

SIEMENS

QUICK START INSTALLATION GUIDE



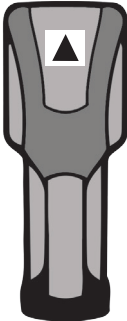

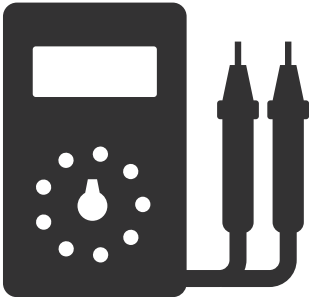
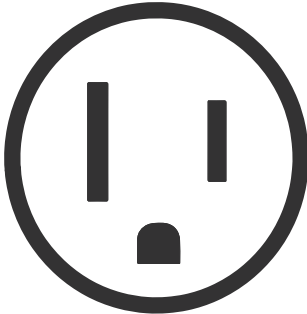

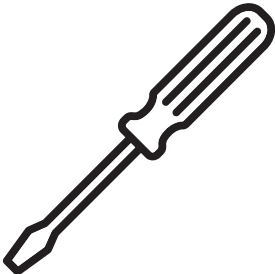
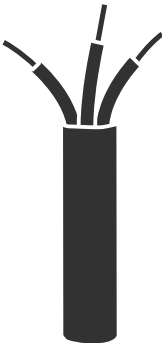
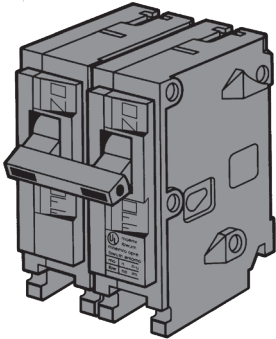
VersiCharge™ AC

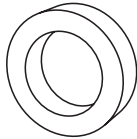
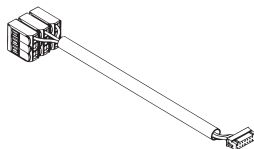
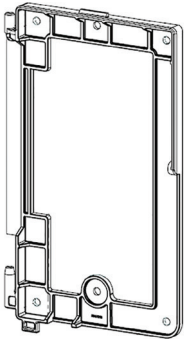
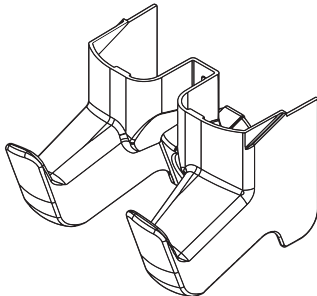
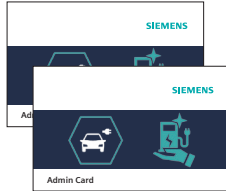
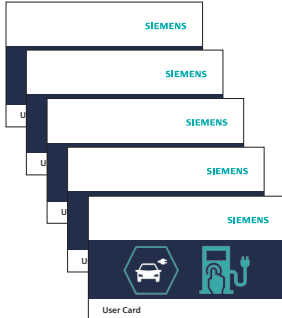
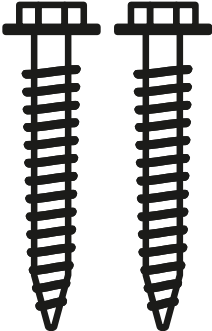


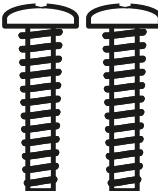
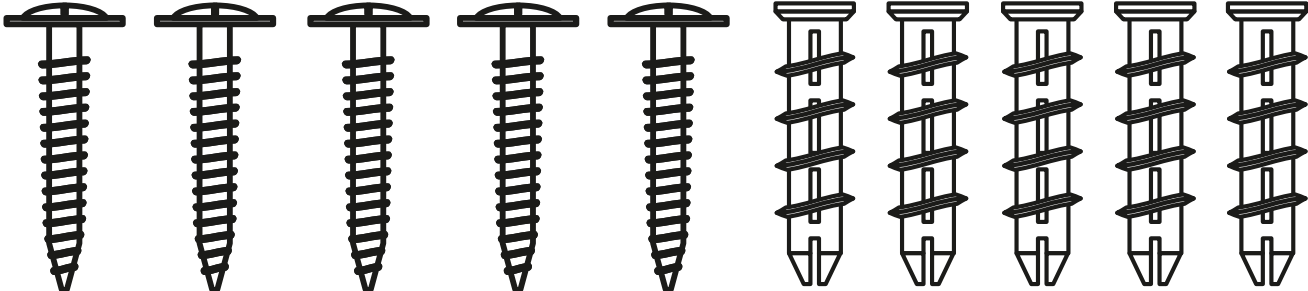
Electric vehicle charging station

