DATA SHEET

Surge Protection Solutions

Strikesorb® 40 Module Series

Strikesorb 40-V1 • Strikesorb 40-A • Strikesorb 40-B • Strikesorb 40-C
Strikesorb 40-D • Strikesorb 40-E • Strikesorb 40-F • Strikesorb 40-G

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 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 voltage. 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 protective devices relying on the use of internal fuses and thermal disconnects.

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.

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Raycap

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SPECIFICATIONS

Surge Protection Solutions

Strikesorb® 40 Module Series

Strikesorb 40-V1 • Strikesorb 40-A • Strikesorb 40-B • Strikesorb 40-C
Strikesorb 40-D • Strikesorb 40-E • Strikesorb 40-F • Strikesorb 40-G

Electrical	Strikesorb 40-V1	Strikesorb 40-A	Strikesorb 40-B	Strikesorb 40-C	Strikesorb 40-D	Strikesorb 40-E	Strikesorb 40-F	Strikesorb 40-G
Surge Protective Device (SPD) Type per UL 1449 4th 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	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	Class I	Class I
Nominal Operating AC Voltage [U_n]	60V	120V	240V	277V	400V	480V	600V	1000V
Maximum Continuous Operating AC Voltage [U_c]	75V	150V	300V	350V	480V	600V	750V*	1200V
Temporary AC Overvoltage Withstand [U_T] for 5s per IEC 61643-11	114V	229V	442V	528V	762V	918V	1143V	1905V
Response Time [t_A]	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns
Nominal Discharge Current [I_n] per UL 1449 4th 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	20 kA 8/20 µs	20 kA 8/20 µs
Impulse Discharge Current [I_{imp}] per IEC 61643-11	12.5 kA 10/350 µs	12.5 kA 10/350 µs	12.5 kA 10/350 µs	12.5 kA 10/350 µs	12.5 kA 10/350 µs	12.5 kA 10/350 µs	12.5 kA 10/350 µs	12.5 kA 10/350 µs
Maximum Surge Current Capacity [I_{max}]	140 kA 8/20 µs	140 kA 8/20 µs	140 kA 8/20 µs	140 kA 8/20 µs	140 kA 8/20 µs	140 kA 8/20 µs	140 kA 8/20 µs	140 kA 8/20 µs
Voltage Protection Rating (VPR) per UL 1449 4th Edition	400V	600V	1200V	1200V	1800V	2000V	2500V	4000V
Voltage Protection Level [U_p] per IEC 61643-11	300V	600V	1200V	1300V	1800V	2300V	2800V	4400V
Operating Frequency Range	0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz	0...500 Hz
Long Duration Surge Performance 500 A square waveform 2 msec	250 hits	250 hits	250 hits	250 hits	250 hits	250 hits	250 hits	250 hits
Mechanical								
Environmental Ingress Protection (IP) Rating	IP 65	IP 65	IP 65	IP 65	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	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C
Dimensions Diameter	2.5" [63.5 mm]	2.5" [63.5 mm]	2.5" [63.5 mm]	2.5" [63.5 mm]	2.5" [63.5 mm]	2.5" [63.5 mm]	2.5" [63.5 mm]	2.76" [70.0 mm]
Height	3.73" [94.6 mm]	3.73" [94.6 mm]	3.73" [94.6 mm]	3.73" [94.6 mm]	3.73" [94.6 mm]	3.91" [99.4 mm]	3.91" [99.4 mm]	4.24" [107.8 mm]
Weight	1.32 lbs [600 g]	1.33 lbs [604 g]	1.35 lbs [612 g]	1.35 lbs [614 g]	1.36 lbs [615 g]	1.36 lbs [615 g]	1.46 lbs [660 g]	1.76 lbs [800 g]

Standards Compliance & Certifications	
Standards	UL 1449 4th Edition, IEC 61643-11:2011, EN 61643-11:2012, IEEE C62.11: 2012, IEEE C62.41.2: 2002, IEEE C62.45: 2002
Certifications	UL, VDE, CE

*690 V per IEC 61643-11