

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

Pre-meter area

Meter area



Residential buildings,
multiple-occupancy dwellings, etc.



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

TT/TN-S

MCF30-NAR-TT
Item no. 5096 961

MCF30-NAR-TT+FS
Item no. 5096 963

TN-C

MCF25-NAR-TNC
Item no. 5096 950

MCF25-NAR-TNC+FS
Item no. 5096 953

T1 T2



Also usable in
buildings with
exposed cable
infeed

TN/TT

V20-3+NPE-280
Item no. 5095 253

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



T2

TN/TT

V20-3+NPE-280
Item no. 5095 253

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



T2

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)



TT/TN-S

MCF50-NAR-TT
Item no. 5096 975

MCF50-NAR-TT+FS
Item no. 5096 977

TN-C

MCF38-NAR-TNC
Item no. 5096 971

MCF38-NAR-TNC+FS
Item no. 5096 973

T1 T2



TN/TT

V50-3+NPE-280
Item no. 5093 526

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



T1 T2

Alternatively

TN/TT

V10 COMPACT 255
Item no. 5093 380



T2 T3

V10 COMPACT-FS
Item no. 5093 382



T2 T3

V10 COMPACT-AS
Item no. 5093 391



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

With acoustic signalling

ÜSM-ST-230-1P+PE
Item no. 5092 441



T3

Protection device
for 2 phases

ÜSM-10-230I2P+PE
Item no. 5092 42 6



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