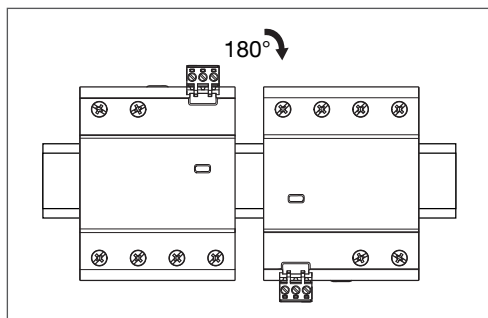


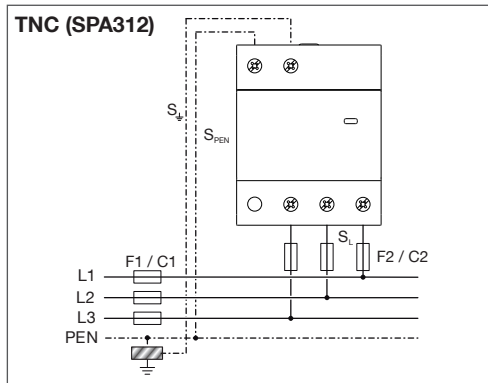
(DE)
(EN)
(FR)
(PL)
(PT)
(CS)
(EL)
(ES)

Überspannungsableiter
Surge protective device
Parafoudre
Ogranicznik przepięć (SPD)
Limitador de sobretensão
Kombinovaný svodič přepětí
Αντικεραυνικό
Pararrayos

SPA212, SPA412 (TT/TN-S),
SPA312 (TN-C)



EN 61643-11 IEC 61643-11	T1+T2+T3
U_n	240/415V (50/60Hz)
U_c	264 V
Humidity	5 %...95 %
9°C	-40/+85°C
Ports	1
IP code	20(built in)
max parallel	160 A gG
I_{max} (8/20μs)	50 kA
U_{oc}	6 kV

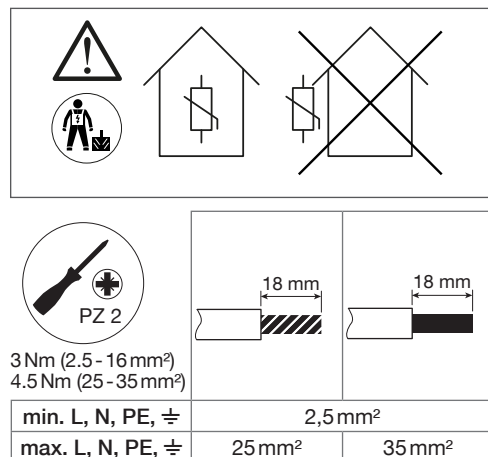
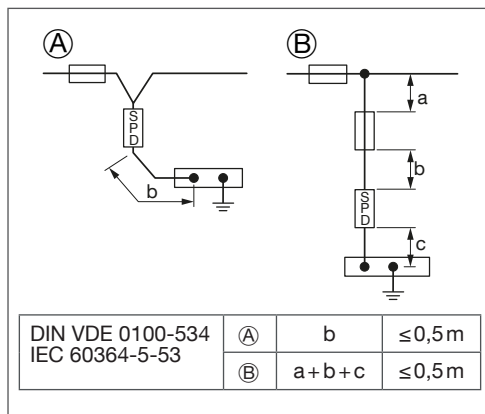


