

Schneider 140CRA21100 Manual

Brand	Schneider
Product Series	Schneider
Product Type	DIO drop interface

Description

The 140CRA21100, part of Schneider Electric's Modicon Quantum series, is an interface module equipped with a DIO drop interface. It operates with a supply voltage rating of 115/230 VAC and can handle input voltages from 85 to 276 VAC, making it versatile for various applications.

Technical specifications for 140CRA21100

Manufacturer Schneider Electric

Product Line Modicon Quantum

Part Number 140CRA21100

Description of Module Interface Module

Interface Type DIO drop interface

Number of Ports 1

Supply Voltage 115/230 VAC

Operational Supply Voltage Limit 85 to 276 VAC

Supply Frequency 47 to 63 Hz

Maximum Supply Current 0.2 A at 115 V and 0.4 A at 230 V

Inrush Current 10 A at 115 V and 20 A at 230 V

Rated Power 50 VA

Associated Fuse Rating 1.5 A

Output Voltage 5.1 V

Nominal Output Current 3 A

I/O Words 30 input words and 32 output words

Short-Circuit Protection With

Output Overvoltage Protection With

Range of product

Modicon Quantum automation platform

Product or component type

DIO drop interface

Complementary

Number of port

1 single

[Us] rated supply voltage

115/230 V AC

Supply voltage limits

85...276 V

Supply frequency

47...63 Hz

Maximum supply current

0.2 A 115 V

www.AutoDCSTech.com

0.4 A 230 V

Inrush current

10 A 115 V

20 A 230 V

Rated power in VA

50 VA

Associated fuse rating

1.5 A

Output voltage

5.1 V

nominal output current

3 A

Minimum load current

0 A

Short-circuit protection

With

Output overvoltage protection

With

I/O words

30 I/32 O

Typical backplanes

16 positions

6 positions

3 positions

2 positions

4 positions

10 positions

Diagnostics startup

RAM address

Checksum

RAM

Diagnostics run time

RAM address

RAM

Checksum

Power dissipation in W

11 W

Connections - terminals

Terminal block, 7 poles

Module format

Standard

Environment

Resistance to electrostatic discharge

4 kV contact IEC 801-2

8 kV on air IEC 801-2

Resistance to electromagnetic fields

9.1 V/yd (10 V/m) 80...2000 MHz IEC 801-3

Ambient air temperature for operation

32...140 °F (0...60 °C)

Ambient air temperature for storage

-40...185 °F (-40...85 °C)

www.AutoDCSTech.com

Relative humidity

95 % without condensation

Operating altitude

<= 5000 m

Protective treatment

TC

Standards

UL 508

Product certifications

GOST

C-Tick

UL

DNV

CSA Class 1 Division 2

Description

The Schneider Electric 140CRA21100 is designed as an interface module within the Modicon Quantum series. This unit operates via a DIO drop interface and accommodates a single port for streamlined connectivity. The module supports a primary supply voltage of either 115 or 230 VAC, while also accepting a wide operational voltage range between 85 and 276 VAC, which enhances its flexibility.

With a specified supply frequency of 47 to 63 Hz, it is capable of managing numerous electrical conditions. The maximum supply current is rated at 0.2 A for 115 V and 0.4 A for 230 V, with an inrush current of up to 10 A at 115 V and 20 A at 230 V. This interface module has a total rated power output of 50 VA, and it requires a fuse rated at 1.5 A for effective protection.

The module outputs a voltage of 5.1 V while providing a nominal output current of 3 A, thereby supporting adequate functionality for connected devices. It is configured with 30 input words and supports 32 output words, accommodating diverse operational requirements. The design includes essential protective features such as short-circuit protection and output overvoltage protection, safeguarding the module and connected equipment during operation.

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Output Overvoltage Protection With