



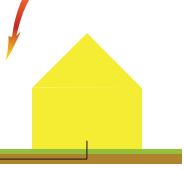
QUICK SELECTION GUIDE 2021





Risk of indirect lightning stroke

Situation

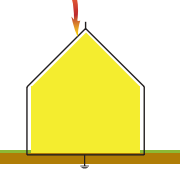


Point of installation

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

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

< 10 m



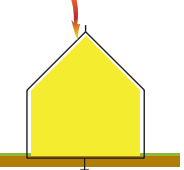
Point of installation

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

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

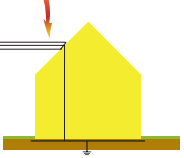
< 10 m

Risk of direct lightning stroke



Point of installation

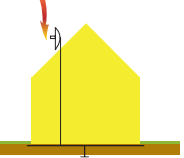
Buildings with lightning protection class I to IV (eg data centers, industrial buildings and hospitals)
Distance main distribution / sub-distribution: > 10 m



Point of installation

< 10 m or combined distribution

Aerial line connection.



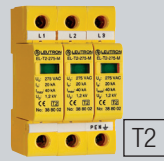
Point of installation

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

Roof structures are grounded.

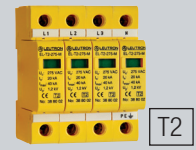
Main distribution

TNC	TNS
-----	-----



EL-T2/3+0-275-FM
(Part no. 38 81 30)

- pluggable
- 3 TE
- Up at In: ≤ 1,2 kV



EL-T2/4+0-275-FM
(Part no. 38 81 02)

- pluggable
- 4 TE
- Up at In: ≤ 1,2 kV

With remote signal contact (FM)



IPS G T1+2/3+0-300-FM
(Part no. 38 16 17)

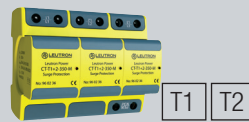
- pluggable
- 3 TE
- Up: ≤ 1,5 kV



IPS G T1+2/4+0-300-FM
(Part no. 38 16 23)

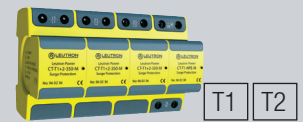
- pluggable
- 4 TE
- Up: ≤ 1,5 kV

With remote signal contact (FM)



CT-T1+2/3+0-350-FM
(Part no. 96 00 03)

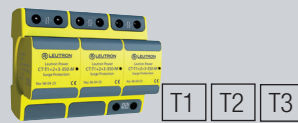
- pluggable
- 6 TE
- U_p: ≤ 1,5 kV



CT-T1+2/3+1-350-FM
(Part no. 96 00 01)

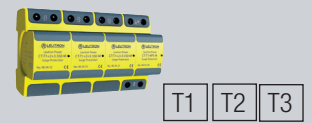
- pluggable
- 8 TE
- U_p: ≤ 1,5 kV

With remote signal contact (FM)



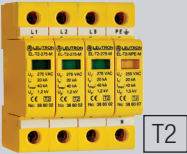

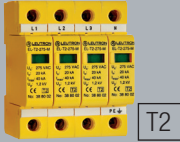
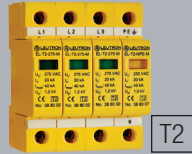
CT-T1+2+3/3+0-350-FM
(Part no. 96 04 05)

- pluggable
- 6 TE
- U_p: ≤ 1,0 kV


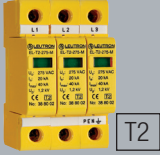
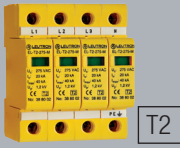
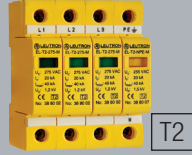


CT-T1+2+3/3+1-350-FM
(Part no. 96 04 01)

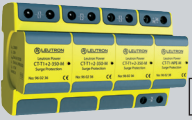

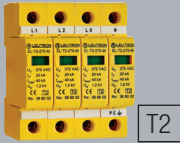
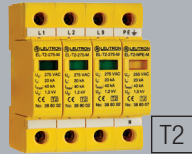
- pluggable
- 8 TE
- U_p: ≤ 1,0 kV

