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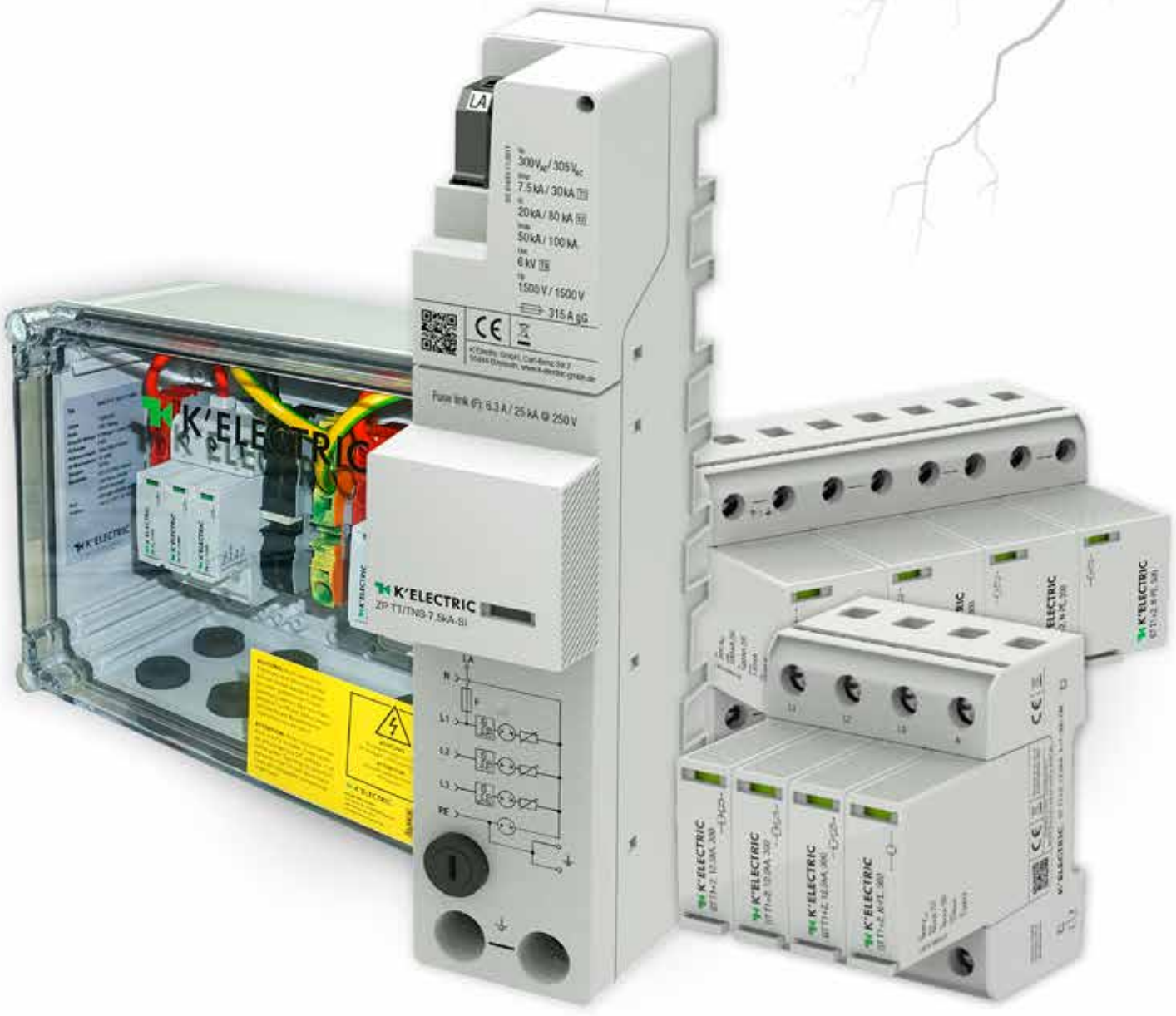
K'ELECTRIC



