

Surge protection made easy – TBS selection aid



Initial situation	1 Installation location	2 Installation location	3 Installation location
	<ul style="list-style-type: none"> ■ Installation in the main distributor box ■ Basic protection/Type 1, Type 2 ■ Primary meter area or combined distributor 		
Distance < 10 m	TN TT V10 Compact 63 A*, 2,5 DU** Type 2, type 3 Secondary meter area With visual signalling With audible signalling (AS), With remote signalling (RS), item no. 5093 38 0 item no. 5093 39 1 item no. 5093 38 2		Not required
Distance > 10 m	TN TT V20-3+NPE-280 160 A*, 4 DU** Type 2 Secondary meter area With visual signalling With remote signalling (RS) item no. 5095 25 3 item no. 5095 33 3	TN TT V20-3+NPE-280 160 A*, 4 DU** Type 2 Type 2 Secondary meter area With visual signalling, item no. 5095 25 3 With remote signalling (RS) item no. 5095 33 3	
Distance < 10 m	TN TT V20-3+NPE-280 160 A*, 4 DU** Type 2 Secondary meter area With visual signalling With remote signalling (RS) item no. 5095 25 3 item no. 5095 33 3		Not required
or			
Distance > 10 m	TN TT V50-3+NPE-280 160 A*, 4 DU** Type 1+2 Secondary meter area With visual signalling With remote signalling (RS) item no. 5093 52 6 item no. 5093 53 3	TN TT V20-3+NPE-280 160 A*, 4 DU** Type 2 Type 2 Secondary meter area With visual signalling, item no. 5095 25 3 With remote signalling (RS) item no. 5095 33 3	
Distance < 10 m	TN TT V50-3+NPE-280 160 A*, 4 DU** Type 1+2 Secondary meter area With visual signalling With remote signalling (RS) item no. 5093 52 6 item no. 5093 53 3		Not required
Distance < 10 m			
Distance < 10 m	TN-C MCD 50-B/3 500 A*, 3x 2 DU** Type 1 Primary or secondary meter area item no. 5096 87 7	TN-S MCD 50-B/3+1 500 A*, 4x 2 DU** Type 1 Primary or secondary meter area item no. 5096 87 9	Not required
Distance > 10 m	TN-C MCD 50-B/3 500 A*, 3x 2 DU** Type 1 Primary or secondary meter area item no. 5096 87 7	TN-S MCD 50-B/3+1 500 A*, 4x 2 DU** Type 1 Primary or secondary meter area item no. 5096 87 9	
Distance > 10 m		TN TT V20-3+NPE-280 160 A*, 4 DU** Type 2 Type 2 Secondary meter area With visual signalling, item no. 5095 25 3 With remote signalling (RS) item no. 5095 33 3	

*If upstream protection > than indicated value: selective protection of arrestors with indicated value

** Dividing unit = 17,5 mm grid width for top hat fixing rail

FineController FC-D
 Universal fine protection use as socket adapter device,
 16 A*
 Art.-Nr. 5092 80 0

FineController FC-TV-D
 Fine protection device with integrated surge protection module for TV supply cable, incl. adapter cable, 16 A*
 Item no. 5092 80 8

FineController FC-SAT-D
 Fine protection device with integrated surge protection module for SAT supply cable, incl. adapter cable, 16 A*
 Item no. 5092 81 6

FineController FC-TAE-D
 Fine protection device with integrated surge protection module for power supply to telecom equipment (TAE connector) for the protection of ISDN S 0 -NTBA, DSL splitters or analogue devices incl. adapter cable, 16 A*
 Item no. 5092 82 4

FineController FC-ISDN-D
 Fine protection device with integrated surge protection module for ISDN, terminals, incl. adapter cable, 16 A*
 Item no. 5092 81 2

V 10 Compact
 Surge protection devices,
 Type 2+3 for rotary current systems (3 phases, N, PE)
 For installation in sub-distributor boxes or in switch cabinets
 63 A*, 2,5 DU**

With visual function display
 V 10 Compact Item no. 5093 38 0
 With audible signalling (AS)
 V 10 Compact-AS Item no. 5093 39 1
 With remote signalling (RS)
 V 10 Compact-FS Item no. 5093 38 2

With visual signalling
 item no. 5097 65 0
 With remote signalling (RS)
 item no. 5097 85 8

ÜSM-ST-230-1P+PE
 Surge protection for retrofitting on standard Schuko sockets
 Thermal cut-off unit with acoustic defect signalling, 16A*
 Item no. 5092 44 1

CNS-3-D
 Universal fine protection with additional audible error signalling and 3x socket bar, 16 A*
 Item no. 5092 70 1

ÜSM-A and ÜSM-A-2
 Surge protection module universal, for stationary installation in standard concealed or duct installation boxes.
 With audible signalling, 16 A*