	Sub distribution		
TT	TNC	TNS	TT
 <p>EL-T2/3+1-275-FM (Part no. 38 81 16)</p> <ul style="list-style-type: none"> • pluggable • 4 TE • Up at In: ≤ 1,2 kV 	 <p>EL-T2/3+0-275-FM (Part no. 38 81 30)</p> <ul style="list-style-type: none"> • pluggable • 3 TE • Up at In: ≤ 1,2 kV 	 <p>EL-T2/4+0-275-FM (Part no. 38 81 02)</p> <ul style="list-style-type: none"> • pluggable • 4 TE • Up at In: ≤ 1,2 kV 	 <p>EL-T2/3+1-275-FM (Part no. 38 81 16)</p> <ul style="list-style-type: none"> • pluggable • 4 TE • Up at In: ≤ 1,2 kV

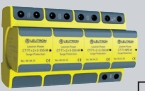
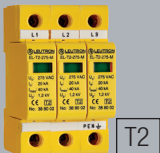

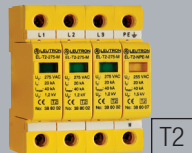
Not needed for cable length < 10 m

 <p>IPS G T1+2/3+1-300-FM (Part no. 38 16 27)</p> <ul style="list-style-type: none"> • 4 TE, pluggable • Up: ≤ 1,5 kV (MOV) • Up: ≤ 1,5 kV (GDT) 	 <p>EL-T2/3+0-275-FM (Part no. 38 81 30)</p> <ul style="list-style-type: none"> • pluggable • 3 TE • Up at In: ≤ 1,2 kV 	 <p>EL-T2/4+0-275-FM (Part no. 38 81 02)</p> <ul style="list-style-type: none"> • pluggable • 4 TE • Up at In: ≤ 1,2 kV 	 <p>EL-T2/3+1-275-FM (Part no. 38 81 16)</p> <ul style="list-style-type: none"> • pluggable • 4 TE • Up at In: ≤ 1,2 kV
---	---	---	---

Not needed for cable length < 10 m

 <p>CT-T1+2/3+1-350-FM (Part no. 96 00 01)w</p> <ul style="list-style-type: none"> • pluggable • 8 TE • Up_p: ≤ 1,5 kV 	 <p>EL-T2/3+0-275-FM (Part no. 38 81 30)</p> <ul style="list-style-type: none"> • pluggable • 3 TE • Up at In: ≤ 1,2 kV 	 <p>EL-T2/4+0-275-FM (Part no. 38 81 02)</p> <ul style="list-style-type: none"> • pluggable • 4 TE • Up at In: ≤ 1,2 kV 	 <p>EL-T2/3+1-275-FM (Part no. 38 81 16)</p> <ul style="list-style-type: none"> • pluggable • 4 TE • Up at In: ≤ 1,2 kV
---	---	---	---

Not needed for cable length < 10 m

 <p>CT-T1+2+3/3+1-350-FM (Part no. 96 04 01)</p> <ul style="list-style-type: none"> • pluggable • 8 TE • Up_p: ≤ 1,0 kV 	 <p>EL-T2/3+0-275-FM (Part no. 38 81 30)</p> <ul style="list-style-type: none"> • pluggable • Up at In: ≤ 1,2 kV 	 <p>EL-T2/4+0-275-FM (Part no. 38 81 02)</p> <ul style="list-style-type: none"> • pluggable • Up at In: ≤ 1,2 kV 	 <p>EL-T2/3+1-275-FM (Part no. 38 81 16)</p> <ul style="list-style-type: none"> • pluggable • Up at In: ≤ 1,2 kV
--	---	---	---



