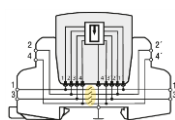
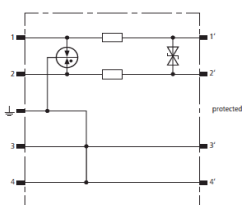
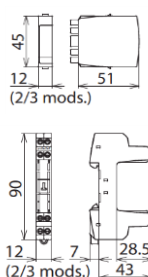


OTOWA Signal line SPD SL-SPM series Pluggable DIN Rail mounted SPDs

Space saving SPD module for protecting one pair of balanced interfaces with electrical isolation.



Basic Circuit Diagram



Dimension drawing

- High degree of protection for one pair
- High discharge capacity up to 20kA (8/20µs)
- Low voltage protection level, capable of protecting terminal equipment
- Easy replacement of protection modules
- All protection components integrated in the protection module
- No signal disconnection if the protection module is removed
- DIN rail mounted device with integrated earthing
- Vibration and shock-tested for safe operation

Type	SL-SPM5	SL-SPM12	SL-SPM24	SL-SPM48	SL-SPM60	SL-SPM180
SPD Class	type2 D1 C2					
Nominal a.c. voltage (Un)	5V	12V	24V	48V	60V	180V
Max. continuous operating d.c. voltage (Uc)	6.0V	15V	33V	54V	70V	180V
Max. continuous operating a.c. voltage (Uc)	4.2V	10.6V	23.3V	38.1V	49.5V	127V
Nominal current at 45°C (Ii)	1.0A					0.75A
Response time	≤1ns					
D1 Lightning impulse current (10/350µs) (Iimp)	1kA					
C2 Total Nominal discharge current (8/20µs) (In)	20kA					
C2 Nominal discharge current (8/20µs) per line (In)	10kA					
Voltage protection level line-line for In C2 (Up)	≤15V	≤27V	≤55V	≤85V	≤110V	≤270V
Voltage protection level line-PG for In C2 (Up)	≤600V	≤600V	≤600V	≤600V	≤600V	≤600V
Voltage protection level line-line at 1kV/µs C3(Up)	≤9V	≤19V	≤45V	≤70V	≤90V	≤250V
Voltage protection level line-PG at 1kV/µs C3(Up)	≤550V	≤550V	≤550V	≤550V	≤550V	≤550V
Series impedance per line	1.0 ohm(s)	1.0 ohm(s)	1.0 ohm(s)	1.0 ohm(s)	1.0 ohm(s)	1.8 ohm(s)
Cut-off frequency line-line (fG)	1.0MHz	2.8MHz	7.8MHz	8.7MHz	11MHz	25.0MHz
Capacitance line-line	≤5.4nF	≤2.0nF	≤1.0nF	≤0.7nF	≤500pF	≤240pF
Capacitance line-PG	≤16pF	≤16pF	≤16pF	≤16pF	≤16pF	≤16pF
Operating temperature range (Tu)	-40°C ~ +80°C					
Enclosure material / Colour	polyamide PA 6.6 / Gray					
Place of installation	Indoor installations					
Degree of protection (Plugged-in)	IP 20					
Test standards	IEC 61643-21, UL 497B					
Approvals	UL					