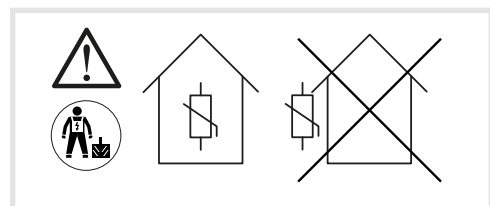
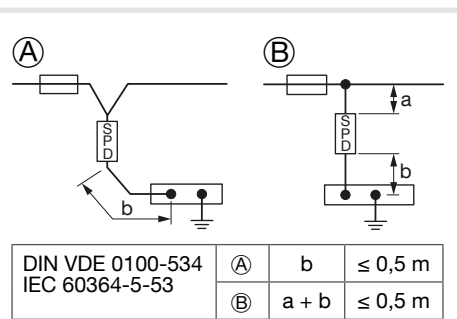


- (DE) Überspannungsableiter
- (EN) Surge protective device
- (FR) Parafoudre
- (PL) Ogranicznik przepięć (SPD)

SPA911(TT/TN-S), SPA930 (TN-C), SPA931 (TT/TN-S) , SPA932 (TT/TN-S)



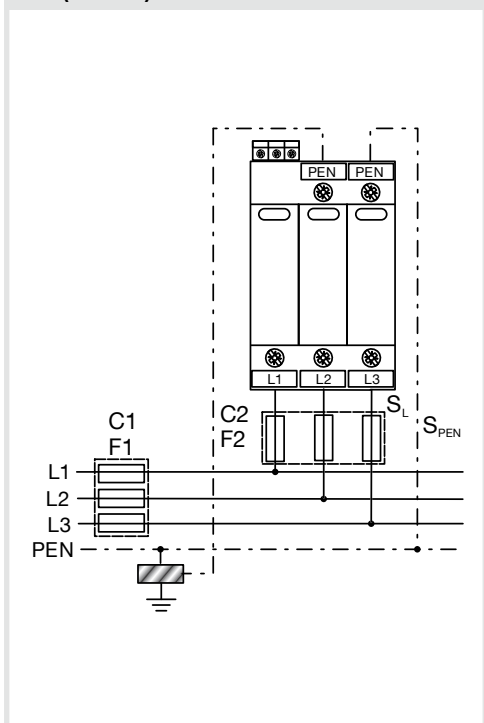
EN 61643-11 IEC 61643-11	Typ/type 1 + Typ/type 2 Class I + Class II
U_n	240/415V (50/60Hz)
U_c	335V (L-N); 264V (N-PE)
Humidity/ Wilgotność	5%...95%
9°C	-40/+80 °C
Ports/ Liczba przyłączy	1
IP code/ Stopień ochrony IP	20 (built in)
max parallel/ równoległe	160A gG
I_{max} (8/20 μ s)	50 kA



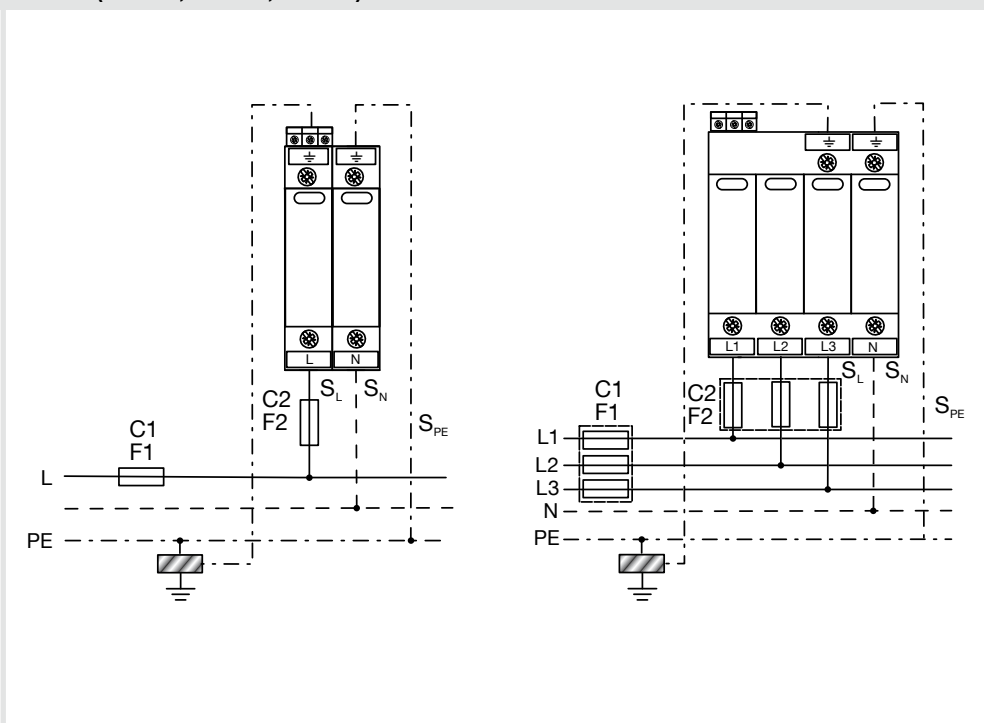
 3 Nm (1.5-16 mm ²) 4.5 Nm 25-35 mm ²	16 mm	16 mm
	min. L, N, PE, $\neq$	1,5 mm ²
	max. L, N, PE, $\neq$	25 mm ² 35 mm ²

