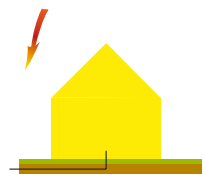


# Quick selection guide

*Yellow protects*



Risk of indirect lightning stroke



Building without external lightning protection system and ground wire connection. Starting with SPDs type 2 in the main distribution.

Private buildings (such as single-family house)  
Distance main distribution/ sub-distribution: < 10 m

Apartment buildings/ hospitals, industrial/ commercial  
Distance main/ sub distribution or combined distribution: > 10 m

Apartment buildings/ hospitals, industrial/ commercial  
Distance main/ sub distribution or combined distribution: > 10 m

TNC



T2

EP C S TNC 275\*  
(Part no. 38 10 30)

- pluggable
  - 54 mm width
  - Up at In: ≤ 1,2 kV
- Main catalog: page 88

TNS



T2

EP C S TNS 275\*  
(Part no. 38 10 50)

- pluggable
  - 70 mm width
  - Up at In: ≤ 1,2 kV
- Main catalog: page 89

TT

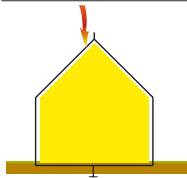


T2

EP C S TT 275\*  
(Part no. 38 10 40)

- pluggable
  - 70 mm width
  - Up at In: ≤ 1,4 kV
- Main catalog: page 91

Risk of direct lightning stroke



Building with external lightning protection system (according to EN 62305). Starting with SPDs type 1 + ... in the main distribution.

Buildings with lightning protection class III and IV (eg residential - commercial and office buildings)  
Distance from the main distribution / sub-distributor or combined distribution: > 10 m

Buildings with lightning protection class III and IV (eg residential - commercial and office buildings)  
Distance from the main distribution / sub-distributor or combined distribution: < 10 m



T1 T2

IPS BC TNC 12.5/275\*  
(Part no. 38 16 46)

- pluggable
  - 54 mm width
  - Up at In: ≤ 1,4 kV
- New products 2010: page 7



T1 T2

IPS BC TNS 12.5/275\*  
(Part no. 38 16 48)

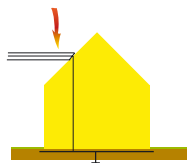
- pluggable
  - 70 mm width
  - Up at In: ≤ 1,4 kV
- New products 2010: page 8



T1 T2

IPS BC TT 12.5/275\*  
(Part no. 38 16 50)

- pluggable
  - 70 mm width
  - Up at In: ≤ 1,4 kV (MOV)
  - Up at In: ≤ 1,5 kV (GDT)
- New products 2010: page 9



Aerial line connection.

Buildings with lightning protection class I to IV (eg data centers, industrial buildings and hospitals)  
Distance main distribution/ sub-distribution: > 10 m

Buildings with lightning protection class I to IV (eg data centers, industrial buildings and hospitals)  
Distance main distribution/ sub-distribution: < 10 m or combined distribution

PP BC TNC 25/75\*  
(Part no. 37 39 80)



T1 T2

Combined arrester  
**Can be used pre-meter**  
• 105 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 2,5 kV  
Main catalog: page 37

PP BC TNS 25/100\*  
(Part no. 37 39 50)



T1 T2

Combined arrester  
**Can be used pre-meter**  
• 140 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 2,5 kV  
Main catalog: page 39

PP BC TT 25/100\*  
(Part no. 37 39 20)



T1 T2

Combined arrester  
**Can be used pre-meter**  
• 140 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 2,5 kV  
Main catalog: page 40

PP BCD TNC 25/75\*  
(Part no. 37 39 90)



T1 T2 T3

Combined arrester  
**Can be used pre-meter**  
• 105 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 1,0 kV  
Main catalog: page 27

PP BCD TNS 25/100\*  
(Part no. 37 39 60)



T1 T2 T3

Combined arrester  
**Can be used pre-meter**  
• 140 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 1,0 kV  
Main catalog: page 28

PP BCD TT 25/100\*  
(Part no. 37 39 30)



T1 T2 T3

Combined arrester  
**Can be used pre-meter**  
• 140 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 1,0 kV  
Main catalog: page 29

PP BCD TNC 25/75\*  
(Part no. 37 39 90)



