

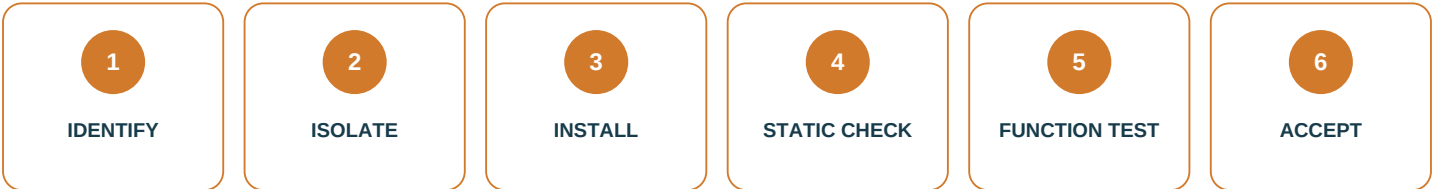
FIELD WORKFLOW

# Schneider Electric 140CPS12420C

115/230 V AC redundant Quantum power supply

The module combines selectable AC input ranges, internal overvoltage and overload protection, redundant current sharing and a green PWR OK indication.

## Release-gate sequence



## Before work starts

- Confirm the complete Schneider Electric 140CPS12420C identity before isolation.
- Record Product range: Modicon Quantum automation platform, Product type: Redundant power supply module, Input ranges: 93–138 V AC; 170–276 V AC.
- Photograph the installed position, connector orientation, cable labels and visible indicators.
- Capture the active channel map, network settings, alarm logic or rack-population record that applies to this item.
- Place affected equipment in the approved safe maintenance condition.
- Prepare calibrated test equipment and the exact-model acceptance record.

## Field record essentials

### MODEL ID

Record 140CPS12420C exactly.

### SYSTEM

Accepts the documented 115 V or 230 V AC range through the protected power terminal strip.

### SETTINGS

Preserve the verified installed configuration.

### TEST BASIS

Define static and functional acceptance evidence.

## Pre-installation verification

### CHECK 01

Confirm the complete Schneider Electric 140CPS12420C identity before isolation.

### CHECK 02

Record Product range: Modicon Quantum automation platform, Product type: Redundant power supply module, Input ranges: 93–138 V AC; 170–276 V AC.

### CHECK 03

Photograph the installed position, connector orientation, cable labels and visible indicators.

### CHECK 04

Capture the active channel map, network settings, alarm logic or rack-population record that applies to this item.

### CHECK 05

Place affected equipment in the approved safe maintenance condition.

### CHECK 06

Prepare calibrated test equipment and the exact-model acceptance record.

## Interface inventory

- AC source: Accepts the documented 115 V or 230 V AC range through the protected power terminal strip.
- Conversion stage: Produces the regulated 5.1 V DC Quantum backplane supply.
- Redundant pair: Shares load with the engineered companion supply in the redundant architecture.
- Alarm circuit: Provides the normally closed contact for loss-of-input signalling.

### Hold point

Do not continue if the complete model, field-circuit identity, stored settings, protective functions or safe isolation state cannot be verified. Preserve existing wiring records and escalate the exact unresolved item.

## Installation sequence

1

Match the replacement label to Schneider Electric 140CPS12420C and the approved hardware record.

2

Review the recorded wiring, interfaces, rack position and configuration before disturbing hardware.

3

Isolate hazardous energy and prove the required electrical condition at the work point.

4

Apply grounded ESD controls while handling the electronic assembly or backplane connection.

5

Label and remove cables or conductors without changing their established order or path.

6

Inspect terminals, connectors, guides, latches, sealing and mounting hardware for damage or contamination.

7

Seat and secure the exact article without forcing connectors; restore each interface to its recorded position.

8

Re-energize under the approved sequence and review hardware, channel, power or network diagnostics.

## Commissioning and acceptance

### GATE 1

Verify the installed identity remains Schneider Electric 140CPS12420C after energization.

### GATE 2

Compare restored interfaces, channel assignments or rack population with the approved engineering record.

### GATE 3

Verify source voltage, PWR OK status, backplane output and the documented single-supply-loss response under controlled rack loading.

### GATE 4

Check alarm, diagnostic and fault responses without defeating required protective functions.

### GATE 5

Confirm adjacent modules and unaffected channels or network drops continue to operate normally.

### GATE 6

Inspect connectors, terminals, cable strain, unusual temperature, odor and visible indications during the test.

### GATE 7

Record measured values, software indications, diagnostic events and corrective actions.

### GATE 8

Obtain the required engineering or operations acceptance before service release.

## Fault-response checks

- A power fault requires checks of source range, fuse, terminals, rack load, redundant companion and alarm-contact wiring.
- Intermittent behavior: inspect seating, connector retention, shielding, grounding and vibration exposure.
- Wrong point or position: reconcile the physical slot, terminal or network identity with the controller and drawing.
- Persistent diagnostic: compare the as-left condition with the captured pre-maintenance baseline.
- Neighboring faults: inspect shared backplane power, common conductors, cable paths and adjacent interfaces.
- Repeat failure: stop substitution and escalate the exact identity, evidence and test record for engineering review.

### Acceptance boundary

Release only after the normal state, commanded state, principal fault state and recovery behavior have all been observed at the field device, module and control-system indication.

Reference and handover

SOURCE 1

Modicon Quantum Hardware Reference Guide, document 35013379, pages 88–90

SOURCE 2

140CPS12420C official product data sheet

Related products

Verified related products on ApterPower

Schneider Electric 140XCA71706

Quantum backplane extension cable

[View Schneider Electric 140XCA71706](#)

CONFIGURATION

Final settings and mappings archived

WIRING

Terminal and conductor labels reconciled

TEST RECORD

Measured results and fault tests retained

OPERATIONS

Normal indication and response briefed

Contact Apter Power

PHONE +86 180 3023 5313

EMAIL [sales13@apterpower.com](mailto:sales13@apterpower.com)

WEBSITE [www.apterpower.com](http://www.apterpower.com)



Share the exact 140CPS12420C nameplate, application and required quantity for a model-specific quotation.