

Product data sheet

Specifications



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

140CRA21220C

! Discontinued on: 31 December 2021

! To be end-of-service on: 31 December 2029

! 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	2 positions 16 positions 4 positions 10 positions 3 positions 6 positions
Diagnostics startup	RAM address RAM Checksum
Diagnostics run time	RAM RAM address Checksum
Power dissipation in W	11 W
Connections - terminals	Terminal block, 7 poles
Module format	Standard

Environment

Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...2000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m
Protective treatment	TC Conformal coating Humiseal 1A33
Standards	UL 508
Product certifications	CSA Class 1 Division 2 GOST UL C-Tick DNV

Packing Units

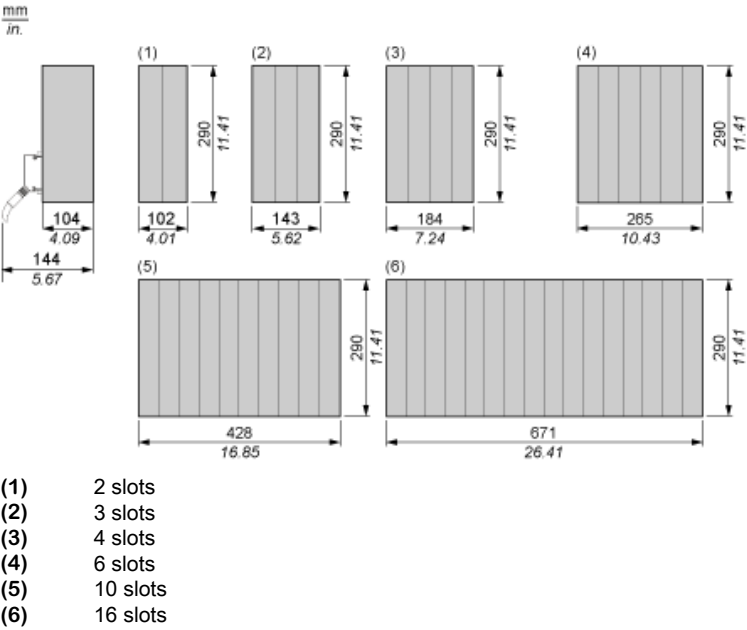
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.0 cm
Package 1 Width	16.0 cm
Package 1 Length	31.5 cm
Package 1 Weight	724.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.448 kg

Contractual warranty

Warranty	18 months
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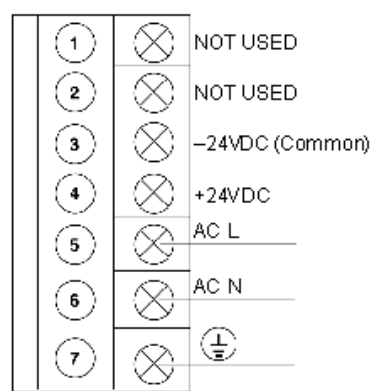
Racks for Modules Mounting

Dimensions of Modules and Racks



DC Powered Distributed I/O (DIO) Module

Wiring Diagram



Recommended replacement(s)

140CRA21220C is replaced by:

1x



EIO Drop adapter, Modicon X80, with Ethernet backplane, coated

BMECRA31210C