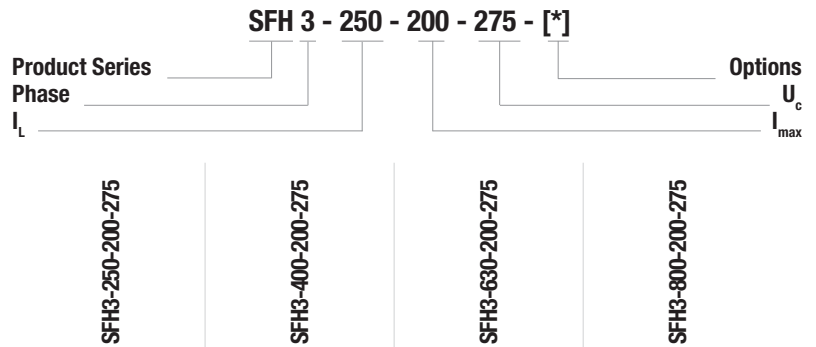
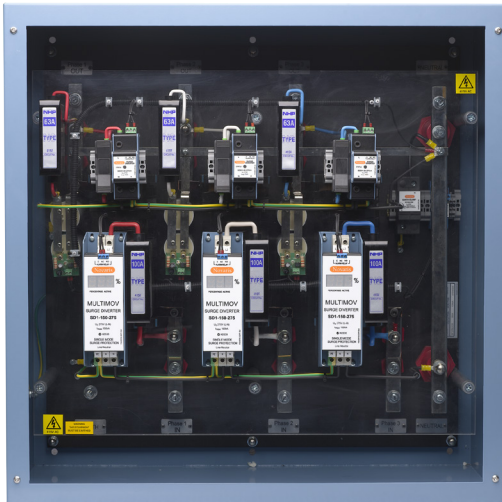


## SFH Surge Filters 250 – 800A

Novaris SFH surge filters provide the highest level of protection with the lowest let through voltage. When installed at a main switchboard Novaris surge filters will protect all connected equipment.



Electrical Specifications					
Connection type		Series			
Modes of protection		All mode (L-N, L-PE, N-PE)			
Nominal voltage	$U_0$	230V / 50Hz			
Maximum continuous voltage	$U_c$	275V / 50Hz			
Phases		3			
Discharge current 8/20 $\mu$ s	$I_{max}$	200kA	200kA	200kA	200kA
Nominal discharge current (15 x 8/20 $\mu$ s)	$I_n$	80kA	80kA	80kA	80kA
Maximum load current	$I_L$	250A	400A	630A	800A
Protection stages		Metal oxide varistor / LC filter / metal oxide varistor			
Voltage protection @ 3kA (8/20 $\mu$ s)	$U_p$	<360V			
Response time	$t_A$	Instantaneous			
Earth leakage current		<10 $\mu$ A			
Maximum voltage drop (% of $U_0$ )	$\Delta U$	<1%			
3dB Frequency @ 50 $\Omega$		200Hz	150Hz	80Hz	
Displays		7-segment LED, percentage active			
Alarms		Segment / thermal failure, clean SPDT contact			
Alarm isolation to active circuitry		4kV			

Standards Compliance	
IEC 61643-11 class I, II, III	
AS/NZS 1768 category C, B, A	
IEEE C62.41 category C, B, A	
IEC 1000-4-5	
UL1449 fourth edition	

Options [*]	
HRC fusing	H
Metal enclosure IP 55	M
Over / under voltage relay	O
Extended voltage (95-415V)	X
Spark Gap Frontend	G

Mechanical Specifications		
Operating temperature / humidity	-40 to +70°C / 5 to 95% non-condensing	
Connection type	Bus bar / cable lug	
Alarm terminal capacity	2.5mm <sup>2</sup>	
Terminal screw torque	0.5Nm	
Environmental	IP 55 in enclosure	
Mounting	Wall mount	
Weight	90kg	160kg

Dimensions (in enclosure)		
Width	710mm	800mm
Height	710mm	1200mm
Depth	285mm	400mm