

Power distribution

System data

Operating and ambient conditions for Ri4Power switchgear assemblies

Chapter 2-106, page 1 – 7

The siting conditions for Ri4Power systems are identical for all field types. Any requirements which deviate from this should be agreed with the product management team.

Operating and ambient conditions	Ambient temperature	Short-term peak	+40°C	IEC 61 439-1 IEC 61 439-2
		Maximum on a 24 h average	+35°C	
		Low	-5°C	
	Atmospheric conditions	Normal climatic stress		IEC 61 439-1 IEC 61 439-2
		Relative humidity	50% at 40°C 90% at 20°C (without dewing/condensation due to temperature fluctuations)	
			Operation up to 2000 m above sea level	

Additional field-specific technical data for the tested field types is listed in detail on the following pages. This data represents the maximum, tested figures. For optimum adaptation of customer requirements to the possible

system assemblies, we recommend use of the latest version of the Rittal Power Engineering software.

Enclosures

for distribution enclosures up to 1250 A

Enclosures				
Mechanical characteristics	Dimensions	Enclosure width	600/850/1100 mm	
		Enclosure height	2000 mm	
	Protection category	Enclosure depth	400/600 mm	
		Pitch pattern	25 mm	
	Type		IP 20 without door/IP 55 with door	IEC 60 529
	Surface protection/ Material	Enclosure frame		Dipcoat-primed
Panels (roof plate, rear panel)			Dipcoat-primed, powder-coated in RAL 7035 on the outside	
System rails and punched sections with mounting flanges			Sheet steel, zinc-plated	
Protective measures	Protection category		1 (with PE conductor)	

General ratings data

Electrical characteristics	Rated voltage	Rated insulation voltage U_i	1000 V	IEC 61 439-1/-2
		Rated operating voltage U_e	690 V	
		Rated impulse withstand voltage U_{imp}	8 kV	
		Overvoltage category	3	
		Contamination level	3	
		Rated frequency	50 Hz	

Busbar system		E-Cu 30 x 10 mm	E-Cu 40 x 10 mm	E-Cu 80 x 10 mm		
Electrical characteristics	Rated current (primary busbar)	Rated operating current I_e	630 A	850 A	1250 A	IP 54
		Rated peak withstand current I_{pk}	85 kA	95 kA	87 kA	IEC 61 439-1/-2
		Rated short-time withstand current I_{CW}	45 kA			
	Testing under accidental arc conditions	Permissible prospective short-circuit current				EN 61 641
Test voltage						
Permissible arc duration						
Mechanical characteristics	Busbar	Material	E-Cu, bare			
		External dimensions (cross-section)	30 x 10 mm (300 mm ²)	40 x 10 mm (400 mm ²)	80 x 10 mm (800 mm ²)	
		Bar centre distance	60 mm	100 mm	185 mm	

Enclosures

for air circuit-breakers and moulded case circuit-breakers (ACB + MCCB)

Enclosures					
Mechanical characteristics	Dimensions	Enclosure width	400/600/800 mm		
		Enclosure height	1800/2000/2200 mm		
		Enclosure depth	600/800 mm		
		Pitch pattern	25 mm		
		Protection category	Max. IP 54		IEC 60 529
		Type	1 – 4		IEC 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		IEC 61 439-1/-2
		Rated operating voltage U_e	690 V		
		Rated impulse withstand voltage U_{imp}	8 kV		
		Overvoltage category	IV		
		Contamination level	3		
		Rated frequency	50 Hz		

Maxi-PLS busbar system			Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200		
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	1400 A	1800 A	2800 A	IP 54	
			1600 A	2000 A	3000 A	IP 2X ¹⁾	
			1800 A	2500 A	4000 A	IP 2X ²⁾	
	Testing under accidental arc conditions	Rated peak withstand current I_{pk}	110 kA		220 kA	IEC 61 439-1/-2	
			Rated short-time withstand current I_{cw}	50 kA			100 kA
				Permissible prospective short-circuit current			50 kA
Mechanical characteristics			Busbar	Material	E-Cu, bare		
	External dimensions (cross-section)	45 x 45 mm (1000 mm ²)		45 x 45 mm (1380 mm ²)	60 x 60 mm (2700 mm ²)		

