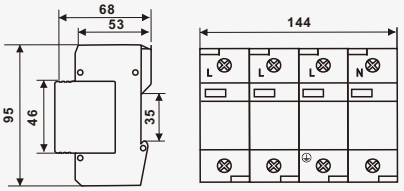
TRS9 Series SPD

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

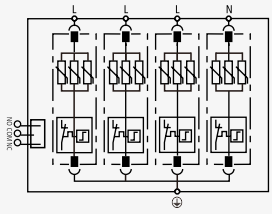
- Varistor surge arrester
- Installtion to sub–distribution boards (Imax:80kA)or main distribution boards (Imax:100kA/120kA/150kA)
- For protection of installations and equipments againt impact of induced overvolatge during a lightning strike or switching overvolatges.
- Optional remote fault signalling(s)

Product

Dimension



Basic circuit diagram

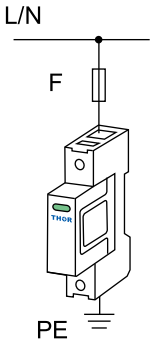


T2 AC SPD

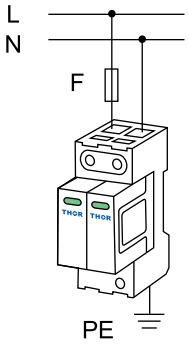
Parameter/Type		TRS9–B80	TRS9–B100	TRS9–B120	TRS9–B150
Nominal volatge	U_n	380V AC			
Maximum operating voltage	U_c	385V AC			
Nominal discharge current (8/20μs)	I_n	40kA	60kA	80kA	100kA
Maximum discharge current (8/20μs)	I_{max}	80kA	100kA	120kA	150kA
Voltage protection level	U_p	⩽2,4kV	⩽2,5kV	⩽3,0kV	⩽3,5kV
Response time	t_a	<25ns			
Cross–section of connected conductors solid(min/max)		16mm²/35mm²			
Cross–section of connected conductors stranded(min/max)		16mm²/35mm²			
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		1,5mm²			
Degree of protection		IP20			
Range of operating temperatures (min/ max)		–40℃~+85℃			
Humidity range		5%~95%			
Mounting		DIN rail 35 mm			
According to standard		EN 61643–11:2012,IEC 61643–11:2011/T2			
Remarks		Other Uc can be customized.(420VAC,385VAC,320VAC,etc.)			

