Product data sheet

Specifications

Green Premium™

Modicon Quantum DIO drop interface - number of port: 2 redundant - 24 V DC

140CRA21120C

Discontinued on: Nov 1, 2022

End-of-service on: Nov 20, 2022

Discontinued - Service only

Main

Range Of Product	Modicon Quantum automation platform
Product Or Component Type	DIO drop interface

Complementary

Number Of Port	2 redundant
[Us] Rated Supply Voltage	24 V DC
Supply Voltage Limits	20…30 V
Maximum Supply Current	1.6 A 24 V
Inrush Current	30 A 24 V
Maximum Buffer Time	1 ms
Associated Fuse Rating	2.5 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	6 positions 3 positions 4 positions 16 positions 2 positions 10 positions
Diagnostics Startup	RAM RAM address Checksum
Diagnostics Run Time	Checksum RAM address RAM
Power Dissipation In W	11 W
Connections - Terminals	Terminal block, 7 poles
Module Format	Standard

Environment

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Resistance To Electrostatic Discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance To Electromagnetic Fields	9.14 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)
Relative Humidity	95 % without condensation
Operating Altitude	<= 5000 m
Protective Treatment	Conformal coating Humiseal 1A33 TC
Standards	UL 508
Product Certifications	CSA Class 1 Division 2 DNV UL GOST C-Tick

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.97 in (5.0 cm)
Package 1 Width	6.50 in (16.5 cm)
Package 1 Length	12.40 in (31.5 cm)
Package 1 Weight	24.16 oz (685.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	2
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	3.02 lb(US) (1.37 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

RoHS/REACh

Well-being performance

Reach Free Of Svhc	
Mercury Free	
Rohs Exemption Information	Yes

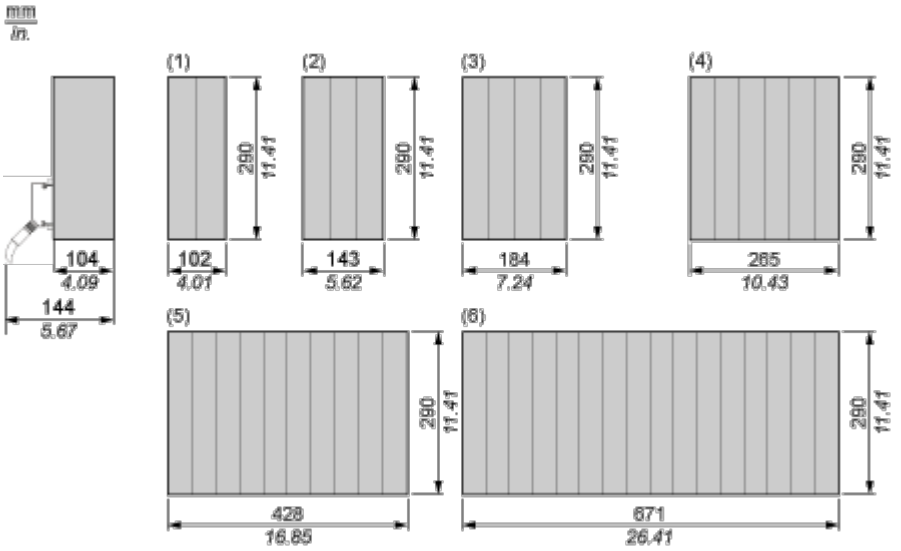
Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks



(1) 2 slots

(2) 3 slots

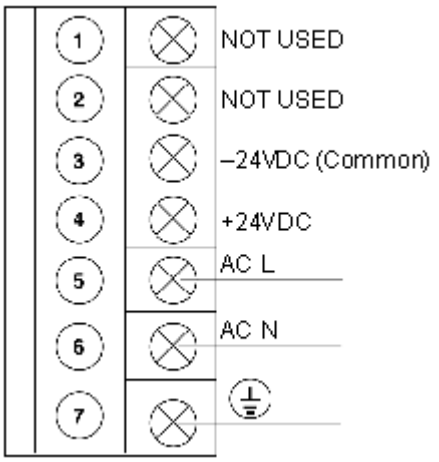
(3) 4 slots

(4) 6 slots

(5) 10 slots

(6) 16 slots

Connections and Schema

DC Powered Distributed I/O (DIO) Module

Wiring Diagram