GCL N/PE 275V

Monopolar Class I SPD (IEC 61.643-1) with Gas Discharge Tube (GDT) technology.

- High drain capacity impulse currents at 10/350 μs waveform;
- Direct connection to electrical bus at IEC or NEMA standard distribution boards;

Applications

Protection of electronic and professional equipments directly connected to the electric power lines against overvoltages originated by atmospheric discharge (lightning) or electrical switching of power lines.
Suitable for installation between neutral and ground in distribution or control boards.

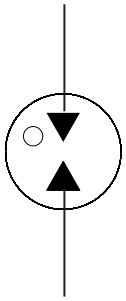
GCL N/PE 275V is a monopolar Class I SPD, a voltage commuter device type, made of Gas Discharge Tube technology (GTD), with surge current drain capacity up to 100 kA, at 10/350 μs waveform and 150 kA at 8/20 μs.
For many times it may actuate without the need of substitution. An open circuit is its end of lifetime.
Its modular conception makes easy to connect many SPD together in a single mounting plan, directly or not to the electrical bus, as well as to other components of the electric circuit distribution boards.
GCL N/PE 275V has a thermoplastic isolating housing, fireless propagating and with V-0 flammability degree, according to UL 94.
It can be provided optionally with a test device that makes it possible to check the operation status of the GCL, indicating its use condition.

Characteristics	Un.	GCL N/PE 275V		
		25 kA	50kA	100kA
Standards	-	IEC 61643-1 / UL 1449		
Response time	ns	< 100		
Maximum short-circuit current without back-up fuse	kA	10		80
Back-up fuse	A	250 - gL/gG Class		
Operation temperature	°C	- 40.... + 80		
Cross-section	mm²	4...25		4...35
Mounting type	-	35 DIN rail or NEMA grips		35 DIN rail
Protection type acc. to IEC 60 529/ EN 60 529	IP	20		
Housing	-	Reinforced Polyamide box with glass fiber UL 94 V-0		
DIN 43880 Dimension	Mod.	1		2
Dimension	mm	90 x 64 x 17.5		90 x 67 x 36.2

Performance Characteristics:

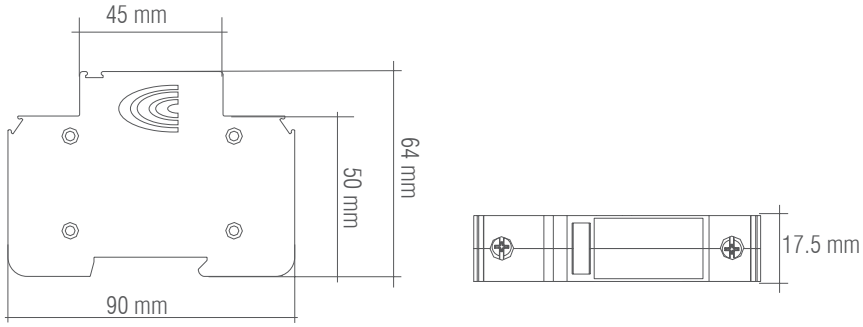
GCL N/PE 275V	Maximum Continuous Operation Voltage		Nominal Current at 8/20 μs	Maximum Nominal Current at 8/20 μs	Maximum Impulse Current at 10/350 μs	Subsequent Interruption Current	Specific Energy	Charge	Protection Level	Weight
Model	Uc		I_N	$I_{MÁX}$	I_{IMP}	I_{FI}	W/R	Q	U_P	g
	Ac	Dc								
GCL N/PE 275V 25kA SLIM	275 V	275 V	20 kA	50 kA	25 kA	0.1 kA	156 kJ/Ω	12,5 As	< 1.3 kV	90
GCL N/PE 275V 50kA SLIM	275 V	275 V	60 kA	120 kA	50 kA	0.1 kA	625 kJ/Ω	25,0 As	< 1.3 kV	115
GCL N/PE 275V 100kA	275 V	275 V	75 kA	150 kA	100 kA	0.1 kA	2500 kJ/Ω	50,0 As	< 1.3 kV	210

Electrical Circuit:



Mechanical Drawing:

Mod. 1



Mod. 2