RiLine busbar system			E-Cu 30 x 10 mm	PLS 1600			
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	800 A	1150 A	IP 54		
			860 A	1300 A	IP 43		
			1000 A ⁴⁾	1600 A ²⁾	IP 2X		
	Testing under accidental arc conditions	Rated peak withstand current I_{pk}	68 kA		110 kA	IEC 61 439-1/-2	
			Rated short-time withstand current I_{cw}	32 kA, 1 sec.			50 kA, 1 sec./50 kA, 3 sec.
				Permissible prospective short-circuit current			30 kA
Mechanical characteristics			Busbar	Material	E-Cu, bare		
	Version (cross-section)	30 x 10 mm (300 mm ²)		PLS 1600 (900 mm ²)			

Flat-PLS busbar system			Flat-PLS 60	Flat-PLS 100	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	2360 A	3120 A	IP 54
			2540 A	3400 A	IP 43
			4100 A ²⁾	5500 A ²⁾	IP 2X
			Rated peak withstand current I_{pk}	154 kA	220 kA
Rated short-time withstand current 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 ²)	Up to 4 x 100 x 10 mm (max. 4000 mm ²)	

¹⁾ Using outlet filter SK 3243.600 and roof plate IP 2X

²⁾ Using fan-and-filter unit SK 3244.100 (700 m³/h) and roof plate IP 2X

³⁾ Other rated currents for different protection categories on request

⁴⁾ Using fan-and-filter unit SK 3241.100 (230 m³/h) and roof plate IP 2X

Power distribution

System data

Enclosures

for coupling sections

Enclosures				
Mechanical characteristics	Dimensions	Enclosure width	600/800/1000 mm	
		Enclosure height	2000/2200 mm	
	Enclosure depth	600/800 mm		
	Pitch pattern	25 mm		
	Protection category	Max. IP 54		IEC 60 529
	Type	1 – 4		IEC 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		IEC 61 439-1/-2
		Rated operating voltage U_e	690 V		
		Rated impulse withstand voltage U_{imp}	8 kV		
		Overvoltage category	IV		
		Contamination level	3		
		Rated frequency	50 Hz		

Maxi-PLS busbar system			Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	1400 A	1800 A	2800 A	For IP 54
			1600 A	2000 A	3000 A	For IP 2X ¹⁾
			1800 A	2500 A	4000 A	For IP 2X ²⁾
	Testing under accidental arc conditions	Rated peak withstand current I_{pk}	110 kA	165 kA		IEC 61 439-1/-2
			Rated short-time withstand current I_{cw}	50 kA	75 kA	
Permissible prospective short-circuit current				50 kA	70 kA	
Mechanical characteristics	Busbar	Material	E-Cu, bare			EN 61 641
		External dimensions (cross-section)	45 x 45 mm (1000 mm ²)	45 x 45 mm (1380 mm ²)	60 x 60 mm (2700 mm ²)	

RiLine busbar system			E-Cu 30 x 10 mm	PLS 1600	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	800 A	1150 A	IP 54
			860 A	1300 A	IP 43
			1000 A ⁴⁾	1600 A ²⁾	IP 2X
			Rated peak withstand current I_{pk}	68 kA	110 kA
	Rated short-time withstand current I_{cw}	32 kA, 1 sec.	50 kA, 1 sec./50 kA, 3 sec.		
Permissible prospective short-circuit current		30 kA	50 kA		
Testing under accidental arc conditions	Test voltage	690 V	EN 61 641		
		Permissible arc duration	0.3 sec.		
Mechanical characteristics	Busbar	Material	E-Cu, bare		
		Version (cross-section)	30 x 10 mm (300 mm ²)	PLS 1600 (900 mm ²)	

Flat-PLS busbar system			Flat-PLS 60	Flat-PLS 100	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	2360 A	3120 A	IP 54
			2540 A	3400 A	IP 43
			4100 A ²⁾	5500 A ²⁾	IP 2X
			Rated peak withstand current I_{pk}	154 kA	220 kA
Rated short-time withstand current I_{cw}	70 kA, 1 sec.	100 kA, 1 sec.			
	Material	E-Cu, bare			
Mechanical characteristics	Busbar	Version (cross-section)	Up to 4 x 60 x 10 mm (max. 2400 mm ²)	Up to 4 x 100 x 10 mm (max. 4000 mm ²)	

