



Installation Manual

SC-3MM100 Series Integrated AC Cabinets



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Warnings

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA70E.
- This equipment shall be located where accessible to and must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors, and covers before turning on power to this equipment.
- Failure to follow these instructions may result in death or serious injury.
- Only use CBI QL Series Branch Breakers.
- Branch Load not to exceed 80% of Main breaker.



Danger

Each cabinet weighs approximately 45 lbs (20.25 kg). Ensure appropriate measures are taken to safely move cabinet to installation location.

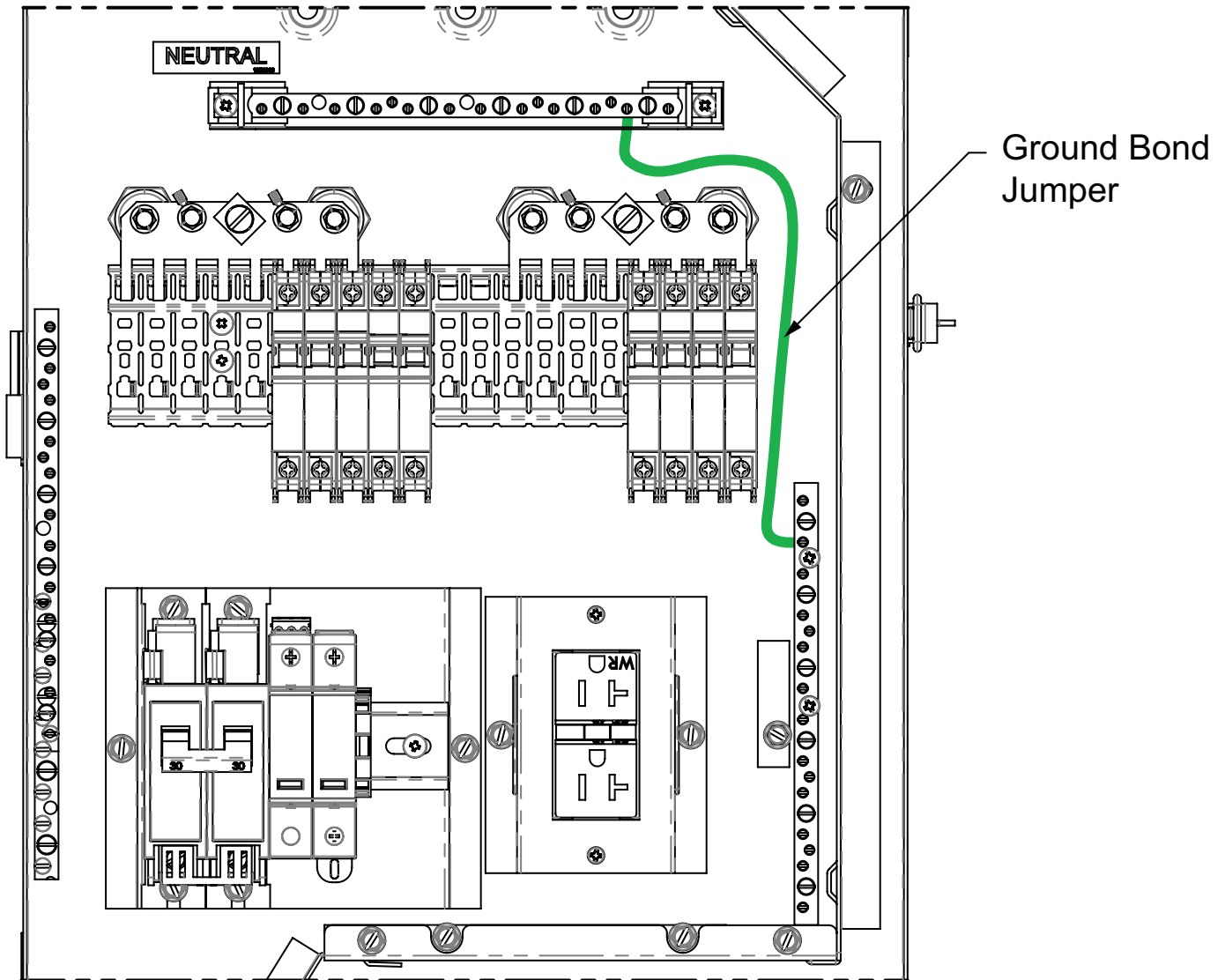
Note: Cabinets must be supported adequately at all times.

