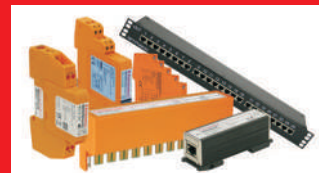




A BRITISH INVESTMENT

NEW

Lightning and Surge Protection 2024, April



MANUFACTURER OF
SURGE PROTECTION
DEVICE

MADE IN CHINA

Over 30⁺ years

TELEHOF & TELEBAHN

Experiences in Lightning and Surge Protection

Timeline from 1992 to 2022:

- 1992**: Since
- 1993**: 1993-2006 sole agent for DEHN+SÖHNE Surge Protection from Germany. We created a yearly sales volume nearly RMB 100 million for DEHN products in 2003-2006.
- 2002**: Telebahn Electrics (Zhuhai) Co., Ltd. in 2002, we registered our new company name and brand name for our surge protection. "Telebahn®". We have a high voltage laboratory, equipped with advanced lightning & surge current generators, which are able to generate 8/20µs, 10/350µs, 10/1000µs and 1.2/50µs waveform according to IEC and Chinese GB/T standard, current capacity up to 120kA.
- 2006**
- 2007**: Since 2007, we began to focus on independent research and development of surge protective device designs. Using advanced European technology to successfully produce and manufacture SPDs that comply with IEC 61643 standards. At the same time, we also obtained multiple patents and quality certificates.
- 2016**: Zhuhai Telehof Electrics Company Limited. in 2016, we merged two companies and created multiple platform sales networks. Our Production Base, Zhuhai City.
- 2022**: By 2022-2023, we have a brand New Surge Protection Sample range, which is divided into three major series for selection and application:
 - Our Range Protector**
 - BlitzTrap®**
 - BlitzShield®**
 - Earthing®**

Our Security and Protection

What is the Surge Protective Device (SPD):

Surge Protection Devices, are very fast switches, able to switch on in the order of nano-second (say 1ns to 100ns). During over voltages, these switches have rather low impedance able to conduct large current, when switched on. In normal voltages SPDs have very high impedance, i.e. switched off.

High-quality SPD Parts:

► Metal Oxide Varistor

The Metal Oxide Varistor is the key component of SPD, voltage range 47V-1800V. Single chip & resin sealed chip for selection.



Why Choose Us:

Choosing high-quality SPD parts is our top priority for our successful product development to ensure the stability of product design and use. At the same time, we also sell SPD components and product supporting parts.

Our Surge Protective Devices are exported to all over the world. We gain our reputation through top quality, long guarantee period, excellent services, and also provide our clients with lightning & surge protection technical support.

Type	Response time (say ≈)	Range of discharge current (say ≈)	Waveform
Semiconductor	1ns	1kA	8/20µs
Varistor	25ns	20kA	8/20µs
Spark gap	100ns	100kA	10/350µs

► 2 & 3 Electro GDT

Power system surge protection, For class I and class II surge protective devices (SPDs).



* This sample catalogue is an excerpt of our New Lightning and Surge Protection 2024, April version. You can request a more complete SPD data sheet from our sales team. Or please visit: <http://www.telebahn.cn>; www.telehof.com.



SURGE PROTECTION DEVICE FOR POWER SUPPLY SYSTEMS

Type 1+2+3 Lightning Current Surge Arrester



BlitzTrap® Modular Products Range Protector

NEW Products and Updates

"Full Protection Mode"

Achieve multiple line full protection mode. (All wires: Phase line to Neutral line, Phase line to Ground, Neutral line to Ground). Apply to sensitive electronic equipment to avoid the impact transient overvoltage.

limp 6.25kA (10/350µs)

BT 5L BM 415 RM
Art.-No. 840 202
UN(L-N) 240V
Itotal 25kA
limp 6.25kA
Uc 280V
Up ≤1.2kV



NEW →

T1 T2 T3

Three-phase Surge Arrester with Remote Signal Contact

limp 6.25kA (10/350µs)

BT 3L BM 240 RM
Art.-No. 840 242
UN(L-N) 240V
Itotal 12.5kA
limp 6.25kA
Uc 280V
Up ≤1.2kV



NEW →

T1 T2 T3

Single-phase Surge Arrester with Remote Signal Contact

Imax 40kA (8/20µs)

BT 5L 415 RM
Art.-No. 840 200
UN(L-N) 240V
In 20kA
Imax 40kA
Uc 280V
Up ≤1.2kV



NEW →

T2 T3

Three-phase Surge Arrester with Remote Signal Contact

Imax 40kA (8/20µs)

BT 3L 240 RM
Art.-No. 840 240
UN(L-N) 240V
In 20kA
Imax 40kA
Uc 280V
Up ≤1.2kV



NEW →

T2 T3

Single-phase Surge Arrester with Remote Signal Contact

AC System

Single-pole Module

limp 50kA (10/350µs)

NEW

L-N(PE)
BT BCM 50 RM
Art.-No. 801 011
2 mods (36mm)
limp 50kA
In 50kA
Uc 255V
Up ≤1.8kV

T1 T2

N-PE
BT BNM 100
Art.-No. 801 021
2 mods (36mm)
limp 100kA
In 100kA
Uc 255V
Up ≤1.5kV

T1

limp 30kA (10/350µs)

NEW

L-N(PE)
BT BCM30 275 RM
Art.-No. 807 302
2 mods (36mm)
limp 30kA
In 60kA
Uc 275V
Up ≤1.8kV

T1 T2

N-PE
BT BNM100 255
Art.-No. 806 100
2 mods (36mm)
limp 100kA
In 100kA
Uc 255V
Up ≤1.5kV

T1

limp 25kA (10/350µs)

L-N(PE)
BT P BCM 25 RM
Art.-No. 800 901
2 mods (36mm)
limp 25kA
In 50kA
Uc 255V
Up ≤1.5kV

T1 T2

N-PE
BT P BNM 75 RM
Art.-No. 800 902
2 mods (36mm)
limp 50kA
In 50kA
Uc 255V
Up ≤1.5kV

T1

limp 15kA (10/350µs)

L-N(PE)
BT P BCM 275 RM/S
Art.-No. 801 107
1 mod (18mm)
limp 15kA
In 40kA
Uc 275V
Up ≤1.5kV

T1 T2

N-PE
BT P BCM 255 RM/S
Art.-No. 801 120
1 mod (18mm)
limp 37.5kA
In 50kA
Uc 255V
Up ≤1.5kV

T1

limp 12.5kA (10/350µs)

L-N(PE)
BT P BCM12.5 275 RM
Art.-No. 801 406
1 mod (18mm)
limp 12.5kA
In 30kA
Uc 320V
Up ≤1.8kV

T1 T2

N-PE
BT P BCM25 255 RM
Art.-No. 801 400
1 mod (18mm)
limp 37.5kA
In 50kA
Uc 255V
Up ≤1.5kV

T1

limp 8kA (10/350µs)

L-N(PE)
BT P BCM 275 RM
Art.-No. 801 100
1 mod (18mm)
limp 8kA
In 25kA
Uc 275V
Up ≤1.5kV

T1 T2

N-PE
BT P BCM 255 RM
Art.-No. 801 101
1 mod (18mm)
limp 20kA
In 40kA
Uc 255V
Up ≤1.5kV

T1

Main Distribution

Combined Lightning Current Surge Protective Devices

TN System

BT BCM 50 RM/2P
Art.-No. 801 012
Single-phase SPD
4 mods (72mm)
Itotal 100kA
Uc 255V
Up ≤1.8kV

TN-C System

BT BCM 50 RM/3P
Art.-No. 801 013
Three-phase SPD
6 mods (108mm)
Itotal 150kA
Uc 255V
Up ≤1.8kV

TN-S System

BT BCM 50 RM/4P
Art.-No. 801 014
Three-phase SPD
8 mods (144mm)
Itotal 200kA
Uc 255V
Up ≤1.8kV

TT1+1 System

BT BCM 50 RM/1+N
Art.-No. 801 015
Single-phase SPD
4 mods (72mm)
Itotal 100kA
Uc 255V/255V
Up ≤1.8kV/≤1.5kV

TT3+1 System

BT BCM 50 RM/3+N
Art.-No. 801 016
Three-phase SPD
8 mods (144mm)
Itotal 200kA
Uc 255V/255V
Up ≤1.8kV/≤1.5kV

BT BCM30 275 RM/2P
Art.-No. 807 322
Single-phase SPD
4 mods (72mm)
Itotal 60kA
Uc 275V
Up ≤1.8kV

BT BCM30 275 RM/3P
Art.-No. 807 352
Three-phase SPD
6 mods (108mm)
Itotal 90kA
Uc 275V
Up ≤1.8kV

BT BCM30 275 RM/4P
Art.-No. 807 342
Three-phase SPD
8 mods (144mm)
Itotal 120kA
Uc 275V
Up ≤1.8kV

BT BCM30 275 RM/1+N
Art.-No. 807 312
Single-phase SPD
4 mods (72mm)
Itotal 60kA
Uc 275V/255V
Up ≤1.8kV/≤1.5kV

BT BCM30 275 RM/3+N
Art.-No. 807 332
Three-phase SPD
8 mods (144mm)
Itotal 120kA
Uc 275V/255V
Up ≤1.8kV/≤1.5kV

BT P BCM 25 RM/2P
Art.-No. 800 916
Single-phase SPD
4 mods (72mm)
Itotal 50kA
Uc 255V
Up ≤1.5kV

BT P BCM 25 RM/3P
Art.-No. 800 913
Three-phase SPD
6 mods (108mm)
Itotal 75kA
Uc 255V
Up ≤1.5kV

