



SG Spark Gap Arresters

Novaris SG Spark Gap Arresters have high surge ratings suitable for point of entry protection in installations with highly exposed overhead LV power lines with no local transformer. These are triggered spark gaps resulting in relatively low let through voltages sufficient to protect switchgear in main switchboards.

SG 1 - 50 - 275 - [*]



SG1-50-255

SG1-110-275

SG3-50-255

SG3-110-275

SGN-100-275

Electrical Specifications						
Connection type		Shunt				
Modes of protection		L-N	L-N	L-N	N-PE	
Phases		1	3	3	-	
Nominal voltage	U_o	230V / 50Hz				
Maximum continuous voltage	U_c	255V / 50Hz	275V / 50Hz	255V / 50Hz	275V / 50Hz	
Interrupting follow current @ U_c	I_{fi}	25kA _{RMS}	60kA _{RMS}	25kA _{RMS}	60kA _{RMS}	100A _{RMS}
Lightning impulse voltage sparkover (1.2/50µs)	U_p	<1.3kV	<2.5kV	<1.3kV	<2.5kV	<1.5kV
Maximum impulse current (10/350µs)	I_{imp}	50kA	110kA	50kA	110kA	100kA
Charge	Q	25As	55As	25As	55As	50As
Specific energy	W/R	600kJ/Ω	3000kJ/Ω	600kJ/Ω	3000kJ/Ω	2500kJ/Ω
Response time	t_A	<100ns				
Backup fuse (HRC)		315A	500A	315A	500A	-

Mechanical Specifications					
Operating temperature / humidity	-40 to +70°C / 5 to 95% non-condensing				
Terminal capacity	35mm ²	Lug Ø10	35mm ²	Lug Ø10	35mm ²
Terminal screw torque	2.5Nm		2.5Nm		2.5Nm
Environmental	IP 20	IP 00	IP 20	IP 00	IP 20
Mounting	TS35 DIN	Panel	TS35 DIN	Panel	TS35 DIN
Enclosure / colour	Flame retardant Polyamide 6 / Black				
Weight	230g	1.0kg	690g	3.0kg	210g

Dimensions					
Width	36mm	67mm	106mm	201mm	36mm
Height	90mm	150mm	90mm	150mm	90mm
Depth	67mm	94mm	67mm	94mm	67mm

Options [*]					
Neutral-earth protection		N			-
Metal enclosure			M		
Over / under voltage relay		O			-

Standards Compliance
IEC 61643-1 class I
AS/NZS 1768 category C
IEEE C62.41 category C
BS 6651 category C
CP 33 category C
IEC 1000-4-5