

## S12(24)-5K0-TER3(TER5)

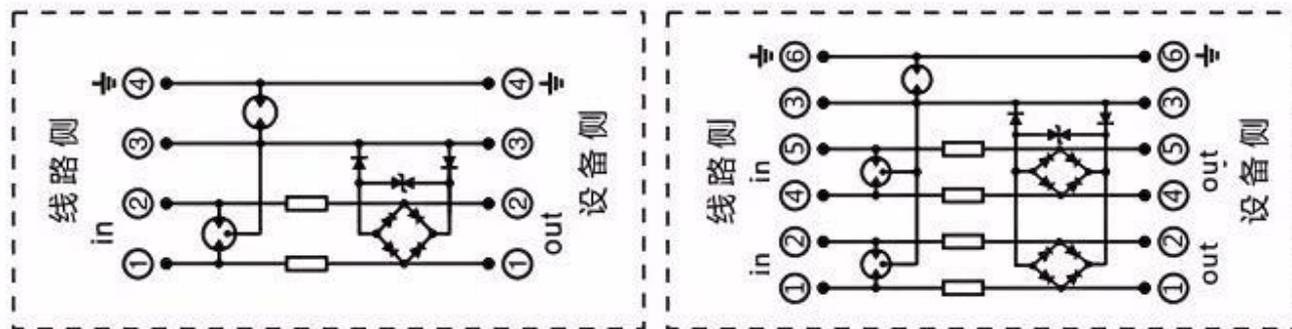
### scope of application

Designed for 1 or 2 signal lines with common reference potential, plus 1 signal ground/shielded ground and 1 lightning protection ground, this component is installed at the front end of equipment to protect against damage caused by overvoltage in control systems, communication systems, or other low-voltage information systems.

### technical parameter

model	S12(24)-5K0-TER3(TER5)
SPD basis: GB/T18802.21/IEC61643-21	C2
nominal voltage (Un)	12V/24V/12V/24V
Maximum continuous operating voltage (Uc)	15V/30V/15V/30V
Nominal discharge current (8/20 $\mu$ s) [In]	5KA
Maximum discharge current (8/20 $\mu$ s) [Imax]	10KA
Voltage protection level (Up) [line to line]	40V/80V/40V/80V
Voltage protection level (Up) [line to ground]	500V
transmission speed	16MHz
insertion loss	$\leq 0.5$ dB
response time (t)	$\leq 1$ ns
Working temperature range (Tu)	-40 $^{\circ}$ C ~ +70 $^{\circ}$ C
maximum load current	1A
minimum installed conductor cross-sectional area	0.5mm <sup>2</sup> single-strand/multistrand
maximum installed conductor cross-sectional area	2.5mm <sup>2</sup> 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	2mm, DIN 43880
relative humidity	$\leq 95\%$ No condensation
Number of lines	3 lines/3 lines/5 lines/5 lines

### schematic diagram



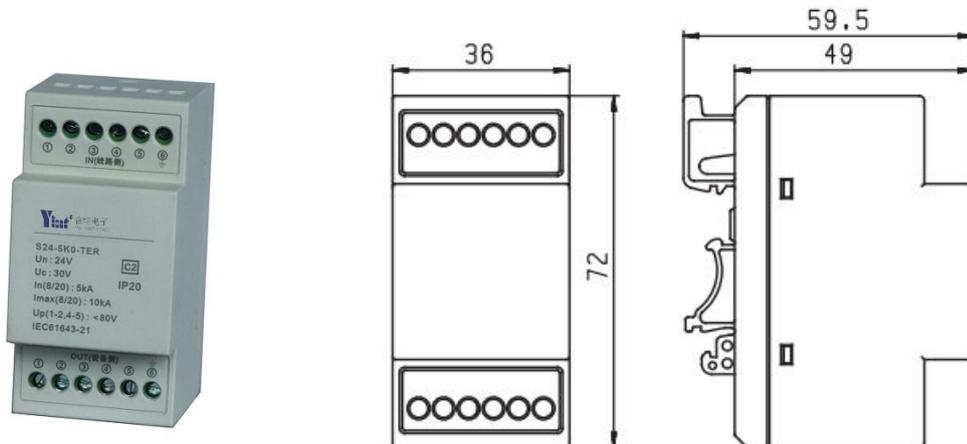
TER3

TER5

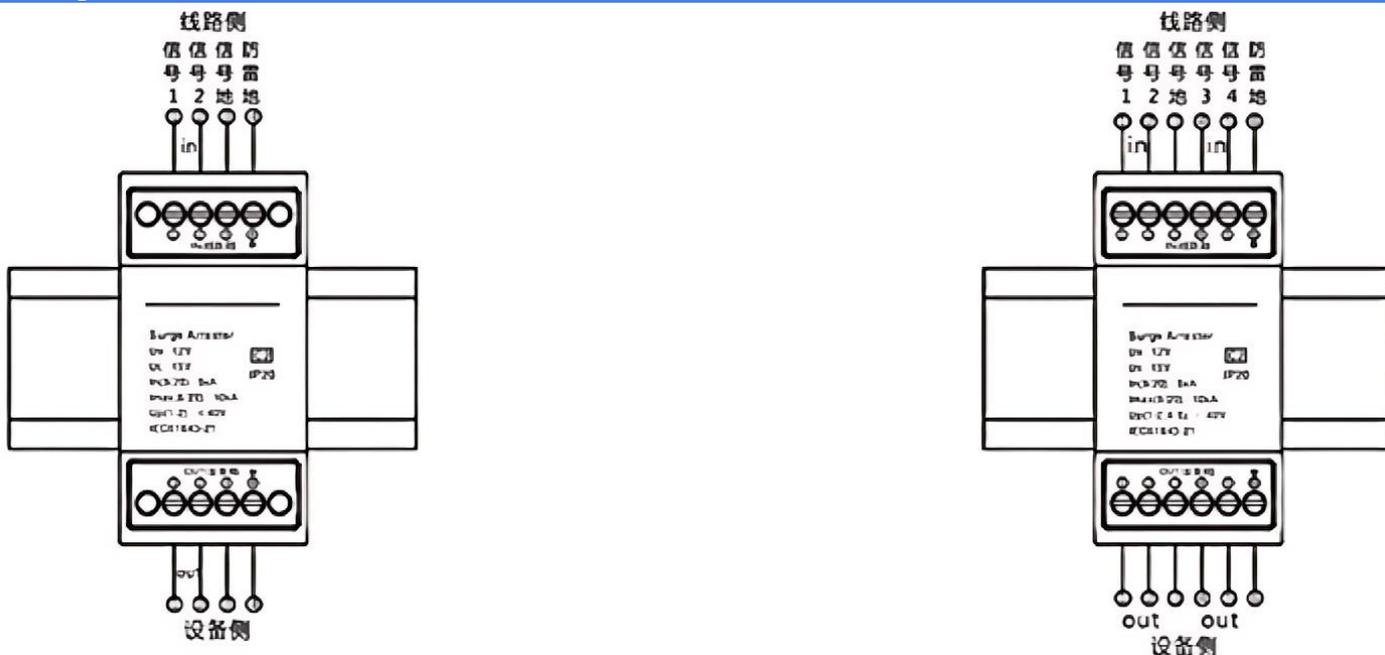
TER5

TER3

### outline dimensional drawing



### hookup



### 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.