DATA SHEET

Surge Protection Solutions

Strikesorb® 30 Module Series

Strikesorb 30-A • Strikesorb 30-B • Strikesorb 30-C • Strikesorb 30-D
Strikesorb 30-A-M • Strikesorb 30-B-M • Strikesorb 30-C-M • Strikesorb 30-D-M

The Strikesorb 30 surge protective device (SPD) has been upgraded to a Class I surge protective device, in addition to already having a Class II rating per IEC 61643-11. This enhancement offers systems designers the additional flexibility to install the Strikesorb 30, with its compact footprint, in locations with both direct or indirect lightning current conditions. The module also has UL Type 2 Component Assembly certification, and improved VPR levels.

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 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.

The unique Strikesorb technology provides uninterrupted protection from damaging electrical surges in a wide variety of applications. 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.

Features

- Class I and Class II SPD per IEC 61643-11
- Impulse Discharge Current (I_{imp}) rating of up to 7.5 kA

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SPECIFICATIONS

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Electrical

Strikesorb 30 Imperial Models* / Strikesorb 30 Metric Models**		Strikesorb 30-A / Strikesorb 30-A-M	Strikesorb 30-B / Strikesorb 30-B-M	Strikesorb 30-C / Strikesorb 30-C-M	Strikesorb 30-D / Strikesorb 30-D-M
Surge Protective Device (SPD) Type per UL 1449 5th Edition		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+II	Class I+II	Class I+II	Class I+II
Nominal Operating AC Voltage [U_n]		120V	240V	277V	480V***
Maximum Continuous Operating AC Voltage [U_c]		150V	275V	350V	550V****
Temporary AC Overvoltage Withstand [U_T] for 5s per IEC 61643-11		229V	442V	528V	762V
Response Time [t_A]		<1 ns	<1 ns	<1 ns	<1 ns
Nominal Discharge Current [I_n] per UL 1449 5th Edition & IEC 61643-11		20 kA 8/20 µs	20 kA 8/20 µs	20 kA 8/20 µs	20 kA 8/20 µs
Impulse Discharge Current [I_{imp}] per IEC 61643-11		5 kA 10/350µs	7.5 kA 10/350µs	7.5 kA 10/350µs	7.5 kA 10/350µs
Maximum Discharge Current [I_{max}] per IEC 61643-11		50 kA 8/20 µs	50 kA 8/20 µs	50 kA 8/20 µs	50 kA 8/20 µs
Maximum Surge Current Capacity [I_{max}] per NEMA LS-1		60 kA 8/20 µs	60 kA 8/20 µs	60 kA 8/20 µs	60 kA 8/20 µs
Voltage Protection Rating (VPR) per UL 1449 5th Edition		700V	1200V	1500V	1800V
Voltage Protection Level [U_p] per IEC 61643-11		700V	1200V	1600V	2200V
Operating Frequency Range		0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz

Mechanical

Environmental Ingress Protection (IP) Rating		IP 65	IP 65	IP 65	IP 65
Operating Temperature (°C)		-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C
Dimensions	Diameter	1.69" [43.0 mm]	1.69" [43.0 mm]	1.69" [43.0 mm]	1.69" [43.0 mm]
	Height	1.98" [50.3 mm]	1.98" [50.3 mm]	1.98" [50.3 mm]	2.09" [53.2 mm]
Weight		.352 lb [160 g]	.352 lb [160 g]	.352 lb [160 g]	.374 lb [170 g]

Standards Compliance & Certifications

Standards	UL 1449 5th Edition, IEC 61643-11, EN 61643-11, IEEE C62.11, IEEE C62.41.2, IEEE C62.45, NEMA LS-1
Certifications	UL, VDE, CE

*** 400V per IEC 61643-11

****480V per IEC 61643-11

** Strikesorb Imperial Model Thread: 5/16"--18 Whitworth*
***Strikesorb Metric Model Thread: M8*

The information in this document is subject to change at any time without notice.

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