Product data sheet

Specifications



discrete input module Modicon Quantum - 16 I - 10..60 V DC

140DDI84100

Discontinued - Service only

Discontinued on: Dec 31, 2022

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

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

Main

Range of Product	Modicon Quantum automation platform
Product or Component Type	Dc discrete input modules
Discrete input number	16

Complementary

Group of channels	8
Logic input	Positive (sink)
Input voltage limits	10...60 V
Input voltage	12 V 5…10 mA DC 24 V 6…30 mA DC 48 V 2…15 mA DC 60 V 1…5 mA DC
Voltage state 1 guaranteed	11...24 V 24 V +/- 20 % 34...48 V 48 V +/- 20 % 45...60 V 60 V +/- 20 % 9...12 V 12 V +/- 5 %
Voltage state 0 guaranteed	0...1.8 V 12 V +/- 5 % 0...10 V 48 V +/- 20 % 0...5 V 24 V +/- 20 % 0...9 V 60 V +/- 20 %
Absolute maximum voltage	75 V
Addressing requirement	1 input word
Response Time	4 ms from state 0 to state 1 4 ms from state 1 to state 0
Switching frequency	<= 100 Hz
Isolation between group and bus	2500 Vrms DC for 1 minute
Isolation between group	700 Vrms DC for 1 minute
Power dissipation	1 W + (0.62 x number of points on)
Marking	CE
Local signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault detected (F) 16 LEDs (green) for input status
Bus current requirement	200 mA
Module format	Standard
Product Weight	0.7 lb(US) (0.3 kg)

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

Environment

Standards	UL 508 CSA C22.2 No 142
Product Certifications	FM Class 1 Division 2 C-tick
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)

Ordering and shipping details

Category	US1PC2118155
Discount Schedule	PC21
GTIN	3595861000094
Returnability	Yes

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.83 in (4.64 cm)
Package 1 Width	6.55 in (16.64 cm)
Package 1 Length	12.29 in (31.21 cm)
Package weight(Lbs)	0.97 lb(US) (0.44 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Height	11.8 in (30 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	8.265 lb(US) (3.749 kg)

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	Compliant
California proposition 65	WARNING: 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 www.P65Warnings.ca.gov

Use Longer

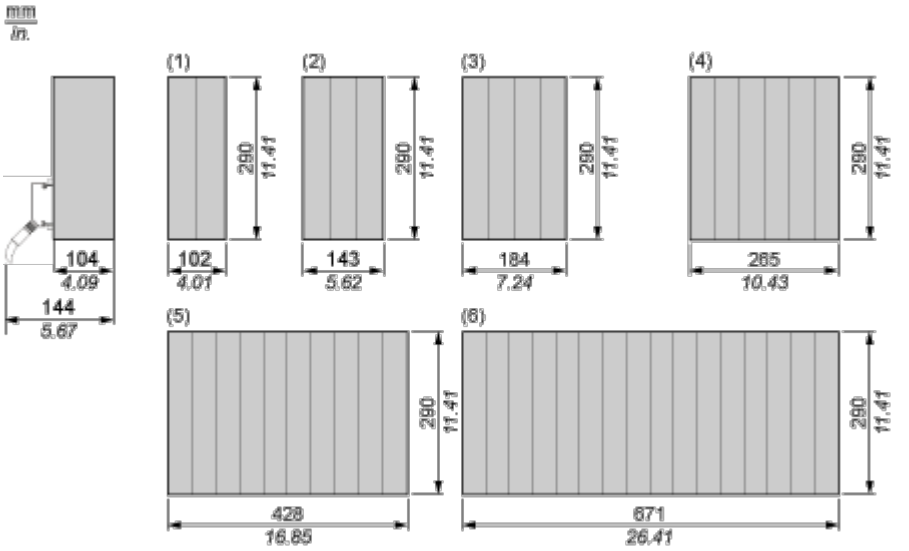
Lifetime extension

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

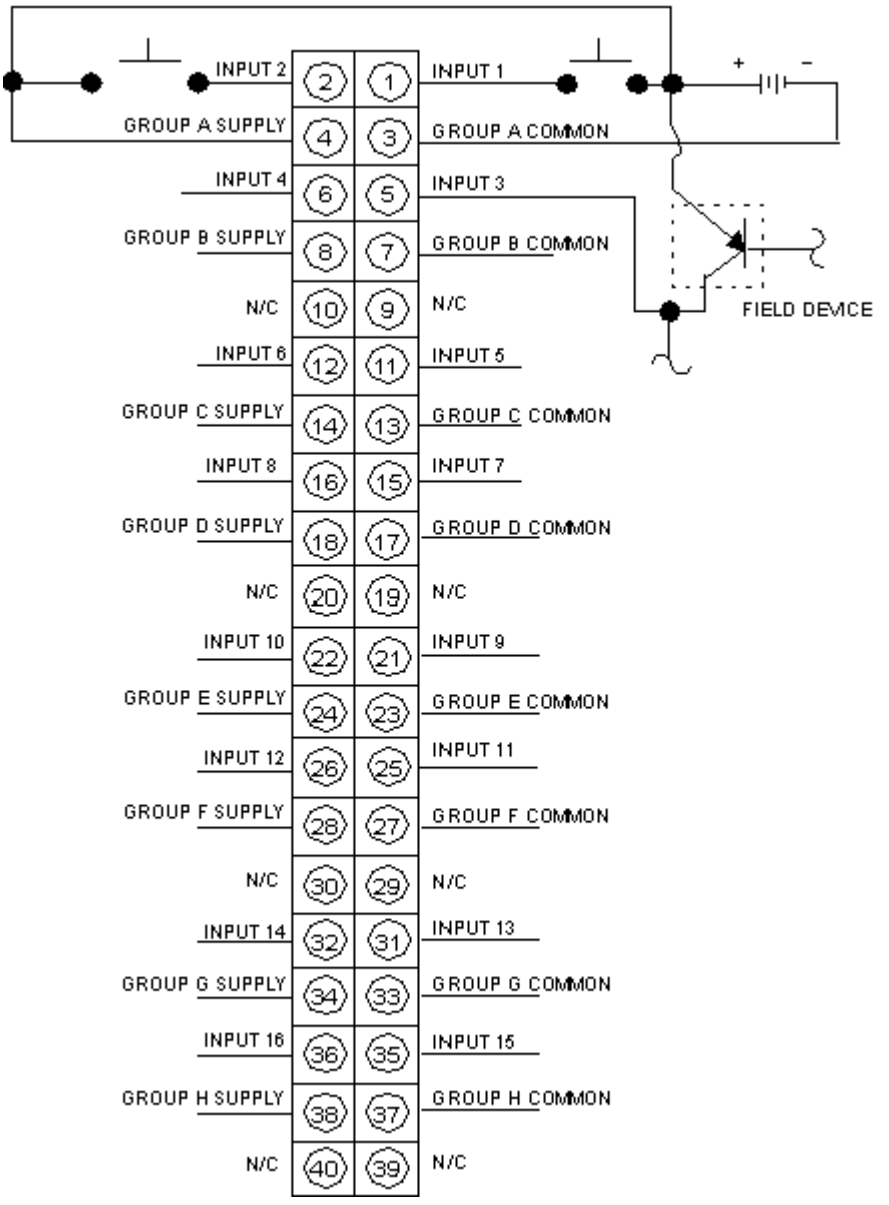
(5) 10 slots

(6) 16 slots

Connections and Schema

60 Vdc Discrete Input Sink Module

Wiring Diagram



N/C Not Connected