FRS4 Series SPD

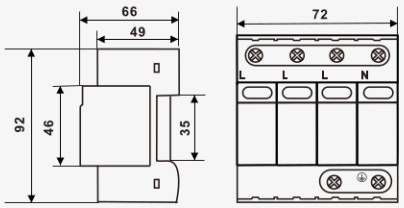
SPD type 2–surge arrester, MOV

Pluggable module, visual fault signalling

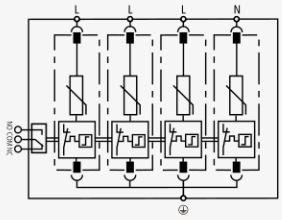
- Varistor surge arrester
- Installtion to sub–distribution boards
- For protection of installations and equipments againt impact of induced overvolatge during a lightning strike or switching overvolatges.
- Optional remote fault signalling(s)

Product

Dimension



Basic circuit diagram

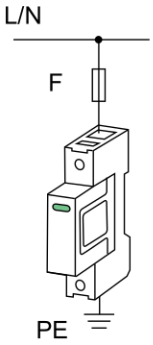


T2 AC SPD

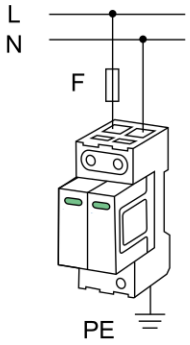
Parameter/Type		FRS4-D20		FRS4-C40		FRS4-B60
Nominal volatge	U_n	230 V AC				
Maximum operating voltage	U_c	275 V AC	320 V AC	275 V AC	320 V AC	275 V AC
Nominal discharge current (8/20μs)	I_n	10kA		20kA		30kA
Maximum discharge current (8/20μs)	I_{max}	20kA		40kA		60kA
Voltage protection level	U_p	⩽1,0 KV	⩽1,2KV	⩽1,3 KV	⩽1,5 KV	⩽1.5 KV
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℃~+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