Service Entrance Applications

This cabinet is suitable for use as Service Equipment with a 100 A main Breaker. A neutral-ground bond is required. Attach a green ground wire between the neutral and ground bus per NEC guidelines.

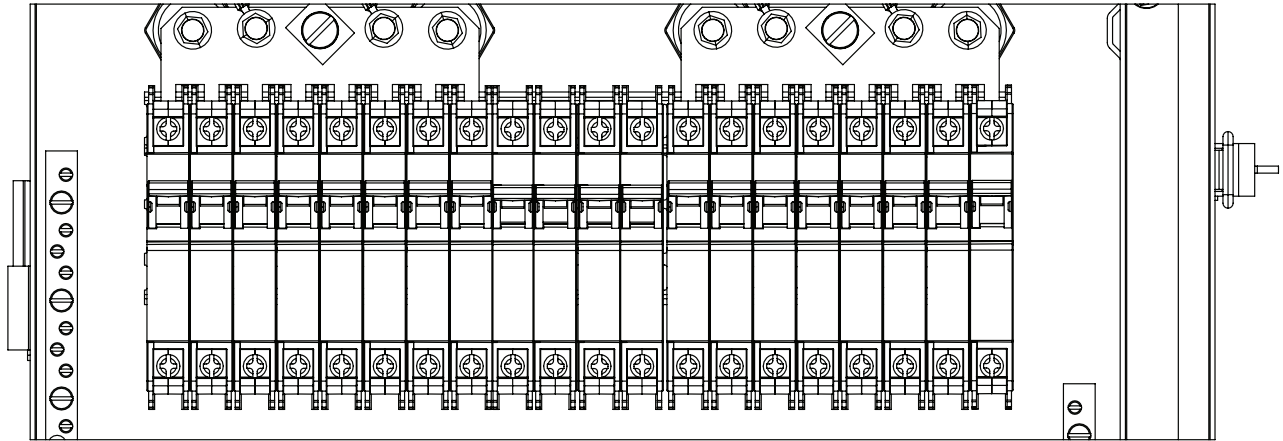
Ground Bond Jumper

If the SC-3MM100 cabinet is to be used as service equipment, a ground bond must be made between the ground and neutral bars.



Branch Breakers

The SC-3MM Series Integrated AC Cabinet series supports carrier co-location by supporting configurable, field-installable branch breakers.



16 single pole and 2 double pole branch breaker positions available

To Remove a Branch Breaker:

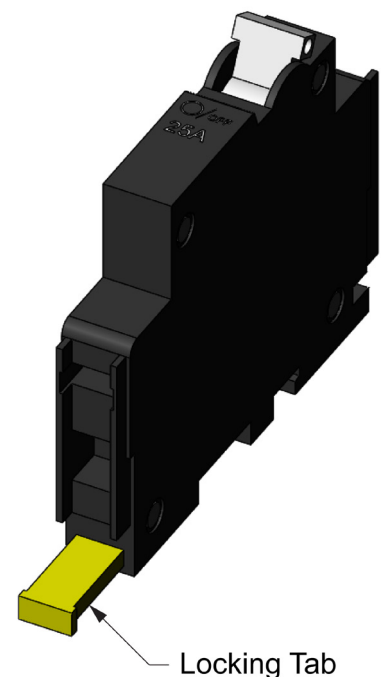
Loosen from bus bar, then using screw driver (or similar implement) pull out the yellow locking tab. The breaker will now slide out for easy replacement.

To Install a Branch Breaker:

Ensure the terminal lug is fully opened then slide the breaker into the desired position. Torque lug to 25 in-lbs.

Field Wiring Torque

Breaker	Wire Range	Torque
Main		
100A	12 - 2/0 AWG	45 - 50 in-lbs
Branch		
1A, 5A, 7A, 10A, 15A, 20A, 25A	2 AWG	35 in-lbs
	4 AWG	28 in-lbs
	18 - 6 AWG	20 in-lbs
	Bus Bar	25 in-lbs