T1 T2 T3

Combined arrester  
**Can be used pre-meter**  
• 105 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 1,0 kV  
Main catalog: page 27

PP BCD TNS 25/100\*  
(Part no. 37 39 60)



T1 T2 T3

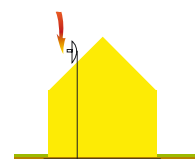
Combined arrester  
**Can be used pre-meter**  
• 140 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 1,0 kV  
Main catalog: page 28

PP BCD TT 25/100\*  
(Part no. 37 39 30)



T1 T2 T3

Combined arrester  
**Can be used pre-meter**  
• 140 mm width  
•  $U_p$  at  $I_{imp}$ : ≤ 1,0 kV  
Main catalog: page 29













Roof structures are grounded.

Buildings with lightning protection class I to IV (eg data centers, industrial buildings and hospitals)  
Distance main distribution/ sub-distribution: > 10 m or combined distribution

\* Optional remote contact

## Sub distribution

TNC	TNS	TT
	<b>Not necessary!</b>	
EP C STNC 275* (Part no. 38 10 30)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 54 mm width</li> <li>• Up at In: ≤ 1,2 kV</li> </ul> Main catalog: page 88	EP C STNS 275* (Part no. 38 10 50)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 70 mm width</li> <li>• Up at In: ≤ 1,2 kV</li> </ul> Main catalog: page 89	EP C STT 275* (Part no. 38 10 40)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 70 mm width</li> <li>• Up at In: ≤ 1,4 kV</li> </ul> Main catalog: page 91
	<b>Not necessary!</b>	
EP C STNC 275* (Part no. 38 10 30)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 54 mm width</li> <li>• Up at In: ≤ 1,2 kV</li> </ul> Main catalog: page 88	EP C STNS 275* (Part no. 38 10 50)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 70 mm width</li> <li>• Up at In: ≤ 1,2 kV</li> </ul> Main catalog: page 89	EP C STT 275* (Part no. 38 10 40)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 70 mm width</li> <li>• Up at In: ≤ 1,4 kV</li> </ul> Main catalog: page 91
	<b>Not necessary!</b>	
EP C STNC 275* (Part no. 38 10 30)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 54 mm width</li> <li>• Up at In: ≤ 1,2 kV</li> </ul> Main catalog page: 88	EP C STNS 275* (Part no. 38 10 50)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 70 mm width</li> <li>• Up at In: ≤ 1,2 kV</li> </ul> Main catalog: page 89	EP C STT 275* (Part no. 38 10 40)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 70 mm width</li> <li>• Up at In: ≤ 1,4 kV</li> </ul> Main catalog: page 91
	<b>Not necessary!</b>	
EP C STNC 275* (Part no. 38 10 30)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 54 mm width</li> <li>• Up at In: ≤ 1,2 kV</li> </ul> Main catalog: page 88	EP C STNS 275* (Part no. 38 10 50)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 70 mm width</li> <li>• Up at In: ≤ 1,2 kV</li> </ul> Main catalog: page 89	EP C STT 275* (Part no. 38 10 40)  <ul style="list-style-type: none"> <li>• pluggable</li> <li>• 70 mm width</li> <li>• Up at In: ≤ 1,4 kV</li> </ul> Main catalog: page 91

## Terminal protection

CPS+ 230  
(Part no. 32 50 00)

The device is connected to the network side as an adapter plug into an outlet and on the equipment side with a power supply cable to the protected device.



T3

CPS+ 230 Tel/Net  
(Part no. 32 50 01)

The device has an additional RJ45 connector for analog telephone devices or Ethernet 10 Base-T, cat 5 equipment protection.



T3

CPS+ 230 TV  
(Part no. 32 50 03)

The device protects TV and video equipment against surges.



T3

CPS+ 230 SAT  
(Part no. 32 50 02)

The device protects satellite systems from surges.



T3

EP D 230 KM  
(Part no. 36 20 35)

Surge protection device with audible fault indicator for installation systems and terminal devices.



T3

EnerPro 230 SDU  
(Part no. 24 00 02)

2-pole surge protection device to retrofit low-flush 230V outlets.