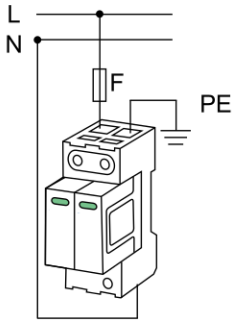
Single phase system



"1+0"
Connection

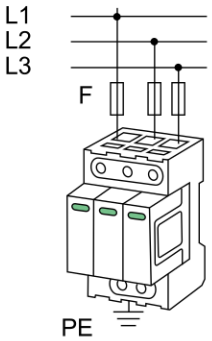


"2+0"
Connection

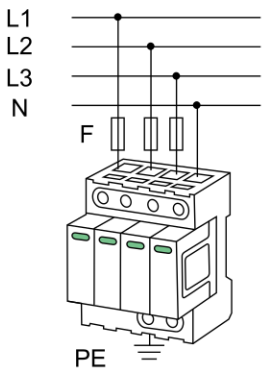


"1+1"
Connection

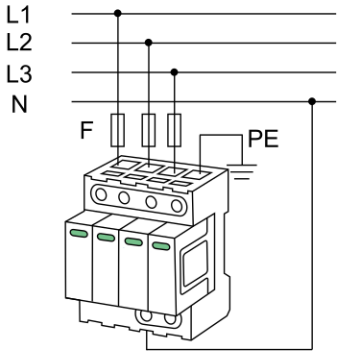
Three phase system



"3+0"
Connection

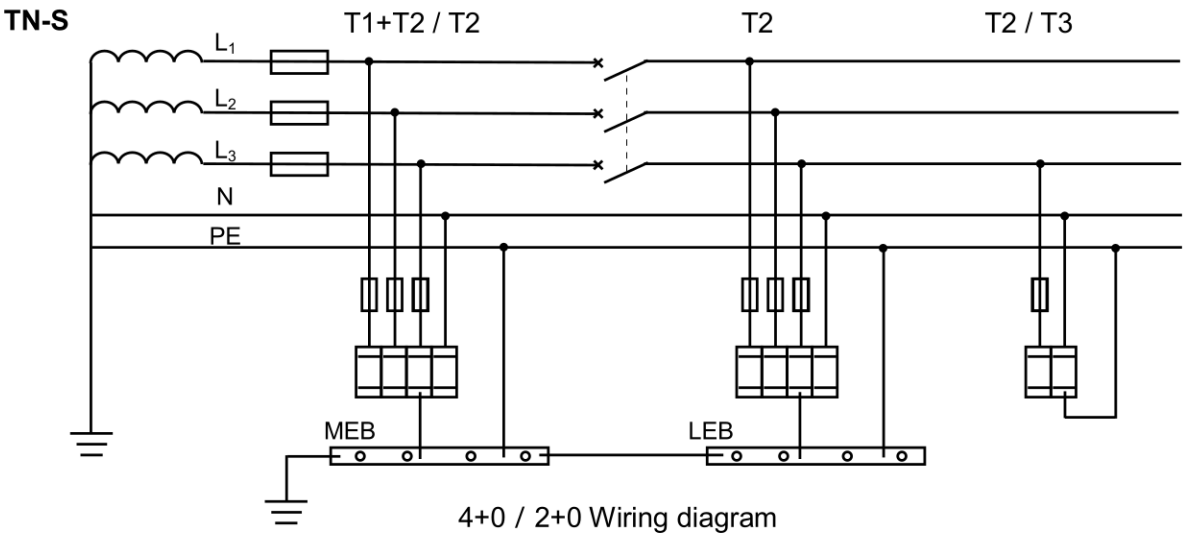


"4+0"