LIGHTNING AND SURGE PROTECTION

Lightning protection for residential and functional buildings

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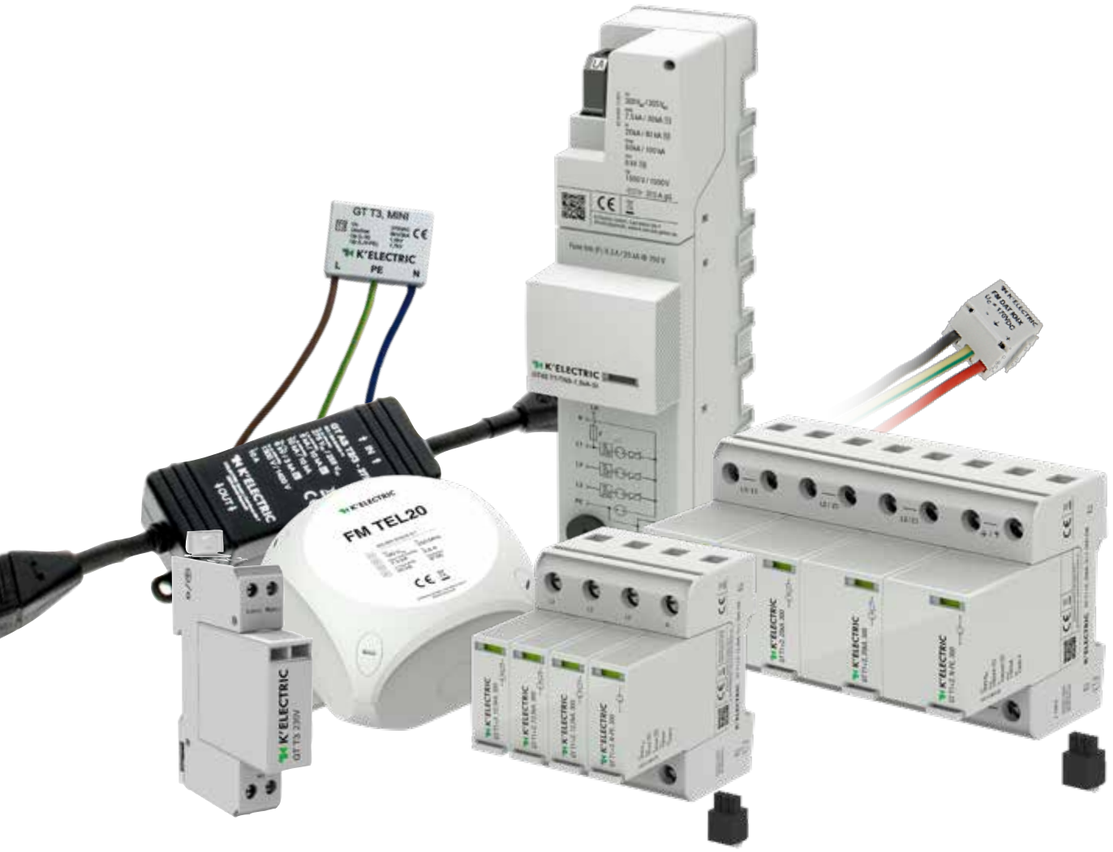
Photovoltaik

As of August 2022

OUR PRODUCTS

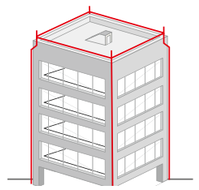


Quick overview 1

GEBÄUDE

APPLICATION	INSTALLATION OF THE MAIN DISTRIBUTION			INSTALLATION OF THE SUB-DISTRIBUTION
	Mains-side connection (NAR)	or	Connection on the system side (ARR)	at distance to main distribution > 10m

Lightning protection class I and II buildings



TYP 1+2

TT/TNS	
GT T1+2, 25kA, 3+1-300-**FM**	**500200**
GT T1+2, 25kA, 3+1-275-**FM**, 4TE	**500213**
TNC	
GT T1+2, 25kA, 3+0-300-**FM**	**500201**
GT T1+2, 25kA, 3+0-275-**FM**, 3TE	**500214**

Lightning protection class III and IV buildings

TYP 1+2

TT/TNS	
GT40 TT/TNS-12,5kA-**B**	**500103**
GT40 TT/TNS-12,5kA-**S**	**500101**
GT40 TT/TNS-12,5kA-**SI**	**500110**
TNC	
GT40 TNC-12,5kA-**S**	**500107**

TYP 1+2

TNS	
GT T1+2, 12,5kA, 4+0-300-**FM**	**500231**
GT T1+2, 12,5kA, 4+0-300-**FM-L**	**500250**

TT/TNS	
GT T1+2, 12,5kA, 3+1-300-**FM**	**500230**
GT T1+2, 12,5kA, 3+1-300-**FM-L**	**500251**

TNC	
GT T1+2, 12,5kA, 3+0-300-**FM**	**500232**
GT T1+2, 12,5kA, 3+0-300-**FM-L**	**500252**

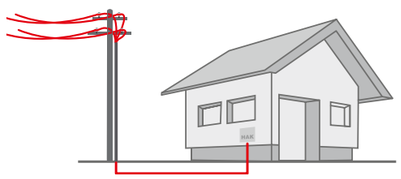
TYP 2

TNS	
GT T2, 4+0-300	**500300**
GT T2, 4+0-300-**FM**	**500301**

TT/TNS	
GT T2, 3+1-300	**500302**
GT T2, 3+1-300-**FM**	**500303**
GT T2, 3+1-300-**FM-SI**	**500320**

TNC	
GT T2, 3+0-300-**FM**	**500305**

Buildings with overhead line feeds



TYP 1+2

TT/TNS	
GT40 TT/TNS-7,5kA-**B**	**500102**
GT40 TT/TNS-7,5kA-**S**	**500100**
GT40 TT/TNS-7,5kA-**SI**	**500109**
TNC	
GT40 TNC-7,5kA-**SI**	**500111**

