

TRS5 Series SPD

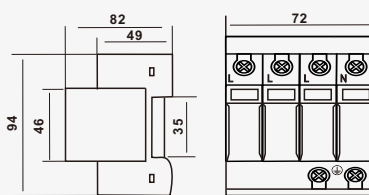
SPD type 1+2–surge arrester, MOV
Pluggable module, visual fault signalling

- Varistor surge arrester
- Installation to main distribution or sub–distribution boards
- For protection of installations and equipments against impact of induced overvoltage during a lightning strike or switching overvoltages.
- Optional remote fault signalling(s)

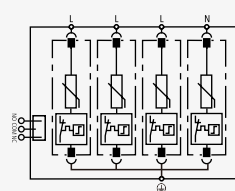
Product



Dimension



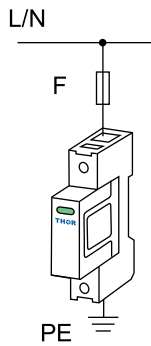
Basic circuit diagram



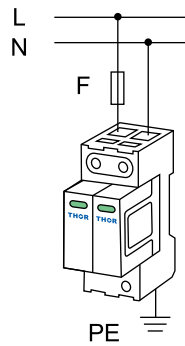
Parameter/Type		TRS5-B+C	
Nominal voltage	U_n	230V AC	
Maximum operating voltage	U_c	275V AC	
Lightning impulse current(10/350 μ s)	I_{imp}	7kA	12,5kA
Nominal discharge current (8/20 μ s)	I_n	20kA	
Maximum discharge current (8/20 μ s)	I_{max}	50kA	
Voltage protection level	U_p	$\leq 1,3kV$	
Response time	t_a	< 25ns	
Cross–section of connected conductors solid(min/max)		16mm ² /35mm ²	
Cross–section of connected conductors stranded(min/max)		16mm ² /35mm ²	
Fault indication		red indication field	
Remote indication		potential–free change–over contact	
remote indication contacts		250V/0,5A AC, 250V/0,1A DC	
Cross–section of remote indication conductors		1,5mm ²	
Degree of protection		IP20	
Range of operating temperatures (min/ max)		–40°C~ +70°C	
Humidity range		5%~95%	
Mounting		DIN rail 35 mm	
According to standard		EN 61643–11:2012, IEC 61643–11:2011/T1+T2	
Remarks		Other U_c can be customized. (420VAC, 385VAC, 320VAC, etc.)	

AC SPD Wiring diagram

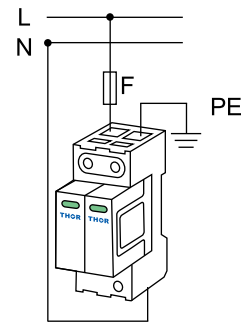
Single phase system



"1+0"
Connection

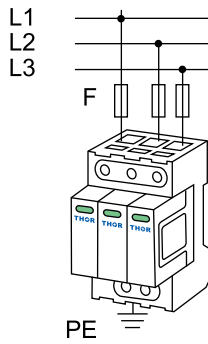


"2+0"
Connection

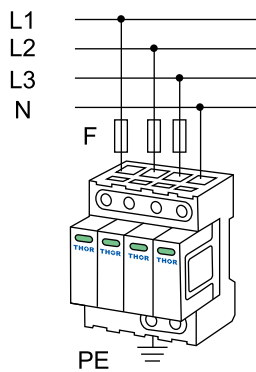


"1+1"
Connection

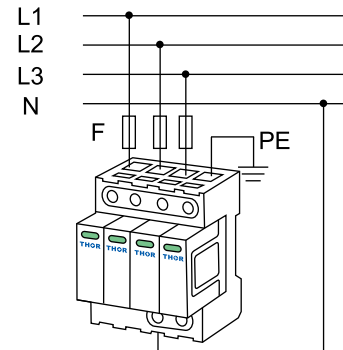
Three phase system



"3+0"
Connection

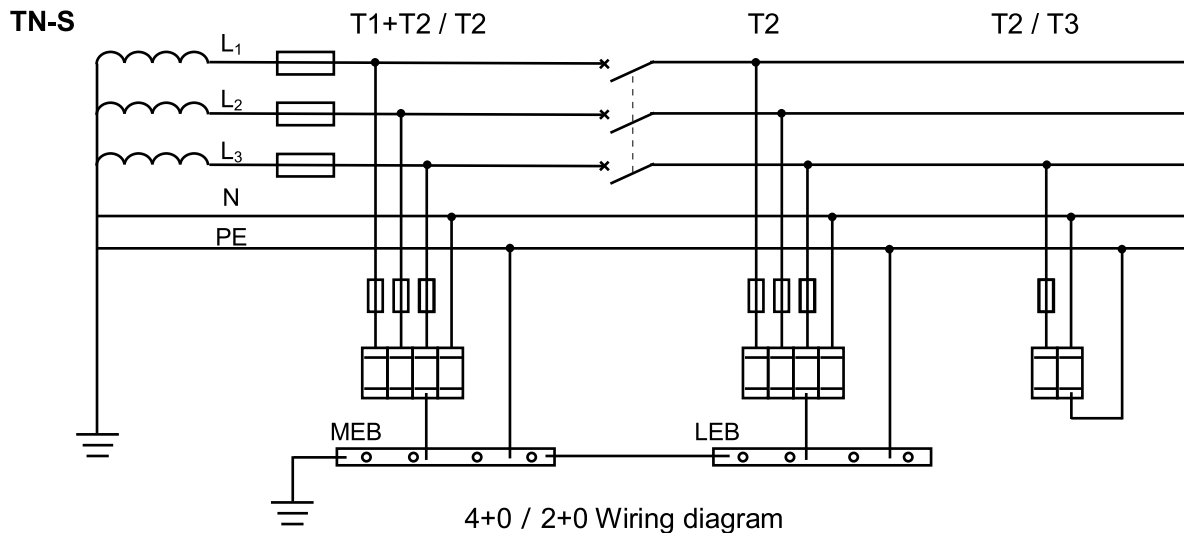


"4+0"
Connection



"3+1"
Connection

Connection of AC SPD in networks



Connection of AC SPD in networks