Connection



"3+1"
Connection

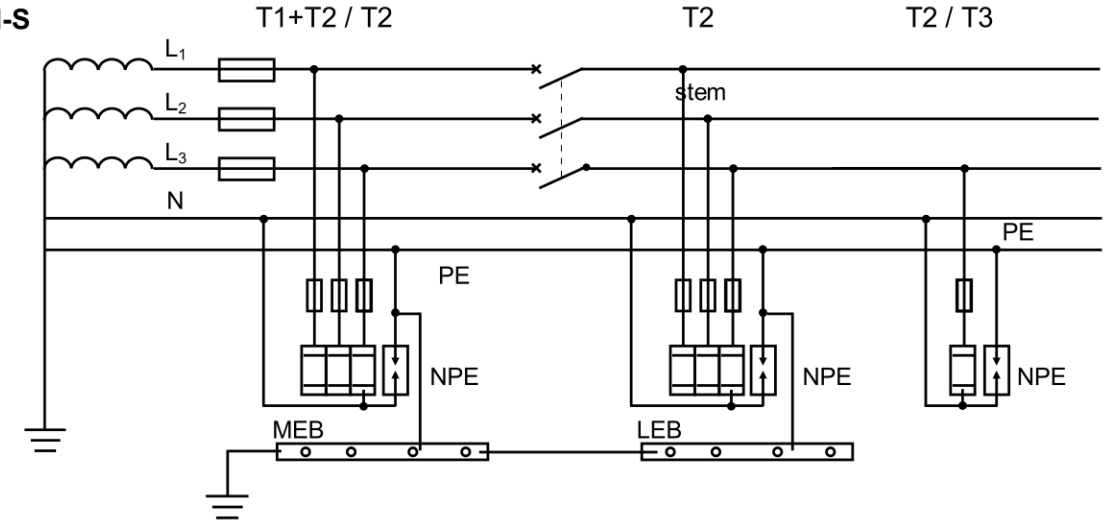
Connection of AC SPD in networks



4+0 / 2+0 Wiring diagram

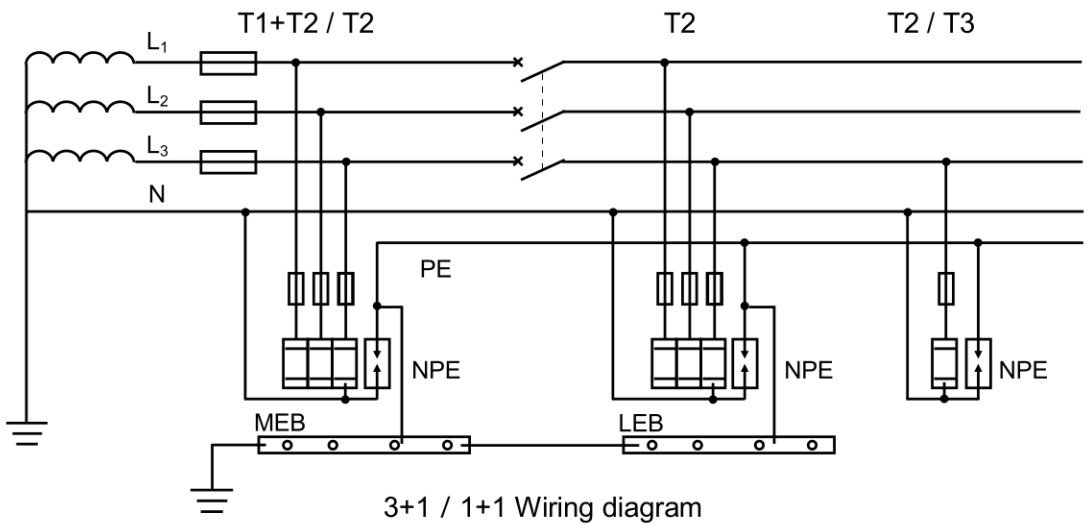
Connection of AC SPD in networks

TN-S



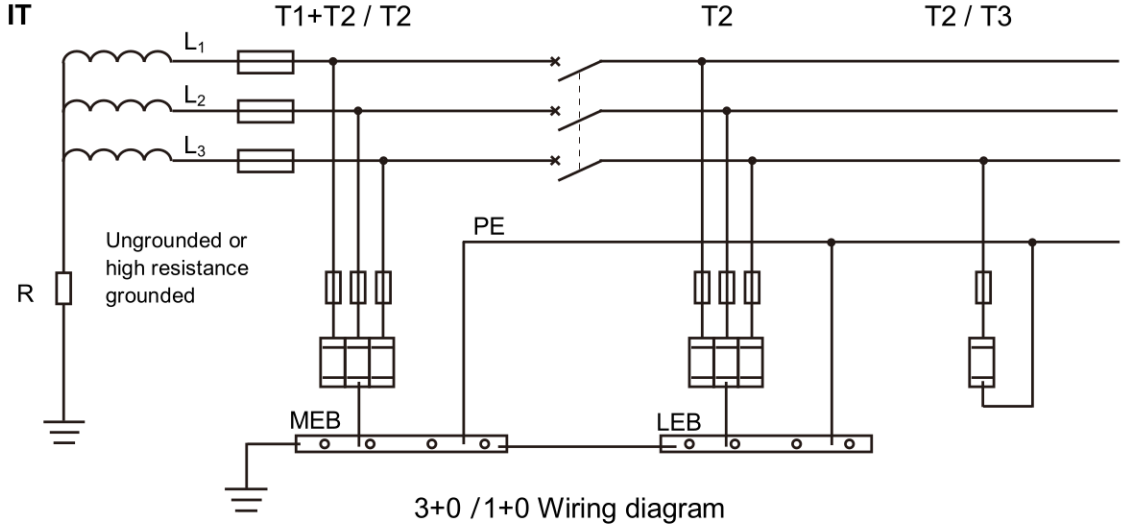
3+1 / 1+1Wiring diagram

TT



3+1 / 1+1 Wiring diagram

IT



3+0 /1+0 Wiring diagram