T3

EP D TN 275  
(Part no. 38 12 54)




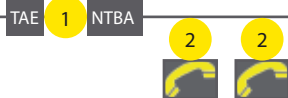


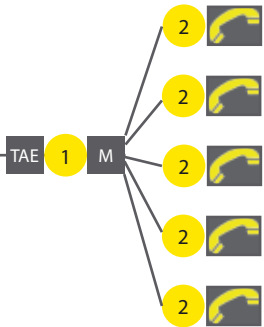


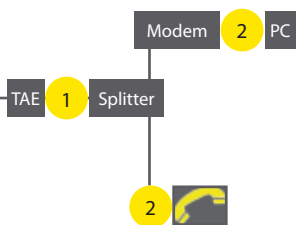


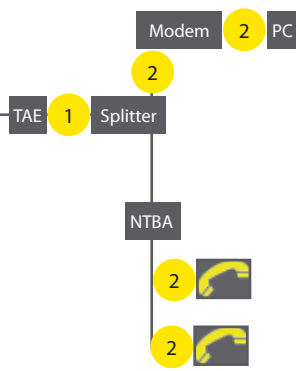


2-pole, compact surge protection, eg for 1-phase TN systems and DIN rail mounting (DIN EN 50 022).








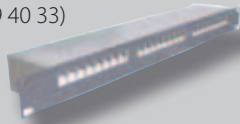
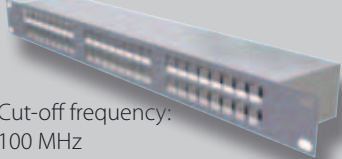





