

DATA SHEET

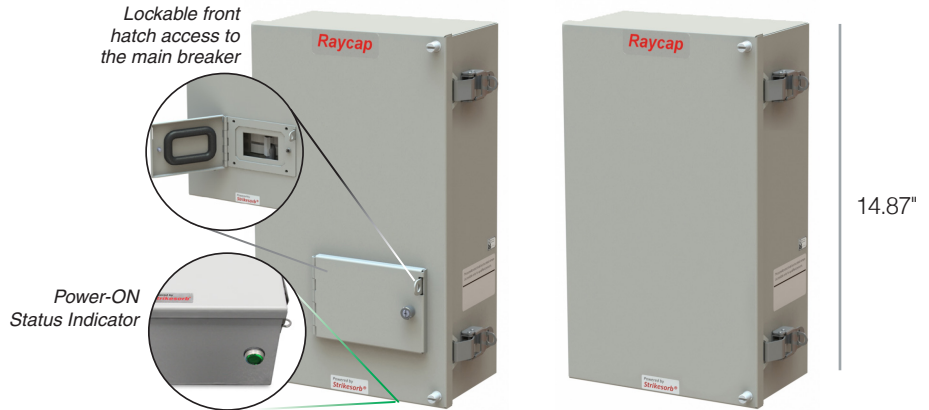
AC Disconnect with Integrated Surge Protection for Small Cell Radio Heads

powered by
Strikesorb®

The RSx-E series are AC Disconnect, Load Center and Surge Protection Devices that are Suitable for Use as Service Equipment (SUSE). They are designed to provide robust overvoltage surge protection for up to 12 AC power circuits for today's small cell radio systems.

RSx-EMN-X02MS-21NN • RSx-EML-X02MS-21NN 60A Main Breaker
RSx-EMN-Z02MS-21NN • RSx-EML-Z02MS-21NN 100A Main Breaker

Use (x) character in model prefix to indicate enclosure color option
D: Light Gray G: Green B: Black N: Brown



Features

- Suitable for Use as Service Equipment (SUSE) without condition per UL and NEC with 60A or 100A main breaker
- Up to twelve circuits for individual power control and over current protection
- Comes standard with (2) din rail 13mm breakers (2x20A) providing (2) 120VAC circuits which can be bridged to provide (1) 240V feed
- 120/240VAC split phase configuration
- Available Surge Protection:
 - Optional Strikesorb 30-A-2CHV Surge Protective Device (SPD)
 - Class I SPD, certified by VDE per the IEC 61643-11 standard as suitable for installation in areas where induced lightning exposure is expected
 - Withstand direct surge currents up to 5kA (10/350µs) and induced surge currents of up to 60kA (8/20)
 - Low let through / clamping voltage - as it does not employ spark gaps or other switching elements
 - Optional Raycap ProTec Din Rail Surge Protective Device (SPD)
 - Class II SPD, certified by VDE per the IEC 61643-11 standard
 - Withstand induced surge currents of up to 50kA (8/20)
 - High-Energy MOV and Thermal Protection
 - Visual status indication
- Lockable front hatch access to the main breaker (Optional). Main power can be turned on and off without opening the main enclosure door. Lockout Tagout (LOTO) functionality.
- Pole mount bracket facilitates mounting on up to 4" diameter pole using existing clamps. Can also be banded to any diameter pole. Center mount holes (5/8") for center pole mount.
- Top, bottom or side cable entry allows for cleaner installations
- Customer specified knockouts available
- Patent pending design

UL 67

Type 4 Enclosure Electrical Rating: 240V Single Phase	
Service entrance rating: Suitable for use as service equipment	
Class	Interrupting Rating
Symmet.	Asymmet.



RSD-EMC-Z02MS-21NN
(Lt. Gray color, 2 Breakers, Strikesorb SPD,
External Disconnect)

Mounting Bracket Included

Raycap

www.raycap.com

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SPECIFICATIONS

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AC Disconnect with Integrated Surge Protection for Small Cell Radio Heads

RSx-EMN-X02MS-21NN • RSx-EML-X02MS-21NN 60A Main Breaker
RSx-EMN-Z02MS-21NN • RSx-EML-Z02MS-21NN 100A Main Breaker

Product Information

Model Number	RSx-EMN-X02MS-21NN
Number of Circuits	Available up to 16 circuits
Service Disconnect	60A main breaker
	RSx-EML-X02MS-21NN
Number of Circuits	Available up to 16 circuits
Service Disconnect	60A main breaker (with external disconnect & LED)
	RSx-EMN-Z02MS-21NN
Number of Circuits	Available up to 16 circuits
Service Disconnect	100A main breaker
	RSx-EML-Z02MS-21NN
Number of Circuits	Available up to 16 circuits
Service Disconnect	100A main breaker (with external disconnect & LED)
Breakers	13mm DIN Rail
Breakers Provided*	2x20A, 10x10A
Breaker Interrupt Rating (kAIC)	10kA
Connection (Power)	Main Breaker #12 - #2Ø AWG (3.31 - 67.4mm ²) Branch Breaker #18 - #2 AWG (1.02 - 33.6mm ²) Ground and Neutral Busbars #14 - #2 AWG (2.08 - 33.6mm ²)
Enclosure Type (Outdoor)	Powder Coated Steel
Enclosure	Hinged with Padlockable Latches
Environmental Ingress Protection (IP) Rating	NEMA 4
Operation Temperature (°C)	-40° C to +80° C
Storage Temperature (°C)	-40° C to +80° C
Dimensions (W x H x D)	9.10" x 14.87" x 6.05" [231 x 377 x 154 mm]
Weight (including 16 Breakers) lbs.	Unit: 14.8 Bracket: 2.3 System: 17.1

Surge Suppression Specifications

Surge Protection Device (SPD) Type to UL	Strikesorb 30-A-2CHV Surge Suppression
Surge Protective Device (SPD) Type per UL 1449 4th Ed.	Recognized UL SPD
Surge Protection Device (SPD) Class to IEC 61643-11	Class I
Nominal Operating Voltage [U _n]	120V / 240V split phase
Nominal Discharge Current [I _n] per UL 1449 4th Ed.	20 kA 8/20µs
Maximum Discharge Current [I _{max}] per IEC 61643-11	60 kA 8/20µs
Impulse Discharge Current [I _{imp}] per IEC 61643-11	5kA 10/350µs
Maximum Continuous Operating Voltage [U _c] (MCOV)	150V per line
Voltage Protection Level [U _p] per IEC 61643-11	700V
Suppression Technology	MOV
Protection Modes	L1 to Neutral, L2 to Neutral

Standards Compliance & Certifications

<i>Strikesorb modules are compliant to the following Surge Protective Device (SPD) standards:</i>	
UL 1449 4th Edition: 2011, IEC 61643-11: 2011, EN 61643-11: 2012, IEEE C62.11: 2005, IEEE C62.41: 2002, IEEE C62.45: 2002, NEMA-LS-1	
Certification	UL, VDE, CE
Panel Board Certification	UL 67 (suitable for use as service equipment)

*Additional breakers and sizes are available and sold separately.

Raycap

www.raycap.com



AWG=American Wire Gauge