

PRODUCT INFORMATION DASHBOARD

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.

PRODUCT ROLE

115/230 V AC input

SYSTEM

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

INTERFACE

5.1 V DC backplane output

SERVICE FOCUS

10 A redundant-pair capacity

Exact-model highlights

- 115/230 V AC input
- 5.1 V DC backplane output
- 11 A standalone rating
- 10 A redundant-pair capacity

Release questions

IDENTITY

Is the complete 140CPS12420C code confirmed?

INTERFACE

Do field signals and companion equipment match?

SETTINGS

Are installed parameters and mappings preserved?

ACCEPTANCE

Have normal, fault and recovery states been tested?

Technical data

Product range	Modicon Quantum automation platform
Product type	Redundant power supply module
Input ranges	93–138 V AC; 170–276 V AC
Input frequency	47–63 Hz
Input current	1.1 A at 115 V; 0.6 A at 230 V
Inrush current	38 A at 115 V; 19 A at 230 V
Associated fuse	2 A slow-blow
Output voltage	5.1 V DC
Standalone output	11 A at 60 °C
Redundant output	10 A at 60 °C
Alarm contact	Normally closed; 6 A at 220 V AC or 5 A at 30 V DC
Alarm drop-out	Input below 8 V DC
Protection	Internal output overvoltage and overload protection
Indicator	Green PWR OK LED
Operating temperature	0–60 °C

Application safeguards

SAFEGUARD 1

Isolate both AC feeds and prove the safe state before removing either redundant supply.

SAFEGUARD 2

Record the live and neutral conductors, protective earth, alarm contact and rack position.

SAFEGUARD 3

Use the documented 2 A slow-blow external fuse arrangement.

SAFEGUARD 4

Verify the installed AC source lies within the selected input range before energization.

Common applications

Quantum redundant rack

Maintains backplane power with the documented redundant supply pairing.

AC-powered local rack

Converts 115 V or 230 V AC to the Quantum 5.1 V backplane bus.

Power-fault annunciation

Uses the normally closed alarm contact in the site monitoring circuit.

Power-supply renewal

Restores fuse, terminal, load-sharing and PWR OK checks for the same model.

Interface checklist

- 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.

Installation snapshot

STEP 1

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

STEP 2

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

STEP 3

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

STEP 4

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

Model-specific FAQ

Q1 What input supplies are supported by Schneider Electric 140CPS12420C?

It accepts 93–138 V AC or 170–276 V AC at 47–63 Hz.

Q2 What output does Schneider Electric 140CPS12420C provide to the Quantum rack?

It supplies 5.1 V DC to the backplane.

Q3 What is the standalone current rating of Schneider Electric 140CPS12420C?

The standalone rating is 11 A at 60 °C.

Q4 What is the redundant-pair capacity of Schneider Electric 140CPS12420C?

A matched redundant pair provides a documented total load capacity of 10 A at 60 °C.

Q5 Which fuse is specified for Schneider Electric 140CPS12420C?

Use a 2 A slow-blow external fuse in the documented supply arrangement.

Q6 What alarm contact is available on Schneider Electric 140CPS12420C?

Terminals 1 and 2 provide a normally closed contact rated 6 A at 220 V AC or 5 A at 30 V DC.

Q7 How should Schneider Electric 140CPS12420C redundancy be tested?

With the rack in a controlled state, remove one feed at a time and verify alarm response, remaining PWR OK status and uninterrupted rack power.

Q8 What must be checked before replacing Schneider Electric 140CPS12420C?

Record both feeds, fuse protection, alarm wiring, rack load, companion supply model and backplane position.

Product precautions

- 1

Isolate both AC feeds and prove the safe state before removing either redundant supply.
- 2

Record the live and neutral conductors, protective earth, alarm contact and rack position.
- 3

Use the documented 2 A slow-blow external fuse arrangement.
- 4

Verify the installed AC source lies within the selected input range before energization.
- 5

Confirm total rack load does not exceed the applicable standalone or redundant capacity.
- 6

Preserve the normally closed alarm-contact logic and its external circuit rating.
- 7

Energize the pair in a controlled sequence and observe both PWR OK indications.
- 8

Prove loss-of-one-supply alarm response and continued rack operation before release.

Related products

Verified related products on ApterPower

Schneider Electric 140CPU43412A
Quantum processor module

[View Schneider Electric 140CPU43412A](#)

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

