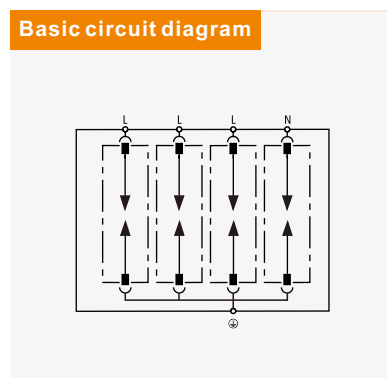
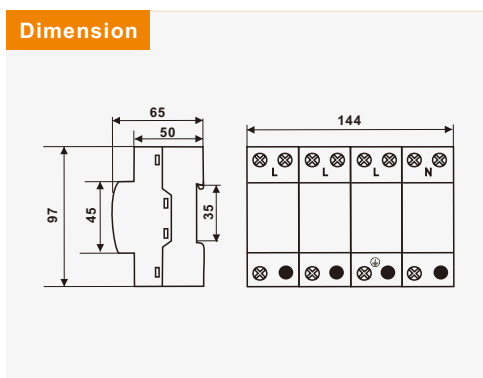


## TRS-A Series SPD

SPD type 1–surge arrester, Graphite gap  
visual fault signalling

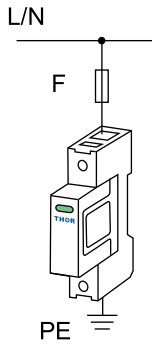
- Graphite gap surge arrester
- For protection against impact direct or indirect lightning strikes in wide range of applications –houses, office and industrial buildings
- Installation to main distribution boards



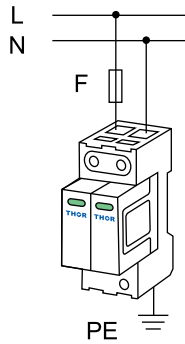
Parameter/Type		TRS-A15	TRS-A25	TRS-A50
Nominal voltage	$U_n$	230V AC		
Maximum operating voltage	$U_c$	275V AC		
Lightning impulse current (10/350 $\mu$ s)	$I_{imp}$	15kA	25kA	50kA
Voltage protection level	$U_p$	$\leq 2,0kV$	$\leq 2,2kV$	$\leq 2,5kV$
Insulation resistance group		$> 100m\Omega$		
Response time	$t_a$	$< 100ns$		
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		—		
Degree of protection		IP20		
Range of operating temperatures (min/ max)		$-40^{\circ}C \sim +85^{\circ}C$		
Humidity range		5%~95%		
Mounting		DIN rail 35 mm		
According to standard		EN 61643-11:2012, IEC 61643-11:2011/T1		
Remarks		Other $U_c$ can be customized. (420VAC, 385VAC, 320VAC, etc.)		

# AC SPD Wiring diagram

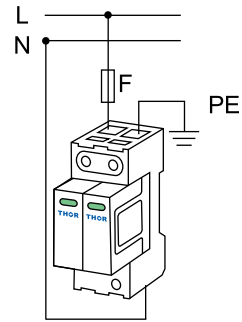
## Single phase system



"1+0"  
Connection

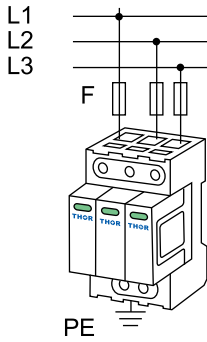


"2+0"  
Connection

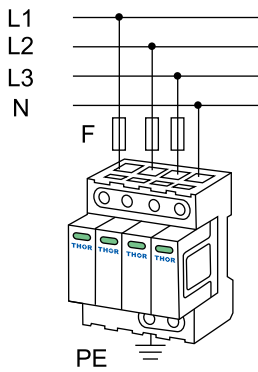


"1+1"  
Connection

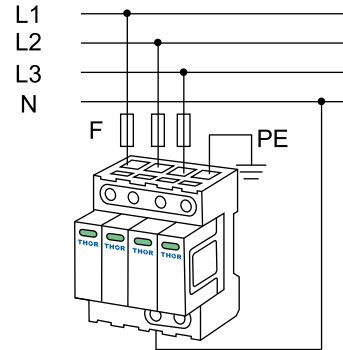
## Three phase system



"3+0"  
Connection

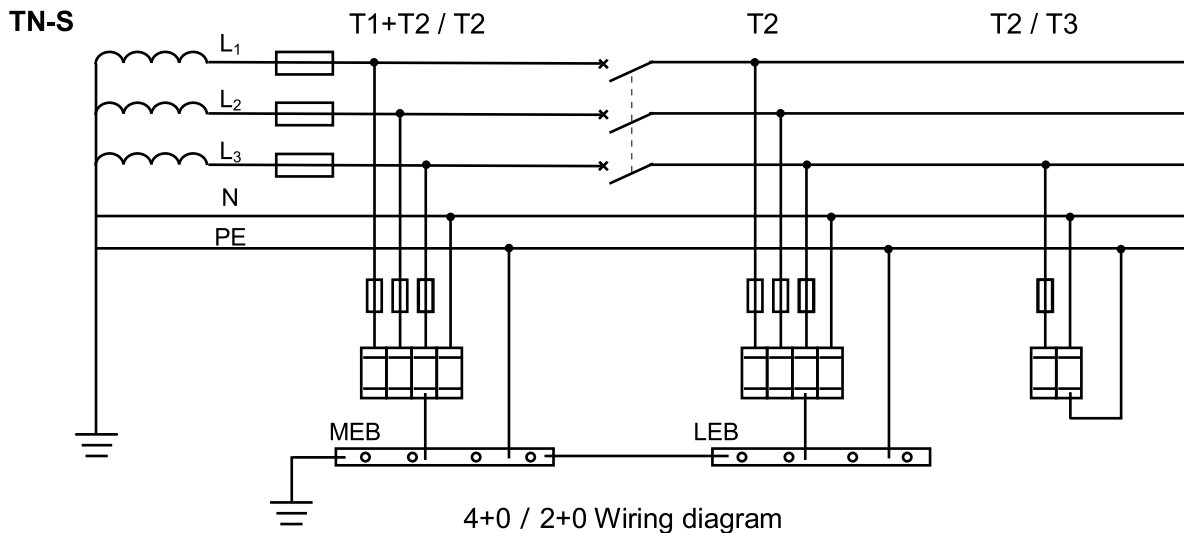


"4+0"  
Connection



"3+1"  
Connection

# Connection of AC SPD in networks



# Connection of AC SPD in networks

