

Schneider Series Service Manual

140CRA21110C

1. Description

The 140CRA21110C is a DIO drop interface module from Schneider Electric's Modicon Quantum series. It features a single port and operates with a dual supply voltage of 115 or 230 V AC.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type DIO Drop Interface
Product	Line Modicon Quantum
Part	Number 140CRA21110C
EAN	3595861136724
Ports	1
Supply	Voltage 115/230 V AC
Supply	Voltage Limits 85 to 276 V
Supply	Frequency 47 to 63 Hz
Rated	Power 50 VA
Fuse	Rating 1.5 A
Output	Voltage 5.1 V
Output	Current 3 A
Short-Circuit	Protection Yes
Overvoltage	Protection Yes
Power	Dissipation 11 W
Module	Format Standard
Standards	UL 508
Altitude	<= 5000 m
Description	
The	Schneider Electric 140CRA21110C is a component designed as a DIO drop interface under the Modicon Quantum series. This module is equipped with a single port and supports supply voltages of either 115 or 230 V AC. Additionally, it is built to handle voltage inputs ranging from 85 to 276 V AC, ensuring flexibility in various installations. With a supply frequency capacity extending from 47 Hz to 63 Hz, this module adapts well to different electrical environments.

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Technical specifications for 140CRA21110C

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The rated power for this unit is established at 50 VA, which ensures sufficient energy for operation. Safety features include a fuse rating of 1.5 A, which protects the module from excessive current. Output is well-regulated, providing 5.1 V at a current rating of 3 A, allowing it to drive attached devices effectively.

Furthermore, the module includes protection mechanisms against both short circuits and overvoltage, enhancing its reliability and safety in demanding applications. Power dissipation is noted at 11 W, indicating efficient energy use. This module conforms to UL 508 standards, affirming its compliance with industry safety regulations. Designed for use at altitudes of up to 5000 meters, the 140CRA21110C is versatile for various operational scenarios.

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

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

3 positions

10 positions

6 positions

4 positions

2 positions

Diagnostics startup

Checksum

RAM address

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/m (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)

Relative Humidity

95 % without condensation

Operating altitude

<= 16404.2 ft (5000 m)

Protective treatment

TC

Conformal coating Humiseal 1A33

Standards

UL 508

Product Certifications

GOST

CSA Class 1 Division 2

DNV

UL

C-tick

Ordering and shipping details

Category

18155-QUANTUM I/O & POWER SUPPLIES

Discount Schedule

PC21

GTIN

3595861136724

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.0 in (5.0 cm)

Package 1 Width

6.5 in (16.5 cm)

Package 1 Length

12.2 in (31.0 cm)

Package weight(Lbs)

24.8 oz (702.0 g)