

Schneider Series Service Manual

170ADO35000

1. Description

The 170ADO35000 is a discrete output module from Schneider Electric’s Modicon Momentum series. It features 32 solid-state outputs, capable of handling a surge current of 5 A for brief durations of 1 ms, with an output voltage range of 0 to 24 V DC.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Discrete Output Module
Product	Line Modicon Momentum
Part	Number 170ADO35000
UPC	785901308003
Weight	0.56 lbs (0.26 kg)
Outputs	32 Solid State
Surge	Current 5 A, 1 ms duration
Voltage	Drop <0.5 V at 0.5 A
Overload	Protection Electronically protected
Insulation	Voltage 4 kV IEC 801-2
Air	Discharge Voltage 8 kV IEC 801-2
Radiated	Immunity 10 V/m, 80-1000 MHz
Operating	Temperature 0 to 60°C
Storage	Temperature -40 to 85°C
Max	Output Frequency 1 kHz operation
Installation	Location Pollution Degree 2
Compliance	Standards CSA, UL-approved
Output	Voltage Range 0-24 V DC rated
Certifications	CE, RoHS compliant

3. Product Information

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Technical specifications for 170ADO35000

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Product Line Modicon Momentum

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Max Output Frequency 1 kHz operation

Installation Location Pollution Degree 2

Compliance Standards CSA, UL-approved

Output Voltage Range 0-24 V DC rated

Certifications CE, RoHS compliant

The Schneider Electric 170ADO35000 discrete output module operates within the Modicon Momentum series and is engineered for robust performance in control systems. It boasts a configuration of 32 solid-state outputs designed for reliability and efficiency. This module can manage a surge current of 5 A for a duration of 1 ms, ensuring strong responsiveness under high load conditions. The voltage drop during operation is kept under 0.5 V when delivering 0.5 A, which is advantageous for maintaining system integrity.

In terms of protection, the module is equipped with electronic overload safeguards, enhancing its durability and reliability. Insulation voltage has been rated at 4 kV according to IEC 801-2 standards, offering additional safety against electrical faults. Additionally, it supports an air discharge voltage of up to 8 kV, confirming its resilience in adverse conditions. The module also exhibits radiated immunity of 10 V/m across a frequency range of 80 to 1000 MHz, ensuring stable operation in electrically noisy environments.

Operating temperature for the 170ADO35000 extends from 0 to 60°C, making it suitable for a variety of environments. When not in use, it can withstand storage temperatures ranging from -40 to 85°C. The maximum output frequency that can be achieved is 1 kHz, which meets the demands of modern control applications.

Designed for installation in areas classified as Pollution Degree 2, the module is compliant with various industry standards, including CSA and UL certifications. Furthermore, it is CE and RoHS compliant, aligning with international regulatory requirements for safety and environmental impact. Overall, the 170ADO35000 is a reliable choice for discrete output control within various automation systems.