SCHIRTEC®

SSPC*

SSPC*

SSPC*/1+1

SSPC* is lightning and surge arrester class 1+2 according to EN 61643-11. These are recommended for use in the Lightning Protection Zones Concept at the boundaries of LPZ 0-1 (according to IEC 1312-1 and EN 62305) for lightning current equipotential bonding and elimination of switching surges that originate in power supply systems entering the building.

The SSPC12,5 is intended for use in TNC systems (1+0 or 3+0). For TNS and TT systems (1+1 or 3+1) the SSPC12,5 is equipped with high energy gas discharge tube for equipotential bonding between N and PE.

The main use of SSPC12,5 arrester is in structures of LPL II according to EN 62305, e.g. industrial and administration buildings, school, supermarkets and cathedrals.

Type		SSPC12,5 SSPC12,5 DS	SSPC25 SSPC25 DS
Max. continuous operating voltage	U_C	275 V AC	
Lightning impulse current (10/350) - charge - specific energy	I_{imp} Q W/R	12,5 kA 6 As 36 kJ/Ω	25 kA 12,5 As 156 kJ/Ω
Total lightning current (8/20) L1→PEN	I_{total}	12,5 kA	25 kA
Nominal discharge current (8/20)	I_n	25 kA	50 kA
Voltage protection level at I_{imp}	U_P	< 1,2 kV	< 1,3 kV
Response time	t_A	< 25 ns	
Temporary overvoltage (TOV)		335 V / 5 sec	
Max. back-up fuse	U_T	315 AgL/gG	
Max. back-up fuse ("V" connection)		63 AgL/gG	
Short-circuit withstand capability at max. back-up fuse	I_P	80 kA_{rms}	
Life time		min. 100.000 h	
Weight	m	240 g	300 g

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SSPC*

SSPC25/3+0

SSPC12,5/3+1

The SSPC25 is intended for use in TNC systems (1+0 or 3+0). For TNS and TT systems (1+1 or 3+1) the SSPC25 is equipped with high energy gas discharge tube for equipotential bonding between N and PE.

The main use of SSPC25 arrester is in structures of LPL I according to EN 62305, e.g. hospitals, bank, mobile operator stations, water-stations, power plants, airport buildings for air traffic control and all structures with explosive risk.

To be installed in the main switchboard.

Type		SSPC12,5/1+1 SSPC12,5 DS/1+1	SSPC25/1+1 SSPC25 DS/1+1
Max. continuous operating voltage	U_C	275 V AC	
Lightning impulse current (10/350) L/N - charge - specific energy	I_{imp} Q W/R	12,5 kA 6 As 36 kJ/Ω	25 kA 12,5 As 156 kJ/Ω
Lightning impulse current (10/350) N/PE - charge - specific energy	I_{imp} Q W/R	25 kA 12,5 As 156 kJ/Ω	50 kA 25 As 625 kJ/Ω
Total lightning current (10/350) L1+N→PE	I_{total}	25 kA	50 kA
Nominal discharge current (8/20)	I_n	25 kA	50 kA
Voltage protection level at I_{imp}	U_P	< 1,2 kV	< 1,3 kV
Response time L/N	t_A	< 25 ns	
Response time N/PE	t_A	< 100 ns	
Temporary overvoltage (TOV), L/NE	U_T	335 V / 5 sec	
Temporary overvoltage (TOV), N/PE	U_T	1200 V / 0,2 sec	
Max. back-up fuse		315 AgL/gG	
Max. back-up fuse ("V" connection)		63 AgL/gG	
Short-circuit withstand capability at max. back-up fuse	I_P	80 kA_{rms}	
Life time		min. 100.000 h	
Weight	m	370 g	460 g

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SSPC*

Type		SSPC12,5/3+0 SSPC12,5 DS / 3+0	SSPC25/3+0 SSPC25 DS / 3+0
Max. continuous operating voltage	U_C	275 V AC	
Lightning impulse current (10/350) - charge - specific energy	I_{imp} Q W/R	12,5 kA 6 As 36 kJ/Ω	25 kA 12,5 As 156 kJ/Ω
Total lightning current (10/350) L1+L2+L3→PEN	I_{total}	37,5 kA	75 kA
Nominal discharge current (8/20)	I_n	25 kA	50 kA
Voltage protection level at I_{imp}	U_P	< 1,2 kV	< 1,3 kV
Response time	t_A	< 25 ns	
Temporary overvoltage (TOV)	U_T	335 V / 5 sec	
Max. back-up fuse		315 AgL/gG	
Max. back-up fuse ("V" connection)		63 AgL/gG	
Short-circuit withstand capability at max. back-up fuse	I_P	80 kA_{rms}	
Life time		min. 100.000 h	
Weight	m	720 g	900 g

Type		SSPC12,5/3+1 SSPC12,5 DS / 3+1	SSPC25/3+1 SSPC25 DS / 3+1
Max. continuous operating voltage	U_C	275 V AC	
Lightning impulse current (10/350) L/N - charge - specific energy	I_{imp} Q W/R	12,5 kA 6 As 36 kJ/Ω	25 kA 12,5 As 156 kJ/Ω
Lightning impulse current (10/350) N/PE - charge - specific energy	I_{imp} Q W/R	50 kA 25 As 625 kJ/Ω	100 kA 50 As 2500 kJ/Ω
Total lightning current (10/350) L1+L2+L3+N→PE	I_{total}	50 kA	100 kA
Nominal discharge current (8/20)	I_n	25 kA	50 kA
Voltage protection level at I_{imp}	U_P	< 1,2 kV	< 1,3 kV
Response time L/N	t_A	< 25 ns	
Response time N/PE	t_A	< 100 ns	
Temporary overvoltage (TOV), L/N	U_T	335 V / 5 sec	
Temporary overvoltage (TOV), N/PE	U_T	1200 V / 0,2 sec	
Max. back-up fuse		315 AgL/gG	
Max. back-up fuse ("V" connection)		63 AgL/gG	
Short-circuit withstand capability at max. back-up fuse	I_P	80 kA_{rms}	
Life time		min. 100.000 h	
Weight	m	1030 g	1125 g