

## Surge Protection Solutions

# Strikesorb® 80 Module Series

Strikesorb 80-A • Strikesorb 80-B • Strikesorb 80-C  
Strikesorb 80-D • Strikesorb 80-E • Strikesorb 80-F

The unique patented design of the Strikesorb® provides uninterrupted protection from damage caused by electrical surges or direct lightning strikes. Strikesorb's maintenance free design absorbs and dissipates the excess energy of successive surges without performance deterioration, successfully preventing electrical surges or lightning strikes from damaging mission-critical equipment in telecommunications, power generation, defense, transportation and other industrial applications.

## Strikesorb®



Strikesorb incorporates a single, heavy duty, distribution grade Metal Oxide Varistor (MOV) disk, assembled under pressure in an environmentally sealed aluminum casing. This unique design provides very low internal contact resistance, excellent thermal management of the MOV and uniform distribution of the surge current over the total area of the protection element, thus resulting in an extremely high energy handling capability combined with very low let through voltages. Strikesorb's patented design minimizes the effects of ageing and completely eliminates the risk of catastrophic failure, explosion or fire, which are common in conventional surge protection devices.

The Strikesorb design incorporates state of the art MOV technology developments providing superior protection characteristics, which remain unchanged throughout its long service life. The module has been designed to withstand repeated surges providing a cost-effective and maintenance free operation in harsh environments.

Strikesorb is rated for safe operation without the use of internal fuses. This unique feature makes it the most reliable surge protection device known and insures that critical electronic equipment will remain protected at all times.

**SPECIFICATIONS**

Surge Protection Solutions  
**Strikesorb® 80 Module Series**

Strikesorb 80-A • Strikesorb 80-B • Strikesorb 80-C • Strikesorb 80-D • Strikesorb 80-E • Strikesorb 80-F

**Strikesorb®**

Electrical	Strikesorb 80-A	Strikesorb 80-B	Strikesorb 80-C	Strikesorb 80-D	Strikesorb 80-E	Strikesorb 80-F
Surge Protective Device (SPD) Type per UL 1449 4 <sup>th</sup> Edition	Type 2 Component Assembly	Type 2 Component Assembly	Type 2 Component Assembly	Type 2 Component Assembly	Type 2 Component Assembly	Type 2 Component Assembly
Surge Protective Device (SPD) Class per IEC 61643-11	Class I	Class I	Class I	Class I	Class I	Class I
Nominal Operating AC Voltage [U <sub>n</sub> ]	120V	240V	277V	480V**	480V	600V
Maximum Continuous Operating AC Voltage [U <sub>c</sub> ]	150V	300V	350V	550V***	600V	750V*
Temporary AC Overvoltage Withstand [U <sub>t</sub> ] for 5s per IEC 61643-11	229V	442V	528V	716V	918V	1143V
Response Time [t <sub>A</sub> ]	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns
Nominal Discharge Current [I <sub>n</sub> ] per UL 1449 4 <sup>th</sup> Edition	20 kA 8/20 μs	20 kA 8/20 μs	20 kA 8/20 μs	20 kA 8/20 μs	20 kA 8/20 μs	20 kA 8/20 μs
Impulse Discharge Current [I <sub>imp</sub> ] per IEC 61643-11	25 kA 10/350 μs	25 kA 10/350 μs	25 kA 10/350 μs	25 kA 10/350 μs	25 kA 10/350 μs	25 kA 10/350 μs
Maximum Surge Current Capacity [I <sub>max</sub> ]	200 kA 8/20 μs	200 kA 8/20 μs	200 kA 8/20 μs	200 kA 8/20 μs	200 kA 8/20 μs	200 kA 8/20 μs
Voltage Protection Rating (VPR) per UL 1449 4 <sup>th</sup> Edition	600V	900V	1200V	1200V	1800V	2000V
Voltage Protection Level [U <sub>p</sub> ] per IEC 61643-11	600V	1000V	1200V	1600V	1900V	2400V
Operating Frequency Range	0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz
Long Duration Surge Performance 1 kA square waveform 2 msec	250 hits	250 hits	250 hits	250 hits	250 hits	250 hits
Mechanical						
Environmental Ingress Protection (IP) Rating	IP65	IP65	IP65	IP65	IP65	IP65
Operating Temperature (°C)	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C
Dimensions	Diameter	4.25" [107.9 mm]	4.25" [107.9 mm]	4.25" [107.9 mm]	4.25" [107.9 mm]	4.25" [107.9 mm]
	Height	3.72" [94.5 mm]	3.72" [94.5 mm]	3.72" [94.5 mm]	3.72" [94.5 mm]	3.72" [94.5 mm]
Weight	3.31 lbs [1.50 kg]	3.40 lbs [1.54 kg]	3.41 lbs [1.55 kg]	3.35 lbs [1.52 kg]	3.38 lbs [1.54 kg]	3.40 lbs [1.54 kg]

**Standards Compliance & Certifications**

Standards **UL 1449 4<sup>th</sup> Edition, IEC 61643-11, EN 61643-11, IEEE C62.11, IEEE C62.41.2, IEEE C62.45**

Certifications **UL, VDE, CE**

\* 690V per IEC 61643-11

\*\* 400V per IEC 61643-11

\*\*\*480V per IEC 61643-11



**Raycap**

[www.raycap.com](http://www.raycap.com)