Main distribution

Situation

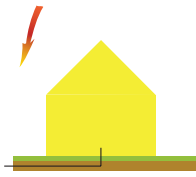
Point of installation

TNC

TNS

TT

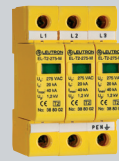
Risk of indirect lightning stroke



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

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

< 10 m



EL-T2/3+0-275-FM (Part no. 38 81 30)
• pluggable
• 3 TE
• Up at In: ≤ 1,2 kV



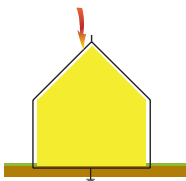
EPS T2/4+0-275-FM (Part no. 38 06 13)
• pluggable
• I_{max}: 40 kA (8/20μs)
• Up at In: ≤ 1,2 kV



EPS T2/3+1-275-FM (Part no. 38 06 15)
• pluggable
• I_{max}: 40 kA (8/20μs)
• Up at In: ≤ 1,2 kV

With remote signal contact (FM)

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

< 10 m



IPS G T1+2/3+0-300-FM (Part no. 38 16 17)
• pluggable
• 3 TE
• Up: ≤ 1,5 kV

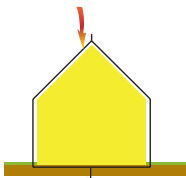


IPS G T1+2/4+0-300-FM (Part no. 38 16 23)
• pluggable
• 4 TE
• Up: ≤ 1,5 kV



IPS G T1+2/3+1-300-FM (Part no. 38 16 27)
• 4 TE, pluggable
• Up: ≤ 1,5 kV (MOV)
• Up: ≤ 1,5 kV (GDT)

With remote signal contact (FM)



Aerial line connection.

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

< 10 m or combined distribution



PP BC TNC 25/75-FM (Part no. 37 39 82)
• 6 TE
• U_p: ≤ 2,5 kV

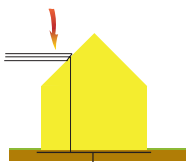


PP BC TNS 25/100-FM (Part no. 37 39 52)
• 8 TE
• U_p: ≤ 2,5 kV



PP BC TT 25/100-FM (Part no. 37 39 22)
• 8 TE
• U_p: ≤ 2,5 kV

With remote signal contact (FM)



Roof structures are grounded.

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



PP BCD TNC 25/75-FM (Part no. 37 39 92)
• 6 TE
• U_p: ≤ 1,0 kV



PP BCD TNS 25/100-FM (Part no. 37 39 62)
• 8 TE
• U_p: ≤ 1,0 kV



PP BCD TT 25/100-FM (Part no. 37 39 32)
• 8 TE
• U_p: ≤ 1,0 kV



PP BCD TNC 25/75-FM (Part no. 37 39 92)
• 6 TE
• U_p: ≤ 1,0 kV



PP BCD TNS 25/100-FM (Part no. 37 39 62)
• 8 TE
• U_p: ≤ 1,0 kV



PP BCD TT 25/100-FM (Part no. 37 39 32)
• 8 TE
• U_p: ≤ 1,0 kV

Sub distribution

TNC

TNS

TT



EL-T2/3+0-275-FM
(Part no. 38 81 30)

- pluggable
- 3 TE
- Up at In: ≤ 1,2 kV



EPS T2/4+0-275-FM
(Part no. 38 06 13)

- pluggable
- I_{max}: 40 kA (8/20μs)
- Up at In: ≤ 1,2 kV



EPS T2/3+1-275-FM
(Part no. 38 06 15)

- pluggable
- I_{max}: 40 kA (8/20μs)
- Up at In: ≤ 1,2 kV

Not needed for cable length < 10 m



EL-T2/3+0-275-FM
(Part no. 38 81 30)

- pluggable
- 3 TE
- Up at In: ≤ 1,2 kV



EPS T2/4+0-275-FM
(Part no. 38 06 13)

- pluggable
- I_{max}: 40 kA (8/20μs)
- Up at In: ≤ 1,2 kV



EPS T2/3+1-275-FM
(Part no. 38 06 15)

- pluggable
- I_{max}: 40 kA (8/20μs)
- Up at In: ≤ 1,2 kV

Not needed for cable length < 10 m



EL-T2/3+0-275-FM
(Part no. 38 81 30)

- pluggable
- 3 TE
- Up at In: ≤ 1,2 kV



EPS T2/4+0-275-FM
(Part no. 38 06 13)