TYP 1+2

TT/TNS	
GT T1+2, 12,5kA, 3+1-300-**FM**	**500230**
GT T1+2, 12,5kA, 3+1-300-**FM-L**	**500251**

TNC	
GT T1+2, 12,5kA, 3+0-300-**FM**	**500232**
GT T1+2, 12,5kA, 3+0-300-**FM-L**	**500252**

Buildings without external lightning protection

TYP 2

TT/TNS	
GT T2, 3+1-300	**500302**
GT T2, 3+1-300-**FM**	**500303**

TNC	
GT T2, 3+0-300-**FM**	**500305**

TYP 2

TNS	
GT T2, 4+0-300	**500300**
GT T2, 4+0-300-**FM**	**500301**

TT/TNS	
GT T2, 3+1-300	**500302**
GT T2, 3+1-300-**FM**	**500303**
GT T2, 3+1-300-**FM-SI**	**500320**

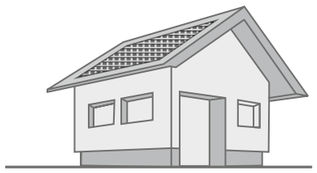
TNC	
GT T2, 3+0-300-**FM**	**500305**

-B = basic **-L** = leakage current **-S** = with voltage tap **-FM** = with remote signalling contact **-SI** = with fused voltage tap

Selection guide for suitable lightning and surge protection in residential and functional buildings

BUILDING WITH PHOTOVOLTAICS

APPLICATION	AC-SIDE BEFORE THE INVERTER	DC-SIDE	
Buildings with external lightning protection	TYP 1+2	TYP 1+2	TYP 1+2
Buildings without external lightning protection	TYP 1+2	TYP 2	TYP 2



AC-SIDE BEFORE THE INVERTER

TT/TNS

GT40 TT/TNS-12,5kA-**B**	**500103**
GT40 TT/TNS-12,5kA-**S**	**500101**
GT40 TT/TNS-12,5kA-**SI**	**500110**

TNC

GT40 TNC-12,5kA-**S**	**500107**

TT/TNS

GT40 TT/TNS-7,5kA-**B**	**500102**
GT40 TT/TNS-7,5kA-**S**	**500100**
GT40 TT/TNS-7,5kA-**SI**	**500109**

TNC

GT40 TNC-7,5kA-**SI**	**500111**

DC-SIDE

Typ 1+2, 1100V

PV T1+2, 1100V	**500401**
PV T1+2, 1100V-**FM**	**500400**

Typ 1+2, 1500V

PV T1+2, 1500V	**500403**
PV T1+2, 1500V-**FM**	**500402**

Typ 2, 1100V

PV T2, 1100V	**500420**
PV T2, 1100V-**FM**	**500421**

Typ 2, 1500V

PV T2, 1500V	**500422**
PV T2, 1500V-**FM**	**500423**

Typ 1+2, 1100V

GAK 1x1/T1+T2 1100V	**165621**
GAK 2x2/T1+T2 1100V	**165620**

Typ 2, 1100V

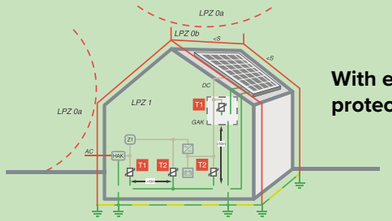
GAK 1x2/T2 1100V	**165639**
GAK 2x2/T2 1100V	**165640**
GAK 3x2/T2 1100V	**165641**

ADDITIONAL BUILDING SURGE PROTECTION

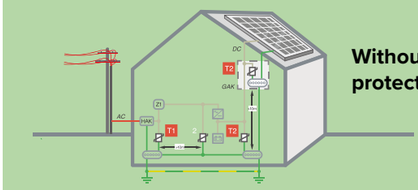
APPLICATION	PRODUCTS FOR AN OVERALL PROTECTION CONCEPT			
Telephone systems		FM TEL20	**500501**	ADSL, ADSL2, ADSL2+, VDSL,VDSL2
Data interfaces		FM Dat Net Cat6	**500502**	Power Over Ethernet Cat 6 (POE)
Bussystem		FM Dat KNX	**500504**	KNX / EIB-Bus
sun protection		GT-AS-T2/3-275	**500505**	Kirschmann STAK3/STAS3
fine protection		GT3 mini	**500503**	Typ 3 / 230V
		GT T3, 230V **FM**	**500509**	Typ 3 / 230V mit Fernmeldekontakt
		GT T3, 24V **FM**	**500510**	Typ 3 / 24V mit Fernmeldekontakt

signal protection

PROTECTION CONCEPT FOR BUILDINGS WITH PV SYSTEMS



With external Lightning protection system



Without external Lightning protection system

-B = basic **-L** = leakage current **-S** = with voltage tap **-FM** = with remote signalling contact **-SI** = with fused voltage tap

