

Schneider Series Service Manual

140DII33000

1. Description

The Schneider Electric 140DII33000 is part of the Modicon Quantum series, specifically designed as a discrete input module. It features 8 channels and operates efficiently within an input voltage of 8V.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon Quantum
Part	Number 140DII33000
Weight	2.00 lbs (0.91 kg)
Input	Type Discrete Inputs
Number	of Channels 8 Channels
No	Load Voltage 8V
Short-Circuit	Current 8 mA
Switching	Hysteresis Current 0.2 mA
Switching	Frequency 100 Hz
Internal	Resistance 2.5 kOhms
Response	Time 1 ms resistive
Operating	Temperature Range 0°C to 60°C
Storage	Temperature Range -40°C to 85°C
Mounting	Type Rack Mountable
Power	Dissipation 2 W
Module	Type Intrinsically Safe Input Module
CE	Marking Yes
Maximum	Relative Humidity 95% Without Condensation

3. Product Information

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Technical specifications for 140DII33000

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Product Line Modicon Quantum

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Module Type Intrinsically Safe Input Module

CE Marking Yes

Maximum Relative Humidity 95% Without Condensation

Description

The part number 140DII33000 by Schneider Electric is an advanced module within the Modicon Quantum series. This device specializes in handling discrete inputs with a total of 8 channels available. It operates at a no-load voltage of 8 volts. Supporting a switching frequency of 100 Hz, it ensures quick response times for dynamic control applications. In terms of performance, this module provides a short-circuit current of 8 mA and features a switching hysteresis current of 0.2 mA, aiding in stable operation. The internal resistance is noted at 2.5 kOhms, effectively managing the input load requirements. The response time is impressive, clocking in at just 1 millisecond for resistive loads, making it suitable for real-time monitoring and control.

For environmental conditions, the 140DII33000 is rated for operation within a temperature range of 0°C to 60°C, allowing deployment in typical industrial settings. In storage, this module withstands a broader temperature spectrum from -40°C to 85°C. It also supports humidity levels up to 95% without any risk of condensation, enhancing reliability in various environments.

This module is rack mountable, facilitating straightforward installation in existing setups. It has a power dissipation limit of 2 watts, reflecting efficient energy management. The CE marking demonstrates compliance with essential safety standards, ensuring that this intrinsically safe input module meets regulatory requirements for industrial applications.