July 2024



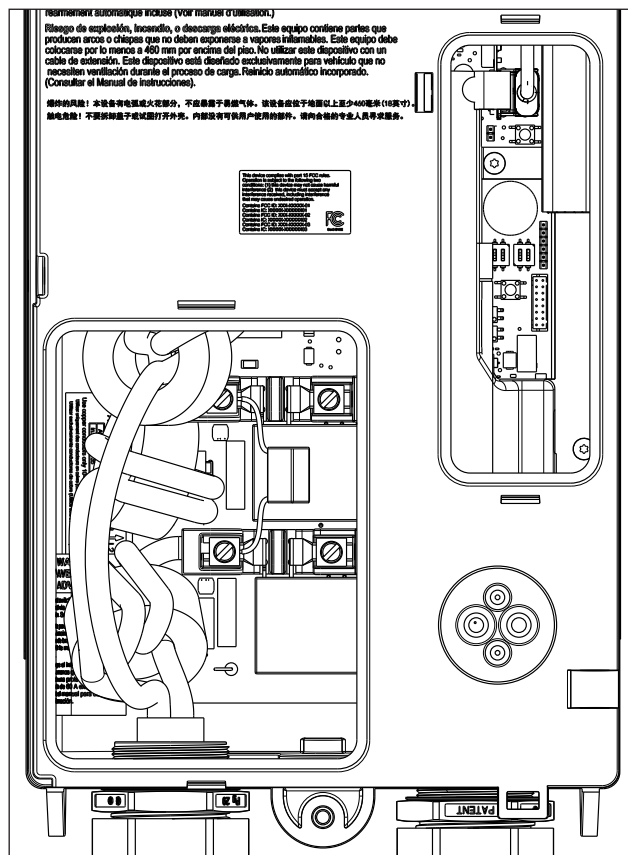
Installation Kit

<div>Equipment List</div> <div>Standard Installation – What you will need:</div>		
		Certified electrician (recommended)
		
Cordless drill (Phillips bit with extender) – include 1/8" drill bit for pilot holes	Stud finder	Level
		
240 V AC voltmeter	NEMA 6-50 outlet (only used for the residential charger) 40 A	7/16" socket wrench
		
Flathead and Phillips head screwdriver	#6 AWG 90 °C copper wire should be used for a 48 A charger and #8 AWG 90 °C copper wire should be used for a 40 A charger. NOTE: 1. Wire must have a temperature rating of 90 °C or higher. 2. Do not set the amp switch higher than 40 A unless hardwired to a dedicated 60 A branch protection circuit breaker.	Follow local and national codes where applicable for rating supply equipment to the EVSE based on the charger's amp adjustment switch. Circuit breaker: A 40 A charger requires a 2-pole, 240 V, 50 A circuit breaker. A 48 A charger requires a 2-pole, 240 V, 60 A circuit breaker.