BT P BCM 25 RM/4P
Art.-No. 800 914
Three-phase SPD
8 mods (144mm)
Itotal 100kA
Uc 255V
Up ≤1.5kV

BT P BCM 25 RM/1+N
Art.-No. 800 917
Single-phase SPD
4 mods (72mm)
Itotal 50kA
Uc 255V/255V
Up ≤1.5kV/≤1.5kV

BT P BCM 25 RM/3+N
Art.-No. 800 915
Three-phase SPD
8 mods (144mm)
Itotal 100kA
Uc 255V/255V
Up ≤1.5kV/≤1.5kV

BT P BCM 2P 275 RM/S
Art.-No. 801 109
Single-phase SPD
2 mods (36mm)
Itotal 30kA
Uc 255V
Up ≤1.5kV

BT P BCM 3P 275 RM/S
Art.-No. 801 110
Three-phase SPD
3 mods (54mm)
Itotal 45kA
Uc 255V
Up ≤1.5kV

BT P BCM 4P 275 RM/S
Art.-No. 801 116
Three-phase SPD
4 mods (72mm)
Itotal 60kA
Uc 255V
Up ≤1.5kV

BT P BCM TT1+1 275 RM/S
Art.-No. 801 108
Single-phase SPD
2 mods (36mm)
Itotal 30kA
Uc 275V/255V
Up ≤1.5kV/≤1.5kV

BT P BCM TT 275 RM/S
Art.-No. 801 117
Three-phase SPD
4 mods (72mm)
Itotal 60kA
Uc 275V/255V
Up ≤1.5kV/≤1.5kV

This series of TN/TNC/TNS/TT system products are TÜV certified.

BT P BCM12.5 275 RM/2P
Art.-No. 801 412
Single-phase SPD
2 mods (36mm)
Itotal 30kA
Uc 320V
Up ≤1.8kV

BT P BCM12.5 275 RM/3P
Art.-No. 801 417
Three-phase SPD
3 mods (54mm)
Itotal 37.5kA
Uc 320V
Up ≤1.8kV

BT P BCM12.5 275 RM/4P
Art.-No. 801 422
Three-phase SPD
4 mods (72mm)
Itotal 50kA
Uc 320V
Up ≤1.8kV

BT P BCM12.5 275 RM/1+N
Art.-No. 801 427
Single-phase SPD
2 mods (36mm)
Itotal 30kA
Uc 320V/255V
Up ≤1.8kV/≤1.5kV

BT P BCM12.5 275 RM/3+N
Art.-No. 801 432
Three-phase SPD
4 mods (72mm)
Itotal 50kA
Uc 320V/255V
Up ≤1.8kV/≤1.5kV

BT P BCM 275 RM/2P
Art.-No. 801 102
Single-phase SPD
2 mods (36mm)
Itotal 16kA
Uc 275V
Up ≤1.5kV

BT P BCM 275 RM/3P
Art.-No. 801 103
Three-phase SPD
3 mods (54mm)
Itotal 32kA
Uc 275V
Up ≤1.5kV

BT P BCM 275 RM/4P
Art.-No. 801 104
Three-phase SPD
4 mods (72mm)
Itotal 42kA
Uc 275V
Up ≤1.5kV

BT P BCM 275 RM/1+N
Art.-No. 801 106
Single-phase SPD
2 mods (36mm)
Itotal 16kA
Uc 275V/255V
Up ≤1.5kV/≤1.5kV

BT P BCM 275 RM/3+N
Art.-No. 801 105
Three-phase SPD
4 mods (72mm)
Itotal 32kA
Uc 275V/255V
Up ≤1.5kV/≤1.5kV



SURGE PROTECTION DEVICE FOR POWER SUPPLY SYSTEMS

Type 1-2 / Type 2 High Discharge Capacity Surge Arrester



BlitzTrap® Modular Products Range Protector

AC System

Single-pole Module

Imax 200kA (8/20µs)

NEW

L-N(PE)
BT BM200 275 RM
Art.-No. 806 103
2 mods (36mm)
In 100kA
Imax 200kA
Uc 275V
Up ≤ 2.5kV

N-PE
BT BNM 255
Art.-No. 806 000
2 mods (36mm)
In 100kA
Imax 200kA
Uc 255V
Up ≤ 2.5kV

Sub Distribution

Combined Surge Protective Devices

TN System

BT BM200 275 RM/2P
Art.-No. 806 113
Single-phase SPD
4 mods (72mm)
Imax 200kA
Uc 275V
Up ≤ 2.5kV

TN-C System

BT BM 200 275 RM/3P
Art.-No. 806 123
Three-phase SPD
6 mods (108mm)
Imax 200kA
Uc 275V
Up ≤ 2.5kV

TN-S System

BT BM200 275 RM/4P
Art.-No. 806 133
Three-phase SPD
8 mods (144mm)
Imax 200kA
Uc 275V
Up ≤ 2.5kV

TTI+1 System

BT BM200 275 RM/1+N
Art.-No. 806 143
Single-phase SPD
4 mods (72mm)
Imax 200kA/200kA
Uc 275V/255V
Up ≤ 2.5kV/≤ 2.5kV

TT3+1 System

BT BM200 275 RM/3+N
Art.-No. 806 163
Three-phase SPD
8 mods (144mm)
Imax 200kA/200kA
Uc 275V/255V
Up ≤ 2.5kV/≤ 2.5kV

Combined SPD

Mounting Enclosure

Class I/II/III Surge Arrester

BT 5L ... (BT 5L-WF ...)
Surge Protection Box or IP65/waterproof Surge Protection Box (WF) is for combined SPD class I/II/III design configurations, applied in three-phase TN-S (4+0 circuit)/TT (3+1 circuit) system.

BT 4L ... (BT 4L-WF ...)
Surge Protection Box or IP65/waterproof Surge Protection Box (WF) is for combined SPD class I/II/III design configurations, applied in three-phase TN-C (3+0 circuit) system.

BT 3L ... (BT 3L-WF ...)
Surge Protection Box or IP65/waterproof Surge Protection Box (WF) is for combined SPD class I/II/III design configurations, applied in single-phase TN (2+0 circuit)/TT (1+1 circuit) system.



IE KB ... series enclosure

Metal mounting box for indoor used, SPD Max. capacity of 3-13 modules and CCT breaker (MCB) design configurations. Optional installation for impulse Counter function.



IE SP ... series enclosure

Standard indoor mounting box.



IE 1A ... series enclosure

IE 2A ... series enclosure

Metal die-casting aluminum IP65/waterproof mounting box.



IE CB ... series enclosure

IE DB ... series enclosure

Plastic housing/transparent cover IP65/waterproof mounting box.

Imax 120kA (8/350µs)

L-N(PE)
BT PBM120 275 RM
Art.-No. 800 806
2 mods (36mm)
In 80kA
Imax 120kA
Uc 275V
Up ≤ 1.8kV

N-PE
BT PBNM 255 RM
Art.-No. 800 900
2 mod (36mm)
In 80kA
Imax 160kA
Uc 255V
Up ≤ 2.5kV

BT PBM120 275 RM/2P
Art.-No. 800 833
Single-phase SPD
4 mods (72mm)
Imax 120kA
Uc 275V
Up ≤ 1.8kV

BT PBM120 275 RM/3P
Art.-No. 800 821
Three-phase SPD
6 mods (108mm)
Imax 120kA
Uc 275V
Up ≤ 1.8kV

BT PBM120 275 RM/4P
Art.-No. 800 825
Three-phase SPD
8 mods (144mm)
Imax 120kA
Uc 275V
Up ≤ 1.8kV

BT PBM120 275 RM/1+N
Art.-No. 800 837
Single-phase SPD
4 mods (72mm)
Imax 120kA/160kA
Uc 275V/255V
Up ≤ 1.8kV/≤ 1.5kV

BT PBM120 275 RM/3+N
Art.-No. 800 829
Three-phase SPD
8 mods (144mm)
Imax 120kA/160kA
Uc 275V/255V
Up ≤ 1.8kV/≤ 1.5kV

Imax 80kA (8/20µs)

NEW

L-N(PE)
BT PCM80 275 RM
Art.-No. 800 783
1 mod (18mm)
In 40kA
Iimp 80kA
Uc 275V
Up ≤ 1.7kV

N-PE
BT PCM 255 RM S
Art.-No. 810 101
1 mod (18mm)
In 50kA
Imax 100kA
Uc 255V
Up ≤ 1.5kV

BT PCM80 275 RM/2P
Art.-No. 810 771
Single-phase SPD
2 mods (36mm)
Imax 80kA
Uc 275V
Up ≤ 1.7kV

BT PCM80 275 RM/3P
Art.-No. 810 776
Three-phase SPD
3 mods (54mm)
Imax 80kA
Uc 275V
Up ≤ 1.7kV

BT PCM80 275 RM/4P
Art.-No. 810 761
Three-phase SPD
4 mods (72mm)
Imax 80kA
Uc 275V
Up ≤ 1.7kV

BT PCM80 275 RM/1+N
Art.-No. 810 781
Single-phase SPD
2 mods (36mm)
Imax 80kA/100kA
Uc 275V/255V
Up ≤ 1.7kV/≤ 1.5kV

BT PCM80 275 RM/3+N
Art.-No. 810 780
Three-phase SPD
4 mods (72mm)
Imax 80kA/100kA
Uc 275V/255V
Up ≤ 1.7kV/≤ 1.5kV

Imax 60kA (8/20µs)

L-N(PE)
BT PCM60 275 RM
Art.-No. 810 809
1 mod (18mm)
In 30kA
Imax 60kA
Uc 275V
Up ≤ 1.5kV