AC SPD Wiring diagram

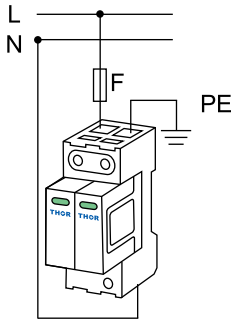
Single phase system



"1+0"
Connection

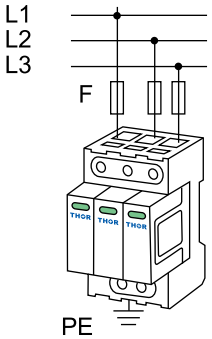


"2+0"
Connection

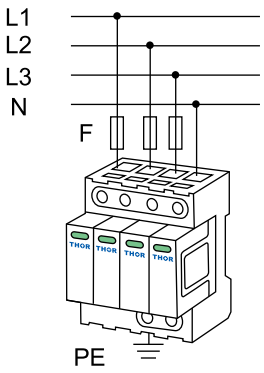


"1+1"
Connection

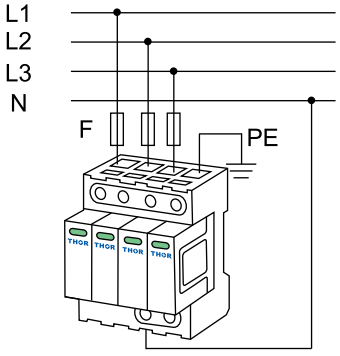
Three phase system



"3+0"
Connection

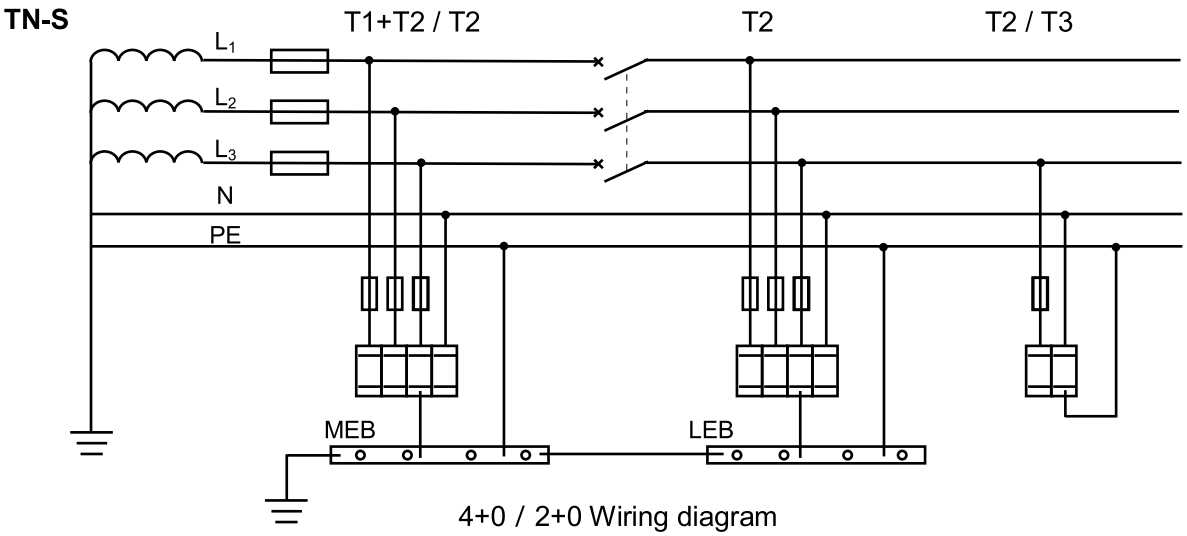


