

Schneider Series Service Manual

140ACI05100SC

1. Description

The 140ACI05100SC is a 32-point input module from Schneider Electric's Modicon Quantum series. This unit delivers precision in 12-bit or 16-bit resolutions and offers an accuracy range of ±0.1% to ±0.2% of full scale measurements, making it suitable for precise applications.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Input Module, 32 Point
Product	Line Modicon Quantum
Part	Number 140ACI05100SC
Weight	2.00 lbs (0.91 kg)
Precision	12-bit or 16-bit resolution
Accuracy	±0.1% to ±0.2% of full scale
Channel-to-Channel	Isolation Typically 500V DC
Channel-to-Backplane	Isolation Typically 1500V DC
Operating	Temperature 0°C to 60°C
Storage	Temperature -40°C to 85°C
Mounting	Type DIN rail or panel mount
Relative	Humidity 5% to 95% non-condensing

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Technical specifications for 140ACI05100SC

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Description

Schneider Electric's 140ACI05100SC is an input module designed for high performance within the Modicon Quantum series. It provides the option of a 12-bit or 16-bit resolution to accommodate various applications requiring precision. The stated accuracy of this input module ranges from ±0.1% to ±0.2% of full scale, suited for high-accuracy measurement tasks.

Isolation management is exceptionally handled, offering channel-to-channel isolation typically at 500V DC and achieving 1500V DC isolation between the channel and backplane. This ensures reliable operation even in electrically noisy environments. Operating conditions are well-defined, with a temperature range suitable from 0°C to 60°C. For more extreme conditions, the module withstands storage temperatures from -40°C to 85°C.

Moisture resistance is also notable, as the device functions efficiently within relative humidity levels of 5% to 95% without condensation. Installation is flexible, allowing for either DIN rail or panel mounting based on user requirements. Weighing only 0.5 kg, this input module is lightweight while delivering solid performance in demanding automation applications.

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