

Schneider Series Service Manual

140CPS41400C

1. Description

The 140CPS41400C power supply module from Schneider Electric's Modicon Quantum series is engineered to deliver reliable voltage regulation. With an input range of 48 to 60 V DC, this unit supports stable operation in various environments.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Power Supply Module
Product	Line Modicon Quantum
Part	Number 140CPS41400C
EAN	3595861137165
Overvoltage	Protection Internal
Input	Voltage 48-60 V DC
Fuse	Rating 2 A time-lag
Format	Standard
Overload	Protection Internal
Input	Current ≤ 3.8 A
Output	Voltage 5.1 V DC
Configuration	Summable
Alarm	Output 1 NC, 6 A @ 220 V
Inrush	Current 14 A @ 40 V
Output	Current 8 A summable
Local	Signaling 1 green LED (PWR OK)
Input	Hold-up Time 13 ms @ 48 V
Rated	Power 15.6 W
Description	
The	Schneider Electric 140CPS41400C is designed as a power supply module, serving critical applications within the Modicon Quantum series. Supporting an input voltage range of 48 to 60 V DC, it effectively maintains power stability across various operating conditions. The module can manage an output voltage of 5.1 V DC while providing a maximum output current of 8 A in a summable configuration, allowing for flexibility in power distribution.

3. Product Information

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Technical specifications for 140CPS41400C

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Equipped with internal protections against overvoltage and overload, this module efficiently safeguards its components and extends operational life. It utilizes a 2 A time-lag fuse rating to manage electrical surges.

During operation, the module requires an input current of up to 3.8 A and experiences an inrush current of 14 A at 40 V. The input hold-up time measured at 48 V is 13 ms, ensuring that power is maintained even during brief interruptions. Local signaling is provided by a green LED indicating power status (PWR OK).

For alarm signaling, this module supports one normally closed (NC) output rated for 6 A at 220 V. The standard format of the unit facilitates effortless integration into existing systems. Overall, the 140CPS41400C power supply module showcases reliability and efficiency in providing essential power supply functions.