

Schneider Series Service Manual

140CRA93100C

1. Description

The 140CRA93100C from Schneider Electric is an adapter module within the Modicon Quantum series. It supports a maximum of 27 I/O modules and utilizes a 75 Ohm coaxial cable for efficient data transmission at a rate of 1544 Mbit/s.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon Quantum
Part	Number 140CRA93100C
EAN	3595861136298
Product	Adapter Module
Maximum	Number of I/O Modules 27
Type	of Cable 75 Ohm Coaxial Cable
Transmission	Rate 1544 Mbit/s
Dynamic	Range 35 dB
Isolation	Voltage 500 V
Voltage	Type DC
Electrical	Connection 1 Female Connector
Power	Dissipation 3 W
Bus	Current Requirement 600 mA
Resistance	to Electrostatic Discharge 4 kV / 8 kV
Resistance	to Electromagnetic Fields 10 V/m

3. Product Information

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Technical specifications for 140CRA93100C

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Resistance to Electromagnetic Fields 10 V/m

Description

The 140CRA93100C adapter module is part of Schneider Electric’s Modicon Quantum series, designed to facilitate connections within complex control systems. Capable of managing up to 27 I/O modules, this device enhances modularity for extensive automation setups. It operates over a 75 Ohm coaxial cable, ensuring effective signal transmission with a speed of 1544 Mbit/s.

This module demonstrates a dynamic performance with a range of 35 dB and is built to maintain an isolation voltage of 500 V for safety. Designed for DC voltage applications, it features a single female connector for straightforward electrical connectivity. The bus current requirement is specified at 600 mA, indicating the current draw needed for optimal function.

In terms of durability, this adapter module is resilient against electrostatic discharge, rated at 4 kV for contact discharge and 8 kV for air discharge. Additionally, it can withstand electromagnetic fields of up to 10 V/m, which protects it from interference in noisy environments. The power dissipation of the module stands at 3 W, indicating efficiency in its power usage, and it weighs only 0.5 kg, allowing for easy integration into existing systems.