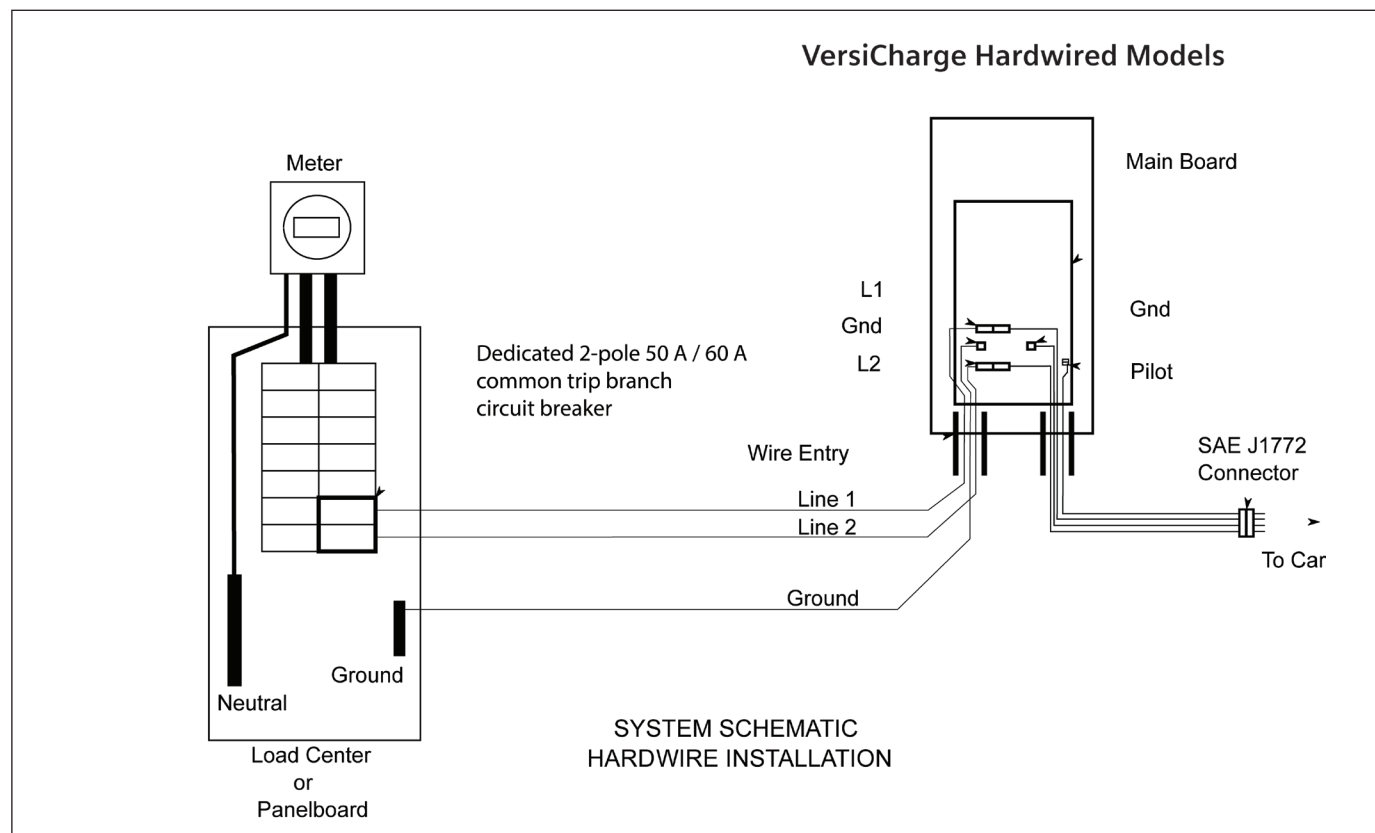
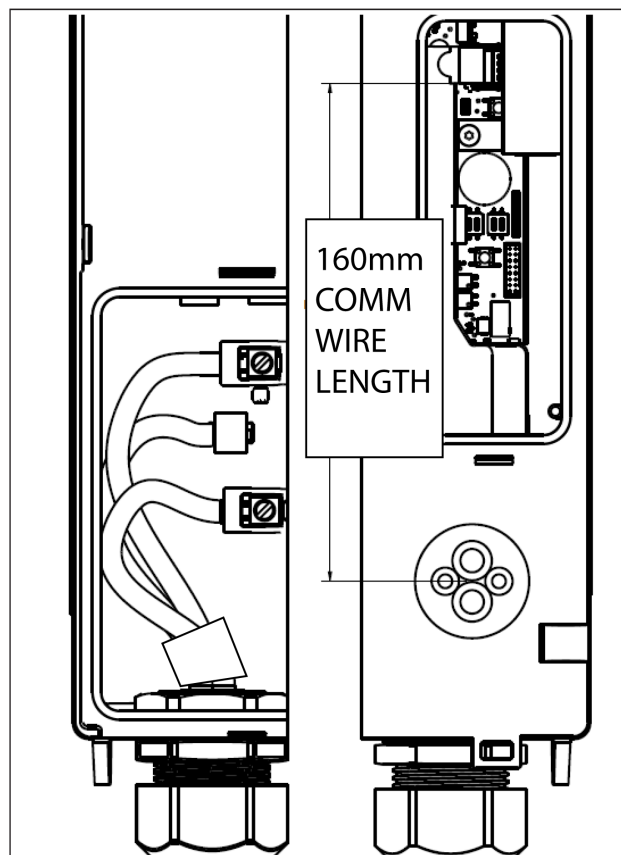
Kit-Supplied Equipment			
	<p>0 ferrite cores for 40 A residential variants 1 ferrite core for 40 A / 48 A commercial variants 3 ferrite cores for 48 A residential variants</p> <p>NOTE: Plug-supplied units (40A) will have the ferrite core factory installed. Only units to be hardwired (48 A) will install the ferrite core.</p>	<p>1 – Multi-use connector (this connector is used for both the Modbus and the external remote control interface connector and is only supplied with commercial units).</p>	
		 	
