Siemens 39VIMCCN
Installation and Commissioning Guide

INSTALLATION SCOPE

Target product	39VIMCCN
Installed platform	APACS+
Work scope	Controlled replacement of the process voltage input module position
Completion point	Verified mechanical, electrical, configuration and functional state

READINESS CHECKLIST

Work authorization	Place the affected equipment in the approved maintenance condition.
Exact identity	Confirm the complete 39VIMCCN marking before removal.
Tools and ESD	Prepare approved tools and electrostatic controls.
As-found capture	Photograph connectors, labels, orientation and conductor positions.
Configuration capture	Save addresses, scaling, ranges, logic and diagnostic settings.
Isolation plan	Identify every electrical, process and communication energy source.
Replacement condition	Inspect the replacement item for damage or contamination.
Test plan	Define the static, dynamic and process checks before starting.

WORK PACKAGE CONTENTS

Connection map	Terminal, connector, common, shield and grounding assignments.
Configuration record	Address, range, scaling, logic and diagnostic settings.
Isolation record	Confirmed electrical, process and communication boundaries.
Acceptance record	Static, dynamic, alarm and process-response results.

ApterPower product support
Scan for model-specific assistance.

Isolation and removal

CONTROLLED REMOVAL SEQUENCE

1. Stabilize	Move the affected loop, channel or controller to its approved safe state.
2. Isolate	De-energize required supplies and isolate related process energy.
3. Verify	Confirm absence of hazardous energy with approved test equipment.
4. Label	Label every cable, connector, terminal and shield before disconnection.
5. Capture	Retain orientation, keying, switch positions and indicator state.
6. Disconnect	Release connectors without twisting, pulling cable bodies or damaging pins.
7. Remove	Support the product and disengage latches, screws or guides evenly.
8. Inspect	Check the vacated position, mating contacts and terminal hardware.

AS-FOUND CAPTURE

Mechanical Orientation, support, fasteners and connector engagement.	Electrical Supply, polarity, common, shield and field assignments.
Configuration Address, range, scaling, logic and communication settings.	Operating state Displayed values, channel status, alarms and bypasses.

REMOVAL STOP CONDITIONS

Unexpected energy	Stop and restore the isolation boundary.
Damaged connector	Repair or replace the mating hardware before installation.
Unclear conductor	Trace and identify the circuit before disconnection.
Identity mismatch	Do not install until the complete execution is resolved.

Physical and electrical installation

INSTALLATION SEQUENCE

1. Compare	Compare the replacement marking with 39VIMCCN and the removed item.
2. Prepare	Clean the mounting position and remove foreign material.
3. Align	Align guides, keys and connectors without forcing the assembly.
4. Seat	Seat the product fully and tighten fasteners evenly.
5. Reconnect	Restore every labeled conductor and connector to its original position.
6. Shield	Restore shields, commons and protective grounding exactly as assigned.
7. Inspect	Check strain relief, clearance, polarity and connector latching.
8. Verify	Perform an independent point-to-point connection review.

CONNECTION RESTORATION

Field side	Match the saved terminal and cable labels.
Rack side	Confirm backplane or carrier engagement.
Reference circuits	Restore common, return and reference conductors.
Communication	Restore network connectors, addressing hardware and termination.
External supply	Verify supply class, polarity and protective devices.
Mechanical support	Remove strain from connectors and cable entries.

PRE-POWER INSPECTION

Identity Complete marking matches the work order.	Hardware No bent pins, loose strands or damaged insulation.
Connections All assigned positions restored and checked.	Area Tools, jumpers and temporary materials removed.

Configuration and startup

CONFIGURATION RESTORATION

Addressing	Restore the retained rack, slot, node or channel identity.
Signal range	Restore the intended voltage, current or communication range.
Scaling	Restore engineering units, zero, span and direction.
Logic	Restore interlocks, permissives, fail states and output behavior.
Diagnostics	Restore fault thresholds, masks and status handling.
Communication	Restore baud rate, protocol, link or peer settings where applicable.
Operator display	Confirm tags, labels and values map to the intended point.
Change control	Document every approved difference from the saved configuration.

CONTROLLED STARTUP

Power application	Energize under supervision and watch for abnormal current, heat or odor.
Status review	Check ready, fault and communication indications.
Static comparison	Compare the idle value or state with the process reference.
Channel walkdown	Confirm each affected input, output or communication path.
Alarm review	Verify expected alarms and clear only understood conditions.
Bypass control	Track every bypass until final release.

STARTUP HOLD POINTS

Fault status Stop before forcing operation.	Unstable value Check wiring, reference and scaling.
Wrong destination Review channel ownership and addressing.	Unexpected output Return the process to the safe state.

Commissioning and release

ACCEPTANCE SEQUENCE

Mechanical acceptance	Fasteners, supports and connectors secure.
Electrical acceptance	Supply, polarity, common, shield and grounding verified.
Configuration acceptance	Address, range, scaling and diagnostics restored.
Static acceptance	Idle value or state agrees with the retained reference.
Dynamic acceptance	Controlled stimulus produces the expected proportional response.
Alarm acceptance	Configured alarms, interlocks and indications operate correctly.
Process acceptance	Operations confirms the final process response.
Release	Remove authorized bypasses and close the work package.

TROUBLESHOOTING GUIDE

No status	Check supply, seating, fuse and rack enable state.
Fault indication	Review wiring, configuration and diagnostic code.
Wrong value	Check range, scaling, polarity, common and channel mapping.
Unstable value	Inspect shielding, grounding, connector contact and source stability.
No communication	Check address, protocol, cable path and network termination.
No process response	Trace the path from source through controller to destination.

RELATED INSTALLATION PAGES

Siemens 6DM1001-2LA02-2	https://www.apterpower.com/Siemens/6dm1001-2la02-2
Siemens 6DD3460-0AC0	https://www.apterpower.com/Siemens/Siemens-Simadyn/6dd3460-0ac0