Generic Solid-State Decoupling Device Data Sheet (SSD)

Performance Specification	
Product Option	Solid State Decoupler (SSD)
Steady state AC current	45A
AC fault current rating	1.2kA; 2kA; 3.7kA; 5kA @ 500 mSec. (30 Cycles)
50/60Hz AC impedance	0.04Ω
Impulse Current Rating (Lightning)	Class 1 100kA @ 10/350 µSec IEC 61643-1
Front of Wave spark over voltage	≤500V 1.2/50 µSec IEC 61643-1
DC Thresholds available	+2/-2V; +2/-5.6V; +2/-9.2V; +2/-12.8V; +2/-16.4V; +2/-20V
DC Leakage (blocked state)	≤ 1mA
Peak Inverse Voltage	1800V
Max Forward current	140A through 380A depending on range selection
Ambient Temperature	-15 °C to +60°C (5 °F to 140 °F)
Protection against direct contact	No direct contact IEC 60529 test finger

Environment classification	
Hazardous Area Classification	None
Environment enclosure classification Non-Hazardous	IP67 (Water Submersible) - Appropriate polymer based on application
Environment enclosure classification Hazardous	IP67 (Water Submersible)
Housing Type	Application specific
Terminals	Male bolting facility 8mm / 25mm² Cable Leads
Cable Sizes	**Warning:** transient nature of surges introduce volt drop issues associated with cable impedance. Length of cable is therefore critical to ensure appropriate application. Max suggested length is 16.4ft (5m).

Relevant Standards	
NFPA 70 - NEC	National Electrical Code – National Fire Prevention Association
NEMA / Ingress Protection	Ingress Protection ratings & Environmental applications – European & USA
IEC 62271-1	International Standards HV Control Gear – Sub clause 6.6
IEC 61643-1	Low-Voltage surge devices
IEC 60529	Degrees of protection provided by enclosures
IEC 10108	Hazardous Area Classification

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