¹⁾ Using outlet filter SK 3243.600 and roof plate IP 2X

²⁾ Using fan-and-filter unit SK 3244.100 (700 m³/h) and roof plate IP 2X

³⁾ Other rated currents for different protection categories on request

⁴⁾ Using fan-and-filter unit SK 3241.100 (230 m³/h) and roof plate IP 2X

Enclosures for modular outgoing sections

Enclosures				
Mechanical characteristics	Dimensions	Enclosure width	400/600/800 mm	
		Enclosure height	1800/2000/2200 mm	
	Pitch pattern	Enclosure depth	600/800 mm	
		Pitch pattern	25 mm	
	Protection category		Max. IP 54	IEC 60 529
	Type		1 – 4	IEC 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	IEC 61 439-1/-2
		Rated operating voltage U_e	690 V	
		Rated impulse withstand voltage U_{imp}	8 kV	
		Overvoltage category	IV	
		Contamination level	3	
		Rated frequency	50 Hz	

Maxi-PLS busbar system				Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$		1400 A	1800 A	2800 A	For IP 54
				1600 A	2000 A	3000 A	For IP 2X ¹⁾
				1800 A	2500 A	4000 A	For IP 2X ²⁾
	Testing under accidental arc conditions	Rated peak withstand current I_{pk}		110 kA		220 kA	IEC 61 439-1/-2
			Rated short-time withstand current I_{cw}		50 kA	100 kA	
				Permissible prospective short-circuit current	50 kA	70 kA	
Mechanical characteristics			Busbar	Material	E-Cu, bare		
	External dimensions (cross-section)	45 x 45 mm (1000 mm ²)		45 x 45 mm (1380 mm ²)	60 x 60 mm (2700 mm ²)		

RiLine busbar system				E-Cu 30 x 10 mm	PLS 1600		
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$		800 A	1150 A	IP 54	
				860 A	1300 A	IP 43	
				1000 A ⁴⁾	1600 A ²⁾	IP 2X	
		Rated peak withstand current I_{pk}		68 kA	110 kA	IEC 61 439-1/-2	
			Rated short-time withstand current I_{cw}		32 kA, 1 sec.		50 kA, 1 sec./50 kA, 3 sec.
				Permissible prospective short-circuit current	30 kA		50 kA
	Rated current (distribution busbar)	Rated operating current $I_e^{(3)}$		800 A	1600 A ⁵⁾	IP 54	
				860 A	1600 A ⁵⁾	IP 43	
				1000 A ⁴⁾	1600 A ²⁾	IP 2X	
		Rated peak withstand current I_{pk}		68 kA	110 kA	IEC 61 439-1/-2	
			Rated short-time withstand current I_{cw}		32 kA, 1 sec.		50 kA, 1 sec./50 kA, 3 sec.
				Permissible prospective short-circuit current	30 kA		50 kA
Testing under accidental arc conditions	Test voltage		690 V	EN 61 641			
		Permissible arc duration			0.3 sec.		
Mechanical characteristics	Busbar	Material	E-Cu, bare				
		Version (cross-section)	30 x 10 mm (300 mm ²)	PLS 1600 (900 mm ²)			

Flat-PLS busbar system				Flat-PLS 60	Flat-PLS 100	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$		2360 A	3120 A	IP 54
				2540 A	3400 A	IP 43
				4100 A ²⁾	5500 A ²⁾	IP 2X
		Rated peak withstand current I_{pk}		154 kA	220 kA	
Rated short-time withstand current 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 ²)	Up to 4 x 100 x 10 mm (max. 4000 mm ²)		

¹⁾ Using outlet filter SK 3243.600 and roof plate IP 2X

²⁾ Using fan-and-filter unit SK 3244.100 (700 m³/h) and roof plate IP 2X

³⁾ Other rated currents for different protection categories on request

⁴⁾ Using fan-and-filter unit SK 3241.100 (230 m³/h) and roof plate IP 2X

⁵⁾ In conjunction with RiLine as the primary busbar system: Rated currents on request