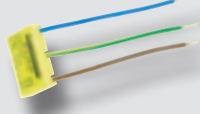


T3

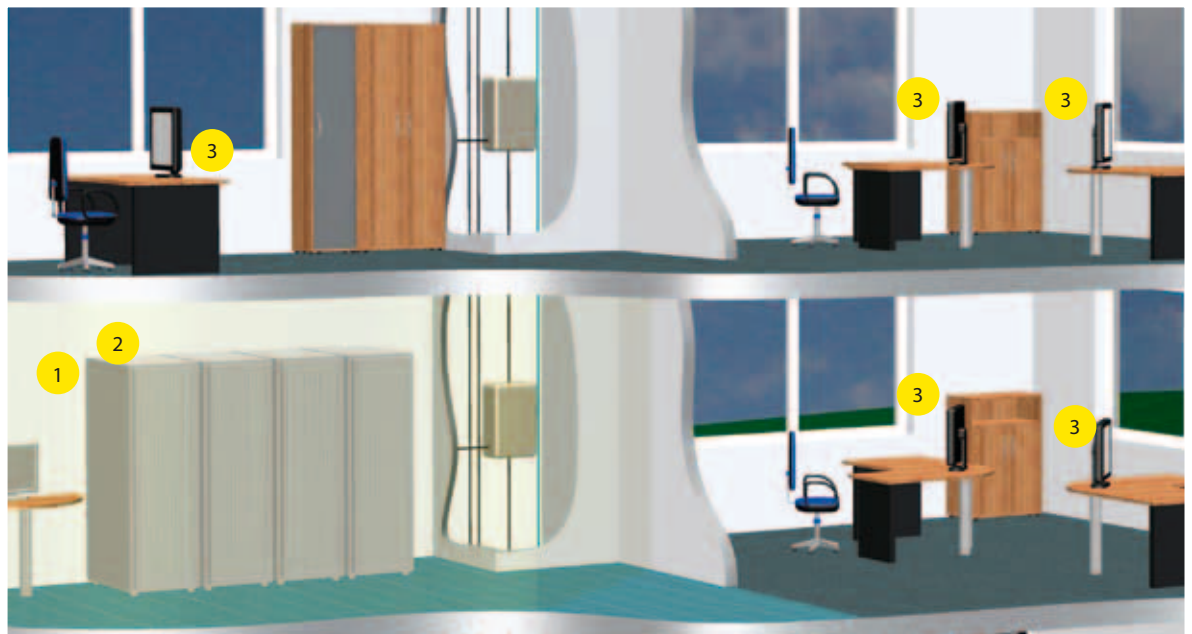
\* Optional remote contact

# Surge protection for telecommunication systems

Situation	Point of installation 1 • behind the entrance into the building / transfer point	Point of installation 2 • at the terminal equipment
<p>Analog connection up to two pairs, eg for private connection</p> 	<p>IsoProData-Tr (without filter) (Part no. 27 30 02)</p> <p>1DA (for two leads)</p> 	<p>DataPro-TAE/NFN-aP (Part no. 24 00 04)</p> <p>Alternatively: CPS+ 230 Tel/Net</p> 
<p>ISDN connection</p> 	<p>IsoProData-Tr (without filter) (Part no. 27 30 02)</p> <p>1DA (for two leads)</p> 	<p>DataPro-ISDN-aP (Part no. 24 00 13)</p> <p>Alternatively: CPS+ 230 Tel/Net</p> 
<p>ISDN multiplex connection</p> 	<p>TelPro LSA 2-10-3EH230E-10kA (Part no. 24 01 19) and</p> <p>LSA 2/10-Tr (Part no. 24 01 02) and</p> <p>LSA 2/10-MW10-25/22 (Part no. 24 01 10)*</p> <p>Alternatively a combined protection device</p> <p>DP 1LSA-T110FS-PTC (Part no. 24 00 48) and</p> <p>LSA 2/10-Tr (Part no. 24 01 02) and</p> <p>LSA 2/10-ES (Part no. 24 01 33) and</p> <p>LSA 2/10-MW10-25/22 (Part no. 24 01 10) *</p> 	<p>DataPro-ISDN-aP (Part no. 24 00 13)</p> <p>Alternatively: CPS+ 230 Tel/Net (Part no. 32 50 01) Cat. 5</p> 
<p>DSL connection and analog telephone connection</p> 	<p>IsoProData-Tr (without filter) (Part no. 27 30 02)</p> <p>1DA (for two leads)</p> 	<p>DP RJ45 f/f (Part no. 24 00 11) Cat. 5</p> <p>DP-RJ45-48V-Tr (Part no. 23 90 00) Cat. 5</p> <p>DataPro-TAE/NFN-aP (Part no. 24 00 04)</p> <p>Alternativ: CPS+ 230 Tel/Net (Part no. 32 50 01)</p> 
<p>DSL connection and ISDN</p> 	<p>IsoProData-Tr (without filter) (Part no. 27 30 02)</p> <p>1DA (for two leads)</p> 	<p>DP RJ45 f/f (Part no. 24 00 11) Cat. 5</p> <p>DP-RJ45-48V-Tr (Part no. 23 90 00) Cat. 5</p> <p>DataPro-ISDN-aP (Part no. 24 00 13)</p> <p>Alternatively: CPS+ 230 Tel/Net (Part no. 32 50 01) Cat. 5</p> 

\*(Customized mounting frame and suitable housing available)

Situation	Point of installation 1 Installation at the server	Point of installation 2 Installation at the switch/hub	Point of installation 3 Installation at the terminal
<b>CAT 5, CLASS D data line</b>	<p>DP RJ45-f/f (Part no. 24 00 11) Cut-off frequency: 100 MHz</p>  <p>DP-RJ45-48V-Tr (Part no. 23 90 00) Cut-off frequency: 100 MHz</p>  <p>DP-1xRJ45-PoE-ALU (Part no. 24 00 21) Cut-off frequency: 100 MHz</p>  <p>Alternativ: CPS+ 230 Tel/Net (Part no. 32 50 01)</p> 	<p>DP-8xRJ45-6V-WG (Part no. 19 40 50) Cut-off frequency: 100 MHz</p>  <p>DP 3x8RJ45-19" (Part no. 19 40 33)</p>  <p>Patch panel available also with 8/16/32/40 and 48 ports</p>  <p>Cut-off frequency: 100 MHz</p>	<p>DP RJ45-f/f (Part no. 24 00 11) Cut-off frequency: 100 MHz</p>  <p>DP-RJ45-48V-Tr (Part no. 23 90 00) Cut-off frequency: 100 MHz</p>  <p>DP-1xRJ45-PoE-ALU (Part no. 24 00 21) Cut-off frequency: 100 MHz</p>  <p>Alternatively: CPS+ 230 Tel/Net (Part no. 32 50 01)</p> 
<b>230 V-power supply</b>	<p>CPS+ 230 (Part no. 32 50 00)</p>  <p>EP D 230 KM (Part no. 36 20 35)</p> 	<p>CPS+ 230 (Part no. 32 50 00)</p>  <p>The device is connected to the network side as an adapter plug into an outlet and on the equipment side with a power supply cable to the protected device.</p>	<p>CPS+ 230 (Part no. 32 50 00)</p>  <p>The device is connected to the network side as an adapter plug into an outlet and on the equipment side with a power supply cable to the protected device.</p>





