



SFD Surge Filters - Single Phase

Novaris SFD surge filters provide the highest level of protection for critical and essential equipment up to 32A per phase. Their compact design makes them an ideal choice for space restricted applications.

Product Series		SFD 1 - 32 - 100 - 275 - [*]		Options	
Phase				U_c I_{max}	

Electrical Specifications								
Connection type		Series						
Modes of protection		All mode (L-N, L-PE, N-PE)						
Phases		1						
Nominal voltage	U ₀	230V / 50Hz						
Maximum continuous voltage	U _c	275V / 50Hz						
Maximum load current	I _L	2A	6A	10A	20A		32A	
Maximum discharge current (8/20μs) (L-N)	I _{max}	10kA		50kA	50kA	100kA	50kA	100kA
Nominal discharge current (15 x 8/20μs)	I _n	5kA		20kA		40kA	20kA	40kA
Protection stages		Metal oxide varistor / LC filter / metal oxide varistor						
Voltage protection level @ 3kA (8/20μs)	U _p	<700V			<600V			
Response time	t _A	Instantaneous						
Earth leakage current		<500μA			<10μA			
Maximum voltage drop (% of U ₀)	ΔU	<1%						
Display		LED status optional			LED status			
Alarms (optional)		-			Segment / thermal failure, clean SPDT contact			
Alarm isolation to active circuitry		-			4kV			

Mechanical Specifications							
Operating temperature / humidity	-40 to +70°C / 5 to 95% non-condensing						
Connection type	Screw terminal						
Terminal capacity - power	2.5mm²	16mm²					
Terminal capacity - alarm	2.5mm²						
Terminal screw torque - power	0.5Nm	1.0Nm					
Terminal screw torque - alarm	0.5Nm						
Environmental	IP 20						
Mounting	TS35 DIN rail						
Enclosure / colour	Metal / Black						
Weight	200g	440g	600g	605g	625g	730g	750g

Dimensions				
Width	18mm	54mm	72mm	108mm
Height	116mm	95mm		
Depth	70mm	70mm		

Options [*]		
LED indication and external alarm	L (LED only)	A
Polycarbonate enclosure	P	

Standards Compliance

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