Field Installation of 2-Pole Branch Breakers



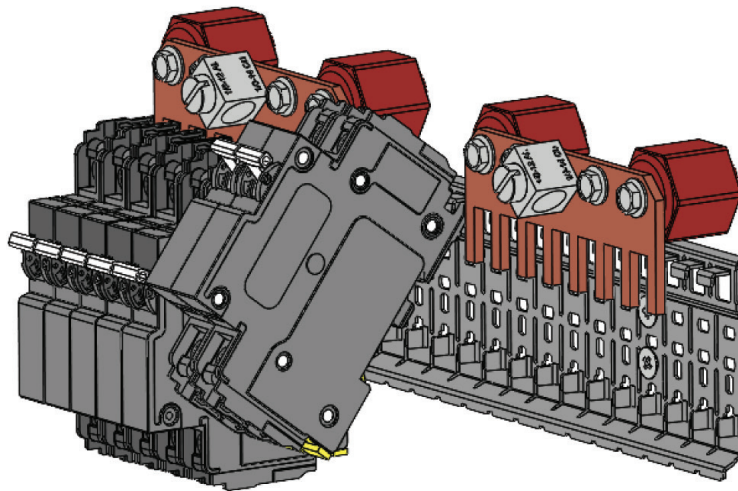
Safety First

Ensure enclosure is NOT energized. Make sure main circuit breaker is in the OFF position.

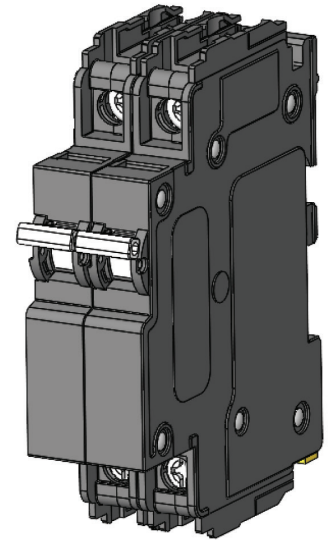
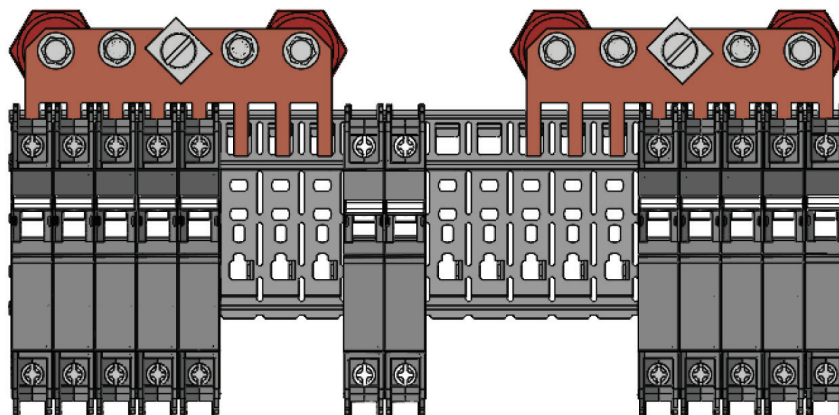
There are 4 single pole spaces on din rail between the finger bus pairs. Install the 2 pole breaker on either the left or right set of un-bussed positions.

To install the circuit breaker on the din rail:

1. Start with the breaker angled slightly, then seat the top notch of the circuit breaker under the din rail flange.

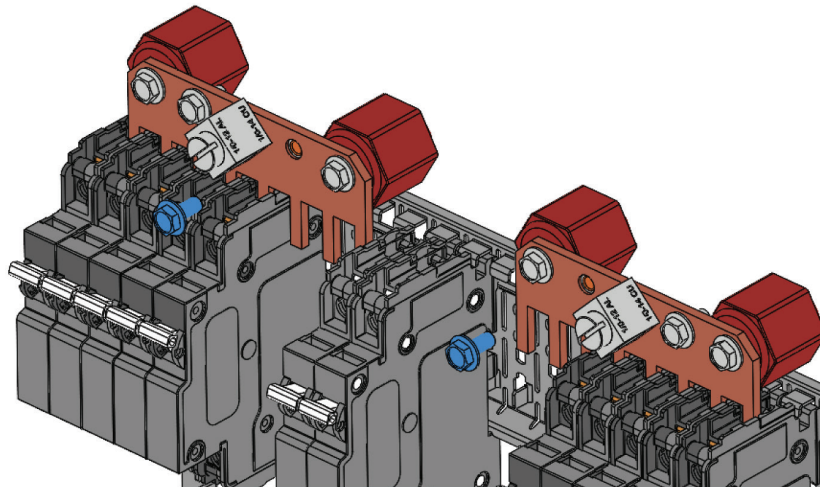


2. To securely seat the breaker, firmly press the lower portion of the breaker against the lower edge of the din rail. The circuit breaker tabs will clip into place.