N-PE
BT PCM 255 RM
Art.-No. 810 800
1 mod (18mm)
In 40kA
Imax 65kA
Uc 255V
Up ≤ 1.5kV

BT PCM60 275 RM/2P
Art.-No. 810 849
Single-phase SPD
2 mods (36mm)
Imax 60kA
Uc 275V
Up ≤ 1.5kV

BT PCM60 275 RM/3P
Art.-No. 810 841
Three-phase SPD
3 mods (54mm)
Imax 60kA
Uc 275V
Up ≤ 1.5kV

BT PCM60 275 RM/4P
Art.-No. 810 837
Three-phase SPD
4 mods (72mm)
Imax 60kA
Uc 275V
Up ≤ 1.5kV

BT PCM60 275 RM/1+N
Art.-No. 810 825
Single-phase SPD
2 mods (36mm)
Imax 60kA/65kA
Uc 275V/255V
Up ≤ 1.5kV/≤ 1.5kV

BT PCM60 275 RM/3+N
Art.-No. 810 817
Three-phase SPD
4 mods (72mm)
Imax 60kA/65kA
Uc 275V/255V
Up ≤ 1.5kV/≤ 1.5kV

Imax 40kA (8/20µs)

L-N(PE)
BT PCM 275 RM
Art.-No. 810 803
1 mod (18mm)
In 20kA
Imax 40kA
Uc 275V
Up ≤ 1.3kV

N-PE
BT PCM 255 RM
Art.-No. 810 800
1 mod (18mm)
In 40kA
Imax 65kA
Uc 255V
Up ≤ 1.8kV

*** Also available 75V/150V/320V/385V/460V/600V.**

This series of TN/TNC/TNS/TT system products are KEMA-KEUR certified.

BT PCM TN 275 RM
Art.-No. 810 845
Single-phase SPD
2 mods (36mm)
Imax 40kA
Uc 275V
Up ≤ 1.3kV

BT PCM TNC 275 RM
Art.-No. 810 829
Three-phase SPD
3 mods (54mm)
Imax 40kA
Uc 275V
Up ≤ 1.3kV

BT PCM TNS 275 RM
Art.-No. 810 834
Three-phase SPD
4 mods (72mm)
Imax 40kA
Uc 275V
Up ≤ 1.3kV

BT PCM TTI+1 275 RM
Art.-No. 810 821
Single-phase SPD
2 mods (36mm)
Imax 40kA/65kA
Uc 275V/255V
Up ≤ 1.3kV/≤ 1.8kV

BT PCM TT3+1 275 RM
Art.-No. 810 813
Three-phase SPD
4 mods (72mm)
Imax 40kA/65kA
Uc 275V/255V
Up ≤ 1.3kV/≤ 1.8kV

Imax 20kA (8/20µs)

L-N(PE)
BT PCM20 275 RM
Art.-No. 810 853
1 mod (18mm)
In 10kA
Imax 20kA
Uc 275V
Up ≤ 1.2kV

N-PE
BT PCM20 255 RM
Art.-No. 810 880
1 mod (18mm)
In 20kA
Imax 40kA
Uc 255V
Up ≤ 1.5kV

BT PCM20 275 RM/2P
Art.-No. 810 873
Single-phase SPD
2 mods (36mm)
Imax 20kA
Uc 275V
Up ≤ 1.2kV

BT PCM20 275 RM/3P
Art.-No. 810 865
Three-phase SPD
3 mods (54mm)
Imax 20kA
Uc 275V
Up ≤ 1.2kV

BT PCM20 275 RM/4P
Art.-No. 810 861
Three-phase SPD
4 mods (72mm)
Imax 20kA
Uc 275V
Up ≤ 1.2kV

BT PCM20 275 RM/1+N
Art.-No. 810 869
Single-phase SPD
2 mods (36mm)
Imax 20kA/40kA
Uc 275V/255V
Up ≤ 1.2kV/≤ 1.5kV

BT PCM20 275 RM/3+N
Art.-No. 810 857
Three-phase SPD
4 mods (72mm)
Imax 20kA/40kA
Uc 275V/255V
Up ≤ 1.8kV/≤ 1.5kV



SURGE PROTECTION DEVICE FOR POWER SUPPLY SYSTEMS

Type 2-3/Type 3 Electronic Equipment Surge Arrester

Terminal Protection

Fine Protection for Electronic Devices System

Imax 20kA (8/20μs) or 40kA (8/20μs)

Pluggable modules, Slim 18mm form factor/36mm (2 modules) with Remote Signal Contact



NEW
T2 T3

BT PCM20 275 RM/2P-1
Art.-No. 870 124
Single-phase SPD
1 mod (18mm)
Imax 20kA
Uc 275V
Up ≤ 1.0kV



NEW
T2 T3

BT PCM20 275 RM/4P-1
Art.-No. 870 144
Three-phase SPD
2 mods (36mm)
Imax 20kA
Uc 275V
Up ≤ 1.0kV

Imax 10kA (8/20μs)

Single-phase 1.5 modules/three-phase 3 modules with Remote Signal Contact



T3

BT TTI-1 275 RM
Art.-No. 812 230
Single-phase SPD
1.5 mods (27mm)
Itotal 10kA
Imax 5/10kA
Uc 275V/255V
Up ≤ 0.95kV/≤ 1.5kV



T3

BT TT 275 3N RM
Art.-No. 812 330
Three-phase SPD
3 mods (54mm)
Itotal 20kA
Imax 5/10kA
Uc 275V/255V
Up ≤ 0.95kV/≤ 1.5kV

PCB

Protection Modules

limp 12.5kA (10/350μs)
with Remote Signal Contact

NEW
BT PCB
BCM12.5 275 RM
Art.-No. 814 012
1 mod (18mm)
limp 12.5kA
In 30kA
Uc 320V
Up ≤ 1.8kV



T1 T2

limp 8kA (10/350μs)
with Remote Signal Contact

NEW
BT PCB
BCM6.25 275 RM
Art.-No. 814 002
1 mod (18mm)
limp 8kA
In 25kA
Uc 275V
Up ≤ 1.5kV



T1 T2

Imax 80kA (8/20μs)
with Remote Signal Contact

NEW
BT PCB
CM80 275 RM
Art.-No. 814 052
1 mod (18mm)
In 40kA
Imax 80kA
Uc 275V
Up ≤ 1.8kV



T2

Imax 40kA (8/20μs)
with Remote Signal Contact

NEW
BT PCB
CM40 275 RM
Art.-No. 814 032
1 mod (18mm)
In 20kA
Imax 40kA
Uc 275V
Up ≤ 1.5kV



T2

Imax 20kA (8/20μs)
with Remote Signal Contact

NEW
BT PCB
CM20 275 RM
Art.-No. 814 022
1 mod (18mm)
In 10kA
Imax 20kA
Uc 275V
Up ≤ 1.2kV



T2

Plug-in & Protect

Simple plug in and go SPD, no complicated installation, with two LED indicators for Surge Protection and Grounding connection status.



Imax 20kA (8/20μs)
NEW
BT PST10 120(230) L
Art.-No. 840 711
Imax 20kA
Uc 150V(275V)
Up ≤ 1.2kV(1.5kV)

Imax 40kA (8/20μs)
NEW
BT PST20 120(230) H
Art.-No. 840 713
Imax 40kA
Uc 150V(275V)
Up ≤ 1.5kV(1.7kV)

Surge Protective for Multiple Socket outlet
(Provided standard plug/socket for different configuration)

Simple plug in and go SPD, no complicated installation, with two LED indicators for Surge Protection and Grounding connection status.

Optional with filter function (...SF), and 19" mounting bracket

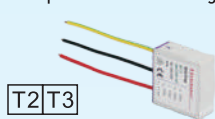


Imax 20kA (8/20μs)
NEW
BT PST10 6SF
Art.-No. 830 610
Imax 20kA
Uc 275V
Up ≤ 1.2kV

Imax 20kA (8/20μs)
NEW
BT PST10 7S
Art.-No. 830 611
Imax 20kA
Uc 275V
Up ≤ 1.2kV

Imax 20kA (8/20μs)

Fine protection of LED light devices, for all installation systems.



T2 T3



T2 T3

3-lines for Parallel Wiring

BT D 275 LED LP
Art.-No. 820 621
Single-phase SPD
Imax 20kA
Uc 275V
Up ≤ 1.2kV

BT D 320 LED LP
Art.-No. 820 631
Single-phase SPD
Imax 20kA
Uc 325V
Up ≤ 1.5kV

Imax 20kA (8/20μs)

Simple plug in and go SPD, no complicated installation with two LED indicators for Surge Protection and Grounding connection status.



NEW

BT PST-UK10 2SF
Art.-No. 830 601
Imax 20kA
Uc 275V
Up ≤ 1.2kV

Surge Protected Power Sockets
Optional with filter function (...SF) and 45° angle mounting bracket



BT PST-UK10 2S
Art.-No. 830 602
Imax 20kA
Uc 275V
Up ≤ 1.2kV

Imax 5kA (8/20μs)

Single-phase 1.5 modules/three-phase 3 modules with Remote Signal Contact



T3

BT D 230 RM
Art.-No. 820 300
Single-phase SPD
1.5 mods (27mm)
In 3/5kA
Uoc 6/10kV
Uc 320V
Up ≤ 1.15kV/≤ 1.5kV



T3

BT D 230 3N RM
Art.-No. 820 330
Three-phase SPD
3 mods (54mm)
In 3/5kA
Uoc 6/10kV
Uc 320V/440V
Up ≤ 1.15kV/≤ 1.5kV

Imax 5kA (8/20μs)

Single-phase 1 module (with fault light indicates) "Y-circuit design"

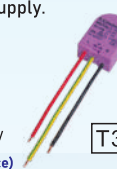
BT S 230 RM
Art.-No. 820 400
Single-phase SPD
1 mods (18mm)
In 3/5kA
Uoc 6/10kV
Uc 320V
Up ≤ 1.15kV/≤ 1.5kV



T3

Class D (E) single-phase Surge Arrester fine protection for electronic devices with ac/dc power supply.

