

The next generation surge suppression module

P R O D U C T I N F O R M A T I O N

	Strikesorb 40					Strikesorb 80					
Electrical Characteristics	Strikesorb 40-A	Strikesorb 40-B	Strikesorb 40-C	Strikesorb 40-D		Strikesorb 80-A	Strikesorb 80-B	Strikesorb 80-C	Strikesorb 80-D	Strikesorb 80-E	Strikesorb 80-F
Nominal Operating Voltage, Vn	120V	240V	277V	400V		120V	240V	277V	400V	480V	600V
Maximum Continuous Operating Voltage	150V	300V	350V	480V		150V	300V	350V	480V	600V	750V
Vref (peak) @ 5mA AC (peak)	263V	526V	607V	833V		263V	526V	607V	833V	1100V	1350V
Vref @ 5mA DC	252V	506V	587V	812V		250V	504V	582V	802V	1050V	1300V
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	0...500 Hz	0...500 Hz
Leakage Current at Vn	0.30mA	0.35mA	0.40mA	0.45mA		0.80mA	0.85mA	0.90mA	0.95mA	1.3mA	1.4mA
Surge Protection Levels											
Surge Voltage Rating (SVR)	500V	800V	1200V	1500V		400V	800V	900V	1200V	1500V	1800V
Response Time	< 1ns	< 1ns	< 1ns	< 1ns		< 1ns	< 1ns	< 1ns	< 1ns	< 1ns	< 1ns
Maximum Surge Current											
Maximum surge current, Imax (8/20) NEMA LS-1	140kA	140kA	140kA	140kA		200kA	200kA	200kA	200kA	200kA	200kA
Maximum lightning current, Iimp (10/350) IEC 61643-1	7.5kA	7.5kA	7.5kA	7.5kA		25kA	25kA	25kA	25kA	25kA	25kA
Let Through Voltage Level											
for surge current 10kA* (8/20) (IEEE C62.41-1)	435V	895V	1025V	1355V		405V	800V	930V	1260V	1650V	2100V
Long Duration Surge Performance											
1kA square waveform 2msec (IEEE C62.11)						250hits	250hits	250hits	250hits	250hits	250hits
500A square waveform 2msec (IEEE C62.11)	250 hits	250hits	250 hits	250hits							
Short Circuit Current Rating (UL1449 2nd edition)											
	Strikesorb 40 modules have been tested for safe installation behind a 4000A class L time delay fuse at available fault current 200kA					Strikesorb 80 modules have been tested for safe installation behind a 4000A class L time delay fuse at available fault current 200kA					
	3-cycle testing at 85kA					3-cycle testing at 65kA					
Environmental Properties											
Operating Temperature (°C)	-40...+85	-40...+85	-40...+85	-40...+85		-40...+85	-40...+85	-40...+85	-40...+85	-40...+85	-40...+85
Environmental Protection	IP65	IP65	IP65	IP65		IP65	IP65	IP65	IP65	IP65	IP65
Mechanical Properties											
Diameter inch (mm)	2.5 (63.5)	2.5 (63.5)	2.5 (63.5)	2.5 (63.5)		4.25 (107.9)	4.25 (107.9)	4.25 (107.9)	4.25 (107.9)	4.25 (107.9)	4.25 (107.9)
Height inch (mm)	3.73 (94.6)	3.73 (94.6)	3.73 (94.6)	3.73 (94.6)		3.73 (94.6)	3.73 (94.6)	3.73 (94.6)	3.73 (94.6)	3.73 (94.6)	3.73 (94.6)
Weight lb (gr)	1.33 (604)	1.35 (612)	1.35 (614)	1.36 (615)		3.31 (1500)	3.40 (1540)	3.41 (1547)	3.35 (1520)	3.38 (1535)	3.40 (1540)
Standards Compliance											
	IEEE C62.41, IEEE C62.45, IEEE C62.11, NEMA LS-1					IEEE C62.41, IEEE C62.45, IEEE C62.11, NEMA LS-1					
	IEC 61643-1 ed. 2:2005, EN 61643-A11:2005, IEC 61643-12					IEC 61643-1 ed. 2:2005, EN 61643-A11:2005, IEC 61643-12					
Listings											
	UL 1449 2nd ed., including changes effective February 9, 2007					UL 1449 2nd ed., including changes effective February 9, 2007					
	CE, VDE					CE, VDE					

\*Actual surge current through Strikesorb

# Strikesorb®

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The Strikesorb surge suppression module is used either as a stand alone protection element integrated inside larger systems or within Rayvoss Transient Voltage Surge Suppressors. It incorporates a single, heavy duty, distribution grade Metal Oxide Varistor (MOV) disk, assembled under pressure in an environmentally sealed aluminum casing.

Strikesorb's 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.

Strikesorb 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 in order to withstand repeated surges providing a cost-effective and maintenance free operation in harsh environments.

Strikesorb is the only UL 1449 2nd ed., including changes effective February 9, 2007, recognized surge protection module in the industry rated for safe operation without the use of additional internal fuses. This unique feature combined with its capability to be directly connected to the power lines or bus bars (in-line connection), makes it the most reliable surge protection device known and insures that critical electronic equipment will remain protected at all times.

Strikesorb is manufactured by Raycap Corporation in its ISO 9001 certified industrial facilities. For more information on Strikesorb and Rayvoss TVSS solutions please visit our website:

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



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