S05(12/24/48/110)-5K0-TERT

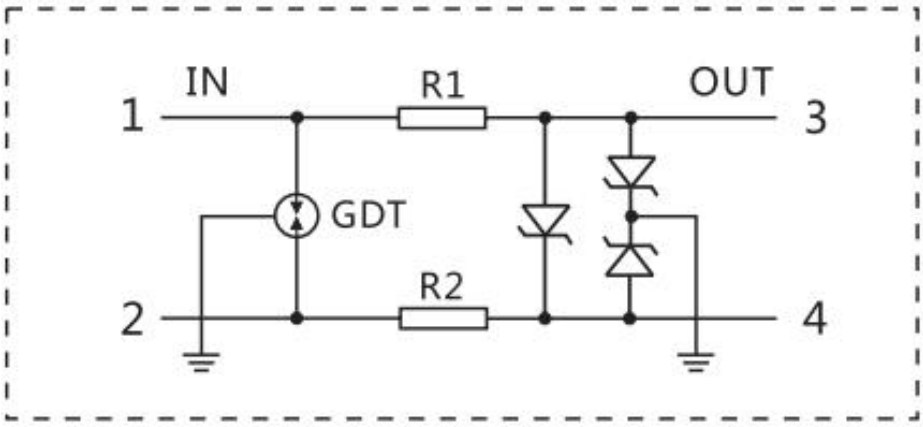
scope of application

It is suitable for lightning protection of control signals and twisted pair data lines, capable of shielding against induced overvoltage, overcurrent, and other transient surge voltages caused by lightning strikes or industrial noise, which may lead to permanent damage or temporary interruption of various signal equipment or systems.

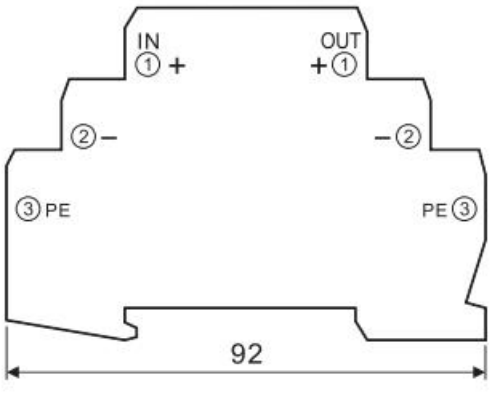
technical parameter

model	S05(12/24/48/110)-5K0-TERT
SPD basis: GB/T18802.21/IEC61643-21	C2
nominal voltage （Un）	5V/ 12V/24V/48V/110V
Maximum continuous operating voltage (Uc)	8V/15V/30V/60V/150V
Nominal discharge current (8/20μs) [In]	5KA
Voltage protection level (Up) [line to line]	80V/80V/80V/150V/350V
Voltage protection level (Up) [line to ground]	150V/150V/150V/300V/500V
transmission speed	2MHz
insertion loss	≤0.2dB(at 2MHz), ≤0.5dB(at 10MHz)
response time （t）	≤1ns
Working temperature range (Tu)	-40℃～+70℃
Working status/fault indication	-
maximum load current	1A
minimum installed conductor cross-sectional area	0.5mm² single-strand/multistrand
maximum installed conductor cross-sectional area	2.5mm² single-strand/multistrand
way to install	35mm DIN rail, compliant with EN 60715
Shell material	Gray thermoplastic material, UL94 V-0
installation site	indoor
levels of protection	IP20
size	0.4 module, DIN 43880
relative humidity	≤95% No condensation

schematic diagram

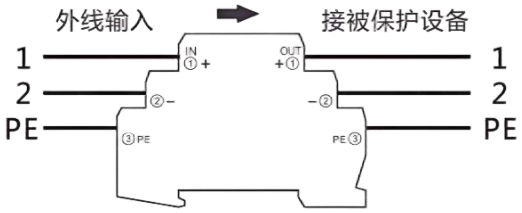


outline dimensional drawing



direction for use

1. The surge arrester is connected in series between the signal channel and the protected equipment.
2. Ensure reliable connection between the surge arrester and the lightning protection system's earthing equalization ring, with the grounding wire length being
   less than 0.5 mm
3. Lightning arresters require no special maintenance. If system operation fails and the lightning arrester is suspected to be the cause, Removable surge arrester can be checked after removal. If restored to the pre-use state, the system will recover.
   If the condition is normal, it indicates the lightning arrester is damaged and should be replaced.



Disclaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.