

T123PA-3V+G-1-275R

Three Phase T1/2/3 Lightning and surge arrester for LPL I and II



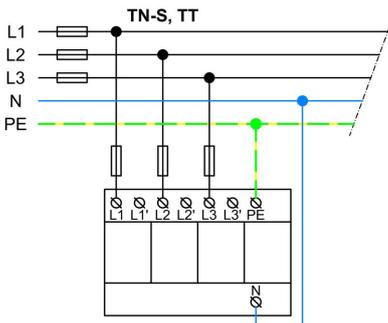
This range of lightning and surge arresters are configured in 3+1 and 1+1 (CT2 according to BS 7671), allowing for installation in TN-S, TN-C-S and TT earthing systems. This configuration is required for TT earthing systems where an RCD is not used, or the surge arrester is installed on the supply side of the RCD. These arresters are designed for use at the boundary of LPZ 0 to LPZ 1 in structures of LPL I and LPL II (Class I and II Lightning Protection System) as a Type 1 lightning arrester. They are also Type 2 and Type 3 tested for use in sub-distribution boards and local equipment protection.



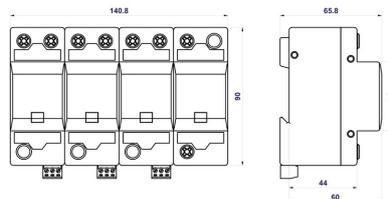
Characteristics	
Test class according to EN 61643-11	T1, T2, T3
Earth type	TT; TN-S; TN-C-S
Number of poles	4
Nominal operating voltage, L to N	U_N 230V~
Maximum continuous operating voltage, L to N	U_C 275V~
Maximum continuous operating voltage, N to PE	U_C 255V~
Maximum discharge current, 8/20µs	I_{max} 50kA
Impulse discharge current, Class I, L to N, 10/350µs	I_{imp} 25kA
- Charge	Q 12.5As
- Specific energy	W/R 156kJ/Ω
Impulse discharge current, Class I, N to PE, 10/350µs	I_{imp} 100kA
- Charge	Q 50As
- Specific energy	W/R 2500kJ/Ω
Total discharge current, 10/350µs (L1+L2+L3+N to PE)	I_{total} 100kA
Total discharge current, 8/20µs (L1+L2+L3+N to PE)	I_{total} 150kA
Nominal discharge current, Class II, L to N, 8/20µs	I_n 25kA
Nominal discharge current, Class II, N to PE, 8/20µs	I_n 25kA
Open circuit voltage of combination wave generator	U_{oc} 6kV
Voltage protection level at I_n , L to N	U_p <1.2kV
Voltage protection level at I_n , N to PE	U_p <1.3kV
Temporary overvoltage, 5s, L to N	U_T 337V~
Temporary overvoltage, 120min, L to N	U_T 440V~
Temporary overvoltage, 0.2s, N to PE	U_T 1200V~
Response time, L to N	t_A 25ns

Characteristics	
Response time, N to PE	t_A 100ns
Maximum backup fuse	250A gG/gL
Residual current	I_{PE} ≤5µA
Short-circuit current rating at max. backup fuse	I_{SCCR} 80kA rms
Lightning protection zone (LPZ)	0 to 3
Housing material	PA6, VL94-V0
Ingress Protection rating	IP 20
Operating temperature	-40 to +70°C
Operating Humidity	5 to 95%
Recommended cable size for T1, L and N	6 to 25mm ²
Recommended cable size for T1, PE	16 to 25mm ²
Recommended cable size for T2, L and N	2.5 to 25mm ²
Recommended cable size for T2, PE	6 to 25mm ²
Cable size range, Stranded	2.5 to 25mm ²
Cable size range, Solid	2.5 to 35mm ²
Torque for main terminals	3Nm
Mounting method	35mm DIN rail
Modular width	8
Mounting orientation	Any
Location	Indoor
Status Indication	
Local status indication	Mechanical Flag
Remote status indication	Switching contacts
Contact rating	AC: 250V, 1.5A; DC: 250V, 0.1A
Parts and Accessories	

Wiring Diagram



Dimensions (mm)



Internal Configuration

