

Table 1 – Classification of SPDs

Location of Switchboard / Distribution Board	Switchboard Receiving Energy from the Licensee or Other Building		Sub-Switchboard and/or Distribution Board Receiving Energy from Switchboard Located in the Same Building	Final Distribution Board Receiving Energy from Sub-Switchboard or Distribution Board Located in the Same Building
Impulse Test Classification (MS IEC 61643-1)	Class I	Class II	Class II	Class III
Impulse Current, I_{imp} (10/350 μ s) per mode	≥ 10 kA			
Nominal Discharge Current, I_n (8/20 μ s) per mode		≥ 20 kA	≥ 10 kA	
Maximum Discharge Current, I_{max} (8/20 μ s) per mode		≥ 65 kA	≥ 40 kA	
Open-Circuit Voltage, U_{oc} (1.2/50 μ s) per mode				≥ 6 kV
Voltage Protection Level, U_p (L-N, L-E, N-E) at I_{imp} or I_n or U_{oc}	≤ 2500 V	≤ 2000 V	≤ 1500 V	≤ 1000 V