BT E 230
Art.-No. 830 230
Single-phase SPD
In 3/5kA
Uoc 6/10kV
Uc 320V
Up ≤ 1.15kV/≤ 1.5kV



T3

(Series Capacitance)
BT E 230-C Art.-No. 830 231

Imax 5kA (8/20μs)

Surge Protective for Multiple Socket outlet
(Provided standard plug/socket for different configuration)
Can be installed in 19" distribution cabinet



T3

BT PDU 05
Art.-No. 830 246
Single-phase SPD
In 3/5kA
Uoc 6/10kV
Uc 320V
Up ≤ 1.15kV/≤ 1.5kV



T3

BT PDU 06
Art.-No. 830 240
Single-phase SPD
In 3/5kA
Uoc 6/10kV
Uc 320V
Up ≤ 1.15kV/≤ 1.5kV

Compact design:
A variety of standard power plug can be provided for different configuration.



Imax 5kA (8/20μs)

8-Sockets PDU system

NEW



BT PDU 08
Art.-No. 830 248
Single-phase SPD
length: 489mm

12-Sockets PDU system

NEW



BT PDU 12
Art.-No. 830 249
Single-phase SPD
length: 652mm

Compact design:
A variety of standard power plug can be provided for different configuration.



IE JC-4 ... series enclosure
Plastic housing/transparent cover
IP65/waterproof mounting box for installation plug-in SPD protection module. Max. capacity of 4 modules for TN, TN-C, TN-S and TT 1+1 or TT 3+1 various design configurations.



Surge Protection Device For Power Supply Systems

Type 1-2 / Type 2-3 DC Applications Surge Arresters

DC Terminal Protection

DC Power Supply System Surge Protective Devices



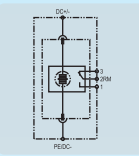
BlitzTrap® Modular Products Range Protector

limp 25kA (10/350µs)



NEW

Single-pole GDT 25kA
Lightning Current Class I+II DC Surge Arrester



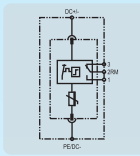
BT P BDCM25 48 RM Art.-No. 802 048 Single-pole SPD 2 mods (36mm) limp 25kA In 25kA Uc 60VDC Up ≤1.5kV	BT P BDCM25 200 RM Art.-No. 802 049 Single-pole SPD 2 mods (36mm) limp 25kA In 25kA Uc 220VDC Up ≤1.5kV	BT P BDCM25 220 RM Art.-No. 802 050 Single-pole SPD 2 mods (36mm) limp 25kA In 25kA Uc 242VDC Up ≤1.5kV
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Imax 40kA (8/20µs)



NEW

Single-pole MOV Voltage Max. up to DC 900V
DC Circuit System Class II DC Surge Arrester



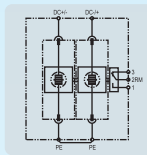
BT P DCH 48 RM Art.-No. 811 025 Single-pole SPD 2 mods (36mm) In 20kA Imax 40kA Uc 60VDC Up ≤0.5kV	BT P DCH 220 RM Art.-No. 811 026 Single-pole SPD 2 mods (36mm) In 20kA Imax 40kA Uc 242VDC Up ≤1.5kV	BT P DCH 500 RM Art.-No. 811 027 Single-pole SPD 2 mods (36mm) In 20kA Imax 40kA Uc 550VDC Up ≤2.5kV	BT P DCH 750 RM Art.-No. 811 028 Single-pole SPD 2 mods (36mm) In 20kA Imax 40kA Uc 900VDC Up ≤3.5kV
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limp 25kA (10/350µs) / 2P Configuration



NEW

Combined 2+0 circuit (DC+ → PE/DC- → PE)
Lightning Current Class I+II DC Surge Arrester



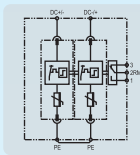
BT P BDCM25 48 RM/2P Art.-No. 802 044 Two-pole SPD 4 mods (72mm) limp 25kA In 25kA Uc 60VDC Up ≤1.5kV	BT P BDCM 200 RM/2P Art.-No. 802 045 Two-pole SPD 4 mods (72mm) limp 25kA In 25kA Uc 220VDC Up ≤1.5kV	BT P BDCM 220 RM/2P Art.-No. 802 046 Two-pole SPD 4 mods (72mm) limp 25kA In 25kA Uc 242VDC Up ≤1.5kV
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Imax 40kA (8/20µs) / 2P Configuration



NEW

Combined 2+0 circuit (DC+ → PE/DC- → PE)
DC Circuit System Class II DC Surge Arrester



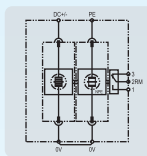
BT P DCH 48 RM/2P Art.-No. 811 020 Two-pole SPD 4 mods (72mm) In 20kA Imax 40kA Uc 60VDC Up ≤0.5kV	BT P DCH 220 RM/2P Art.-No. 811 021 Two-pole SPD 4 mods (72mm) In 20kA Imax 40kA Uc 242VDC Up ≤1.5kV	BT P DCH 500 RM/2P Art.-No. 811 022 Two-pole SPD 4 mods (72mm) In 20kA Imax 40kA Uc 550VDC Up ≤2.5kV	BT P DCH 750 RM/2P Art.-No. 811 023 Two-pole SPD 4 mods (72mm) In 20kA Imax 40kA Uc 900VDC Up ≤3.5kV
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limp 25kA (10/350µs) / 1+1 Configuration



NEW

Combined 1+1 circuit GDT 25kA
(DC+/- → 0V Module)+(0V → PE Module)
Lightning Current Class I+II DC Surge Arrester



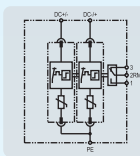
BT P BDC25 48 RM/1+1 Art.-No. 802 060 Two-pole SPD limp 25kA/25kA In 25kA/50kA Uc 60VDC Up ≤1.5kV/≤1.5kV	GDT Technology Protection Module: BT P BDC25 48 RM + BT P BDC25 48 PE RM Art.-No. 802 048 + 802 059 Combined lightning current arrester for dc power supply applications from 12 - 60 Volts (1+1 circuit).
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Imax 40kA (8/20µs) / 2P Configuration



NEW

Combined 2+0 circuit (DC+ → PE/DC- → PE)
Devices Terminal Class II DC Surge Arrester



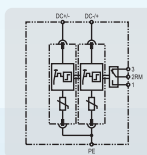
BT P DCM 24 RM/2P Art.-No. 811 014 Two-pole SPD In 10kA Imax 20kA Uc 56VDC Up ≤0.3kV	BT P DCM 48 RM/2P Art.-No. 811 015 Two-pole SPD In 15kA Imax 30kA Uc 85VDC Up ≤0.4kV	BT P DCM 110 RM/2P Art.-No. 811 016 Two-pole SPD In 20kA Imax 40kA Uc 180VDC Up ≤1.0kV	BT P DCM 220 RM/2P Art.-No. 811 017 Two-pole SPD In 20kA Imax 40kA Uc 320VDC Up ≤1.5kV
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limp 6.25kA (10/350µs) / 2P Configuration



NEW

Combined 2+0 circuit (DC+ → PE / DC- → PE)
Lightning Current Class I+II DC Surge Arrester



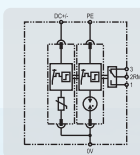
BT P BDCM 24 RM/2P Art.-No. 804 024 Two-pole SPD limp 6.25kA In 20kA Uc 56VDC Up ≤0.3kV	BT P BDCM 48 RM/2P Art.-No. 804 025 Two-pole SPD limp 6.25kA In 20kA Uc 85VDC Up ≤0.4kV	BT P BDCM 110 RM/2P Art.-No. 804 026 Two-pole SPD limp 6.25kA In 20kA Uc 180VDC Up ≤1.0kV	BT P BDCM 220 RM/2P Art.-No. 804 028 Two-pole SPD limp 6.25kA In 20kA Uc 320VDC Up ≤1.5kV
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Imax 40kA (8/20µs) / 1+1 Configuration



NEW

Combined 1+1 circuit MOV-GDT
(DC+/- → 0V Module)+(0V → PE Module)
Devices Terminal Class II DC Surge Arrester



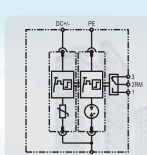
BT P DCM 24 RM Art.-No. 811 004 Two-pole SPD In 10kA/20kA Imax 20kA/40kA Uc 56VDC Up ≤0.3kV/≤0.4kV	BT P DCM 48 RM Art.-No. 811 005 Two-pole SPD In 15kA/25kA Imax 30kA/50kA Uc 85VDC Up ≤0.4kV/≤0.4kV	BT P DCM 110 RM Art.-No. 811 006 Two-pole SPD In 20kA/20kA Imax 40kA/40kA Uc 180VDC Up ≤1.0kV/≤1.0kV	BT P DCM 220 RM Art.-No. 811 007 Two-pole SPD In 20kA/20kA Imax 40kA/40kA Uc 320VDC Up ≤1.5kV/≤1.5kV
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limp 6.25kA (10/350µs) / 1+1 Configuration