"4+0"
Connection



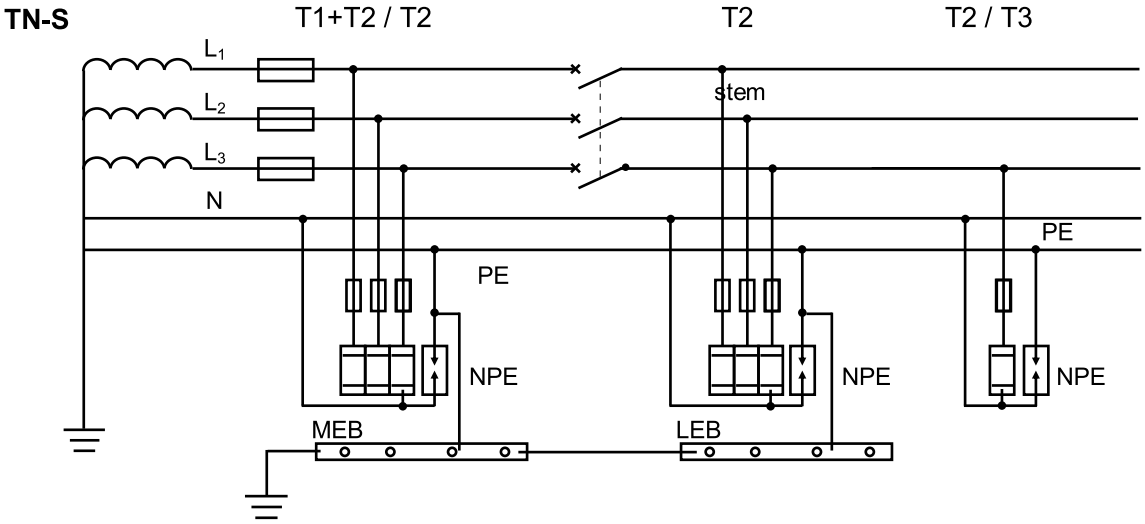
"3+1"
Connection

Connection of AC SPD in networks

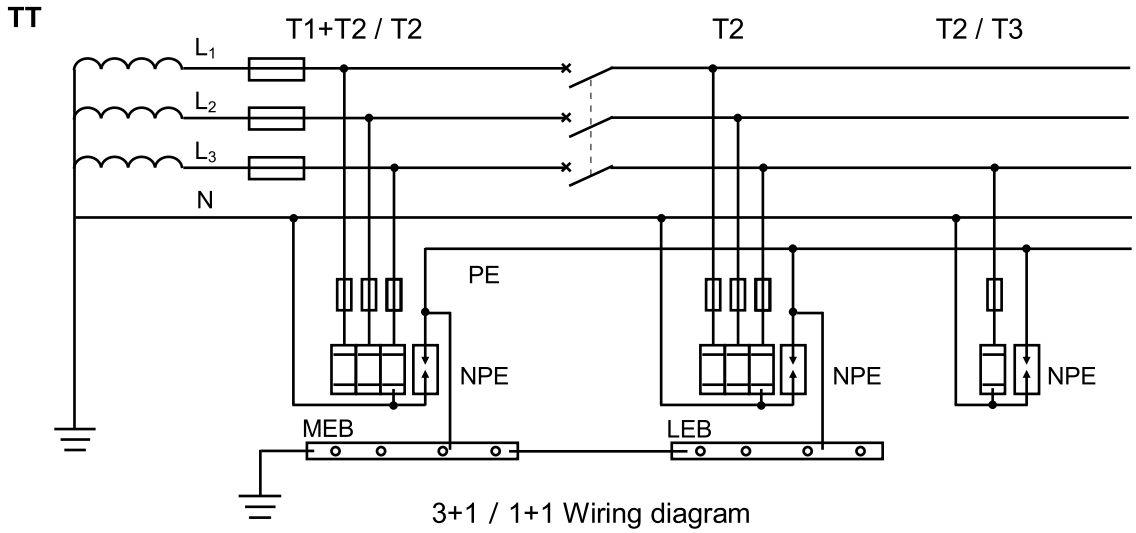


4+0 / 2+0 Wiring diagram

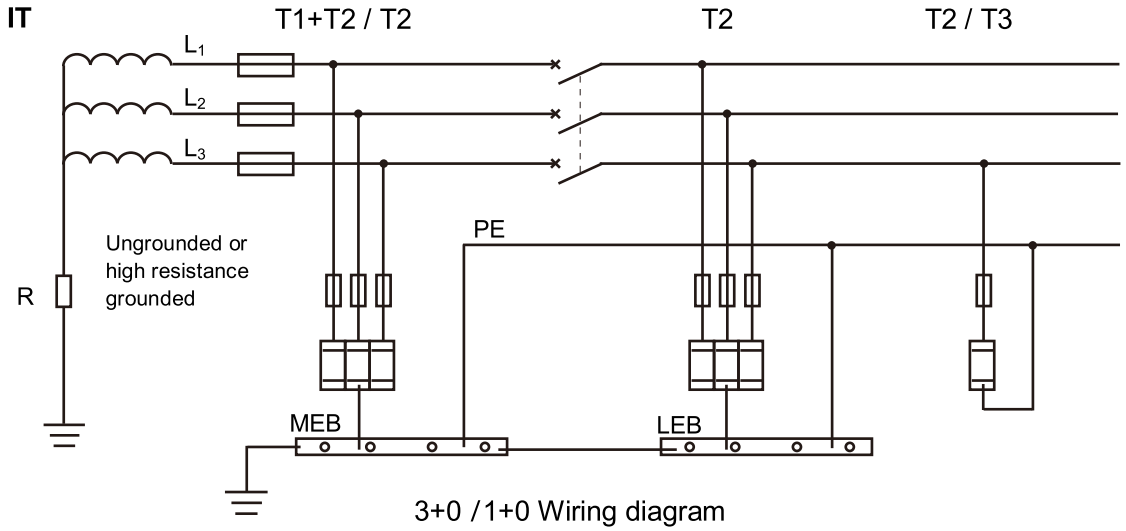
Connection of AC SPD in networks



3+1 / 1+1Wiring diagram



3+1 / 1+1 Wiring diagram



3+0 /1+0 Wiring diagram