

Schneider Series Service Manual

140CPS11400C

1. Description

Designed as a power supply module, the Schneider Electric 140CPS11400C ensures reliable power conversion for Modicon Quantum systems. It accepts an input voltage range of 115 to 230 V AC and operates efficiently at frequencies of 50 or 60 Hz, delivering a stable output of 24 V DC with a current rating of 8 Amperes.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon Quantum
Part	Number 140CPS11400C
Product	Power Supply Module
Input	Voltage 115 to 230 V AC
Input	Frequency 50/60 Hz
Output	Voltage 24 V DC
Output	Current 8A
Power	Dissipation 150 W
Protection	Class IP20
Ambient	Temperature Range 0 to 40 degrees Celsius
Operating	Humidity Up to 80% RH (non-condensing)
Storage	Humidity Up to 80% RH (non-condensing)
Maximum	Operating Altitude 1000 meters above sea level without derating

3. Product Information

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Technical specifications for 140CPS11400C

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Description

The 140CPS11400C power supply module produced by Schneider Electric is compatible with Modicon Quantum series setups. It functions by converting input voltages from 115 to 230 Volts AC, supporting both 50 Hz and 60 Hz operational frequencies. The module provides a consistent output at 24 Volts DC while delivering up to 8 Amperes of current, making it suitable for a variety of applications.

Featuring a power dissipation capability of 150 watts, this module is designed for efficient power management. In terms of physical size, it measures 120 mm in length, 100 mm in width, and 154 mm in height, which allows for straightforward integration into control panels. With a total weight of 1.5 kg, the module is lightweight yet robust enough for industrial environments.

Operating within an ambient temperature range from 0 to 40 degrees Celsius, the 140CPS11400C is built to perform reliably in moderately warm settings. It also caters to humidity conditions, handling operating and storage levels up to 80% Relative Humidity without the risk of condensation significantly affecting performance. Furthermore, this power supply module can be effectively utilized at altitudes reaching 1000 meters, maintaining its specifications without derating, thus ensuring versatile deployment within various locations.

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