NEW

Combined 1+1 circuit MOV-GDT
(DC+/- → 0V Module)+(0V → PE Module)
Lightning Current Class I+II DC Surge Arrester



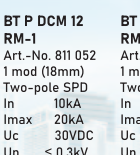
BT P BDCM 24 RM Art.-No. 804 004 Two-pole SPD limp 6.25kA/20kA In 20kA/40kA Uc 56VDC Up ≤0.3kV/≤0.4kV	BT P BDCM 48 RM Art.-No. 804 005 Two-pole SPD limp 6.25kA/20kA In 20kA/40kA Uc 85VDC Up ≤0.4kV/≤0.4kV	BT P BDCM 110 RM Art.-No. 804 006 Two-pole SPD limp 6.25kA/20kA In 20kA/40kA Uc 180VDC Up ≤1.0kV/≤1.0kV	BT P BDCM 220 RM Art.-No. 804 008 Two-pole SPD limp 6.25kA/20kA In 20kA/40kA Uc 320VDC Up ≤1.5kV/≤1.5kV
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Imax 40kA (8/20µs) / 2P-1 or 1+1 Configuration (1 module)



NEW

Combined 2+0 circuit (DC+ → PE / DC- → PE)
Devices Terminal Class II DC Surge Arrester



BT P DCM 12 RM-1 Art.-No. 811 052 1 mod (18mm) Two-pole SPD In 10kA Imax 20kA Uc 30VDC Up ≤0.3kV	BT P DCM 24 RM-1 Art.-No. 811 054 1 mod (18mm) Two-pole SPD In 10kA Imax 20kA Uc 35VDC Up ≤0.3kV	BT P DCM 48 RM-1 Art.-No. 811 055 1 mod (18mm) Two-pole SPD In 15kA Imax 30kA Uc 60VDC Up ≤0.4kV	BT P DCM 60 RM-1 Art.-No. 811 053 1 mod (18mm) Two-pole SPD In 15kA Imax 30kA Uc 75VDC Up ≤0.4kV	BT P DCM 110 RM-1 Art.-No. 811 057 1 mod (18mm) Two-pole SPD In 20kA Imax 40kA Uc 130VDC Up ≤1.0kV	BT P DCM 220 RM-1 Art.-No. 811 056 1 mod (18mm) Two-pole SPD In 20kA Imax 40kA Uc 275VDC Up ≤1.5kV
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Surge Protection Device For Power Supply Systems

Type 1 / Type 2 High Voltage Discharge Capacity Surge Arresters



BlitzTrap® Modular Products Range Protector

Photovoltaic System

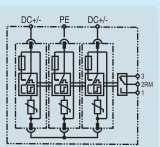
DC System Surge Protective Devices

limp 8kA (10/350µs)



T1
T2

NEW
PV Class I+II Surge Arrester "Y-circuit"
Max. PV voltage up to 600V/1000V
with three-step d.c. switching devices



BT B PVM 600 RM
(Y-circuit 3P Combined)
Art.-No. 800 556
3 mods (54mm)
Uc-PV 600VDC
limp 8kA
In 20kA
Uc-MOV 300V
Up ≤ 2.5kV

BT B PVM 1000 RM
(Y-circuit 3P Combined)
Art.-No. 800 557
3 mods (54mm)
Uc-PV 1000VDC
limp 6.25kA
In 20kA
Uc-MOV 500V
Up ≤ 4.0kV

Wind Turbine System

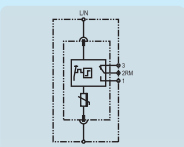
AC System Surge Protective Devices

Imax 40kA (8/20µs)



T2

AC 600V Wind Turbine System Single-pole Module Class II AC Surge Arrester
With a rated varistor up to AC 750V



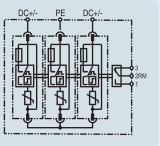
BT WSM 750 RM
Art.-No. 800 517
Single-phase SPD
3 mods (54mm)
Un 600V
In 15kA
Imax 40kA
Uc-MOV 750V
Up ≤ 3.0kV

Imax 40kA (8/20µs)



T2

PV Class II Surge Arrester "Y-circuit"
Max. PV voltage up to 150V/600V/1000V/1200V/1500V
with three-step d.c. switching devices



BT Y PVM 150 RM
Art.-No. 800 505
3 mods (54mm)
Uc-PV 150VDC
In 20kA
Imax 40kA
Uc-MOV 75V
Up ≤ 0.8kV

BT Y PVM 600 RM
Art.-No. 800 506
3 mods (54mm)
Uc-PV 600VDC
In 20kA
Imax 40kA
Uc-MOV 300V
Up ≤ 2.5kV

BT Y PVM 1000 RM
Art.-No. 800 507
3 mods (54mm)
Uc-PV 1000VDC
In 20kA
Imax 40kA
Uc-MOV 500V
Up ≤ 4.0kV

BT Y PVM 1200 RM
Art.-No. 800 509
3 mods (54mm)
Uc-PV 1200VDC
In 20kA
Imax 40kA
Uc-MOV 600V
Up ≤ 4.5kV

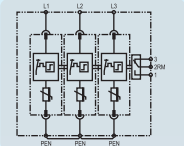
BT Y PVM 1500 RM
Art.-No. 800 508
3 mods (54mm)
Uc-PV 1500VDC
In 20kA
Imax 40kA
Uc-MOV 750V
Up ≤ 6.0kV

Imax 40kA (8/20µs)



T2

AC 600V Wind Turbine System Three-phase Combined Class II AC Surge Arrester
With three rated varistors U_{mov} up to AC 750V



BT WSM 750 RM/3P
Art.-No. 800 518
Three-phase SPD
4 mods (72mm)
Un 600V
In 15kA
Imax 40kA
Uc-MOV 750V
Up ≤ 3.0kV

Higher rated varistor voltage
Protection Module:
3 x **BT WSM 750 RM**

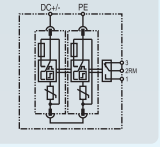
Combined 3P Modules surge arrester especially for protected wind turbine system inverter and main power supply.

Imax 40kA (8/20µs)



T2

PV Single-pole Class II Surge Arrester
Max. PV voltage up to 150V/600V,
for PV systems earthed on the d.c. side



BT S PVM 150 RM
Art.-No. 800 521
Single-pole SPD
2 mods (36mm)
Uc-PV 150VDC
In 20kA
Imax 40kA
Uc-MOV 75V
Up ≤ 0.8kV

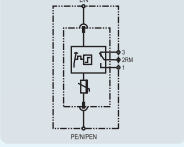
BT S PVM 600 RM
Art.-No. 800 522
Single-pole SPD
2 mods (36mm)
Uc-PV 600VDC
In 20kA
Imax 40kA
Uc-MOV 300V
Up ≤ 2.5kV

Imax 40kA (8/20µs)



T2

Single-pole Higher System Voltage Class II AC Surge Arrester
Max. AC voltage up to ac 1000V



BT WSM 1000 RM
Art.-No. 800 519
Single-pole SPD
2 mods (36mm)
Un 1000V
In 15kA
Imax 40kA
Uc-MOV 1000V
Up ≤ 4.5kV



Earthing Clip for two modules enclosures:

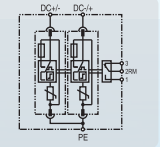
for combined module connecting the earth terminals of two-pole/three-pole/four-pole to earthed.

Imax 40kA (8/20µs)



T2

Combined DC Surge Arrester
For PV systems or DC power supply systems
Max. DC voltage up to 150V-1000V



BT PVM 150 RM/2P
Art.-No. 800 511
Two-pole SPD
2 mods (36mm)
Uc-PV 150VDC
In 20kA
Imax 40kA
Uc 200V
Up ≤ 0.8kV

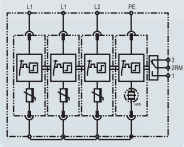
BT PVM 600 RM/2P
Art.-No. 800 512
Two-pole SPD
2 mods (36mm)
Uc-PV 600VDC
In 20kA
Imax 40kA
Uc 625V
Up ≤ 2.5kV

BT PVM 1000 RM/2P
Art.-No. 800 501
Two-pole SPD
2 mods (36mm)
Uc-PV 1000VDC
In 20kA
Imax 40kA
Uc 1060V
Up ≤ 3.5kV

Imax 40kA/100kA (8/20µs)



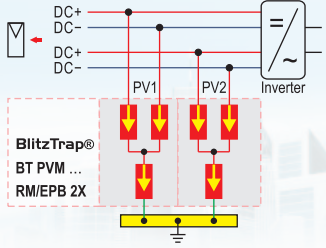
Combined Higher System Voltage Class II AC Surge Arrester
For wind turbine power supply system
Generator Protected
Max. AC voltage up to 1000V



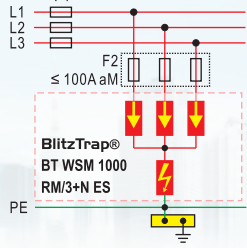
BT WSM 1000 RM/3+N
Art.-No. 800 519
Three-phase SPD
8 mods (144mm)
Uc 1000VAC
Imax 30/100kA

3x MOV Module
BT WSM 1000 RM
Art.-No. 800 519
Un 1000V
In 15kA
Imax 40kA
Uc-MOV 1000V
Up ≤ 4.5kV

1x GDT Module
BT WSM 1000 PE RM
Art.-No. 800 520
Un 1000V
limp 100kA
Imax 30kA
Uc-GDT 1000V
Up ≤ 4.5kV



BT PVM 1000 RM/EPB 2X
Combined Surge Arrester Box for protecting two MPP inputs and outputs, use in photovoltaic system.