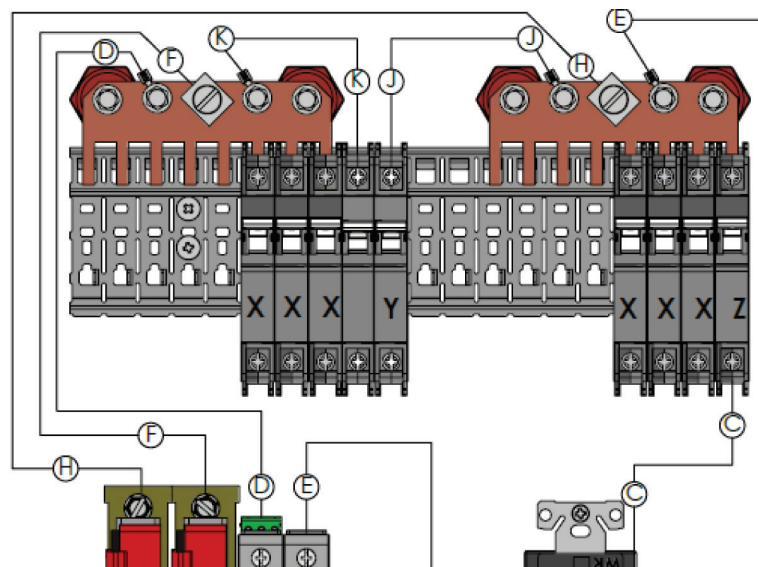


Wiring Circuit Breaker to Enclosure Bussing:

1. Prepare bus-to-breaker wires.
 - a. Always use appropriate size wire/strip length & torquing per breaker manufacturer specs.
 - b. Use ring-type #10 connector on bus connection end.
2. Remove hex screws (highlighted below) interior to the 1-0 main breaker connectors. **DO NOT** use the screws that are securing bus to the red standoff insulators.