# Surge protection for TV, SAT, Radio and Video equipment

## Situation

Broadband (cable TV)

### Point of installation

- between transfer/connection point and amplifier

DataPro-Radio/TV  
(Part no. 21 00 30)



### Point of installation

- before every terminal device (TV/Video/HiFi)

CPS+ 230 TV  
(Part no. 32 50 03)



SAT dish and receiver (eg detached house)

SAT dish and multi switch or multi-LNB (eg apartment building)

### Point of installation

- between LNB and receiver/multi switch, right at the device to be protected

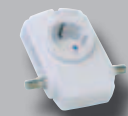
DataPro-SAT  
(Part no. 21 00 20)



### Point of installation

- before every terminal device (receiver or TV/Video/HiFi)

CPS+ 230 SAT  
(Part no. 32 50 02)



Terrestrial receiver for analog TV or DVB-T

### Point of installation

- between antenna and amplifier

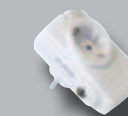
DataPro-Radio/TV  
(Part no. 21 00 30)



### Point of installation

- before every terminal device (receiver or TV/Video/HiFi)

CPS+ 230 TV  
(Part no. 32 50 03)



For surge protection devices for photovoltaic systems (DC arrester) please refer to our main catalog page 177 and in our separate PV brochure.

T1 + T2 devices,  
T2 devices and  
devices in Y-connection  
available.

Item	Part no.	Qty.		
EP C S TNC 275	38 10 30			
EP C S TNC 275/FM	38 10 35			
EP C S TNS 275	38 10 50			
EP C S TNS 275/FM	38 10 55			
EP C S TT 275	38 10 40			
EP C S TT 275/FM	38 10 45			
IPS BC TNC 12.5/275	38 16 46			
IPS BC TNC 12.5/275/FM	38 16 47			
IPS BC TNS 12.5/275	38 16 48			
IPS BC TNS 12.5/275/FM	38 16 49			
IPS BC TT 12.5/275	38 16 50			
IPS BC TT 12.5/275/FM	38 16 51			
PP BC TNC 25/75	37 39 80			
PP BC TNC 25/75/FM	37 39 82			
PP BC TNS 25/100	37 39 50			
PP BC TNS 25/100/FM	37 39 52			
PP BC TT 25/100	37 39 20			
PP BC TT 25/100/FM	37 39 22			
PP BCD TNC 25/75	37 39 90			
PP BCD TNC 25/75/FM	37 39 92			
PP BCD TNS 25/100	37 39 60			
PP BCD TNS 25/100/FM	37 39 62			
PP BCD TT 25/100	37 39 30			
PP BCD TT 25/100/FM	37 39 32			

Item	Part no.	Qty.		
CPS+ 230	32 50 00			
CPS+ 230 Tel/Net	32 50 01			
CPS+ 230 SAT	32 50 02			
CPS+ 230 TV	32 50 03			
EP D 230 KM	36 20 35			
EnerPro 230 SDU	24 00 02			
EP D TN 275	38 12 54			
EP D TN 275/FM	38 12 55			
IsoProData-Tr (o. Filter)	27 30 02			
TelProLSA 2-10-3EH230E-10kA	24 01 19			
LSA 2/10-Tr	24 01 02			
LSA 2/10-MW10-25/22	24 01 10			
DP 1LSA-T110FS-PTC	24 00 48			
LSA 2/10-ES	24 01 33			
DataPro-TAE/NFN-aP	24 00 04			
DataPro-ISDN-aP	24 00 13			
DP RJ45 f/f	24 00 11			
DP-RJ45-48V-Tr	23 90 00			
DP-1xRJ45-PoE-ALU	24 00 21			
DP-8xRJ45-6V-WG	19 40 50			
DataPro-Radio/TV	21 00 30			
DataPro-SAT	21 00 20			
DP 3x8RJ45-19"	19 40 33			

Request for quotation       Order  (Please mark accordingly!)

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**Leutron GmbH**

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