		<p>NOTE: Supplied with commercial units only. For RFID setup, refer to the RFID Setup section in the complete VersiCharge Installation and Operations Manual at: link to manual</p>	
1 – Mounting bracket	1 – Cable holster	2 – Admin Cards	5 – User Cards
			
2 – Lag screws, hex head screws, 1/4 x 2" (for securing the mounting bracket to the wall studs)	Tamper-resistant 5/32" Allen wrench (to secure the charger)	1 – #8 x 2-1/2" Phillips head drywall screw (for securing the holster to the wall stud)	2 – #10-32 X 3/8", tamper-resistant, pin-in hex socket button head cap screws (to secure the charger)
2.3 Alternate Installation (Wallboard Installation) – What you will need (screws and anchors are not included in the VersiCharge installation kit)			
			
Five #12 x 1-1/2 LG Phillips head Ø.375 head minimum, with five #12 wall anchors (NOTE: the wall anchors must be rated for 61 lbs. for 1/2" dry wall).			

Hardwire Bending Diagrams

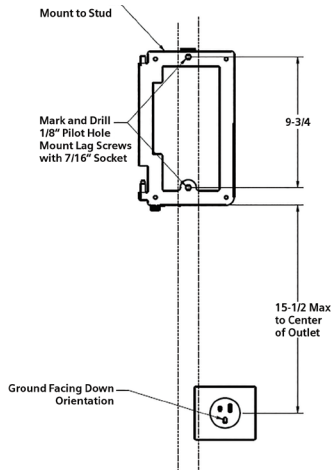
Residential variants



Commercial variants



NOTE: Follow local and national codes where applicable for rating supply equipment to the EVSE based on the charger's amp adjustment switch; 40 A requires a 50 A breaker, and 48 A requires a 60 A breaker. The wiring should not be exposed to any conditions that could potentially damage wiring or cause a potential hazard.

Step 1A: Standard mounting

Find the stud. Place the mounting bracket no more than 12" above the outlet and use it as a guide to mark the location of the top center hole. Then, drill a 1/8" pilot hole.

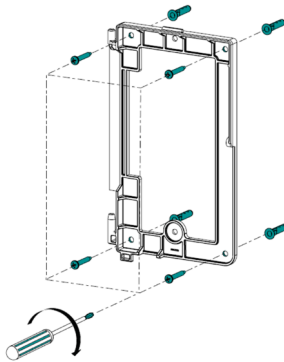
Mount the bracket using the top hole and the lag screws (with the hinges facing upward and with the flat side of the bracket against the wall). DO NOT tighten all the way. Level the bracket.