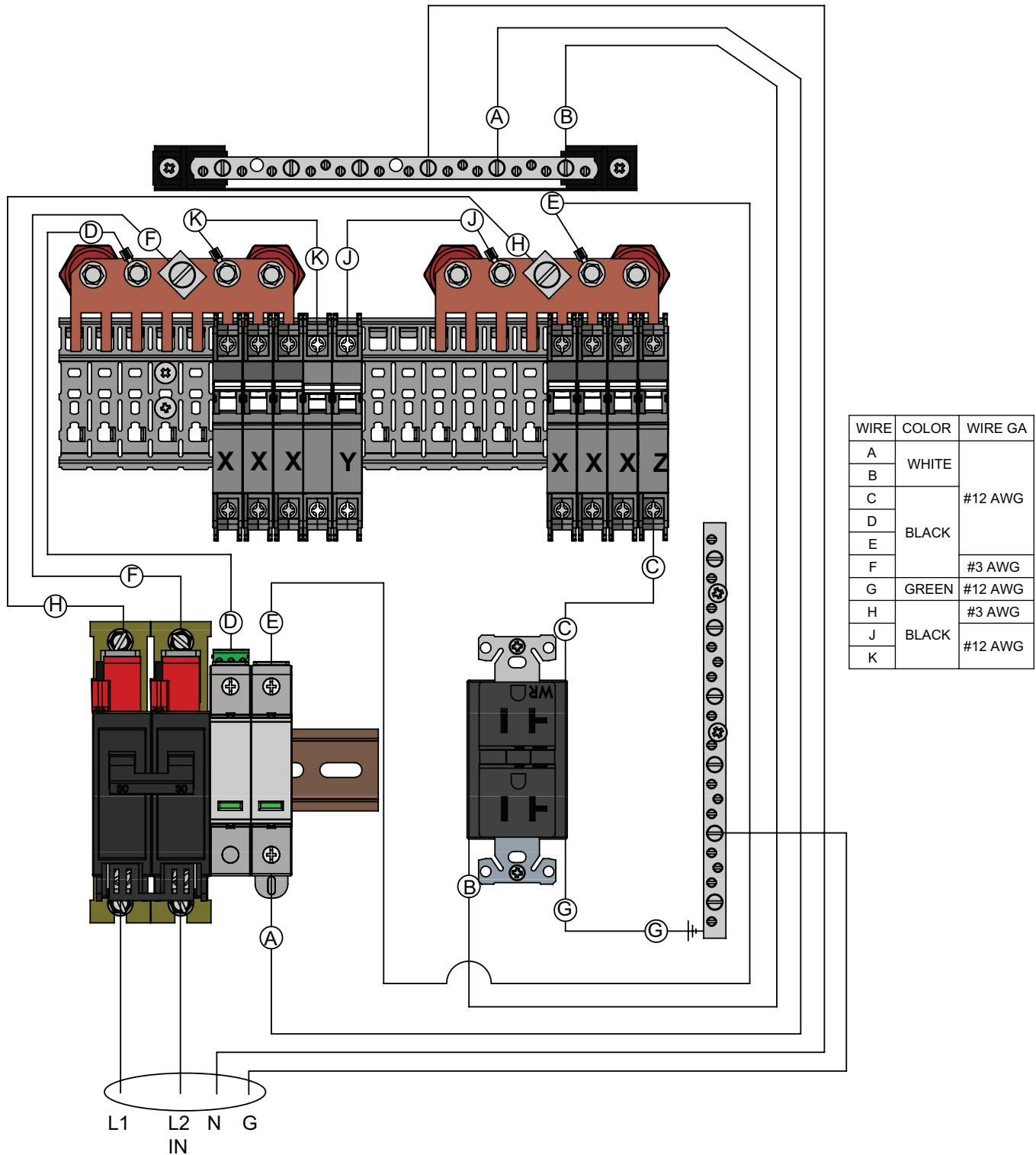


3. Secure the ring-type connector to the bus using the hex screw. **Torque to 35 in-lbs.**
4. Using the diagram below as an example, wire the installed 2 pole breaker reflecting the positions of wire K and wire J.

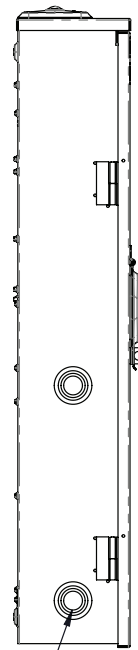
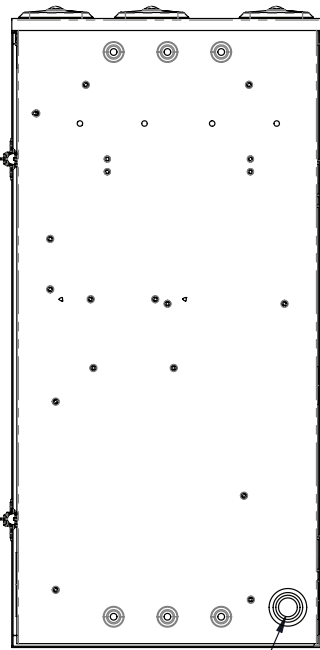
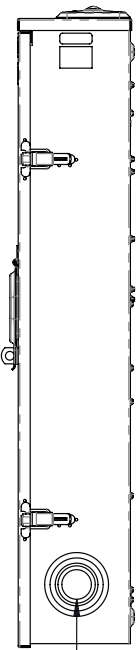
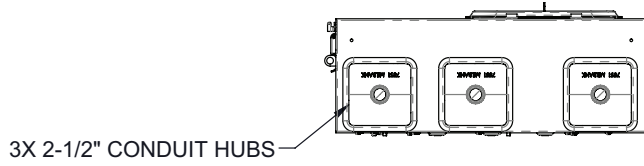


5. Insert the stripped end of each wire into upper breaker connector and fasten to recommended torque set by circuit breaker manufacturer.