Power distribution

System data

Enclosures

for fuse-switch disconnecter sections

Enclosures				
Mechanical characteristics	Dimensions	Enclosure width	1000/1200 mm	
		Enclosure height	2000/2200 mm	
	Enclosure depth	600/800 mm		
	Pitch pattern	25 mm		
	Protection category	Max. IP 31		IEC 60 529
	Type	1 – 4		IEC 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		IEC 61 439-1/-2
		Rated operating voltage U_e	690 V		
		impulse withstand voltage U_{imp}	8 kV		
		Overvoltage category	IV		
		Contamination level	3		
		Rated frequency	50 Hz		

Maxi-PLS busbar system			Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	1400 A	1800 A	2800 A	For IP 54
		Rated peak withstand current I_{pk}	1800 A	2500 A	4000 A	For IP 2X ¹⁾
		Rated short-time withstand current I_{cw}	110 kA		220 kA	IEC 61 439-1/-2
	Testing under accidental arc conditions	Permissible prospective short-circuit current	50 kA		70 kA	EN 61 641
		Test voltage	690 V			
Permissible arc duration		0.3 sec.				
Mechanical characteristics	Busbar	Material	E-Cu, bare			
		External dimensions (cross-section)	45 x 45 mm (1000 mm ²)	45 x 45 mm (1380 mm ²)	60 x 60 mm (2700 mm ²)	

Flat-PLS busbar system			Flat-PLS 60	Flat-PLS 100	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	2360 A	3120 A	IP 54
			2540 A	3400 A	IP 43
			4100 A ²⁾	5500 A	IP 2X
		Rated peak withstand current I_{pk}	154 kA	220 kA	IEC 61 439-1/-2
Rated short-time withstand current 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 ²)	Up to 4 x 100 x 10 mm (max. 4000 mm ²)	

Flat-PLS distribution busbar system			Flat-PLS				
Electrical characteristics	Rated current (distribution busbar)	Rated operating current $I_e^{(3)}$	1000 A	1250 A	1600 A	2100 A	IP 31
		Rated peak withstand current I_{pk}	154 kA	165 kA	187 kA	220 kA	IEC 61 439-1/-2
		Rated short-time withstand current I_{cw}	70 kA, 1 sec.	75 kA, 1 sec.	85 kA, 1 sec.	100 kA, 1 sec.	
Mechanical characteristics	Busbar	Material	E-Cu, bare				
		Version (cross-section)	50 x 10 mm (500 mm ²)	60 x 10 mm (600 mm ²)	80 x 10 mm (800 mm ²)	100 x 10 mm (1000 mm ²)	

¹⁾ Using roof plate IP 2X

²⁾ Using fan-and-filter unit SK 3244.100 (700 m³/h) and roof plate IP 2X

³⁾ Other rated currents for different protection categories on request

Enclosures for cable chambers

Enclosures						
Mechanical characteristics	Dimensions	Enclosure width	300/400/600 mm			
		Enclosure height	1800/2000/2200 mm			
	Protection category	Enclosure depth	600/800 mm			
		Pitch pattern	25 mm			
	Type		Max. IP 54			IEC 60 529
	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				
Maxi-PLS busbar system			Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	1400 A	1800 A	2800 A	For IP 54
			1600 A	2000 A	3000 A	For IP 2X ¹⁾
		Rated peak withstand current I_{pk}	1800 A	2500 A	4000 A	For IP 2X ²⁾
		Rated short-time withstand current I_{cw}	110 kA		220 kA	IEC 61 439-1/-2
	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 ²)	45 x 45 mm (1380 mm ²)	60 x 60 mm (2700 mm ²)	
RiLine busbar system			E-Cu 30 x 10 mm	PLS 1600		
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	800 A	1150 A	IP 54	
			860 A	1300 A	IP 43	
		Rated peak withstand current I_{pk}	1000 A ⁴⁾	1600 A ²⁾	IP 2X	
		Rated short-time withstand current I_{cw}	68 kA	110 kA	IEC 61 439-1/-2	
	Testing under accidental arc conditions	Permissible prospective short-circuit current	32 kA, 1 sec.	50 kA, 1 sec./50 kA, 3 sec.	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 ²)	PLS 1600 (900 mm ²)		
Flat-PLS busbar system			Flat-PLS 60	Flat-PLS 100		
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{(3)}$	2360 A	3120 A	IP 54	
			2540 A	3400 A	IP 43	
		Rated peak withstand current I_{pk}	4100 A ²⁾	5500 A ²⁾	IP 2X	
		Rated short-time withstand current I_{cw}	154 kA	220 kA	IEC 61 439-1/-2	
Mechanical characteristics	Busbar	Material	E-Cu, bare			
		Version (cross-section)	70 kA, 1 sec.	100 kA, 1 sec.		
			Up to 4 x 60 x 10 mm (max. 2400 mm ²)	Up to 4 x 100 x 10 mm (max. 4000 mm ²)		

