

Schneider 140AVO02000C Manual

Brand	Schneider
Product Series	Schneider
Product Type	Analog output module

Description

The 140AVO02000C is an analog output module from Schneider Electric's Modicon Quantum series, featuring four output channels with a 12-bit resolution. It supports current outputs ranging from -10 to 10 mA and ensures precise control with a linearity of ± 1 LSB.

Technical specifications for 140AVO02000C

Manufacturer Schneider Electric

Product Type Analog output module

Product Line Modicon Quantum

Part Number 140AVO02000C

EAN 3595861136182

Channels 4

Addressing Requirement 4 output words

Output Resolution 12 bits

Output Current -10...10 mA

Source Resistance 0.1 Ohm

Max Cable Distance 400 m

Linearity 1 LSB (+/-)

Update Time 3 ms

Max Power Dissipation 4.5 W

Isolation Between Channels 500 V for 1 minute

Bus Current Requirement 700 mA

Fuse Rating 0.063 mA

Marking CE

www.AutoDCSTech.com

Description

Schneider Electric's 140AVO02000C is engineered as an analog output module within the Modicon Quantum series. It comprises four distinct channels, facilitating effective signal processing in various automation applications. Each channel can provide current outputs in the range of -10 to 10 mA, ensuring versatility in controlling different devices.

The module achieves a resolution of 12 bits, which allows for fine granularity in analog signal representation. For addressing purposes, it requires four output words, which can be easily integrated into the system's architecture. This unit maintains a source resistance of 0.1 Ohm, contributing to the precision of the output.

Maximum cable lengths can extend to 400 m, making it suitable for applications spread over larger distances. Additionally, it offers channel isolation of 500 V for a duration of one minute, ensuring protection against voltage surges and maintaining integrity across the outputs. With a reported linearity of 1 LSB (+/-), this module guarantees consistent performance.

The operational requirements include a bus current of 700 mA, and a maximum power dissipation of 4.5 W, which emphasizes its efficiency. Weighing in at 0.3 kg, it's manageable for mounting in various configurations. The update time for the module is recorded at 3 ms, promoting rapid response for dynamic applications. The unit also comes with a fuse rating of 0.063 mA, enhancing its

precautionary measures for electrical safety. Compliance with CE marking further establishes its adherence to European safety standards.

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