GT40

GT40 TT/TNS-7,5-SI

Multipole, compact lightning current combination arresters

for the 40mm busbar system | type 1 + 2

- only 47mm wide
- status indicator green / not green
- installation in the pre-meter area

for TT-/TNS-Systems | 7,5kA

Item	Art. no.
GT40 TT/TNS-7,5kA-B	**500102**

- Lightning impulse current 7.5kA (10/350µs) per pole, protection level less than 1.5kV

scan for data sheet

Item	Artikel-Nr.
GT40 TT/TNS-7,5kA-S	**500100**

- Lightning impulse current 7.5kA (10/350µs) per pole, protection level less than 1.5kV
- with voltage tap (L1) for the voltage supply of the APZ panel

Item	Artikel-Nr.
GT40 TT/TNS-7,5kA-SI	**500109**

- Lightning impulse current 7.5kA (10/350µs) per pole, protection level less than 1.5kV
- with fused voltage tap (6.3A)

for TT-/TNS-Systems | 12,5kA

Item	Artikel-Nr.
GT40 TT/TNS-12,5kA-B	**500103**

- Lightning impulse current 12.5kA (10/350µs) per pole, protection level less than 1.5kV

Item	Artikel-Nr.
GT40 TT/TNS-12,5kA-S	**500101**

- Lightning impulse current 12.5kA (10/350µs) per pole, protection level less than 1.5kV
- with voltage tap (L1) for the voltage supply of the APZ panel

Item	Artikel-Nr.
GT40 TT/TNS-12,5kA-SI	**500110**

- Lightning impulse current 12.5kA (10/350µs) per pole, protection level less than 1.5kV
- with fused voltage tap (6.3A)

for TNC-Systems | 7,5kA und 12,5kA

Item	Artikel-Nr.
GT40 TNC-7,5kA-SI	**500111**

- Lightning impulse current 7.5kA (10/350µs) per pole, protection level less than 1.5kV
- with fused voltage tap (6.3A)

scan for data sheet

Item	Artikel-Nr.
GT40 TNC-12,5kA-S	**500107**

- Lightning impulse current 12.5kA (10/350µs) per pole, protection level less than 1.5kV
- with voltage tap (L1) for the voltage supply of the APZ panel

equipment

Item	Artikel-Nr.
Cable set for the GT40 arrester	**500120**

- 2 x connection cable
- 2 x BLF 5.08-plug
- 1 x Conductor connection terminal (for the N rail)

2

GT T1+2

GT T1+2, 25kA, 3+1-300-FM

Multipole, pluggable AC lightning current combination arrestors

Type 1 + 2

for the TT-/TNS-System | Blitzschutzklasse I und II | 25kA

Item	Art. no.
GT T1+2, 25kA, 3+1-300-FM	**500200**

- ✓ **Leakage-free (pre-metering area)**
- ✓ Status indicator green/not green
- ✓ with remote signalling contact
- ✓ Lightning impulse current 25kA (10/350µs) per pole, protection level < 1.5kV
- ✓ highest continuous voltage 300V

scan for data sheet

Item	Art. no.
GT T1+2, 25kA, 3+1-275-FM, 4TE	**500213**

- ✓ **Leakage-free (pre-metering area)**
- ✓ only 4 TE wide
- ✓ with remote signaling contact
- ✓ for 230V/400V nominal voltage
- ✓ Lightning impulse current 25kA (10/350µs) per pole, protection level < 1.5kV
- ✓ defect display on the plug-in module

for the TNC-System | Blitzschutzklasse I und II | 25kA

Item	Art. no.
GT T1+2, 25kA, 3+0-300-FM	**500201**

- ✓ **Leakage-free (pre-metering area)**
- ✓ Status indicator green/not green
- ✓ with remote signalling contact
- ✓ Lightning impulse current 25kA (10/350µs) per pole, protection level < 1.5kV
- ✓ highest continuous voltage 300V