Item no. 5092 45 1
 Item no. 5092 46 0

ÜSS 45-O und ÜSS 45-A
 Surge protection module 45 for stationary installation in Rapid 45 ducts, dado ducts and underfloor systems, 16 A*

With visual function display
 ÜSS 45-O
 Item no. 6117 47 3
 With audible function display
 ÜSS 45-A
 Item no. 6117 46 5

VF 230-AC/DC
 Surge protection device, suitable for installation in sub-distributor boxes or in switch cabinets.
 20 A*, 1 DU**

With visual signalling
 item no. 5097 65 0
 With remote signalling (RS)
 item no. 5097 85 8

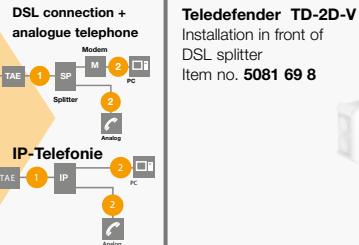
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Surge protection made easy – TBS selection aid

Telecommunications

Situation
Please select the appropriate connection type



DSL connection + analogue telephone
Installation in front of DSL splitter
Item no. 5081 69 8



DSL + ISDN
Installation in front of DSL splitter
Item no. 5081 69 8



ISDN
Installation in front of NTBA
Item no. 5081 69 0



FC-TAE-D
Fine protection device with integrated surge protection module for power supply to telecom equipment (TAE connector) 16 A*
Item no. 5092 82 4



- 1 Installation location**
 - Behind the TC transfer point/building entry point
 - Basic protection device or combined protection device
- 2 Installation location**
 - At TC terminal/modem/PC
 - Fine protection device

- 1 Installation location**
 - Installation in front of the server
- 2 Installation location**
 - Installation on the switch
- 3 Installation location**
 - Installation in front of the (PC, IP camera)

RJ11-Tele/4-F
Installation in front of analogue terminals
Item no. 5081 97 7

Net Defender
Data cable protection device for high-speed networks
Item no. 5081 80 0

Net Defender
Data cable protection device for high-speed networks
Item no. 5081 80 0

FC-TAE-D
Fine protection device with integrated surge protection module for power supply to telecom equipment (TAE connector) 16 A*
Item no. 5092 82 4

Data technology

Initial situation
Please select the appropriate cable type

Netzwerke
Class EA / CAT 6A



CCTV application



Protection of coaxial-based CCTV

- 1 Installation location**
 - Installation in Front of the server
- 2 Installation location**
 - Installation on the switch
- 3 Installation location**
 - Installation in front of the (PC, IP camera)

Net Defender
Data cable protection device for high-speed networks
Item no. 5081 80 0

Net Defender
Data cable protection device for high-speed networks
Item no. 5081 80 0

Net Defender
Data cable protection device for high-speed networks
Item no. 5081 80 0

Koax B-E2 FF-F
Data cable protection device for coaxial systems
Item no. 5082 43 4

Koax B-E2 MF-F
Data cable protection device for coaxial systems
Item no. 5082 43 2

Alternatively

Power supply

CNS-3-D
Item no. 5092 70 1



V10 Compact
for the sub-distributor and/or switch cabinet
Item no. 5093 38 0



CNS-3-D
Item no. 5092 70 1



CNS-3-D
Item no. 5092 70 1



alternativ

FineController FC-D
Fine protection 230 V
Item no. 5092 80 0



TV, video, SAT and radio

Initial situation
Please select the right application

Broadband
(Cable TV)



SAT reception system

- With receiver (e.g. in single family house)**

DS-F m/f
Item no. 5093 27 5

DS-F f/f
Item no. 5093 27 2

TV 4+1
Compact protection device (4x SAT, 1x terrestrial)
Item no. 5083 40 0

SAT reception system

- With multi switch**
- With multi-LNB (e.g. in apartment bldg.)**

DS-F m/f
Item no. 5093 27 5

DS-F f/f
Item no. 5093 27 2

TV 4+1
Compact protection device (4x SAT, 1x terrestrial)
Item no. 5083 40 0

alternativ

Terrestrial receiver unit

- Analogue TV**
- DVB-T**

DS-F m/f
Item no. 5093 27 5

DS-F f/f
Item no. 5093 27 2

TV 4+1
Compact protection device (4x SAT, 1x terrestrial)
Item no. 5083 40 0

alternativ

Terrestrial receiver unit

- Analogue TV**
- DVB-T**

DS-F m/f
Item no. 5093 27 5

DS-F f/f
Item no. 5093 27 2

TV 4+1
Compact protection device (4x SAT, 1x terrestrial)
Item no. 5083 40 0

alternativ

- 1 Installation location**
 - Installation between BC transition point and booster
- 2 Installation location**
 - Installation in front of each terminal device (TV/video/hi-fi)

FineController FC-TV-D
Fine protection devices with integrated surge protection module for TV supply cable for the protection of TV units and/or video recorders, incl. adapter cable

Item no. 5092 80 8