BT WSM 1000 RM/3+N ES
Combined Surge Arresters Box for protecting the rotor and inverter of wind turbine system.



Surge Protection Device For Information Technology Systems

Measuring and Control System Surge Arresters

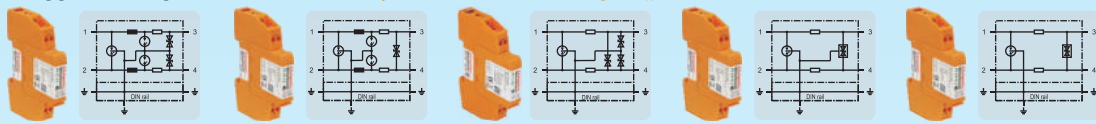


BlitzShield® Modular Products Range Protector

Industrial Control/Telecommunication Protection

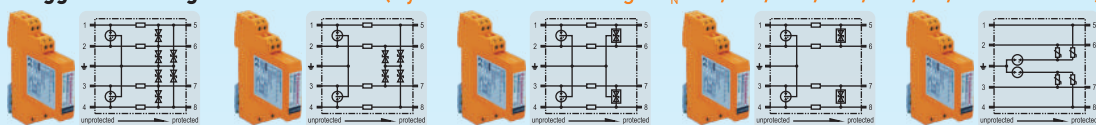
Combined Signal Protection Module Surge Protective Devices

Pluggable 2 Signal lines module (System nominal voltage U_N : 5V/12V/24V/36V/48V/60/110V... series)



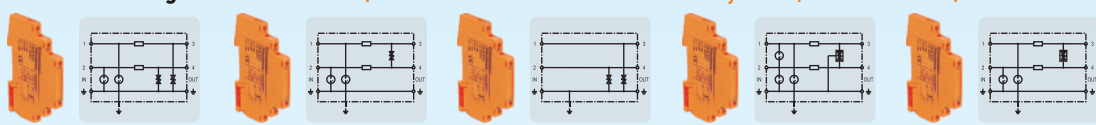
<p>BS LC ... (system 5-110V) Iimp 2.5/5kA (10/350µs) 2 signal lines protection a common reference potential as well as unbalanced interfaces.</p>	<p>BS LD ... (system 5-110V) Iimp 2.5/5kA (10/350µs) 1 pair signal lines protection of unearthed balanced interfaces.</p>	<p>BS LCD ... (system 5-110V) Iimp 2.5/5kA (10/350µs) 1 pair stranded signal lines Protection (line-line-PE) of balanced interfaces.</p>	<p>BS SHFD ... (system 5-24V) Iimp 2.5/5kA (10/350µs) 2 signal lines Protection a common reference potential as well as high-frequency transmissions without galvanic isolation.</p>	<p>BS HFD ... (system 5-24V) Iimp 2.5/5kA (10/350µs) 1 pair signal lines Protection of unearthed bus systems or two-wire video transmission systems.</p>
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Pluggable 2-4 Signal lines module (System nominal voltage U_N : 5V/12V/24V/36V/48V/60/180V... series)



<p>NEW BS LCD .../4M (system 5-180V) Iimp 2.5/10kA (10/350µs) 2 pair stranded signal lines Protection (line-line-PE) of balanced interfaces.</p>	<p>NEW BS LDD .../4M (system 5-24V) Iimp 2.5/10kA (10/350µs) Max. up to 4 unearthed signal lines sharing a common reference potential.</p>	<p>NEW BS SHFD .../4M (system 5-24V) Iimp 2.5/10kA (10/350µs) 4 signal lines Protection a common reference potential as well as high-frequency transmissions without galvanic isolation.</p>	<p>NEW BS HFD .../4M (system 5-24V) Iimp 2.5/10kA (10/350µs) 2 pair signal lines Protection of unearthed bus systems or two-wire video transmission systems.</p>	<p>NEW BS SCY .../4M (system 250V) Iimp 10/20kA (8/20µs) 4 signal lines protection of stranded signal interfaces up to ac 250V with "fault-proof Y circuit"</p>
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Ultra-slim 2 Signal lines module (Minimum installation width of only 6mm/without cover)



<p>BS RK SC ... (system 12-110V) I_{max} 5/10kA (8/20µs) 2 signal lines protection a common reference potential as well as unbalanced interfaces.</p>	<p>BS RK SD ... (system 12-110V) I_{max} 5/10kA (8/20µs) 1 pair signal lines protection of unearthed balanced interfaces.</p>	<p>BS RK C ... (system 12-60V) IL 10A (High nominal current) 2 single lines with common reference potential as well as unbalanced interfaces.</p>	<p>BS RK SHFD ... (system 5-24V) I_{max} 5/10kA (8/20µs) 2 signal lines Protection balanced or unbalanced with low voltage, suitable for high transmission rates.</p>	<p>BS RK HFD ... (system 5-24V) I_{max} 5/10kA (8/20µs) 1 pair signal lines Protection of unearthed balanced interfaces, suitable for high transmission rates.</p>
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Ultra-slim 2-4 Signal lines module (with direct or indirect shield earthing)

<p>NEW BS RK 24 ST...LT (system 24V) Iimp 2.5/5kA (10/350µs) 1 pair stranded signal lines Protection of unearthed balanced interfaces.</p>	<p>External View</p> <p>TEST : Detection of Key</p> <p>BAT : Green LED</p> <p>ALARM : Red LED</p> <p>With Failure & Life Span Indications</p>	<p>NEW BS 2RK SCD... (system 24V) Iimp 2.5/5kA (10/350µs) Provide max. 2 stranded signal lines Protection (line-line-PE) of balanced interfaces.</p>	<p>NEW BS 3RK SCD... (system 24V) Iimp 2.5/7.5kA (10/350µs) Provide max. 3 stranded signal lines Protection (line-line-PE) of balanced interfaces.</p>	<p>NEW BS 4RK 24 SCD... (system 24V) Iimp 2.5/10kA (10/350µs) Provide max. 4 stranded signal lines Protection (line-line-PE) of balanced interfaces.</p>
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Compact 2-6 Signal lines module (with direct or indirect shield earthing)

<p>BS TTY 24 I_{total} 10kA (8/20µs) Provide 4 signal lines Protection for data transmission devices (TTY interfaces).</p>	<p>BS RS485 5 I_{total} 10kA (8/20µs) Provide 6 signal lines Protection for RS485/RS422 industrial bus control, other field bus and temperature measurement.</p>	<p>BS AD 24 I_{total} 2kA (8/20µs) Two protected lines for DC 24V, usually used to protect PLC 24V power supply from EMC.</p>	<p>BS ALD 36 Iimp 2.5/5kA (10/350µs) Combined lightning current two protected lines for unearthed d.c. power supply system.</p>	<p>NEW</p> <p>BS SD TC1 (system 110V) I_{total} 5kA (8/20µs) 1 pair signal lines for protecting telecommunication interfaces, with RJ45 connections and additional screw terminals.</p>
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LAS-PLUS Technology Protection (ISDN Multiplex Connection)

<p>BS LSA C...L (system 5-110V) I_{max} 5/10kA (8/20µs) LSA plug-in SPD 1 pair signal lines protection, Ideally suited for signal circuits with common potential.</p>	<p>BS LSA D...R (system 5-250V) I_{max} 5/10kA (8/20µs) LSA plug-in SPD 1 pair signal lines protection, for use as single-stage protection for terminal equipment.</p>	<p>Installation Accessory: LSA / L-10</p> <p>Grounding rail, for 10 LSA plug-in SPD 1 pair signal lines connection modules serving as connection between LSA backmount frame connector.</p>	<p>BS LSA X C110 S (system 110-250V) I_{max} 5/10kA (8/20µs) LAS plug-in SPD for 10 pair signal lines Protection, 110V or 250V for use as single-stage protection for terminal equipment.</p>	<p>BS LSA 1G 110 (system 110V) I_{max} 5/10kA (8/20µs) ITC 110V plug-in SPD for 1 pairs with tripod gas discharge tubes for nearly all types of applications.</p>	<p>BS LSA 10G 110 (system 110V) I_{max} 5/10kA (8/20µs) 10TC 110V plug-in SPD for 10 pairs with tripod gas discharge tubes for nearly all types of applications.</p>
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IP65/Ex(d) Hazardous Areas

3LP-IP65/Outdoor Used Waterproof Enclosure
Proving max. 3 signal lines connected socket



BS 3LP-IP67 series
Art.-No. 644 003
Built-in PCB protection module for BS LCD ... series products

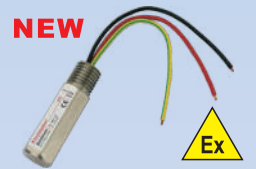


5LP-IP65/Outdoor Used Waterproof Enclosure
Proving max. 5 signal lines connected socket



BS 5LP-IP67 series
Art.-No. 644 005
Built-in PCB protection module for BS LCD .../4M series products

Ex(d) IIC T4 G6 SPD to Field Device



BS PI SCD 24 M series
Art.-No. 680 162
M20x1.5 metric and 1/2-1/4 NPT thread
Provide protection for parallel connection 2-wire signal cable and earthing cable



BS PI SCD 24 M-2 series
Art.-No. 680 172
M20x1.5 metric and 1/2-1/4 NPT thread
Provide protection for parallel connection 4-wire signal cable and earthing cable



BS PI SCD 230/24 M (Y-circuit 120V/230V)
Art.-No. 680 174
M20x1.5 metric and 1/2-1/4 NPT thread
Provide protection for one 120/230V power supply system and one 24V data interface



Surge Protection Device For Information Technology Systems

Network Communication System Surge Arresters



BlitzShield® Modular Products Range Protector

Data Network/Coaxial Cable Protection

RJ45/PoE Network Communication Surge Protective Devices

RJ45 Protector (10M/100M/1000MBits/s Network system interfaces series)

Safe Power + Network Plug in & Protect Good for home & small offices.

