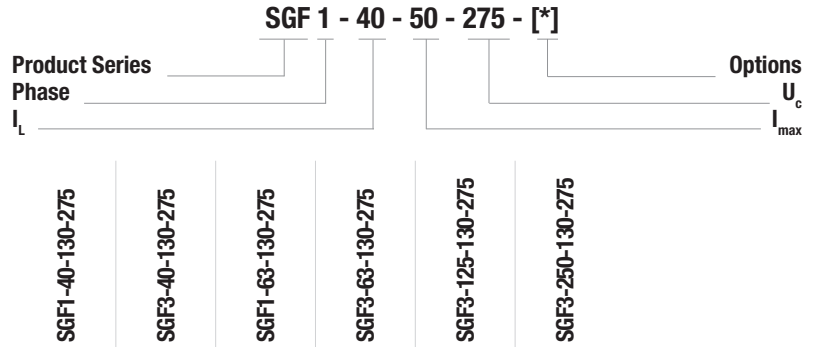




**SGF Spark Gap Surge Filters 40 – 250A**

Novaris SGF surge filters provide optimum Class I MSB and DB protection using robust spark gap technology in combination with a low pass L-C filter for critical equipment up to 250A per phase.



Electrical Specifications						
Connection type		Series				
Modes of protection		All mode (L-N, L-PE, N-PE)				
Nominal Voltage	$U_0$	230V / 50Hz (110V / 60Hz by request only)				
Maximum continuous voltage	$U_c$	275V / 50Hz (130V / 60Hz by request only)				
Phases		1	3	1	3	
Discharge current 8/20 $\mu$ s	$I_{max}$	130kA				
Discharge current 10/350 $\mu$ s	$I_{imp}$	50kA				
Maximum load current	$I_L$	40A	63A		125A	250A
Protection stages		Spark Gap / LC filter / metal oxide varistor				
Voltage protection @ 3kA (8/20 $\mu$ s)	$U_p$	<300V				
Response time	$t_A$	Instantaneous				
Earth leakage current		<1 $\mu$ A				
Maximum voltage drop (% of $U_0$ )	$\Delta U$	<1%				
3dB Frequency @ 50 $\Omega$		750Hz	420Hz		350Hz	200Hz
Displays		LED status				
Alarms		Overcurrent / thermal overload, SPDT contact				
Alarm isolation to active circuitry		4kV				

Standards Compliance	
IEC 61643-1 class I, II	
AS/NZS 1768 categories B, C	
IEEE C62.41 categories B, C	
BS 6651 categories B, C	
CP 33 categories B, C	
IEC 1000-4-5	
UL1449 third edition	

Mechanical Specifications						
Operating temperature / humidity		-40 to +70°C / 5 to 95% non-condensing				
Connection type		UIK35 Terminals				N/A
Terminal capacity - power		35mm <sup>2</sup>				Bus Bar / Lug
Terminal capacity - alarm		2.5mm <sup>2</sup>				
Terminal screw torque - power		2.0Nm				N/A
Terminal screw torque - alarm		0.5Nm				
Environmental		IP 55 in enclosure				
Mounting		Wall mount				
Weight (in enclosure)		9kg	18kg	10kg	20kg	25kg 90kg

Options [*]	
Metal enclosure IP 55	M

Dimensions (in enclosure)						
Width		310mm	426mm	310mm	426mm	710mm
Height		390mm	506mm	390mm	506mm	710mm
Depth		130mm		200mm		285mm