

# Product data sheet

Specifications



## discrete input module Modicon Quantum - 32 I - 5 V DC

140DDI15310

⚠ Discontinued on: Dec 31, 2022

⚠ To be end-of-service on: Dec 31, 2030

⚠ Discontinued - Service only

**Product availability: Non-Stock - Not normally stocked in distribution facility**

### Main

|                           |                                       |
|---------------------------|---------------------------------------|
| Range of Product          | Modicon Quantum automation platform   |
| Product or Component Type | Low voltage dc discrete input modules |
| Discrete input number     | 32                                    |

### Complementary

|                                 |                                                                                                                                            |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Group of channels               | 4                                                                                                                                          |
| Logic input                     | Negative (source)                                                                                                                          |
| Discrete input voltage          | 5 V TTL DC                                                                                                                                 |
| Input voltage limits            | 4.5...5.5 V                                                                                                                                |
| Voltage state 1 guaranteed      | 0.8 V DC                                                                                                                                   |
| Voltage state 0 guaranteed      | >= 4 V DC at 5.5 V supply voltage                                                                                                          |
| Current state 1 guaranteed      | 4 mA                                                                                                                                       |
| Addressing requirement          | 2 input words                                                                                                                              |
| Input impedance                 | 7500 Ohm                                                                                                                                   |
| Maximum leakage current         | 200 mA at Us = 5.5 V and Uin = 4 V                                                                                                         |
| Absolute maximum input          | 15 V during 1.3 ms decaying pulse<br>5.5 V continuous                                                                                      |
| Response Time                   | <= 250 µs from state 0 to state 1<br><= 500 µs from state 1 to state 0                                                                     |
| Protection Type                 | Input protection                                                                                                                           |
| Power dissipation               | 5 W                                                                                                                                        |
| Isolation between group and bus | 1780 Vrms for 1 minute                                                                                                                     |
| Isolation between group         | 500 Vrms for 1 minute                                                                                                                      |
| Local signalling                | 1 LED (green) for bus communication is present (Active)<br>1 LED (red) for external fault detected (F)<br>32 LEDs (green) for input status |
| Marking                         | CE                                                                                                                                         |
| Bus current requirement         | 170 mA                                                                                                                                     |
| Module format                   | Standard                                                                                                                                   |
| Product Weight                  | 0.99 lb(US) (0.45 kg)                                                                                                                      |

### Environment

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Standards                             | CSA C22.2 No 142<br>UL 508                      |
| Product Certifications                | GOST<br>FM Class 1 Division 2<br>cUL            |
| Resistance to electrostatic discharge | 4 kV contact IEC 801-2<br>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)                          |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC2118155  |
| Discount Schedule | PC21          |
| GTIN              | 3595861133037 |
| Returnability     | No            |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Nbr. of units in pkg.  | 1                 |
| Package 1 Height       | 6.4 in (16.3 cm)  |
| Package 1 Width        | 1.8 in (4.5 cm)   |
| Package 1 Length       | 12.3 in (31.2 cm) |
| Package weight(Lbs)    | 14.9 oz (423.0 g) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better

| Materials and Substances  |                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive         | <a href="#">Compliant</a>                                                                                                                                                                                                                                                                          |
| California proposition 65 | <b>WARNING:</b> This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