- pluggable
- I_{max}: 40 kA (8/20μs)
- Up at In: ≤ 1,2 kV



EPS T2/3+1-275-FM
(Part no. 38 06 15)

- pluggable
- I_{max}: 40 kA (8/20μs)
- Up at In: ≤ 1,2 kV

Not needed for cable length < 10 m



EL-T2/3+0-275-FM
(Part no. 38 81 30)

- pluggable
- Up at In: ≤ 1,2 kV



EPS T2/4+0-275-FM
(Part no. 38 06 13)

- pluggable
- Up at In: ≤ 1,2 kV



EPS T2/3+1-275-FM
(Part no. 38 06 15)

- pluggable
- Up at In: ≤ 1,2 kV

Terminal Protection

EP-T3/230 KM-10kA
(Part no. 36 20 41)

T3

Surge arrester for installation systems and terminal equipment with optical fault indication (LED).
- Indoor Execution (IP 21)



EP-T3/230 KM-10kA-v
(Part no. 36 20 43)

T3

Surge arrester for installation systems and terminal equipment with optical fault indication (LED).
- Outdoor Execution (IP 65)



EP-T3/230 SDU
(Part no. 36 20 40)

T3

Two-pole surge arrester for the protection of electrical devices, for the retrofitting of 230 V flush-mounted boxes.



CPS-F 230/RJ45/RJ11
(Part no. 32 50 45)

T3

Pluggable combined overvoltage protection for electrical and electronic devices with supply voltage of 230 V. Application for analogue and digital telephone lines, IT and networks.



EP D TN 24V/16A/FM
(Part no. 38 05 51)

T3

Compact 2-pole surge arrester type 3 (class III) for TN systems.
- Rated load current: 16 A
- With remote signal contact (FM)



EP D TN 24V/25A-FM
(Part no. 38 05 55)

T3

Compact 2-pole surge arrester type 3 (class III) for TN systems.
- Rated load current: 25 A
- With remote signal contact (FM)



CT-T3/24V-16A-FM
(Part no. 38 00 13)

T3

Pluggable 2-pole surge arrester type 3 (class III) for TN systems.
- Rated load current: 16 A
- With remote signal contact (FM)





SURGE PROTECTION FOR TELECOMMUNICATION SYSTEMS

Situation

Analog connection up to two pairs, eg for private connection



1 behind the entrance into the building / transfer point

IsoProData-Tr (without filter)
(Part no. 27 30 02)

1DA (for two leads)

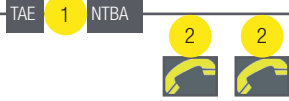


2 at the terminal equipment

DataPro-TAE/NFN-aP
(Part no. 24 00 04)



ISDN connection



IsoProData-Tr (without filter)
(Part no. 27 30 02)

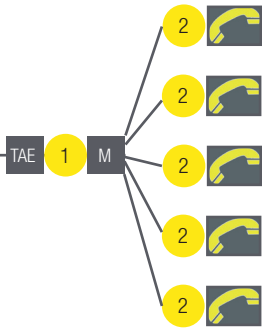
1DA (for two leads)



DP RJ45-48V-Tr
(Part no. 23 90 00)



ISDN multiplex connection



TelPro LSA 2-10-3EH230E-10kA
(Part no. 24 01 19) and

LSA 2/10-Tr
(Part no. 24 01 02) and

LSA 2/10-MW10-25/22
(Part no. 24 01 10)*

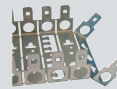
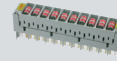
Alternatively a combined protection device

DP 1LSA-T110FS-PTC
(Part no. 24 00 48) and

LSA 2/10-Tr
(Part no. 24 01 02) and

LSA 2/10-ES
(Part no. 24 01 33) and

LSA 2/10-MW10-25/22
(Part no. 24 01 10) *



DP RJ45-48V-Tr
(Part no. 23 90 00)



