



### 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 - N



	SG1-50-255	SG1-110-275	SG3-50-255	SG3-110-275	SGN-100-275
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Electrical Specifications						
Connection type		Shunt				
Modes of protection		L-N		L-N		N-PE
Phases		1		3		-
Nominal voltage	$U_0$	230V / 50Hz				
Maximum continuous voltage	$U_c$	255V / 50Hz	275V / 50Hz	255V / 50Hz	275V / 50Hz	
Interrupting follow current @ $U_c$	$I_{fi}$	25kA <sub>RMS</sub>	60kA <sub>RMS</sub>	25kA <sub>RMS</sub>	60kA <sub>RMS</sub>	100A <sub>RMS</sub>
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 +80°C / 0 to 90% non-condensing				
Terminal capacity		35mm <sup>2</sup>	Lug Ø10	35mm <sup>2</sup>	Lug Ø10	35mm <sup>2</sup>
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