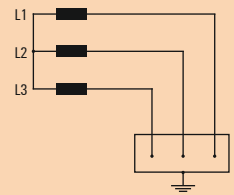
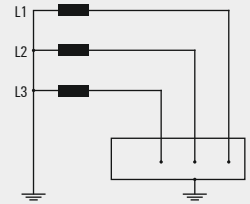
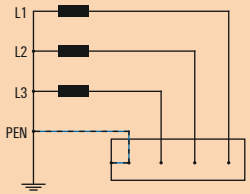
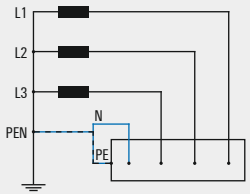
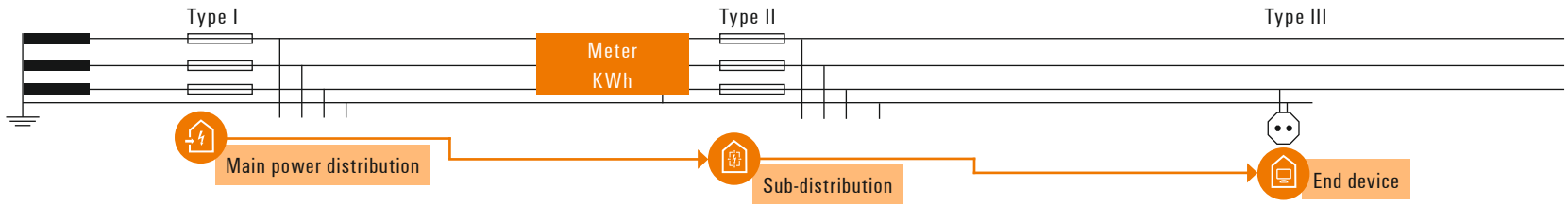
Grid system 230/400 V		Type I		Type II		Type III	
		Without remote contact	With remote contact	Without remote contact	With remote contact	Without remote contact	With remote contact
IT-grid		VPU AC I 3 440/25 LCF **2619160000** VPU AC I 3 480/10 **2591530000**	VPU AC I 3 R 440/25 LCF **2619170000** VPU AC I 3 R 480/10 **2591540000**	VPU AC II 3 480/50 **2591250000**	VPU AC II 3 R 480/50 **2591260000**	VPU AC II+III 2 440/20 S **2908440000** - can also be used as type II - VPU AC II+III 3 440/20 S **2908460000** - can also be used as type II -	VPU AC II+III 2 R 440/20 S **2908450000** - can also be used as type II - VPU AC II+III 3 R 440/20 S **2908470000** - can also be used as type II -
TT-grid		VPU AC I 3+1 275/25 LCF S 2PE **2726760000** VPU AC I 3+1 300/12.5 LH **2983580000**	VPU AC I 3+1 R 275/25 LCF S 2PE **2726770000** VPU AC I 3+1 R 300/12.5 LH **2983590000**	VPU AC II 3+1 300/50 **2591080000** VPU AC II F 3+1 300/40 **2827630000** - with integrated fuse -	VPU AC II 3+1 R 300/50 **2591090000** VPU AC II F 3+1 R 300/40 **2807440000**	VPU AC II+III 1+1 275/20 S **2907930000** - can also be used as type II - VPU AC II+III 3+1 275/20 S **2907950000** - can also be used as type II -	VPU AC II+III 1+1 R 275/20 S **2907940000** - can also be used as type II - VPU AC II+III 3+1 R 275/20 S **2907970000** - can also be used as type II -
TN-C-grid		VPU AC I 3 275/25 LCF S **2726740000** VPU AC I 3 300/12.5 LH **2983570000**	VPU AC I 3 R 275/25 LCF S **2726750000** VPU AC I 3 R 300/12.5 LH **2983560000**	VPU AC II 3 300/50 **2591160000** VPU AC II F 3 300/40 **2827600000** - with integrated fuse -	VPU AC II 3 R 300/50 **2591170000** VPU AC II F 3 R 300/40 **2807410000**	VPU AC II+III 2 275/20 S **2907830000** - can also be used as type II - VPU AC II+III 3 275/20 S **2907870000** - can also be used as type II - VPU III R 230V/6KV AC **1351650000**	VPU AC II+III 2 R 275/20 S **2907840000** - can also be used as type II - VPU AC II+III 3 R 275/20 S **2907880000** - can also be used as type II -
TN-(C)-S- grid		VPU AC I 3+1 275/25 LCF S 2PE **2726760000** VPU AC I 3+1 300/12.5 LH **2983580000**	VPU AC I 3+1 R 275/25 LCF S 2PE **2726770000** VPU AC I 3+1 R 300/12.5 LH **2983590000**	VPU AC II 3+1 300/50 **2591080000** VPU AC II F 3+1 300/40 **2827630000** - with integrated fuse -	VPU AC II 3+1 R 300/50 **2591090000** VPU AC II F 3+1 R 300/40 **2807440000**	VPU AC II+III 1+1 275/20 S **2907930000** - can also be used as type II - VPU AC II+III 3+1 275/20 S **2907950000** - can also be used as type II - VPU III R 230V/6KV AC **1351650000**	VPU AC II+III 1+1 R 275/20 S **2907940000** - can also be used as type II - VPU AC II+III 3+1 R 275/20 S **2907970000** - can also be used as type II -

