<sup>5)</sup> Using fan-and-filter unit SK 3241.100 (230 m<sup>3</sup>/h) and roof plate IP 2X.

<sup>6)</sup> Usability of the various busbar systems depends on the enclosure width.