

SP7 Series

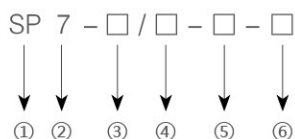
Application

SP7 series SPD suitable for TN-S, TN-C, TN-C-S, TT, IT power supply system with AC 400V and below, 50/60Hz, used as equipotential connection at the boundaries of LPZOA and LPZO1 zone or LPZOB and LPZ1 zone, make lightning strike or surge protection for the power grid.

The protector also suitable to combine with voltage limiting SPD to form "3+1" combination, used for TT system. The protector is not suitable for the system which the expected short circuit current exceed the rated follow on current breaking value.



Model Meanings



①	Surge protection device (SPD)
②	Design code
③	Max. discharge current Imax (kA)
④	Combine mode (1P/2P/3P/4P)
⑤	Max. continuous voltage
⑥	Accessory: Remote signaling contact F Sound and light alarm B

Main Technical Parameters

Item & Data		Classification		SP7							
Rated operating voltage Un(V)				230/400							
Nominal discharge current In (8/20μs)kA				40	50		60		100		
Max. discharge current Imax (8/20μs)kA				80	100		120		150		
Max. continuous operating voltage Uc (V)		385	420	385	420	385	420	385	420	385	420
Protection level Up (KA)		<2.4	<2.5	<2.5	<2.8	<2.8	<3.0	<3.0	<3.5	<3.5	<3.5
Front fuse (A)				50	63		63		100		
Response time (ns)				<25							
Test classification				Class I							
Protection class				IP20							
Max. ambient temperature (°C)				-40°C ~ +80°C							
Insulation enclosure material				PBT/PA66							
Flame resistance class, confirm to UL94				VO							
Installation mode				35mm standard rail							
Enclosure color				White							
Wire cross section (mm ²)	phase line, neutral line			16-35Hard wire							
	Earthing line			16-25Dual color							
Standard				GB18802.1 GB18802.21 IEC61643-1 IEC61643-21 UL1449 ed.2							

Outline And Installation Dimension (mm)