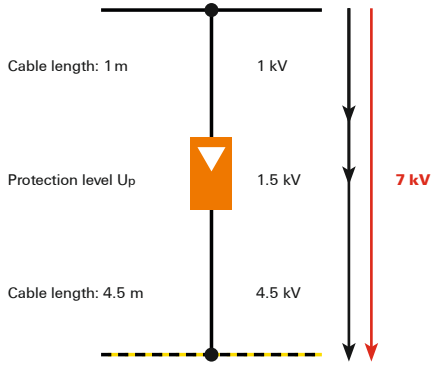


Installation information and technical basics

The direct lightining strike has a range of up to 2 km.

Voltage drop on the cable

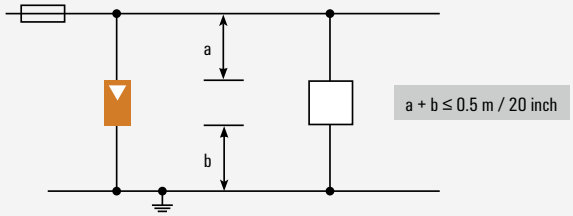
Long cables reduce the effectiveness of an SPD.
Inductivity: 1 m cable will cause 1 kV.



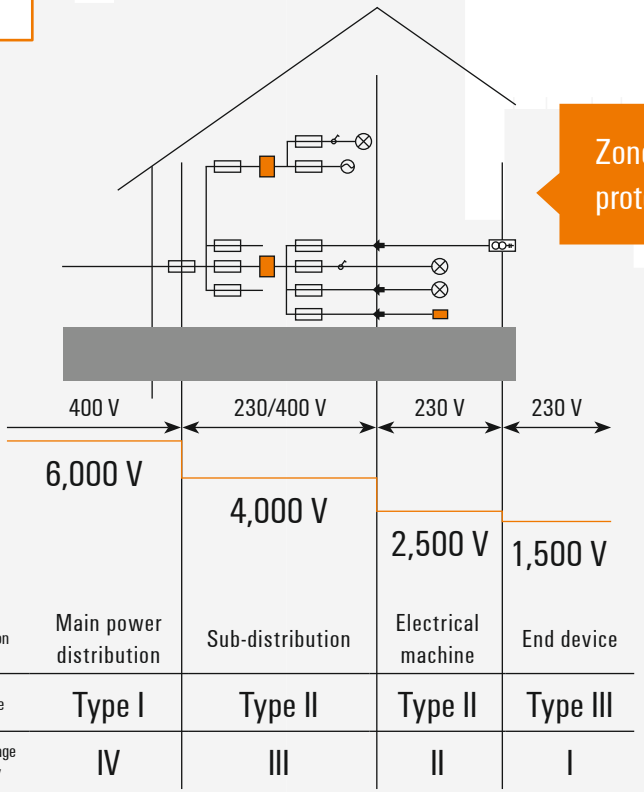
Specifications for the installation location

The standard requires a maximum cable length of the connecting lines of an SPD of ≤ 0.5 m.

Single branch wiring b must be as short as possible



Zonebased surge protection concept

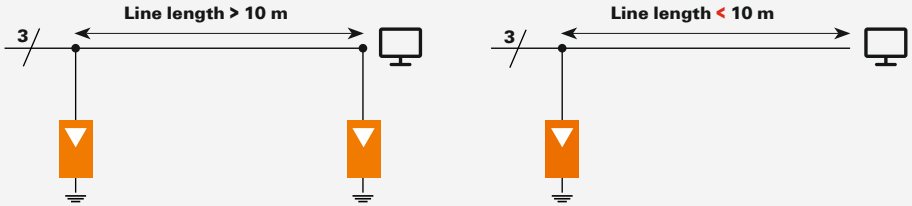


Type	Connection lines between SPD and outer conductors	Connection lines between SPD and main earth bar or protective conductor (PE or PEN)
Type I	6 mm²	16 mm²
Type II	2.5 mm²	6 mm²

Cross sections of the cables

Specifications for the protected area

The protective area of an SPD is 10 m.
If this is exceeded, another SPD ist required.



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