NEW

BS TVSS/G5... (G48...) (System: Power AC 230V Data network DC 5-48V) (2-4-ch RJ45 sockets) Network protector by RJ45/CAT6 interfaces, for Gbits network system protected by 4 pair lines, and ac 230V power supply plug input protected.

Module Designed: 4 Ports

NEW

GBits/s Network BS RJ45G 5... (G48...)/4P (System: 5-48V) (4-ch RJ45 sockets) Network protector by RJ45/CAT6 interfaces, for Gbits network system protected by 4 pair lines. High voltage DC 57V to support the PoE network system.

Type: A (with DIN Rail bracket) / Type: B (with outgoing cable earthing)

GBits/s Network BS RJ45G 5... (G48...) (System: 5-48V) (1-ch RJ45 sockets) Network protector by RJ45/CAT6 interfaces, for Gbits network system protected by 4 pair lines. High voltage DC 57V to support the PoE network system.

MBits/s Network BS RJ45 5V... (24V...) (System: 5-24V) (1-ch RJ45 sockets) Network protector by RJ45/CAT5 interfaces, for Mbits network system protected by 4 pair lines.

PoE Network BS PoE 7.5V ... (System: Data 5V + Power DC 48V) (1-ch RJ45 sockets) PoE Network protector by RJ45/CAT5 interfaces, for data network by 1/2,3/6 pair lines and dc power supply by 4/5,7/8 pair lines.

Rj11 Telecom BS RJ11 110... (System: 110V) (1-ch RJ11 sockets) Telecommunication Network protector by RJ11 interfaces, for ADSL/ISDN network system protected by 1 pair lines.

IP65/Enclosure Outdoor Application

IP65/Waterproof 1GBits Network Protector



NEW

BS RJ45E WP Art.-No. 630 028 (System: DC 60V) Support the PoE network system.

Easy-Mounting Outdoor



RJ45-4TP Modules Protector (10M/100M/1000MBits/s Network system interfaces series)

Module Designed: 8 Ports

484mm length (19 inch shield enclosure)



GBits/s 4TP Module BS NP 4TP G... (System: 5-48V) (8-ch RJ45/CAT6 sockets)

4TP protection module of RJ45/CAT6 interfaces, for Gbits network system protected by 4 pair lines.



8 ports GBits/s 4TP 1X wall installation bracket BS NP 4TP 1X G... (System: 5-48V) (8-ch RJ45/CAT6 sockets)

Network protector is mounting 1X 4TP protection module of RJ45/CAT6 interfaces, for Gbits network system protected by 4 pair lines.



8-16-24 ports GBits/s 4TP (1X/2X/3X)-19" 19" technology installation bracket BS NP 4TP 1X G... (2X G... /3X G...) (System: 5-48V) (Max. 8-24-ch RJ45/CAT6 sockets)

Network protector is mounting 1X or 2X or 3X 4TP protection module of RJ45/CAT6 interfaces, for Gbits network system protected by 4 pair lines Protection.



NEW

5-15 ports GBits/s DIN SPD-19" 19" technology empty rack BS NP 15/RJ45 G... (System: 5-48V) (Max. 15-ch RJ45/CAT6 sockets)

19" empty rack can be configure up to 15pcs independent DIN rail Gbits network SPD of BS RJ45G 5 or BS RJ45G 48.



MBits/s 4TP Module BS NP 4TP RJ45... (System: 5-24V) (8-ch RJ45/CAT5 sockets)

4TP protection module of RJ45/CAT5 interfaces, for Mbits network system protected by 4 pair lines Protection.



8 ports MBits/s 4TP 1X wall installation bracket BS NP 4TP 1X RJ45... (System: 5-24V) (8-ch RJ45/CAT5 sockets)

Network protector is mounting 1X 4TP protection module of RJ45/CAT5 interfaces, for Mbits network system protected by 4 pair lines Protection.



8-16-24 ports MBits/s 4TP (1X/2X/3X)-19" 19" technology installation bracket BS NP 4TP 1X RJ45... (2X RJ45... /3X RJ45...) (System: 5-24V) (Max. 8-24-ch RJ45/CAT5 sockets)

Network protector is mounting 1X or 2X or 3X 4TP protection module of RJ45/CAT5 interfaces, for Mbits network system protected by 4 pair lines Protection.



5-15 ports MBits/s DIN SPD-19" 19" technology empty rack BS NP 15/RJ45 ... (System: 5-24V) (Max. 15-ch RJ45/CAT5 sockets)

19" empty rack can be configure up to 15pcs independent DIN rail Mbits network SPD of BS RJ45 5V or BS RJ45 24V.



CTV/BNC Coaxial Cable Protector (75Ω coaxial system series)

Type: A (with DIN Rail bracket) / Type: B (with outgoing cable earthing)

484mm length (19 inch shield enclosure)



CTV - F socket BS CTV 24... (System: 24V) (1-ch F socket)

Provide 75Ω satellite and TV cable protector of 1 ports F input/output sockets.



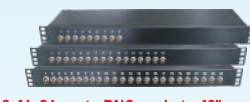
BNC plug/socket BS BNC 5V... (System: 5V) (1-ch BNC plug/socket)

Provide 75Ω coaxial cable video protector of 1 ports BNC plug/socket.



8 ports BNC sockets wall installation bracket BS 8BNC 5V... (System: 5V) (8-ch BNC sockets)

Provide 75Ω coaxial cable video protector of 8 ports BNC input/output sockets.



8-16-24 ports BNC sockets-19" 19" technology installation bracket BS 8BNC 5V... (16BNC... /24BNC...) (Max. 8-24-ch BNC sockets)

Provide 75Ω coaxial cable video protector of 8-24 ports BNC input/output sockets.

Cell Sites/Antenna System Coaxial Cable Protector (50Ω or 75Ω coaxial system series)

NEW 50Ω 0-6000MHz BS G NG (GDT: 90V/250V) (N plug/socket)	NEW 50Ω 0-6000MHz BS G NA (GDT: 90V/250V) (N socket/socket)	50Ω 0-3000MHz BS N GC (GDT: 90V/250V) (N plug/socket)	50Ω / 75Ω 0-3000MHz BS BNC G (GDT: 90V/250V) (BNC plug/socket)	50Ω 0-3000MHz BS G TNC (GDT: 90V/250V) (TNC plug/socket)	50Ω 0-3000MHz BS G UHF (GDT: 90V/250V) (UHF plug/socket)	50Ω 0-3000MHz BS G SMA (GDT: 90V/250V) (SMA plug/socket)	50Ω / 75Ω 0-2400MHz BS GF CTV (GDT: 90V/250V) (F plug/socket)	50Ω 0-2500MHz BS L4 7/16 (GDT: 0V) (7/16 plug/socket)	50Ω 0-2500MHz BS L4 7/16 A (GDT: 90V) (7/16 socket/socket)	

D-SUB Technology Protector



NEW

Sub 9 pin plug/socket BS RS 9P... (9P A) (System: 6-24V) (with outgoing cable earthing)

Sub 9 pins surge protector for Profibus-DP applications.

Sub 9-37 pin plug/socket BS RS 9P ... (15P.../25P.../37P...) (System: 5-48V) (with outgoing cable earthing)

Sub surge protector for RS485, RS422, RS232 signal devices.

Camera Security Surveillance Protector



Rj45 data 2 in 1 wall mounting BS RJ45 V 2 IN 1... (Data network: 48V DC) (Power: 12V/24V/48V/220V)

RJ45 surge protector Integrated protection for power supply lines, and RJ45 network signal line of the IP camera or IP telephone device.

Rj45 data 2 in 1 DIN rail mounting BS RJ45 V 2 IN 1...D (Data network: 48V DC) (Power: 12V/24V/48V/220V)

BNC video 3 in 1 wall mounting BS BNC V 3 IN 1... (Video signal: 5V DC) (Control signal: 12V DC) (Power: 12V/24V/48V/220V)

BNC video 3 in 1 DIN rail mounting BS BNC V 3 IN 1... (Video signal: 5V DC) (Control signal: 12V DC) (Power: 12V/24V/48V/220V)

PRJ-CAT6 (RJ45/CATA connector)

IE IP 65 ... series enclosure
Plastic housing/transparent cover
IP65/waterproof mounting box for installation various with DIN rail network surge protector with 2pcs RJ45/CAT6 connectors.

For more, please visit: <http://www.telebahn.cn>; www.telehof.com



Earthing Devices For Lightning Equipotential Bonding

Earthed Accessories Series for Surge Arresters

Lightning Counter/IP65 Enclosure

Impulse Counter for Registration of Discharge Frequency

1.5 Modules, 3-4 Digits LCD Display



IC 03 / IC 04
(0-999, 3 digits)
(0-9999, 4 digits)

The sensor suitable for SPD's ground wire.



IC 03 / IC 04 (SN)
(0-999, 3 digits)
(0-9999, 4 digits)

The sensor for any earthing conductors



NEW



IC 03/IC 04 (WF) ...
IE JC-2 series enclosure

Plastic housing/transparent cover
IP65/waterproof mounting box for sheltered outdoor application.

2.2 Modules, 7 Digits OLED Display

Smart counting with OLED display mode set function.