Item	Art. no.
GT T1+2, 25kA, 3+0-275-FM, 3TE	**500214**

- ✓ **Leakage-free (pre-metering area)**
- ✓ **only 3 TE wide**
- ✓ with remote signaling contact
- ✓ modules pluggable
- ✓ for 230V/400V nominal voltage
- ✓ Lightning impulse current 25kA (10/350µs) per pole, protection level less than 1.5kV
- ✓ Defect display on the plug-in module

for the TNS-System | Blitzschutzklasse III und IV | 12,5kA

Item	Art. no.
GT T1+2, 12,5kA, 4+0-300-FM	**500231**

- ✓ **Leakage-free (pre-metering area)**
- ✓ Status indicator green/not green
- ✓ with remote signalling contact
- ✓ Lightning impulse current 12.5kA (10/350µs) per pole
- ✓ highest continuous voltage 300V

scan for data sheet

Item	Art. no.
GT T1+2, 12,5kA, 4+0-300-FM-L	**500250**

- ✓ **Leakage current (post-metering area)**
- ✓ Status indicator green/not green
- ✓ with remote signalling contact
- ✓ Lightning impulse current 12.5kA (10/350µs) per pole
- ✓ highest continuous voltage 300V

for the TT-/TNS-System | Blitzschutzklasse III und IV | 12,5kA

Item	Art. no.
GT T1+2, 12,5kA, 3+1-300-FM	**500230**

- ✓ **Leakage-free (pre-metering area)**
- ✓ Status indicator green/not green
- ✓ with remote signalling contact
- ✓ Lightning impulse current 12.5kA (10/350µs) per pole
- ✓ highest continuous voltage 300V

Item	Art. no.
GT T1+2, 12,5kA, 3+1-300-FM-L	**500251**

- ✓ **Leakage current (post-metering area)**
- ✓ Status indicator green/not green
- ✓ with remote signalling contact
- ✓ Lightning impulse current 12.5kA (10/350µs) per pole
- ✓ highest continuous voltage 300V

for the TNC-System | Blitzschutzklasse III und IV | 12,5kA

Item	Art. no.
GT T1+2, 12,5kA, 3+0-300-FM	**500232**

- ✓ **Leakage-free (pre-metering area)**
- ✓ Status indicator green/not green
- ✓ with remote signalling contact
- ✓ Lightning impulse current 12.5kA (10/350µs) per pole
- ✓ highest continuous voltage 300V

Item	Art. no.
GT T1+2, 12,5kA, 3+0-300-FM-L	**500252**

- ✓ **Leakage current (post-metering area)**
- ✓ Status indicator green/not green
- ✓ with remote signalling contact
- ✓ Lightning impulse current 12.5kA (10/350µs) per pole
- ✓ highest continuous voltage 300V

3

GT T2

GT T2, 4+0-300

Multipole, pluggable AC surge arresters

Type 2

for the TNS-System

Item	Art. no.
GT T2, 4+0-300	**500300**
✓ Status indicator green/not green	

scan for data sheet

Artikel	Art. no.
GT T2, 4+0-300-FM	**500301**
✓ Status indicator green/not green ✓ with remote signalling contact	

With integrated back-up fuse!

for the TT-/TNS-System

Item	Art. no.
GT T2, 3+1-300	**500302**
✓ Status indicator green/not green	

Item	Art. no.
GT T2, 3+1-300-FM	**500303**
✓ Status indicator green/not green ✓ with remote signalling contact	

Item	Art. no.
GT T2, 3+1-300-FM-SI	**50 0320**
✓ Status indicator green/not green ✓ with remote signalling contact ✓ **with integrated fuse**	

for the TNC-System

Item	Art. no.
GT T2, 3+0-300-FM	**500305**
✓ Status indicator green/not green ✓ with remote signalling contact	

scan for data sheet

for 1-phase System

Item	Art. no.
GT T2, 1+1-300-FM	**500310**
✓ Status indicator green/not green ✓ with remote signalling contact	

4 PV

PV T1+2, 1100V-FM

Multipole, pluggable arresters for photovoltaic applications

Type 1 + 2 | type 2

Lightning current combination arrestors type 1+2, 1100V, DC

Item	Art. no.
PV T1+2, 1100V	**500401**

- ✓ 1100V, 3+0
- ✓ Status indicator green/not green

scan for data sheet

Item	Art. no.
PV T1+2, 1100V-FM	**500400**

- ✓ 1100V, 3+0
- ✓ with remote signalling contact
- ✓ Status indicator green/not green

Lightning current combination arrestors type 1+2, 1500V, DC

Item	Art. no.
PV T1+2, 1500V	**500403**

- ✓ 1500V, 3+0
- ✓ Status indicator green/not green

Item	Art. no.
PV T1+2, 1500V-FM	**500402**

- ✓ 1500V, 3+0
- ✓ with remote signalling contact
- ✓ Status indicator green/not green