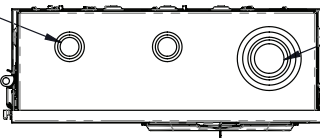
Wiring Diagram



Wire Entry



2X 1/2", 3/4", 1"
CONCENTRIC KNOCKOUTS



1", 1-1/4", 1-1/2", 2", 2-1/2"
CONCENTRIC KNOCKOUTS

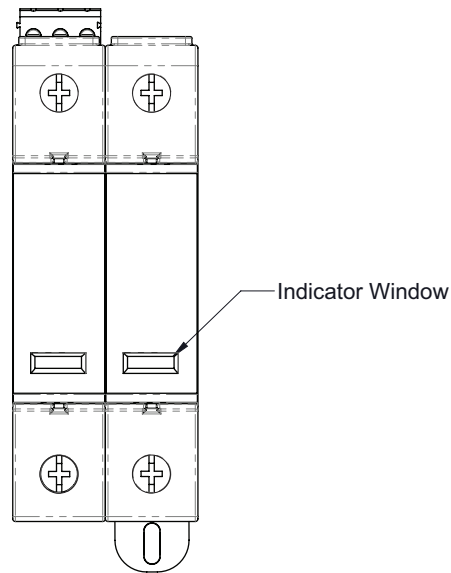
Surge Protection

The SC-3MM Series Integrated AC Cabinet series comes with an I2R-75KE240 MOV Surge Protection Device. This SPD has visual indicators regarding its Protection Status. If indicator is red, replace protection module.

Note: *The surge protection device does not consume a branch breaker position.*

Replaceable Modules:

- I2R-75KE240 MOV

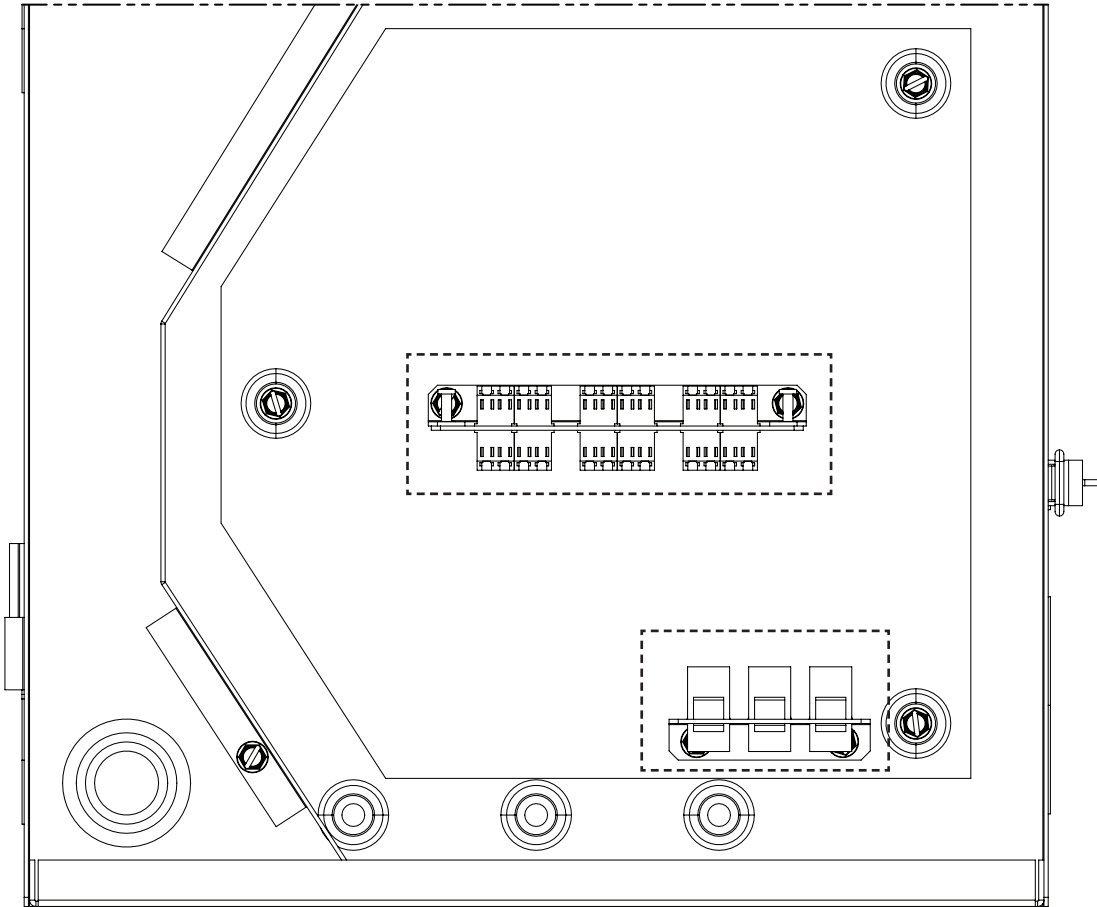


Outlet Option

If selected, the SC-3MM Series Integrated AC Cabinet series will come with a 20A GFCI outlet and a 20A branch breaker will be dedicated to its operation.