Drill a 1/8" pilot hole for the center-bottom hole. Secure with lag screws. Tighten the top and bottom screws using a 7/16" socket wrench. DO NOT overtighten or lag screws can be broken.

For concrete cinder block walls, install appropriate anchors. If using an existing outlet, ensure that the power cord will reach to the outlet.

Mount in compliance with all National Electrical Code® (NEC) and local jurisdiction requirements.

For Siemens post-installation, see the post instruction manual at usa.siemens.com/versichargecommercial, under the Installation section.

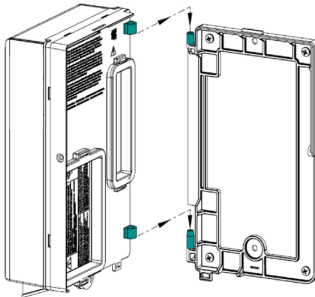
Step 1B: Alternate mounting – wallboard installation

NOTE: Anchor rating: five anchors must be rated as 61 lb. anchors rated for 1/2" dry wall.

The VersiCharge can be mounted using five #12 x 1-1/2 LG Phillips head with five #12 wall anchors.

Locate the mounting bracket not more than 12" above a 240 V outlet. If hardwiring, the wiring will come through the bottom of the charger. Level the mounting bracket and drill four holes, one in each corner of the bracket. Place the anchors into the wallboard until they are flush with the wall.

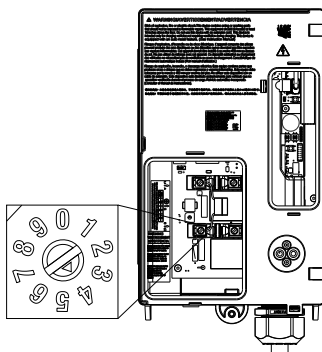
Place the mounting bracket over the holes with the anchors (with the hinges facing upward and with the flat side of the bracket against the wall) and screw the mounting to the wall. Add a fifth hole for mounting the holster once the unit is mounted on the wall. Place the holster on the wall and mark the correct position for the hole.

Step 2: Install/mount charger

NOTE: For installation, the mounting bracket hinges will be pointing to the ceiling, and the flat side of the bracket will be against the wall.

Slide the VersiCharge on to the hinges. Rotate to the right until the unit clicks and is closed. Secure the enclosure with the tamper-resistant screw and supplied Allen wrench. Plug the VersiCharge into the 240 V outlet.

If hardwiring the unit, refer to the Hardwire Installation in Step 4.

Step 3: Set amp switch

The VersiCharge comes set to the maximum of the model purchased (for example, a 40 A model will come with the amp adjustment switch set to 4, and a 48 A unit amp adjustment switch will be set to 5).

Follow local and national codes where applicable for rating supply equipment to the EVSE based on the charger's amp adjustment switch.

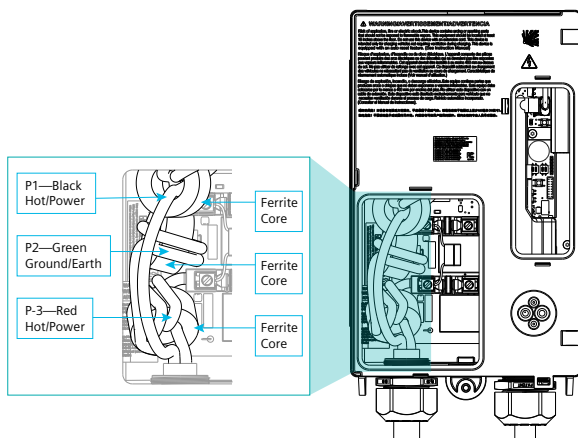


DANGER

Hazardous Voltage.
Will cause death or serious injury

Turn off power before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.

Step 4: Hardwire the VersiCharge and ferrite core(s) – skip if using an existing 240 V outlet



NOTE: The 48 A residential variant (which has three ferrite cores) is depicted above. The 40 A/48 A commercial variant has just one ferrite core. 40 A residential variants do not have any ferrite cores.

The VersiCharge will need to be mounted on the bracket to hardwire the device.

