

Airfield Lighting Protection



- High nominal operating voltage allows use on most airfield lighting systems.
- 40kA 8/20us surge rating, may be paralleled up for higher ratings with redundancy.
- Indication flag – provides clear visual indication of life status.
- Internal thermal disconnecter – provides safe disconnect should unit receive an excessive surge.
- 35 mm DIN 43 880 profile – allows convenient mounting.
- Five year limited warranty.

Today's airfield lightning systems include approach, threshold, runway and taxiway systems, vital for airfield operation. These systems are typically spread over a large area, and are consequently susceptible to damage by direct lightning strikes to the systems. Additionally, a nearby strike on the airfield can result in induced surges also causing damage. Such damage can result in compromised safety and downtime to airfield operations.

CRITEC's higher voltage DSDs provide transient protection for these lighting systems. Large incoming surge impulses are easily diverted safely to earth by the Metal Oxide Varistor based protectors.

The high nominal operating voltage allows their use on most systems, and the 40kA surge rating provides robust protection. If desired, two or more units may be paralleled for higher surge ratings thereby providing operational redundancy.

In a first for this type of protector, they incorporate internal thermal safety disconnects, ensuring safe disconnection in the event of the unit reaching its end of life, and allowing the lighting system to remain operational.

Model	DSD140 2S 2400
Nominal System Voltage, U_n	2.2kV _{AC} / 3.1kV _{DC}
Max. Continuous Operating Voltage, U_c	2.4kV _{AC}
Maximum surge current, I_{max}	40kA 8/20μs
Technology Used	High Voltage MOV protection
Protection Modes	Common mode, differential mode
Dimensions	90 mm x 36 mm x 68 mm
Connections	Terminals accept up to 35 mm ² (#2AWG) solid conductors, or 25 mm ² (#4AWG) stranded.
Temperature	-40°C to +80°C (-13°F to +149°F)
Humidity	0 to 90%
Enclosure	DIN 43 880, UL94-V0 thermoplastic, IP20 (NEMA-1)
Surge Rated to Meet	ANSI/IEEE C62.41-1991 Cat A, Cat B, Cat C
Warranty	5 years

