

Surge Protection Solutions

RayDin 400Y-T2-T3-HV-S(-ALR)

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 from damaging mission-critical equipment in telecommunications, power generation, defense, transportation and other industrial applications.



RayDin 400Y-T2-T3-HV-S(-ALR) 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 fuses and thermal disconnectors.

RayDin 400Y-T2-T3-HV-S(-ALR) is rated for safe operation without the use of internal fuses. This unique feature combined with its capability to be directly connected to the power lines (in-line connection), makes it the most reliable surge protection device known and insures that critical electronic equipment will remain protected at all times. The RayDin 400Y-T2-T3-HV-S(-ALR) is designed to be easily integrated into electrical panels via DIN rail attachment.

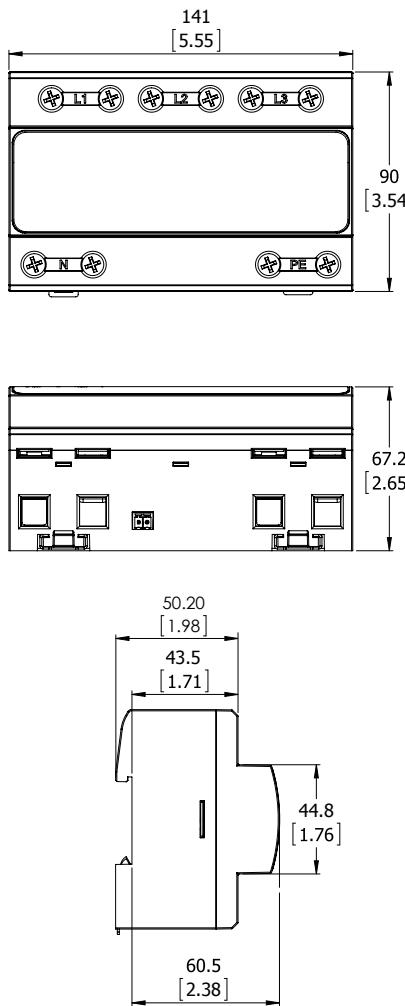
Features

- Suitable for TN and TT 3 phase 400V L-L Power Systems
- Class II protection for up to 15kA 8/20µs per line
- Provides very low let-through voltage, unique for a Class II + III product
- Its unique patented design provides uninterrupted protection from damage caused by lightning
- Maintenance-free

SPECIFICATIONS

Surge Protection Solutions

RayDin 400Y-T2-T3-HV-S(-ALR)



All dimensions are in mm [inches] unless otherwise specified

Electrical

Surge Protective Device (SPD) Type per UL 1449 4th Ed.	Type 2 Component Assembly
Surge Protective Device (SPD) Class per IEC 61643-11	Class II + III
Nominal Operating AC Voltage [U_n] (L-N)	240V
Maximum Continuous Operating AC Voltage [U_c] (L-N)	300V
Temporary AC Overvoltage Withstand [U_T] for 5s per IEC 61643-11 (L-N)	442V
Temporary AC Overvoltage Withstand [U_T] for 200ms per IEC 61643-11 (N-PE)	1455V
Response Time [t_A] (L-N) / (N-PE)	<1 ns / <100ns
Nominal Discharge Current [I_n] per UL 1449 4th Ed. (L-N) / (N-PE)	20 kA 8/20 μ s
Nominal Discharge Current [I_n] per IEC 61643-11 (L-N) / (N-PE)	15 kA 8/20 μ s / 60 kA 8/20 μ s
Combination Wave [U_{OC}/I_{SC}] per IEC 61643-11	6kV / 3kA
Maximum Discharge Current [I_{max}] per IEC 61643-11 (L-N) / (N-PE)	60kA 8/20 μ s / 100kA 8/20 μ s
Voltage Protection Rating [VPR] per UL 1449 4th Ed. (L-N)	1000V
Voltage Protection Rating [VPR] per UL 1449 4th Ed. (N-PE)	1200V
Voltage Protection Level [U_p] per IEC 61643-11 (L-N)	1200V
Voltage Protection Level [U_p] per IEC 61643-11 (N-PE)	1500V
Rated Load Current [I_L] per IEC 61643-11	125A
Short Circuit Current Rating [I_{SCC}] per IEC 61643-11	50kA
Operating Frequency	50/60Hz

Mechanical

Environmental Ingress Protection (IP) Rating	IP20
Operating Temperature (°C)	-40° C to + 85° C
Mounting Method	35 mm DIN rail
Remote Signaling Contacts	optional
Type of Remote Signaling Contact	NC Contact
Remote Signaling Contact Rating	DC : 30V/0.1A
Max. Cross section area of Remote Signaling Contact	max. 1.5mm ² solid/flexible
Max. Cross section Area (all terminals)	50 mm ² stranded/ flexible
Min. Cross section Area	4 mm ² stranded/ flexible
Dimensions (L × W × H) per DIN 43880	141 × 90 × 67.2 mm [5.55" × 3.54" × 2.65"]
Weight	1.16kg, 1.27kg (-ALR)

Standards Compliance & Certifications

Standards	IEC 61643-11:2011, EN 61643-11:2012 +A11:2018, UL 1449 4th Ed, IEEE C62.41: 2002, IEEE C62.45: 2002
Certifications	UL*, VDE, CE

*only RayDin 400Y-T2-T3-HV-S



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

Raycap

www.raycap.com

G02-01-899 200720

Release 4