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POWER PROTECTION
Surge Protection Solutions

CAPABILITY



Novaris has designed and manufactured lightning and surge protection systems since 1993. We specialise in the protection of power and data systems and we are now world leaders in lightning and surge protection technology. At our Australian headquarters we operate a full time research and development facility. Our testing laboratory is capable of generating and measuring simulated lightning impulses in accordance with all major world standards.

CUSTOM SOLUTIONS



Novaris can custom design a lightning and surge protection solution to suit your particular application. We can provide consultancy services including site inspection, risk assessment and detailed recommendations for protection methods in accordance with national and international standards.



Surge Diverters - Cat C1, C2, C3
Novaris SDD surge diverters provide primary surge protection for main switchboards and major distribution boards in accordance with AS/NZS 1768:2007 specifications. All SDD models are housed in metal DIN compliant enclosures and provide all mode protection for worldwide application. Single and three phase models up to I_{max} of 100kA are available.

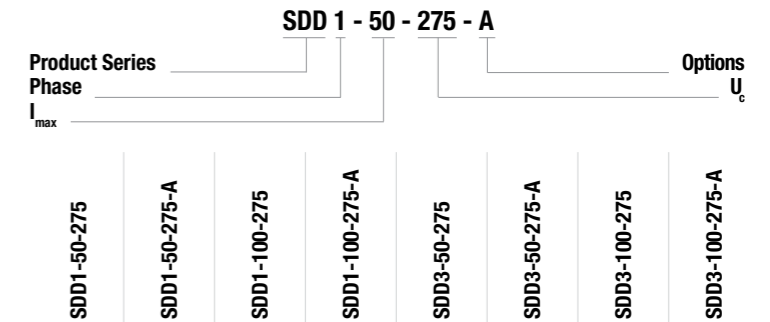
Surge Diverters - Cat B
Novaris SDD surge diverters provide secondary surge protection for distribution switch boards in accordance with AS/NZS 1768:2007 specifications. All SDD models are housed in metal DIN compliant enclosures and provide all mode protection for worldwide application. Single and three phase models up to I_{max} of 100kA are available.

SDD models that are fitted with an external alarm option are fully fail safe and will indicate the failure of the MOV and also the loss of power due to a tripped circuit breaker.



SDD DINsafe Surge Diverters

Novaris SDD DINsafe Surge Diverters offer powerful performance at domestic MSB and industrial DBs. The SDD diverters are housed in DIN compliant, fail-safe metal enclosures and are fully compliant to AS/NZS1768-2007 and to AS/NZS3000 wiring rules.



Electrical Specifications		SDD1-50-275		SDD1-100-275		SDD3-50-275		SDD3-100-275	
Connection type		Shunt							
Modes of protection		All mode (L-N, L-PE, N-PE)							
Phases		1		3					
Nominal voltage	U ₀	230V / 50Hz							
Maximum continuous voltage	U _c	275V / 50Hz							
Maximum discharge current (8/20μs)	I _{max}	50kA	100kA	50kA	100kA	50kA	100kA	50kA	100kA
Nominal Discharge Current (8/20μs)	I _n	20kA	40kA	20kA	40kA	20kA	40kA	20kA	40kA
Maximum switchboard fault rating	I _{SCCR}	25kA	50kA	25kA	50kA	25kA	50kA	25kA	50kA
Voltage protection level @ 3kA (8/20μs)	U _p	<800V							
Response time	t _A	<5ns							
Earth leakage current		<10μA							
Display		LED status per phase							
Alarms (optional)		Power fail safe, thermal overload, SPDT voltage free contact							
Alarm isolation		4kV							
Maximum backup fuse (HRC)		63A	125A	63A	125A	63A	125A	63A	125A
Recommended fuse		32A	63A	32A	63A	32A	63A	32A	63A

Mechanical Specifications		SDD1-50-275		SDD1-100-275		SDD3-50-275		SDD3-100-275	
Operating temperature / humidity		-40 to +80°C / 0 to 90% non-condensing							
Terminal capacity - power		16mm ²							
Terminal capacity - alarms		2.5mm ²							
Terminal screw torque - power		2.0Nm							
Terminal screw torque - alarm		0.5Nm							
Environmental		IP 20							
Mounting		TS35 DIN rail							
Enclosure / Colour		Metal / black							
Weight		150g	230g	250g	260g	355g	370g	485g	495g

Dimensions		SDD1-50-275		SDD1-100-275		SDD3-50-275		SDD3-100-275	
Width		18mm	36mm	54mm	72mm	54mm	72mm	54mm	72mm
Height		95mm							
Depth		70mm							

Standards Compliance
IEC 61643-1 class II
AS/NZS 1768 categories B, C
IEEE C62.41 categories B, C
UL1449 third edition

Options		SDD1-50-275		SDD1-100-275		SDD3-50-275		SDD3-100-275	
External alarm		N/A	Standard	A	Standard	A	Standard	A	Standard
Polycarbonate enclosure		P							