Backup Fuse

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

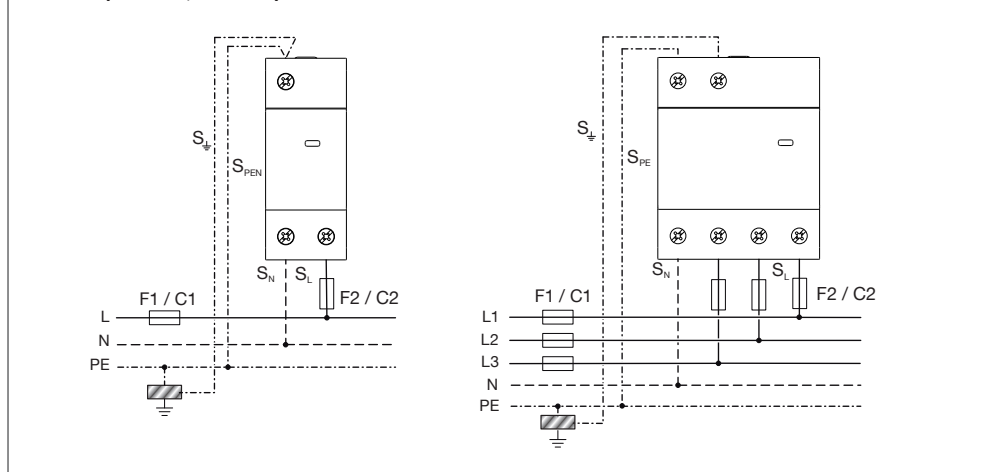
Backup Hager MCCB (P160/x160)
Max I_{sc} = 25 kA

C1 	$C1 \leq 160 \text{ A}$ ↓
C2 	$C1 > 160 \text{ A}$ ↓ $C2 = x160 (160 \text{ A})$ or P160 (160 A)



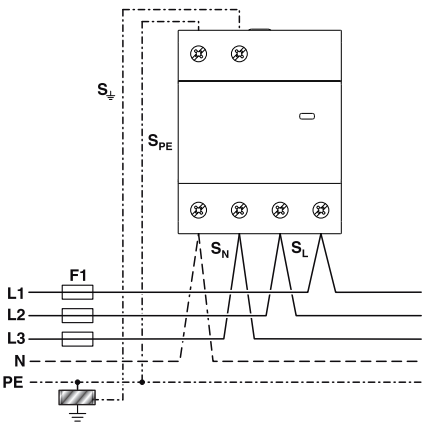
	L x W x H (mm)	I_{imp} (10/350μs) L - N / N - PE	I_n (8/20μs)	U_p	I_{scor}	I_{pe}
SPA212	76.6 x 36 x 99	12.5 kA / 25 kA	12.5 kA / 25 kA	L - N ≤ 1,5 kV N - PE ≤ 1,5 kV	25 kA _{rms} I_{fi} (N - PE) = 100 A _{rms}	< 10 μA
SPA312	76.6 x 72 x 99	12.5 kA	12.5 kA	L - PEN ≤ 1,5 kV	25 kA _{rms}	-
SPA412	76.6 x 72 x 99	12.5 kA / 50 kA	12.5 kA / 50 kA	L - N ≤ 1,5 kV N - PE ≤ 1,5 kV	25 kA _{rms} I_{fi} (N - PE) = 100 A _{rms}	< 10 μA

TT/TNS (SPA212, SPA412)

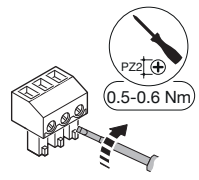


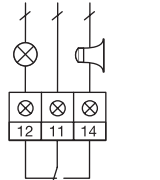
F1/C1 A/gG	F2/C2 A/gG	$S_L = S_N$ mm²	$S_{PE(N)}/S_{\neq}$ mm²
25		6	16
35		6	16
40		6	16
50		10	16
63		10	16
80		10	16
100		10	16
125		16	16
160		25	25
> 160	160	25	25

V-Type Connection

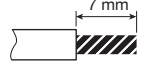


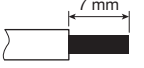
F1 A/gG	$S_L = S_N$ mm ²	$S_{\perp}$ mm ²	$S_{PE(N)}$ mm ²
25 40	6 6	16 16	10 10
50	10	16	10
63 80	16 16	16 16	16 16

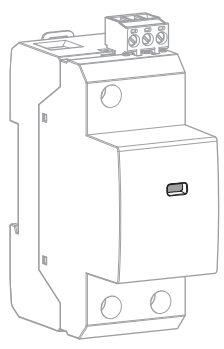




U max./I max. AC :	250V/1 A
U max./I max. DC :	125V/1 A
0,2 - 2,5 mm ² AWG 24 - 12	







Grün/Green/Vert/Zielony/
Verde/Zelená/πράσινο/Verde

➔ OK

Rot/Red/Rouge/Czerwony/
Vermelho/Červená/κόκκινο/Rojo

➔ ~~OK~~  Replace