Plug-supplied units only:

Open the VersiCharge to expose the backside of the unit. Remove the high voltage door by removing the four screws. Disconnect the attachment plug wires from the terminal block by loosening the screws in positions 1, 2 and 3, and remove the ferrite core (the core will be reinstalled when hardwired).

Disconnect and remove the strain relief and entire cord-and-plug assembly and follow the hardwiring instructions for plug and non-plug units below.

Hardwiring for plug and non-plug units:

NOTE: Do not adjust the two screws on the right side of the terminal block relays. These are only for factory use.

For commercial variants:

Expose the wiring terminals by opening the back of the unit and loosening the lug screws. Route the conductors into the VersiCharge from the conductor opening with proper strain relief. Pull 3 to 6 inches of slack through the conductor opening.

Locate the ferrite core (the ferrite core supplied in the resealable plastic bag or reserved when the plug was removed). Slide the ferrite core over the black and red wires ONLY and into position per Figure 6 (the green wire/ground should not be placed through the ferrite core). Wire the conductors (copper only) into the VersiCharge (L1, L2 and ground) from the connected conduit.

Using a torque screwdriver, torque all lugs to a value dependent on wire gauge size. For 6 AWG torque to 35 in-lbs; for 8 AWG, torque to 25 in-lbs; for 10 AWG, torque to 20 in-lbs. Replace the high voltage door and secure by engaging the snaps. Swing the unit closed until the bracket clip engages and secure the charger with the tamper-resistant security screws. Turn the circuit breaker for this circuit to the ON position.

For residential variants:

Expose the wiring terminals by opening the back of the unit and loosen the lug screws. Route conductors into the VersiCharge from the conductor opening with proper strain relief. Pull 14 to 16 inches of slack through the conductor opening.

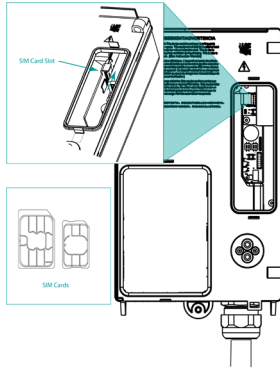
Locate the ferrite cores (the ones supplied in the resealable plastic bag). Perform a visual check of all ferrite cores and ensure they are free from damage. If the insulation of the ferrite is broken, a replacement should be requested by visiting the VersiCharge create case site, located here: <https://siemens-smartinfrastucture.force.com/SI/s/createcase>. Alternatively, support can be reached by calling (855) 950-6339, option 9. There is one ferrite core for each wire. Wrap each wire (L1, L2 and ground) two times through the ferrite core.

Wire the conductors into the VersiCharge (L1, L2 and ground) from the connected conduit. Insert the copper wires into the relay lugs (refer to the appropriate hardwire bending diagram on page 4). Place the leads of the capacitor that is also supplied in the same bag as the ferrite cores with the EVSE into the lugs of relay for L1 and L2. Using a torque screwdriver, torque all lugs to a value dependent on wire gauge size. For 6 AWG torque to 35 in-lbs; for 8 AWG, torque to 25 in-lbs; for 10 AWG, torque to 20 in-lbs.

Replace the high voltage door and secure by engaging the snaps. Swing the unit closed until the bracket clip engages and secure the charger with the tamper-resistant security screws. Turn the circuit breaker for this circuit to the ON position.

Steps 5 through 9 are only applicable to specific models/features. Match the charger feature to the installation step. Steps 10 through 12 are applicable to ALL chargers.

Step 5: SIM card installation (if not factory installed)



This hardware uses a micro SIM card, but will allow nano SIM cards with an adapter. The SIM card should NOT require a PIN and must be an IoT SIM card. Locked SIM cards are not supported by VersiCharge hardware.

AT&T and T-Mobile are supported carriers for the United States. Rogers and Telus are supported carriers for Canada. Data plans should have a minimum consumption of 250 MBs per month per charger.