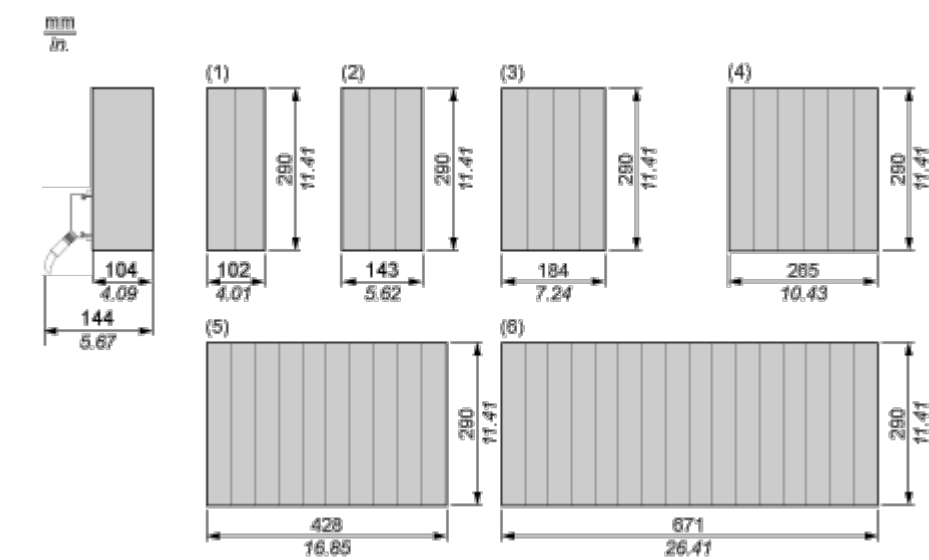
### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

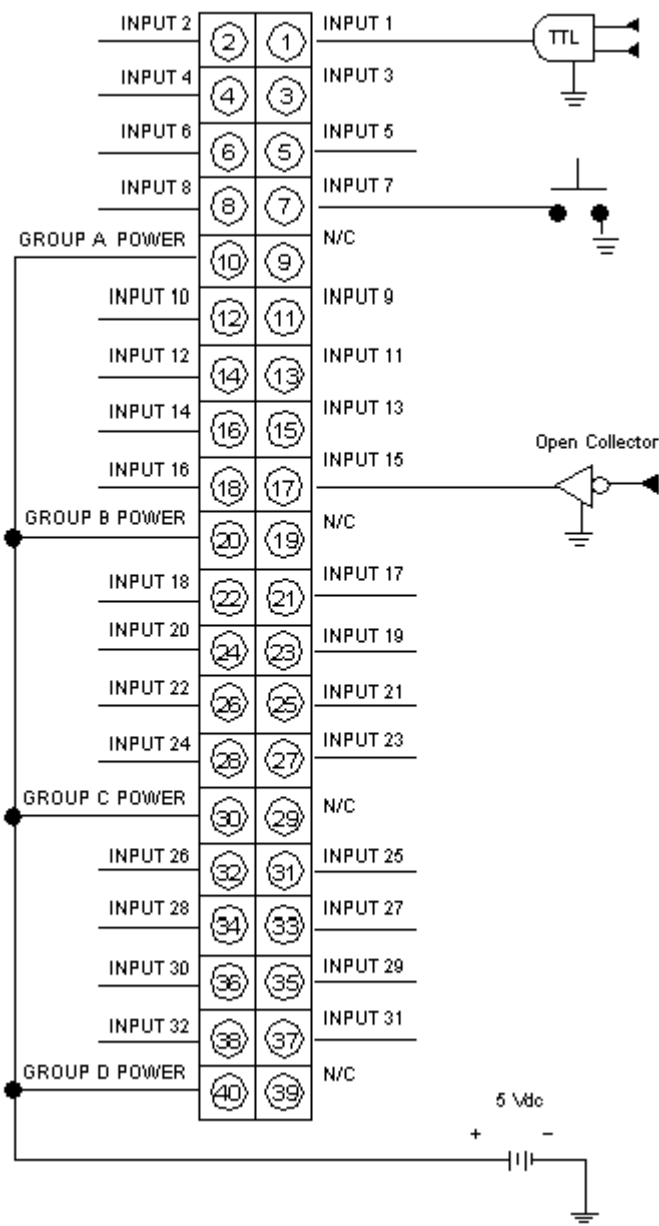


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

5 Vdc Discrete Input Source Module

Wiring Diagram



N/C Not Connected