

Strikesorb™

The Next Generation Surge Suppression Module

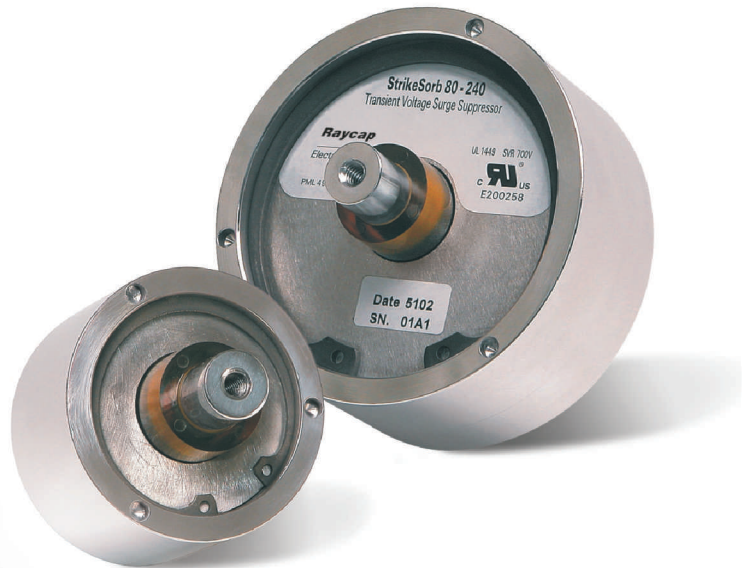
The Strikesorb surge suppression module used in a Rayvoss TVSS incorporates a single, heavy duty, distribution grade Metal Oxide Varistor (MOV) disk, assembled under pressure in an environmentally sealed aluminum casing.

Its 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 clamping voltages. Strikesorb's patented design minimizes the effects of ageing and completely eliminates the risk of catastrophic failure, explosion or fire, common in conventional surge protection devices.

Strikesorb incorporates state of the art developments in metal oxide technology providing superior protective 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 surge protection device in the industry rated for safe operation without the use of additional internal fuses. This unique feature makes it the most reliable surge protection device known and insures that equipment will be protected at all times.

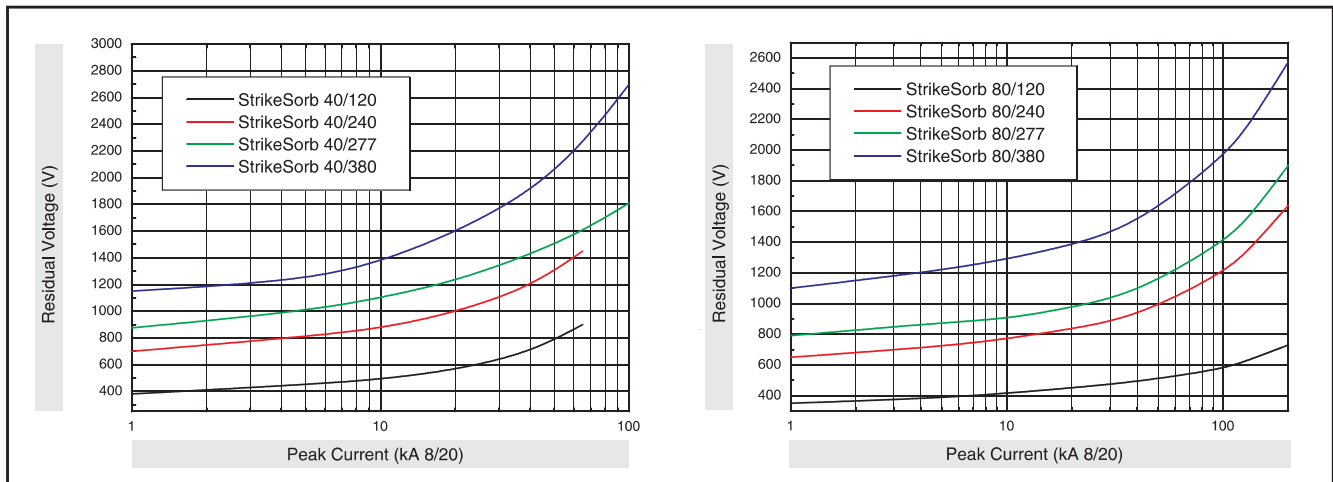
Strikesorb is available in two sizes, Strikesorb-40, providing a protection level of 100kA (8/20 μ s) and Strikesorb-80, rated at 200kA (8/20 μ s). Each Strikesorb type comes in four variations depending on the normal operating voltage (120V, 240V, 277V, 380V).



Strikesorb

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Strikesorb™	40-120	40-240	40-277	40-380	80-120	80-240	80-277	80-380
Mechanical Properties								
Diameter	63.5 (2.5)				101.6 (4)			
Height	91 (3.58) 93 (3.66) 94 (3.7) 96 (3.78)				91 (3.58) 93 (3.66) 94 (3.7) 96 (3.78)			
Weight	325 (0.72)				850 (1.87)			
Environmental Properties								
Operating Temperature	-20...+70°C				-20...+70°C			
Environmental Protection	IP 66				IP 66			
Electrical Properties								
I max for 8/20 pulse (kA)	100				200			
Operation Voltage (V RMS)	120	240	277	380	120	240	277	380
MCOV (V RMS)	150	280	350	480	150	280	350	480
SVR (V RMS)	400	700	900	1500	330	700	900	1200
Capacitance @ 1kHz (nF)	10	5.5	4	3.5	25	14	11	8
Inductance @ 1kHz (µH)	<0.1				<0.1			



International Standards Compliance

- Institute of Electrical and Electronic Engineers, IEEE C62.41, "IEEE Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits", 1991
- Institute of Electrical and Electronic Engineers, IEEE C62.45, "IEEE Guide on Surge Testing for Equipment Connected Low-Voltage AC Power Circuits", 1992
- Institute of Electrical and Electronic Engineers, IEEE C62.11, "IEEE Standard for Metal-Oxide Surge Arresters for AC Power Circuits (>1 kV)", 1999
- International Electro technical Commission, IEC 60099-4, "Surge Arresters Part 4: Metal-Oxide Surge Arresters Without Gaps for AC Systems", Edition 1.1, 1998-08
- Underwriters Laboratories Standard for Safety, UL 1449, "Transient Voltage Surge Suppressors", 2nd Edition
- National Electrical Manufacturers Association, NEMA LS-1 1992, "Low Voltage Surge Protection Devices"
- European Union, 7323/EC-1973, 1973 9368/EC 1995 European Union Low Voltage Directive (CE Mark)

This product is covered by US and Worldwide patents held by Raycap Corporation.
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