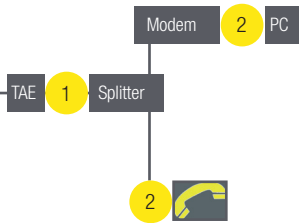
DataPro-TAE/NFN-aP
(Part no. 24 00 04)



Alternativ:
CPS-F 230/RJ45/RJ11
(Part no. 32 50 45)



DSL connection and analog telephone connection



IsoProData-Tr (without filter)
(Part no. 27 30 02)

1DA (for two leads)



DP RJ45 f/f
(Part no. 24 00 11)
Cat. 5



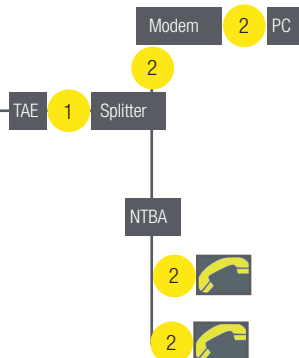
DP-RJ45-CAT6-48V-Tr
(Part no. 24 00 05)
Cat. 6



DataPro-TAE/NFN-aP
(Part no. 24 00 04)



DSL connection and ISDN



IsoProData-Tr (without filter)
(Part no. 27 30 02)

1DA (for two leads)



DP RJ45 f/f
(Part no. 24 00 11)
Cat. 5



DP-RJ45-CAT6-48V-Tr
(Part no. 24 00 05)
Cat. 6



DP RJ45-48V-Tr
(Part no. 23 90 00)



*(Customized mounting frame and suitable housing available)

Situation

Installation at the server

Installation at the switch/hub

Installation at the terminal

**CAT 5 (6),
CLASS D**
Data line

DP RJ45-f/f
(Part no. 24 00 11)
Cut-off frequency: 100 MHz



DP-8xRJ45-6V-WG
(Part no. 19 40 50) or
DP 8xRJ45-6x6V/2x48V-WG
(Part no. 19 40 51)
Cut-off frequency: 100 MHz



DP RJ45-f/f
(Part no. 24 00 11)
Cut-off frequency: 100 MHz



DP-RJ45-CAT6-48V-Tr
(Part no. 24 00 05)
Cut-off frequency: 250 MHz



DP 1x8RJ45-19"
(Part no. 19 40 13)



DP-RJ45-CAT6-48V-Tr
(Part no. 24 00 05)
Cut-off frequency: 250 MHz



DP-1xRJ45-PoE-ALU
(Part no. 24 00 21)
Cut-off frequency: 100 MHz



Patchpanel also with 8/16/32/40 and 48
Ports available



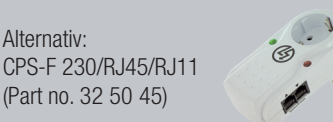
DP-1xRJ45-PoE-ALU
(Part no. 24 00 21)
Cut-off frequency: 100 MHz



Alternativ:
CPS-F 230/RJ45/RJ11
(Part no. 32 50 45)



Cut-off frequency:
100 MHz

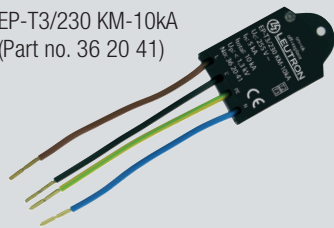


Alternativ:
CPS-F 230/RJ45/RJ11
(Part no. 32 50 45)



**230 V-net power
supply**

EP-T3/230 KM-10kA
(Part no. 36 20 41)



Alternativ:
CPS-F 230/RJ45/RJ11
(Part no. 32 50 45)



Alternativ:
CPS-F 230/RJ45/RJ11
(Part no. 32 50 45)





LEUTRON GMBH

LIGHTNING AND SURGE PROTECTION

GAUSSSTR. 2

D-70771 LEINFELDEN-ECHTERDINGEN

T: +49-(0)711-94771-0

F: +49-(0)711-94771-70

INFO@LEUTRON.DE

WWW.LEUTRON.DE

We reserve the right to make alterations in style and form in line with technical development. The illustrations are non-binding.
© Leutron GmbH 03/2021 P/N 98 02 04

WWW.LEUTRON.DE