¹⁾ Using outlet filter SK 3243.600 and roof plate IP 2X

²⁾ Using fan-and-filter unit SK 3244.100 (700 m³/h) and roof plate IP 2X

³⁾ Other rated currents for different protection categories on request

⁴⁾ Using fan-and-filter unit SK 3241.100 (230 m³/h) and roof plate IP 2X

Power distribution

System data

Enclosures

for busbar sections

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

General ratings data

Electrical characteristics	Rated voltage	Rated insulation voltage U_i	1000 V		IEC 61 439-1/-2
		Rated operating voltage U_e	690 V		
		Rated impulse withstand voltage U_{imp}	8 kV		
		Overvoltage category	IV		
		Contamination level	3		
		Rated frequency	50 Hz		

Maxi-PLS busbar system⁵⁾

			Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200		
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{3)}$	1400 A	1800 A	2800 A	For IP 54	
			1600 A	2000 A	3000 A	For IP 2X ¹⁾	
			1800 A	2500 A	4000 A	For IP 2X ²⁾	
	Testing under accidental arc conditions	Rated peak withstand current I_{pk}	110 kA		165 kA	IEC 61 439-1/-2	
			Rated short-time withstand current I_{cw}	50 kA			75 kA
			Permissible prospective short-circuit current	50 kA			70 kA
Mechanical characteristics	Busbar	Test voltage	420 V		EN 61 641		
		Permissible arc duration	0.3 sec.				
		Material	E-Cu, bare				
		External dimensions (cross-section)	45 x 45 mm (1000 mm ²)	45 x 45 mm (1380 mm ²)		60 x 60 mm (2700 mm ²)	

RiLine busbar system⁵⁾

			E-Cu 30 x 10 mm	PLS 1600	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{3)}$	800 A	1150 A	IP 54
			860 A	1300 A	IP 43
			1000 A ⁴⁾	1600 A ²⁾	IP 2X
			Rated peak withstand current I_{pk}	68 kA	110 kA
	Rated short-time withstand current I_{cw}	32 kA, 1 sec.	50 kA, 1 sec./50 kA, 3 sec.		
	Permissible prospective short-circuit current	30 kA	50 kA		
Testing under accidental arc conditions	Test voltage	690 V		EN 61 641	
		Permissible arc duration	0.3 sec.		
		Material	E-Cu, bare		
Mechanical characteristics	Busbar	Version (cross-section)	30 x 10 mm (300 mm ²)	PLS 1600 (900 mm ²)	

Flat-PLS busbar system⁵⁾

			Flat-PLS 60	Flat-PLS 100	
Electrical characteristics	Rated current (primary busbar)	Rated operating current $I_e^{3)}$	2360 A	3120 A	IP 54
			2540 A	3400 A	IP 43
			4100 A ²⁾	5500 A ²⁾	IP 2X
			Rated peak withstand current I_{pk}	154 kA	220 kA
Mechanical characteristics	Busbar	Rated short-time withstand current I_{cw}	70 kA, 1 sec.	100 kA, 1 sec.	
		Material	E-Cu, bare		
		Version (cross-section)	Up to 4 x 60 x 10 mm (max. 2400 mm ²)	Up to 4 x 100 x 10 mm (max. 4000 mm ²)	

¹⁾ Using outlet filter SK 3243.600 and roof plate IP 2X

²⁾ Using fan-and-filter unit SK 3244.100 (700 m³/h) and roof plate IP 2X

³⁾ Other rated currents for different protection categories on request

⁴⁾ Using fan-and-filter unit SK 3241.100 (230 m³/h) and roof plate IP 2X

⁵⁾ Usability of the various busbar systems depends on the enclosure width