

Surge Protection Solutions

RayDin 240V-T1-HV-FL

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.



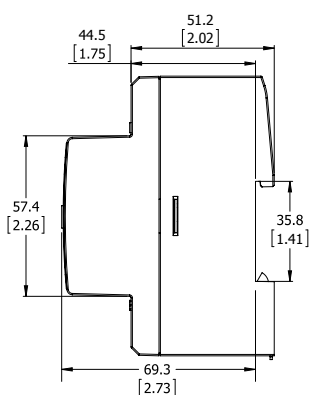
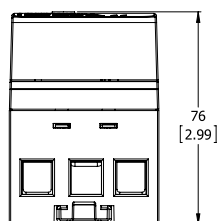
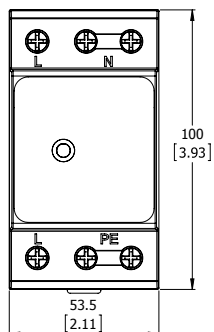
RayDin 240V-T1-HV-FL is based on Strikesorb technology which incorporates a single, heavy duty, distribution grade Metal Oxide Varistor (MOV) disk, assembled under pressure in an environmentally sealed aluminum casing. This unique design provides very low internal contact resistance, excellent thermal 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 thermal disconnectors.

Features

- Direct in-line connection to unprotected AC power lines with up to 50mm² wire (no external disconnecter is required in the upstream AC power circuit)
- Suitable for TN and TT single phase 240V Power Systems
- Class I protection for up to 12.5kA 10/350µs per line
- Provides very low let-through voltage, unique for a Class I product
- Maintenance-free

SPECIFICATIONS

Surge Protection Solutions RayDin 240V-T1-HV-FL



All dimensions are in mm [inches]
unless otherwise specified

Electrical

Surge Protective Device (SPD) Class per IEC 61643-11	Class I
Nominal Operating AC Voltage [U _n] (L-N)	240V
Maximum Continuous Operating AC Voltage [U _c] (L-N)	300V
Temporary AC Overvoltage Withstand [U _r] for 5s per IEC 61643-11 (L-N)	442V
Temporary AC Overvoltage Withstand [U _r] for 200ms per IEC 61643-11 (N-PE)	1455V
Response Time [t _Δ] (L-N)	<1 ns
Impulse Discharge Current [I _{imp}] per IEC 61643-11 (L-N)	12.5 kA 10/350 μs
Impulse Discharge Current [I _{imp}] per IEC 61643-11 (N-PE)	50 kA 10/350 μs
Voltage Protection Level [U _p] per IEC 61643-11 (L-N)	1200V
Voltage Protection Level [U _p] per IEC 61643-11 (N-PE)	1500V
Operating Frequency	50/60Hz

Mechanical

Environmental Ingress Protection (IP) Rating	IP 20
Operating Temperature (°C)	-40° C to + 70° C
Mounting Method	35 mm DIN rail
Dimensions (L x W x H)	100 x 53.5 x 75.8 mm [3.93" x 2.11" x 2.98"]
Weight	1.345 lbs [.610 kg]
Max. Cross section Area (all terminals)	50 mm ² stranded/ flexible
Min. Cross section Area	4 mm ² stranded/ flexible

Standards Compliance

Standards	UL 1449 3rd Ed: 2013, IEC 61643-11:2011, EN 61643-11:2012, IEEE C62.41: 2002, IEEE C62.45: 2002
Certifications	VDE, CE

Raycap

www.raycap.com



Information contained in this document is subject to change at any time without notice.

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