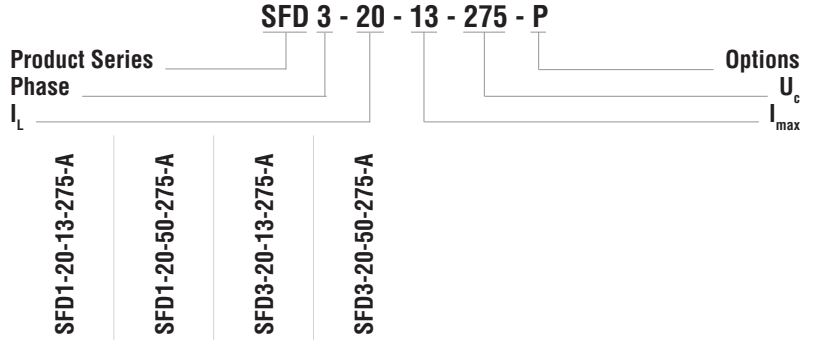


### SFD Surge Filters 20A

Novaris SFD surge filters provide the highest level of protection for critical and essential equipment up to 20A per phase.



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		1		3	
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	13kA	50kA	13kA	50kA
Maximum load current	$I_L$	20A			
Protection stages		Metal oxide varistor / LC filter / metal oxide varistor			
Voltage protection level @ 3kA (8/20 $\mu$ s)	$U_p$	<700V			
Response time	$t_A$	Instantaneous			
Earth leakage current		<500 $\mu$ A			
Maximum voltage drop (% of $U_0$ )	$\Delta U$	<1%			
Displays (optional)		LED power and status			
Alarms (optional)		Overcurrent / thermal, SPDT contact			
Alarm isolation to active circuitry		4kV			

Mechanical Specifications	
Operating temperature / humidity	-40 to +40°C / 0 to 90% non-condensing
Terminal capacity - power	16mm <sup>2</sup>
Terminal capacity - alarm	2.5mm <sup>2</sup>
Terminal screw torque - power	1.0Nm
Terminal screw torque - alarm	0.5Nm
Environmental	IP 20
Mounting	TS35 DIN rail
Weight	1.05kg      1.55kg

Dimensions	
Width	118mm      180mm
Height	95mm
Depth	78mm

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

Options					
LED indication and external alarm	Standard				
LED indication only	L				
Polycarbonate enclosure	P				
Voltage variation	$U_c$	50V / 130V	130V	50V / 130V	130V