Surge arresters type 2, 1100V, DC

Item	Art. no.
PV T2, 1100V	**500420**

- ✓ 1100V, 3+0
- ✓ Status indicator green/not green

scan for data sheet

Item	Art. no.
PV T2, 1100V-FM	**500421**

- ✓ 1100V, 3+0
- ✓ with remote signalling contact
- ✓ Status indicator green/not green

Surge arresters type 2, 1500V, DC

Item	Art. no.
PV T2, 1500V	**500422**

- ✓ 1500V, 3+0
- ✓ Status indicator green/not green

Item	Art. no.
PV T2, 1500V-FM	**500423**

- ✓ 1500V, 3+0
- ✓ with remote signalling contact
- ✓ Status indicator green/not green

5

GAK

GAK 2x2/T2 1100V

Generator junction boxes

with transparent cover and pre-mounted cable glands

- Plug-in terminal (+) and (-): 10 mm²
- Plug-in terminal PE: 16 mm²
- Pressure compensation element
- 1x cable bushing M20 for earthing connection
- UV-resistant screw connection

Lightning current combi conductors type 1+2, 1100V

Arresters: 1x T1+T2 1100V DC
MPP tracker: 1
Strings per MPP: 2

Case: 200x200x132 IP65
Features: 4x 2-fold cable bushing 2x 6mm²

scan for data sheet

Item	Art. no.
GAK 1x2/T1+T2 1100V	**165621**

Arresters: 2x T1+T2 1100V DC
MPP tracker: 2
Strings per MPP: 2

Case: 300x200x132 IP65
Features: 8x 2-fold cable bushing 2x6mm²

Item	Art. no.
GAK 2x2/T1+T2 1100V	**165620**

Surge arresters type 2, 1100V

Arresters: 1x T2 1100V DC
MPP tracker: 1
Strings per MPP: 2

Case: 200x200x132 IP65
Features: 4x 2-fold cable bushing 2x6mm²

scan for data sheet

Item	Art. no.
GAK 1x2/T2 1100V	**165639**

Arresters: 2x T2 1100V DC
MPP tracker: 2
Strings per MPP: 2

Case: 300x200x132 IP65
Features: 8x 2-fold cable bushing 2x6mm²

Item	Art. no.
GAK 2x2/T2 1100V	**165640**

Arresters: 3x T2 1100V DC
MPP tracker: 3
Strings per MPP: 2

Case: 400x300x132 IP65
Features: 12x 2-fold cable bushing 2x6mm²

Item	Art. no.
GAK 3x2/T2 1100V	**165641**

FM

FM TEL20

Combination arresters for data/telecomm. systems

telecommunications | telephone | network

Item	Art. no.
FM TEL20	**500501**

Combination arrester for telecommunication systems.
- ✓ D1 / C1 / C2 / C3
- ✓ 7,5 kA lightning current discharge capacity
- ✓ Push-in connections
- ✓ Dimensions: 92 x 92 x 62 mm

scan for data sheet

Item	Art. no.
FM Dat Net Cat6	**500502**

Combination arrester for Ethernet for the protection of data networks and network devices such as hubs, switches, servers.
- ✓ D1 / C2 / C1 / C3
- ✓ 1 kA Lightning current discharge capacity
- ✓ RJ45 connection
- ✓ 250 MHz
- ✓ Top-hat rail mounting

Item	Art. no.
GT3 mini	**500503**

Device protection type 3 (fine protection), for installation in switch and junction boxes
- ✓ acoustic signalling
- ✓ Max. continuous voltage 275 V AC
- ✓ U_{oc} 6kV / I_{cw} 3 kA (8/20µs)

Item	Artikel-Nr.
FM Dat KNX	**500504**

- ✓ D1 / C1 / C2 / C3
- ✓ Discharge capacity: In 5kA, Imax: 10kA, limp 1kA
- ✓ 24V AC
- ✓ Serien-Bemessungsstrom 7A

scan for data sheet

Item	Art. no.
GT-AS-T2/3-275	**500505**

- ✓ Typ 2+3
- ✓ compact design
- ✓ IP 54 protect
- ✓ Easy connection with Hirschmann plugs in the event of a fault

Ldown opened, stopping the blind from moving down
- ✓ acoustic signaling in the case of an error

Item	Art. no.
GT T3, 230V FM	**500509**

- ✓ highest continuous voltage U_c 230V
- ✓ **Typ 3** / 2-pin
- ✓ IP 20 protect
- ✓ for use in TN-S networks

Item	Art. no.
GT T3, 24V FM	**500510**

- ✓ max. back-up fuse 32A gG
- ✓ highest continuous voltage Uc 24 / 34V
- ✓ **Typ 3** / 2-pin
- ✓ for use in TN-S networks

