

# Surge protection made easy – SPD selection aid

according to the current IEC 60364-4-44 and IEC 60364-5-53

Application

Situation

1 Installation location: Main distributor  
at the infeed point of the system

2 Installation location: Sub-distributor  
with a spacing to the main distributor > 10 m

3 Installation location: Terminal  
as close as possible to the resource to be protected

## Alternatively



Residential buildings,  
multiple-occupancy dwellings, etc.



Without external lightning  
protection system with earth  
cable infeed  
(IEC 60364-5-53 and 60364-4-44)

**TN-S/TT**  
MCF100-3+NPE+FS  
Item no. 5096 987

T1 T2



**TN-C/IT**  
MCF75-3+FS  
Item no. 5096 981

leakage current-free

**TN/TT**  
V20-3+NPE-280  
Item no. 5095 253

T2



V20-3+NPE-280+FS  
Item no. 5095 333

**TN/TT**  
V20-3+NPE-280  
Item no. 5095 253

T2



V20-3+NPE-280+FS  
Item no. 5095 333

Universal fine protection  
FC-D  
Item no. 5092 80 0



3-way socket  
with audible error signalling  
CNS-3-D  
Item no. 5092 70 1



T3



Buildings of lightning protection  
classes III and IV (e.g. housing  
and commercial and office  
buildings)



Exposed cable supply  
(according to IEC 60364-5-53  
and 60364-4-44)



Earthed antenna structures  
(recommendation)



**TN-S/TT**  
MCF100-3+NPE+FS  
Item no. 5096 961

T1 T2



**TN-C/IT**  
MCF75-3+FS  
Item no. 5096 981

leakage current-free

**TN/TT**  
V50-3+NPE-280  
Item no. 5093 526

T1 T2



V50-3+NPE-280+FS  
Item no. 5093 533

## Alternatively

**TN/TT**  
V10 COMPACT 255  
Item no. 5093 380

T2 T3



V10 COMPACT-FS  
Item no. 5093 382

T2 T3



Hat rail device  
with visual  
function display

T3

VF 230-SC/DC  
Item no. 5097 65 0



Surge protection module 45  
With optical function display

ÜSS 45-O  
Item no. 6117473



with acoustic  
signalling

ÜSS 45-A  
Item no. 6117465



Device with acoustic  
signalling

T3

ÜSM-A  
Item no. 5092 45 1



ÜSM-A2  
Item no. 5092 46 0



Device for installation  
behind sockets through  
simple attachment

T3

With acoustic signalling

ÜSM-ST-230-1P+PE  
Item no. 5092 441



Buildings of lightning protection  
classes I to IV (e.g. industrial  
buildings, computer centres or  
hospitals)



**TN-S/TT**  
MCF100-3+NPE+FS  
Item no. 5096 987

T1 T2



**TN-C/IT**  
MCF75-3+FS  
Item no. 5096 981

leakage current-free

V10 COMPACT-AS  
Item no. 5093 391

T2 T3



Protection device  
for 2 phases

ÜSM-10-230I2P+PE  
Item no. 5092 42 6



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according to the current IEC 60364-4-44 and IEC 60364-5-53

Telecommunications			Data technology			TV, video, SAT and radio		
Situation	1 Installation location - At the infeed point of the system	2 Installation location - At the terminal	Situation	1 Installation location - Server-side	2 Installation location - On the switch - In front of the terminal	Situation	1 Installation location - Between broadband cable transfer point and amplifier	2 Installation location - In front of every terminal (TV/video/hi-fi)
<b>IP telephony</b>  	<b>Tele Defender TD-2D-V</b> Item no. 5081 69 8  	<b>Tele Defender RJ11-Tele/4-F</b> Item no. 5081 97 7  	<b>Networks Class EA/CAT 6A</b>  	<b>Net Defender</b> Data cable protection device for high-speed networks CAT 6A <b>ND-CAT6/E-B</b> Item no. 5081 80 4  	<b>Net Defender</b> Data cable protection device for high-speed networks CAT 6A <b>ND-CAT6A/EA</b> Item no. 5081 80 0  	<b>Broadband (Cable TV)</b>  <b>or</b>  <b>Terrestrial receiver unit</b> - Analogue TV - DVB-T  	Installation between LNB and receiver/multiswitch, directly on device to be protected  <b>Coaxial protection device DS-F M/F</b> Item no. 5093 27 5  	- In front of every terminal (TV/video/hi-fi)  <b>FineController</b> Fine protection device 230 V with surge protection for the TV/SAT supply of TV/SAT receivers, incl. adapter cable <b>FC-SAT-D</b> Item no. 5092 81 6  
	<b>Net Defender</b> Data cable protection device for high-speed networks CAT 6 <b>ND-CAT6/E-F</b> Item no. 5081 80 2  	<b>Alternatively</b>  <b>ND-CAT6A/EA</b> Item no. 5081 80 2  		<b>Net Defender</b> Data cable protection device for high-speed networks CAT 6 <b>ND-CAT6/E-F</b> Item no. 5081 80 2  	<b>SAT receiver unit</b>    - With receiver (e.g. in single-family house) - With Multiswitch - With multiple LNB (e.g. in multiple-occupancy dwelling)			
	Universal fine protection <b>FC-TAE-D</b> Item no. 5092 82 4  		<b>CCTV application</b>  	Protection of IP-based CCTV, power supply via PoE /RJ45  	<b>Net Defender</b> Data cable protection device for high-speed networks CAT 6 and PoE <b>ND-CAT6/E-B</b> Item no. 5081 80 4  			
			Protection of coaxial-based CCTV  <b>Data cable protection device for coaxial systems Coax B-E2 MF-C</b> Item no. 5082 43 0  		<b>Data cable protection device for coaxial systems Coax B-E2 MF-F</b> Item no. 5082 43 2  		<b>Compact protection device (4x SAT, 1x terrestrial) TV 4+1</b> Item no. 5083 40 0  	