IC 05
(0-9999999, 7 digits)
(Year/Month/Day)

The sensor suitable for SPD's ground wire.



IC 05 (SN)
(0-9999999, 7 digits)
(Year/Month/Day)

The sensor for any earthing conductors



NEW



IC 05 (WF) ...
IE JC-2 series enclosure

Plastic housing/transparent cover
IP65/waterproof mounting box for sheltered outdoor application.

3 Modules, AC 90V-255V Power, 4 Digits LCD Display

The unit is equipment with an RM (remote) input port, to detect any changes from the SPD RM terminal.



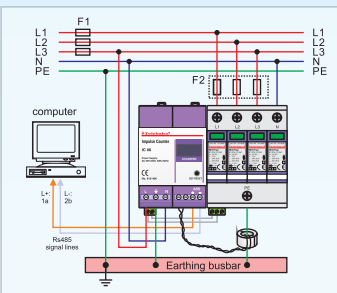
IC 06
(0-9999, 4 digits)

Via RS485 remote (+/-) communication function for set reset operation. The sensor suitable for SPD's ground wire.



IC 06 (SN)
(0-9999, 4 digits)

Via RS85 remote (+/-) communication function for set reset operation. The sensor for any earthing conductors.



IP65/waterproof, 7 Digits Display, Mechanical Counter

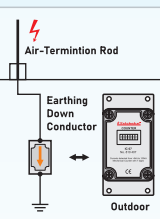
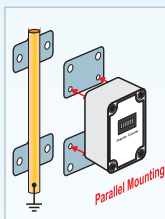
The equipment adopt mechanical counting function, without any power supply.



NEW

IC 07
(0-9999999, 7 digits)

Installation accessories for fixed metal clip to counter of series mounting and parallel mounting.



IP65/waterproof, 7 Digits OLED Display, Specific Solar Power Supply Function

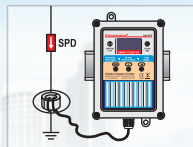
Smart counting with OLED display mode set function.



NEW

IC 10
(0-9999999, 7 digits)
(Year/Month/Day)

Provided with rechargeable 3.7 battery, long-term power from solar panel.



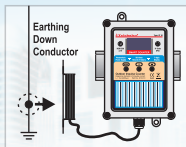
The sensor suitable for SPD's ground wire.



NEW

IC 10 (SN)
(0-9999999, 7 digits)
(Year/Month/Day)

Provided with rechargeable 3.7 battery, long-term power from solar panel.



The sensor for any earthing conductors.



Earthing® Devices
Products Range Protector

Isolating Spark Gaps/Tester

Equipotential Bonding

Electro GDT 50kA, 100kA or 200kA (10/350µs)

ISG 10
Art.-No. 690 015
(10mm terminal)

For lightning equipotential bonding, especially for connection of separated earthing system.

For mounting indoor or outdoor, in damp rooms as well as for underground installation.



ISG 10 S
Art.-No. 690 001
(M10 threaded screws)

For lightning equipotential bonding, especially for connection of separated earthing system.

For mounting indoor or outdoor, in damp rooms as well as for underground installation.

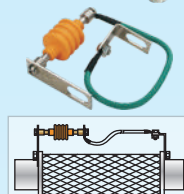


ISG 200
Art.-No. 690 035
(2mm thick copper terminal)

200kA high discharge current.
The device is meant for lightning equipotential bonding, especially for connection of separated earthing systems.



NEW
ISG 10 S (L)
Accessories:
Connecting cable length:
16mm² x 100mm
16mm² x 200mm
16mm² x 300mm



Equipotential Bonding Bar



EB 06
Art.-No. 690 013
For connection of the earthing conductor of various equipment or system.
This bars have 6 screws connectors, the screws size: M6 x 12mm.



EB 16
Art.-No. 690 005
For connection of the earthing conductor of various equipment or system.
This bars have 16 connecting terminals, with 8pcs max. cross-section area 25mm², and 8pcs max. cross-section area 50mm².

Connecting Bar



CB 4R
Art.-No. 690 006
Connection with the equipotential bonding bar, for connecting various terminals (e.g. copper or steel bar) to equipotential bonding bar.



Lightning Protection Component Tester

Intelligent Lightning Protection Component Tester is used to measure the performance parameter of various metal oxide varistor (MOV) and gas discharge tubes (GDT), and has insulation resistance testing function.

NEW **LT A2988** Art.-No. 801 405

The instrument adopts touch color screen, the function is visual, measurement with one key, easy and fast operation, accurate and reliable, with excellent test stability and anti-interference ability, professional level parameter setting function. And the instrument adopts large capacity rechargeable lithium battery, with data storage, data access, qualification judgment, automatic shutdown, USB data upload and export functions.



Measurement Range and Accuracy

Function	Output	Measure Range	Accuracy	Resolution
MOV	Voltage U _{1mA} : 0~2100V	20~2000V	±2%rdg±3dgt	1V
	Current I _{0.75, 1mA} : 0~1.5mA	0~1000µA	±2%rdg±10dgt	0.1µA
GDT	Voltage: 0~2100V/1.5mA	20~2000V	±2%rdg±3dgt	1V
Insulation Resistance	500V	0.5MΩ~3000MΩ	±2%rdg±3dgt	0.1M

Surge Arrester Modules Accessories

The equipments for surge arresters wiring system.



Alarm Devices
BZ 85
(3V battery, exchangeable)

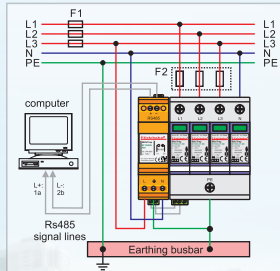
Connected with SPD's remote signal terminal. This device will sound the alarm and the red LED will be flashing when SPD is faulty.



NEW

RS485 Communications
BT RS485 RM
(220V AC power supply input)

The unit is equipment with an RM (remote) input port, to detect any changes from the SPD RM terminal. Via RS485 to realize remote monitoring of SPD operating conditions.





Certification

CERTIFICATE

DEKRA

Product: Surge Protection Device

Model: SP 1000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

CE mark

CERTIFICATE

DEKRA

Product: Surge Protection Device

Model: SP 2000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

CE mark

ATTESTATION OF CONFORMITY

DEKRA

Product: Surge Protection Device

Model: SP 1000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

CE mark

ATTESTATION OF CONFORMITY

DEKRA

Product: Surge Protection Device

Model: SP 2000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

CE mark

CB TEST CERTIFICATE

IEC

Product: Surge Protection Device

Model: SP 1000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

TÜV Rheinland logo

Zertifikat / Certificate

TÜV Rheinland

Product: Surge Protection Device

Model: SP 2000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

TÜV Rheinland logo

CERTIFICATE

TÜV Rheinland

Product: Surge Protection Device

Model: SP 1000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

TÜV Rheinland logo

CERTIFICATE

TÜV Rheinland

Product: Surge Protection Device

Model: SP 2000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

TÜV Rheinland logo

CB TEST CERTIFICATE

IEC

Product: Surge Protection Device

Model: SP 1000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

Telebahn logo

CB TEST CERTIFICATE

IEC

Product: Surge Protection Device

Model: SP 2000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

Telebahn logo

CERTIFICATION of Conformity

RoHS

Product: Surge Protection Device

Model: SP 1000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

RoHS logo

SGS

Product: Surge Protection Device

Model: SP 2000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

SGS logo

CQC 标志认证 试验报告

CQC

Product: Surge Protection Device

Model: SP 1000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

CQC logo

型式试验报告 Type Test Report

MA CNAS

Product: Surge Protection Device

Model: SP 2000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

MA CNAS logo

检测报告 Test Report

MA CNAS

Product: Surge Protection Device

Model: SP 1000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

MA CNAS logo

检测报告 Test Report

MA CNAS

Product: Surge Protection Device

Model: SP 2000

Manufacturer: Zhuhai Telebahn Electronics Co., Ltd.

Address: Zhuhai, China

MA CNAS logo

C Company Profile

Zhuhai Telehof Electrics Company Limited located in Zhuhai city Guangdong province, is a British-owned company, engaged in research, design, manufacturing, and sales of Surge Protective Devices with more than 30 years' experience. We have a high voltage laboratory, equipped with advanced lightning & surge current generators, which are able to generate 8/20 μ s, 10/350 μ s, 10/1000 μ s, and 1.2/50 μ s waveform according to IEC international standard.

With the help of our very competent Engineers, we have managed to continuously enhance and develop additional products to satisfy the demands of our client. In recent years, our company has introduced a series of advanced equipment such as:

- * Lightning Current Generator
- * Combined Waveform Generator
- * Thermal Stability Tester
- * PV DC Current Generator
- * GDT Follow-on Current Extinguishing Capability Test
- * Wind Turbine System SPD Test

Our sales team handles our customers professionally, to maintain a good relationship. Providing excellent services beyond our clients' satisfaction is what we strive to achieve.

We have great demand all over the provinces of China. Our sales have an increasing value of clients around the world. We travel worldwide, participating in product exhibitions, to showcase our knowledge and experience in the lightning and surge protection field. We offer O.E.M. and O.D.M. as well as Joint venture projects. What differentiates us from others, is that we like to educate our clients to a certain extent to keep them informed and to understand the importance of our products. We are constantly expanding because of our valued clients.

We are aiming to maintain the quality of our products/services, and offer more advanced technology in the future

Safety & Protection

To ensure the quality of our products we implement strict quality control, we have obtained KEMA-KEUR / TUV / CB / CE / CQC / ROHS / REACH certification and passed more than 40 test reports issued by Chinese National Test Centers.