		Item	Page	U_c	I_{imp} (10/350 µs)	I_{max} (8/20 µs)	I_n (8/20 µs)	Distribution grids	Application	Performance features	Protection*	Conformity
GT40	TYP 1+2	 **GT40**	10	300V	Bis 12,5kA	50kA	20kA	TNS, TT, TNC	• **Before the consumption meter** • First level of protection • 40mm busbar systems	• **LEAKAGE FREE** • hybrid topology • TOV strength • Shock and vibration resistant • Suitable for 5mm and 10mm busbarst	315A gG	IEC 61643-11: 2011 EN 61643-11: 2012+A11:2018
GT T1+2	TYP 1+2	 **GT T1+2, 25kA**	12	300V	25kA	65kA	25kA	TNS, TT, TNC	• **Before the consumption meter** • First level of protection	• **LEAKAGE FREE** • hybrid topology • TOV strength • Schock- u. vibrationsresistent • Easy replacement during maintenance/repair • No additional backup fuse required for protection up to 315A gG	315A gG	IEC 61643-11: 2011 EN 61643-11: 2012+A11:2018 UL 1449 4th Edition
		 **GT T1+2, 12,5kA**	12	300V	12,5kA	65kA	20kA	TNS, TT, TNC	• **Before the consumption meter** • First level of protection	• **LEAKAGE FREE** • hybrid topology • TOV strength • Shock and vibration resistant • Easy replacement during maintenance/repair • No additional backup fuse required for protection up to 315A gG	315A gG	IEC 61643-11: 2011 EN 61643-11: 2012+A11:2018 UL 1449 4th Edition
		 **GT T1+2, 12,5kA, L**	12	300V	12,5kA	50kA	20kA	TNS, TT, TNC	• **After the consumption meter** • First level of protection	• **LEAKAGE CURRENT** • MOV-topology • No additional back-up fuse required Protection up to 315A gG Easy replacement during maintenance/repair • Shock and vibration resistant	315 gG	IEC 61643-11: 2011 EN 61643-11: 2012+A11:2018
GT T2	TYP 2	 **GT T2**	14	300V	_	50kA	20kA	TNS, TT, TNC	• second level of protection	• MOV topology • No additional backup fuse required for protection up to 315A gG • Easy replacement during maintenance/repair • Shock and vibration resistant	315 gG	IEC 61643-11: 2011 EN 61643-11: 2012+A11:2018 UL 1449 4th Edition
PV	TYP 1+2	 **PV T1+2, 1100V**	16	Bis 1500V	6,25kA	40kA	20kA	PV / DC-Seite	• DC photovoltaic applications • First and second protection level	• Short circuit resistanc I_{scpv} of 11kA and 30kA • SCCR 100kA and 50 kA accordning to UL • Easy replacement during maintenance/repair • Shock and vibration resistant	_	EN 50539 11: 2013 +A1: 2014 UL 1449 4th Edition
	TYP 2	 **PV T2, 1100V**	16	Bis 1500V	_	40kA	20kA	PV / DC-Seite	• DC photovoltaic applications • second protection level	• Short circuit resistanc I_{scpv} of 11kA • SCCR 50kA and 65kA according UL • Easy replacement during maintenance/repair • Shock and vibration resistant	_	EN 50539 11: 2013 +A1: 2014 UL 1449 4th Edition
GAK	TYP 1+2	 **GAK T1+T2 1100V**	18	Bis 1500V	6,25kA	40kA	20kA	PV / DC-Seite	• DC photovoltaic applications • First and second protection level	• Short circuit resistance I_{scpv} of 11kA and 30kA • SCCR 100kA and 50 kA according to UL • Easy replacement during maintenance/repair • Shock and vibration resistant	_	EN 50539 11: 2013 +A1: 2014 UL 1449 4th Edition
	TYP 2	 **GAK T2 1100V**	18	Bis 1500V	_	40kA	20kA	PV / DC-Seite	• DC photovoltaic applications • second protection level	• Short circuit resistance I_{scpv} of 11kA • SCCR 50kA and 65kA according to UL • Easy replacement during maintenance/repair • Shock and vibration resistant	_	EN 50539 11: 2013 +A1: 2014 UL 1449 4th Edition
FM	D1, C2, C1, C3	 **FM TEL20**	20	180V DC 127V AC	7,5kA	_	20kA	ADSL, ADSL2, ADSL2+ VDSL, VDSL2	telephone network	• Approved for D1 / C1 / C2 / C3 applications • Up to 250MHz data rate • Protection class IP66 - surface mounting housing	_	IEC 61643-21 EN 61643-21
		 **FM Dat Net Cat6**	20	50V DC Line-Line 72V DC Pair-Pair	1kA	_	150A Line-Line 10kA Lines-Ground	Cat6	ethernet network	• Approved for D1 / C1 / C2 / C3 applications • Up to 250MHz data rate • Metal housing for the best shielding effects • DIN rail mounting	_	IEC 61643-21 EN 61643-21 UL 497B 4th Edition
		 **FM Dat KNX**	20	170V	1kA	10kA	5kA	Bus-System	EIB/KNX Bus	• Approved for D1 / C1 / C2 / C3 applications • Discharge capacity: In 5kA, / Imax 10kA, / limp 1kA • Voltage 24V AC / series rated current: 7A	_	IEC/EN 61643-21
FEINSCHUTZ	TYP 3	 **GT3 mini**	20	275V	–	–	3kA	TNS	Cable ducts and connections	• Acoustic signaling • maximum continuous voltage 275 V AC • U_{oc} 6kV • I_{cw} 3kA (8/20µs)	–	IEC 61643-11: 2011, EN 61643-11: 2012
		 **GT T3 230V FM**	20	230V	–	10kA	5kA	TNS	sub-distribution	• max. back-up fuse 63A gG • highest continuous voltage Uc 320V • telecommunications contact	63A gG	IEC 61643-11: 2011 EN 61643-11: 2012
		 **GT T3 24V FM**	20	24/34V	–	2kA	1,2kA	TNS	sub-distribution	• max. back-up fuse 32A gG • highest continuous voltage Uc 24/34V	32A gG	IEC 61643-11: 2011, EN 61643-11:2012+A11:2018
SONNEN-SCHUTZ	TYP 2+3	 **GT-AS-T2/3-275**	20	230V	15kA	10kA	10kA	TNS, TT	Motorized blinds	• Type 2+3 • • compact design & acoustic signalling • • IP 54 protection • • Hirschmann connector	–	IEC 61643-11:2011 EN 61643-11:2012+ A11:2018

