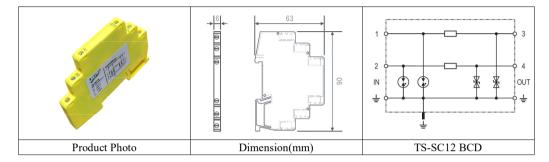


■ TSTLP®/TS-SC series Surge Arrester for Information Technology System

- ❖ INTRODUCTION:TS-SC series is installed at LPZ 0_B -2 or higher. Applied in measuring and controlling system, providing coarse and fine protection. Designed according to IEC 61643-21; GB 18802.21; YD/T 1542. mainly used in industry controlling system, measuring system and controlling devices and so on.
- We're able to make different CIRCUIT, Voltage & Technical Data according to customers' requirement, just tell exact product application needed or send us sample(s) to make.



* TECHNICAL DATA

Model		TS-SC12	TS-SC24	TS-SC48	TS-SC110
Nominal voltage	Un	12V-	24V	48V	110V
Rated voltage (max. continuous	Uc	14V-/	33V-/	55V-/	170V-/
voltage)		9.5V~	23V~	38.5V~	120V~
Nominal current	I_L	0.5A	0.5A	0.5A	0.5A
Nominal discharge current	In	5kA (per line)			
(8/20)	111	10kA (total)			
Voltage protection level at In	Up	≤ 55V (line-line)	≤110V (line-line)	≤ 175V (line-line)	≤ 500V (line-line)
		≤ 40V (line-PG)	≤ 65V (line-PG)	≤ 100V (line-PG)	≤ 270V (line-PG)
Voltage protection level at	Up	≤ 36V (line-line)	≤ 90V (line-line)	≤ 160V (line-line)	≤ 460V (line-line)
1kV/μs		≤ 19V (line-PG)	≤ 45V (line-PG)	≤80V (line-PG)	≤ 230V (line-PG)
Response time	tA	≤ 1ns (line-line)	≤ 1ns (line-line)	≤ 1ns (line-line)	≤ 1ns (line-line)
		≤ 1ns (line-PG)	≤ 1ns (line-PG)	≤ 1ns (line-PG)	≤ 1ns (line-PG)
Bandwidth	\mathbf{f}_{G}	2.5MHz	6MHz (line-PG)	10MHz (line-PG)	16MHz (line-PG)
		(line-PG)			
Series impedance per line	R	1.8Ω			
Capacitance	C	≤ 1.2 nF (line-line)	≤ 0.5 nF (line-line)	\leq 0.3nF (line-line)	$\leq 0.2 nF$ (line-line)
		≤ 2.4 nF (line-PG)	≤ 1nF (line-PG)	\leq 0.6nF (line-PG)	\leq 0.4nF (line-PG)
Operating temperature range		-40°C+80°C			
Cross-sectional area		Max. 2.5m m ² flexible			
Mounting on		35mm DIN rail			
Enclosure material		Yellow thermoplastic, UL94-V0			
Standards		IEC 61643-21; GB 18802.21; YD/T 1542			
Compliance		CE (LVD, EMC)			

* MAIN CHARACTER

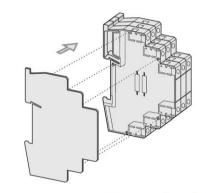
- ✓ Small size, only 6mm wide module
- ✓ Connected to earth by DIN rail or earth terminal

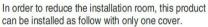
INSTALLATION INSTRUCTION

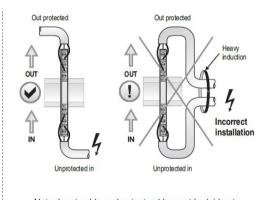
- 1. This product is connected in series to the protected device.
- 2. Mount the SPD on the 35 mm DIN rail.
- 3. The out terminal should be connected to the protected devices.
- 4. There is a earthing terminal in each side, and it is recommended to use the one at output side, earth lead must be connected to the earthing system, ideally using 2.5mm² cable. The cable should be as short as possible.
- 5. After above, you should ensure the circuit is functioning.

Regularly inspect the operating status, especially after lightning. Once the communication is off, electrician should check/replace the SPD.

TS-SC12 INSTALLATION DIAGRAM







Note: Input cable and output cable must be laid out separately, otherwise it will cause interference!

WARNING:

- 1. The device must be installed by electrically skilled person, conforming to national standards and safety regulations.
- 2. It is recommended that installation should be done under power off condition.

