

Schneider Series Service Manual

140CPS42400C

1. Description

The 140CPS42400C from Schneider Electric’s Modicon Quantum series is a power supply module designed for robust industrial applications. Featuring an input voltage range of 48 to 60 V DC, it provides a steady output voltage of 5.1 V DC.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Power Supply Module
Product	Line Modicon Quantum
Part	Number 140CPS42400C
EAN	3595861137172
Fuse	Rating 2 A time-lag
Hold-up	Time 13 ms @ 48 V
Input	Voltage 48-60 V DC
Overvoltage	Protection Internal
Output	Voltage 5.1 V DC
Local	Signaling 1 green LED (PWR OK)
Overload	Protection Internal
Output	Current 8 A redundant
Inrush	Current 14 A @ 40 V
Input	Current ≤ 3.8 A
Alarm	Output 1 NC, 6 A @ 220 V
Power	Dissipation 17.2 W
Marking	CE

3. Product Information

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Technical specifications for 140CPS42400C

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Input Current ≤ 3.8 A

Alarm Output 1 NC, 6 A @ 220 V

Power Dissipation 17.2 W

Marking CE

Description

The Schneider Electric 140CPS42400C power supply module belongs to the Modicon Quantum series. It is engineered to accommodate input voltages between 48 and 60 V DC. The module maintains a consistent output voltage of 5.1 V DC to support various applications. A time-lag fuse rated at 2 A ensures adequate protection against short circuits and other faults.

One of the key features of this module is its hold-up time of 13 ms at 48 V, allowing it to maintain output stability during brief interruptions in power. Internal mechanisms are set for both overload and overvoltage protection, enhancing reliability in demanding environments. The module is capable of delivering a redundant output current of up to 8 A, which is essential for applications that require fail-safe operations.

When activated, a green LED indicator provides local status signaling, showing that the power is operational. The input current drawn by the module does not exceed 3.8 A, while it can handle an inrush current of 14 A at 40 V during power-up. It also features an alarm output rated at 6 A at 220 V, which can signal abnormal conditions. The power dissipation during operation is registered at 17.2 W, facilitating efficient thermal management.

Additionally, the module is marked with the CE certification, confirming compliance with European safety and performance standards. This design ensures that the 140CPS42400C can be integrated seamlessly into industrial automation systems, maintaining robust power supply functions under various load conditions.

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