	L x W x H (mm)	I_{imp} (10/350 μ s) L-N/N-PE	I_n (8/20 μ s)	U_p	I_{scor}	I_{pe}	Cartridge/ Modulu
SPA911	77.5x35.6x98.7	12.5kA/ 50kA	12.5kA/ 50kA	L-N ≤ 1,2 kV N-PE ≤ 1,7 kV	25 kA _{rms} I_n (N-PE) = 100A _{rms}	<5 μ A	 1 1 Ph + N + 1 x SPA090 1 1 x SPA090N
SPA930	77.5x53.4x98.7	12.5kA	12.5kA	L-PEN ≤ 1,2kV	25 kA _{rms}	<2400 μ A	 3 3 Ph + 3 x SPA090 0
SPA931 SPA932	77.5x71.2x98.7	12.5kA/ 50kA	12.5kA/ 50kA	L-N ≤ 1,2 kV N-PE ≤ 1,7 kV	25 kA _{rms} I_n (N-PE) = 100A _{rms}	<5 μ A	 3 3 Ph + N + 3 x SPA09x 1 1 x SPA09xN

TNC (SPA930)



TT/TNS (SPA911, SPA931, SPA932)



Backup Fuse

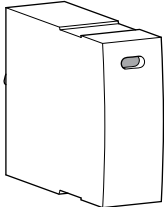
F1	$F1 \leq 160 \text{ A gG}$ ↓ ⚡
F2	$F1 > 160 \text{ A gG}$ ↓ $F2 \leq 160 \text{ A gG}$ ↓ ⚡

F1 A/gG	F2 A/gG	$S_L = S_N$ mm ²	$S_{PE(N)}$ mm ²
25		10	16
35		10	16
40		10	16
50		10	16
63		10	16
80		10	16
100		16	16
125		16	16
160		25	25
> 160	160	25	25

Backup Hager MCB (Isc = 10 kA)

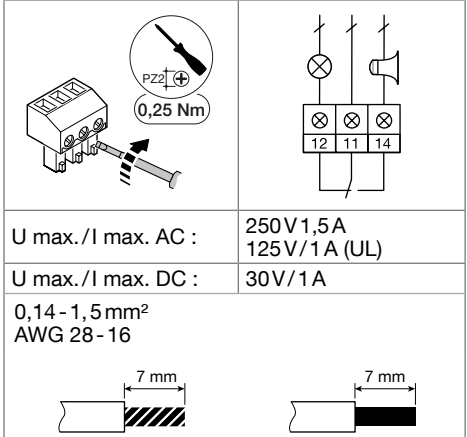
C1	$C1 > 63 \text{ A gG}$ ↓ $C2 \leq 63 \text{ A gG}$ ↓ $C1 \leq 63 \text{ A gG}$ ↓ ⚡
C2	

SPA911, SPA930, SPA931, SPA932



Rot/Red/Rouge/Czerwony ➔ Replace / Wymiana

SPA911, SPA930, SPA931



U max./I max. AC : 250V1,5A
125V/1A (UL)
U max./I max. DC : 30V/1A
0,14 - 1,5 mm²
AWG 28 - 16

SPA090 (L - N), SPA090N (N - PE), SPA091 (L - N), SPA091N (N - PE)