* No additional back-up fuse required for fuse protection up to ...

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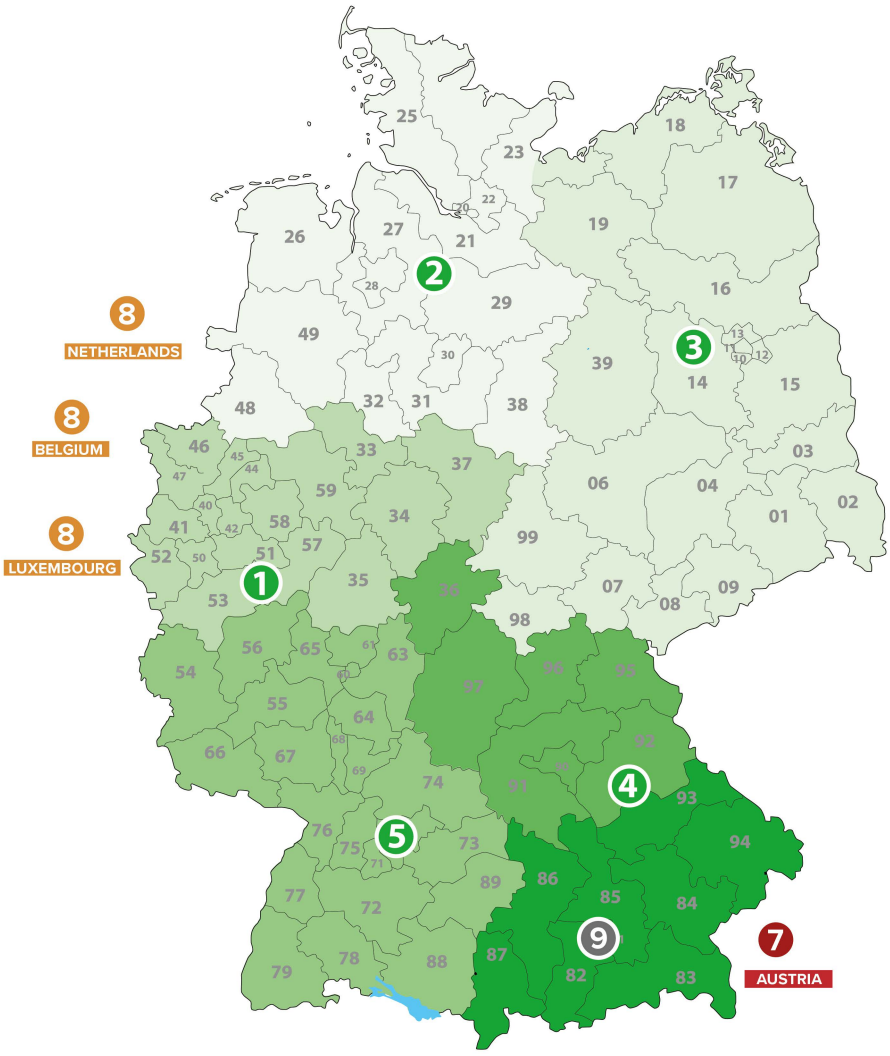

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