Fiber Connection Option

If selected, either 3X 2 position or 3X 4 position fiber connectors will be present.



RJ45 Connection Option

If selected, 3X female cat 6 shielded connectors will be present.

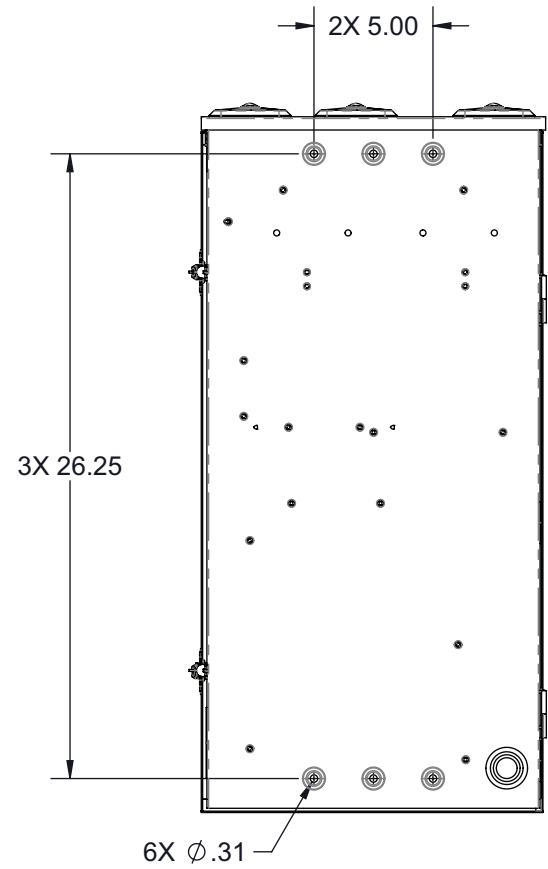
Mounting

To mount the SC-2MMA9 Cabinet on a H-frame wall, you will need the following:

- Wall anchors or materials for a H-frame
- Four #10 mounting bolts and nuts

Perform the following steps to mount the enclosure:

1. Construct and mount the H-frame per local practices, or install appropriate wall anchors.
2. Use appropriate lifting equipment to raise the cabinet into its mounting position and keep it supported.
3. Tighten bolts securely.



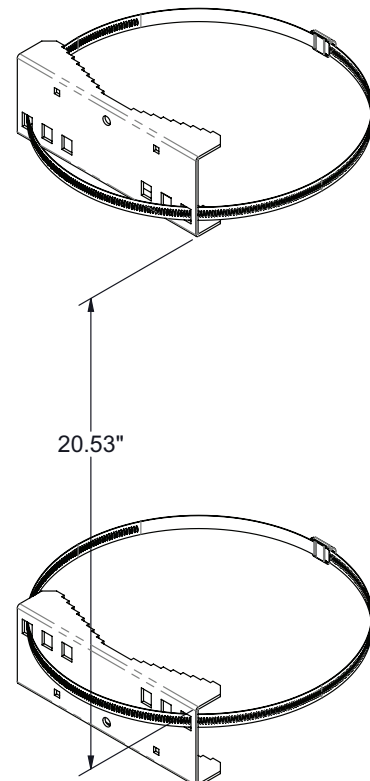
Pole Mount Accessory

For Pole Mounting, a V-Bracket Accessory kit is available (Part No. SC-POLE-KIT-XL, sold separately).

Kit Contents

Quantity	Description
2	V-Bracket
2	Band Clamp
4	Bolt
4	Nut

1. Secure the V-brackets to pole. Spacing is 26.25" from mounting hole to mounting hole (Approx. 20.53" between brackets).
2. Ensure carriage bolts are in position.
3. Secure cabinet to brackets using provided 1/4-20 Hardware. Torque nuts to 75±10% in-lbs.



About Transtector Systems:

Transtector Systems, an Infinite Electronics brand, leads the industry with a comprehensive product portfolio and specialized expertise in consulting, design and manufacturing of AC, DC, data and signal surge protection, communications power cabinets, and EMP protection.

Transtector provides valuable end-to-end power and signal integrity solutions for markets that include telecommunications, medical imaging, transportation, energy, security and the military. Our goal is to support the urgent surge-protection requirements of our customers with responsive customer service, technical support and a wide-range of quality AC, DC and data line surge protection products in-stock and available for same-day shipping.

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