Product datasheet

Specifications





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

140CRA21220

- Discontinued on: 15 Jan 2023
- (!) To be end-of-service on: 31 Dec 2030

Main

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

Complementary

| Complementaly | |
|-------------------------------|------------------------------------------------------------------------------------------|
| Number Of Port | 2 redundant |
| [Us] Rated Supply Voltage | 24 V DC |
| Supply Voltage Limits | 2030 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 | 10 positions 2 positions 6 positions 3 positions 4 positions 16 positions |
| Diagnostics Startup | RAM address Checksum RAM |
| Diagnostics Run Time | Checksum RAM RAM address |
| 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 802000 MHz conforming to IEC 801-3 |
| Ambient Air Temperature For Operation | 060 °C |
| Ambient Air Temperature For Storage | -4085 °C |
| Relative Humidity | 95 % without condensation |
| Operating Altitude | <= 5000 m |
| Protective Treatment | ТС |
| Standards | UL 508 |
| Product Certifications | UL C-Tick GOST CSA Class 1 Division 2 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 | 726.0 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 | 1.878 kg |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

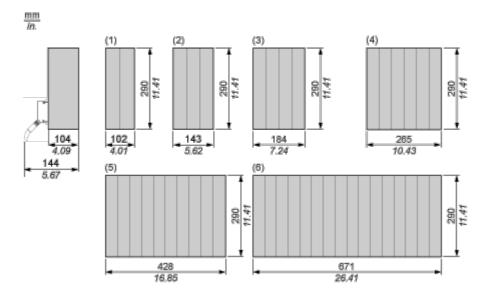
Certifications & Standards

| 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

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Connections and Schema

DC Powered Distributed I/O (DIO) Module

Wiring Diagram