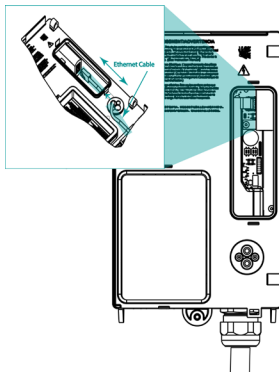
Expose the area holding the SIM card hardware by removing the four screws. The SIM card sits next to the Ethernet connection. Slide the micro SIM card into the slot (the SIM card is to be supplied by the service provider).

The SIM card socket is spring loaded. Slide the SIM card towards the bottom of the slot until it stays in place.

To remove/replace the SIM card, press the SIM card down and it will spring up and out of the slot.

If the SIM card is factory-installed, ensure that it is seated properly. If it is not seated properly in place, remove the SIM card, record its serial number, and then fully reinsert the SIM card.

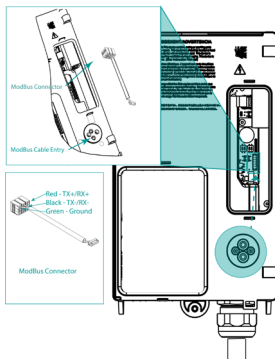
Step 6: Connect Ethernet



NOTE: The Ethernet cable connector should NOT be on the Ethernet cable when it is pushed through the gland. This gland will not self-seal if the connector is pushed through the gland and the NEMA 4 rating will be lost.

Push the Ethernet cable through the hole of the waterproof membrane of the gland. Connect the Ethernet RJ45 plug to the cable. Insert the RJ45 plug from the bottom up into the Ethernet port.

Step 7: Connect Modbus RS485 (commercial units only)



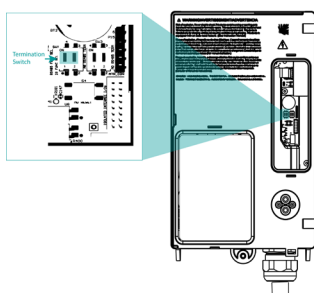
NOTE: The multi-use connector should NOT be on the Modbus cable when it is pushed through the gland. This gland will not self-seal if the connector is pushed through the gland and the UL TYPE 4 rating will be lost.

Using the supplied multi-use connector, gently press the connector into place. Push the external Modbus cable through the hole of the waterproof membrane of the gland. Gently tuck the wiring into the space.

NOTE: For more information, see the Modbus Manual and the Modbus Communications Setup in the VersiCharge AC Series Install and Operations Manual at usa.siemens.com/versichargecommercial, under the Installation section.

Security: The Modbus RTU is open protocol, and it is the responsibility of the installer to ensure the security of the wiring of these connections to prevent tampering.

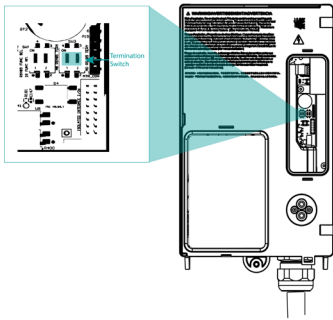
Step 8A: Set Modbus cellular termination switch (commercial cellular units only)



SW3-1 (left side) labelled RS485 is the termination switch. This switch should be in the ON position for the cellular unit or in the OFF position for a non-cellular unit (unless that non-cellular unit is the last one in the daisy chain, in which case must be ON).

NOTE: For more details on the Modbus and the termination switch position settings, refer to the complete VersiCharge AC Series Installation and Operations Manual and the VersiCharge Modbus Manual at www.usa.siemens.com/versichargecommercial, under the Installation section.

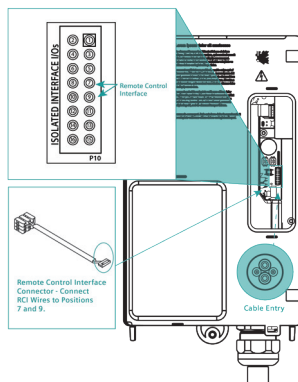
Step 8B: Set the Modbus non-cellular termination switch (commercial non-cellular units only)



SW3-2 (right side) labelled RS485 Term is the termination switch. For non-cellular units, the termination switch must be set to OFF (unless the unit is the last one in the daisy chain, then the switch must be set to ON).

