

Schneider Series Service Manual

140DAI54300C

1. Description

The 140DAI54300C is a discrete input module from the Schneider Electric Modicon Quantum series. It features 16 input channels and operates at a voltage of 115 VAC, delivering reliable functionality in various applications.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Discrete input module
Product	Line Modicon Quantum
Part	Number 140DAI54300C
EAN	3595861135963
Input	Channels 16
Input	Voltage 115 VAC
Addressing	Requirement 1 input word
Input	Current 11.1 to 13.2 mA
Max	Leakage Current 2.1 mA
Bus	Current Requirement 180 mA
Max	Power Dissipation 5.5 W
Marking	CE
Format	Standard
Ambient	Temperature 0 to 60 °C
Standards	UL 508, CSA
Protective	Treatment Conformal coating

3. Product Information

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Technical specifications for 140DAI54300C

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Product Type Discrete input module

Product Line Modicon Quantum

Part Number 140DAI54300C

EAN 3595861135963

Input Channels 16

Input Voltage 115 VAC

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Input Current 11.1 to 13.2 mA

Max Leakage Current 2.1 mA

Bus Current Requirement 180 mA

Max Power Dissipation 5.5 W

Marking CE

Format Standard

Ambient Temperature 0 to 60 °C

Standards UL 508, CSA

Protective Treatment Conformal coating

Description

The Schneider Electric 140DAI54300C is a discrete input module within the Modicon Quantum series designed for versatility in industrial environments. It accommodates 16 input channels at a standard voltage of 115 VAC. A single input word is needed for addressing, making integration straightforward.

The module operates with an input current ranging from 11.1 to 13.2 mA, while the maximum leakage current remains at 2.1 mA. The device requires a bus current of 180 mA to function optimally, with a maximum power dissipation rated at 5.5 watts. The module maintains compliance with CE marking and adheres to UL 508 and CSA standards, ensuring safety and reliability in operations.

For consistent performance over varying temperatures, it operates effectively within an ambient temperature range of 0 to 60 °C. Additionally, it is treated with conformal coating, providing protection against moisture and dust. Weighing just 0.3 kg, the 140DAI54300C is a compact solution designed for robust applications.