NOTE: For more details on the Modbus and the termination switch position settings, refer to the complete VersiCharge AC Series Installation and Operation Manual at usa.siemens.com/versichargecommercial, under the Installation section.

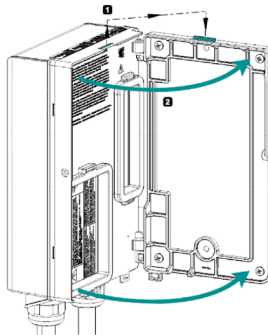
Step 9: Connect the external remote control interface using the multi-use connector (supplied only with commercial units)



The Siemens VersiCharge has a remote control interface that allows charging to be controlled by an external device. Examples include demand response switches, building automation systems, digital sensors, and so on.

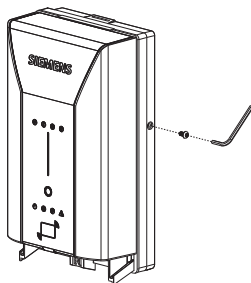
To wire a digital input into the dry contact in the connection area located inside of the VersiCharge, please refer to the complete VersiCharge AC Series Installation and Operation Manual at usa.siemens.com/versichargecommercial, under the Installation section for more details.

Step 10: Close the charger

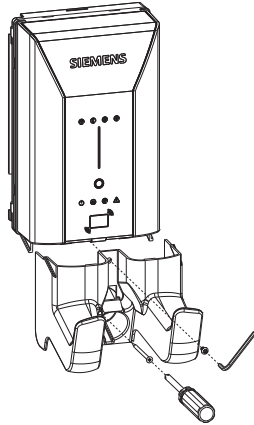


Close the charger.

Step 11: Secure the charger



Using the kit-supplied #10-32 x 3/8", tamper resistant, pin-in hex screw and hex wrench, secure the charger cover with one screw on the side.

Step 12: Install the holster

Align the holster with guides in the charger. Use the #10-32 x 3/8", tamper resistant pin-in hex screw and hex wrench to secure the holster to the charger (the hole at the top of the holster).

Standard installation: Use the #8 x 2-1/2" drywall screw to secure the holster to the wall stud.

Alternate installation: Use the additional wallboard screw with an anchor to secure holster to the wall.

Step 13: Check the system**DANGER**

Hazardous Voltage.
Will cause death or serious injury

Turn off power before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.

NOTE: Whenever the interior wiring is exposed while there is power to the unit, there is danger of hazardous voltage and serious injury.

Turn the power on; the white Power Available light should illuminate. If it does not, verify that the outlet or wire is putting out 240 V or 208 V using the voltmeter.

With the Power Available light on, plug the EVSE cable into the car. If you have any fault lights, please refer to the full manual at www.usa.siemens.com/versichargeinstall.

Siemens Sifinity Go mobile app: Download the Sifinity Go mobile app to your smartphone to get started using your charger. Find these applications at either the [Google Play](https://play.google.com/store/apps/details?id=com.siemens.sifinitygo) or [App Store](https://apps.apple.com/us/app/siemens-sifinity-go/id1444444444).

Siemens Commercial Charger Configuration Tool (PC App): Download the Configuration Tool (PC application) to configure commercial chargers at <https://support.industry.siemens.com/cs/document/109798469/versicharge-ac-wallbox-commissioning-tools?dti=0&lc=en-BG>.

To register the hardware: <https://siemens-smartinfrastucture.force.com/eMobilityCloud>.

If you don't have an existing account and are not using the mobile app, you can create an account in VersiCloud before commissioning the chargers at <https://versichargesg.com/account>.

If assistance is needed, create a support ticket at <https://sieops.my.site.com/eMobilityCloud>.

Visit usa.siemens.com/versichargeinstall for additional instructions and information or scan the QR code below to learn how to easily install your VersiCharge AC level 2 EV charger.



Legal Manufacturer

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Telephone: (855) 950-6339, option 9, or visit
<https://sieops.my.site.com/eMobilityCloud>
for service.

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