Product data sheet

Specifications

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

140DDI84100C

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	Bus communication is present (Active) 1 LED green) External fault detected (F) 1 LED red) Input status 16 LEDs green)
Bus Current Requirement	200 mA
Module Format	Standard
Net Weight	0.66 lb(US) (0.3 kg)

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

Protective Treatment	Conformal coating Humiseal 1A33
Standards	CSA C22.2 No 142 UL 508
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	9.14 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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.42 in (16.3 cm)
Package 1 Width	1.77 in (4.5 cm)
Package 1 Length	12.28 in (31.2 cm)
Package 1 Weight	16.51 oz (468.0 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	2.65 lb(US) (1.2 kg)

Contractual warranty

Warranty	18 months

Sustainability

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

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Guide to assess a product's sustainability >

RoHS/REACh

Well-being performance

Reach Free Of Svhc	
Mercury Free	
Rohs Exemption Information	Yes

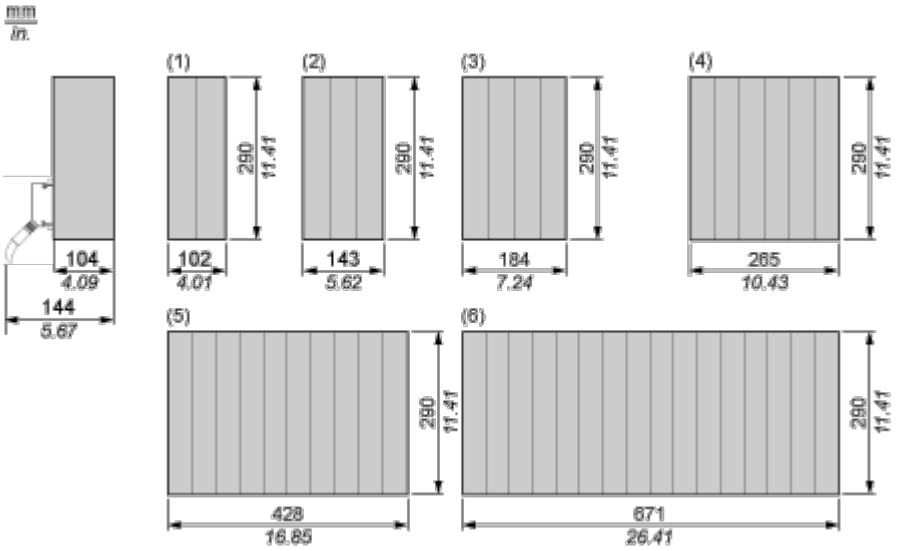
Certifications & Standards

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

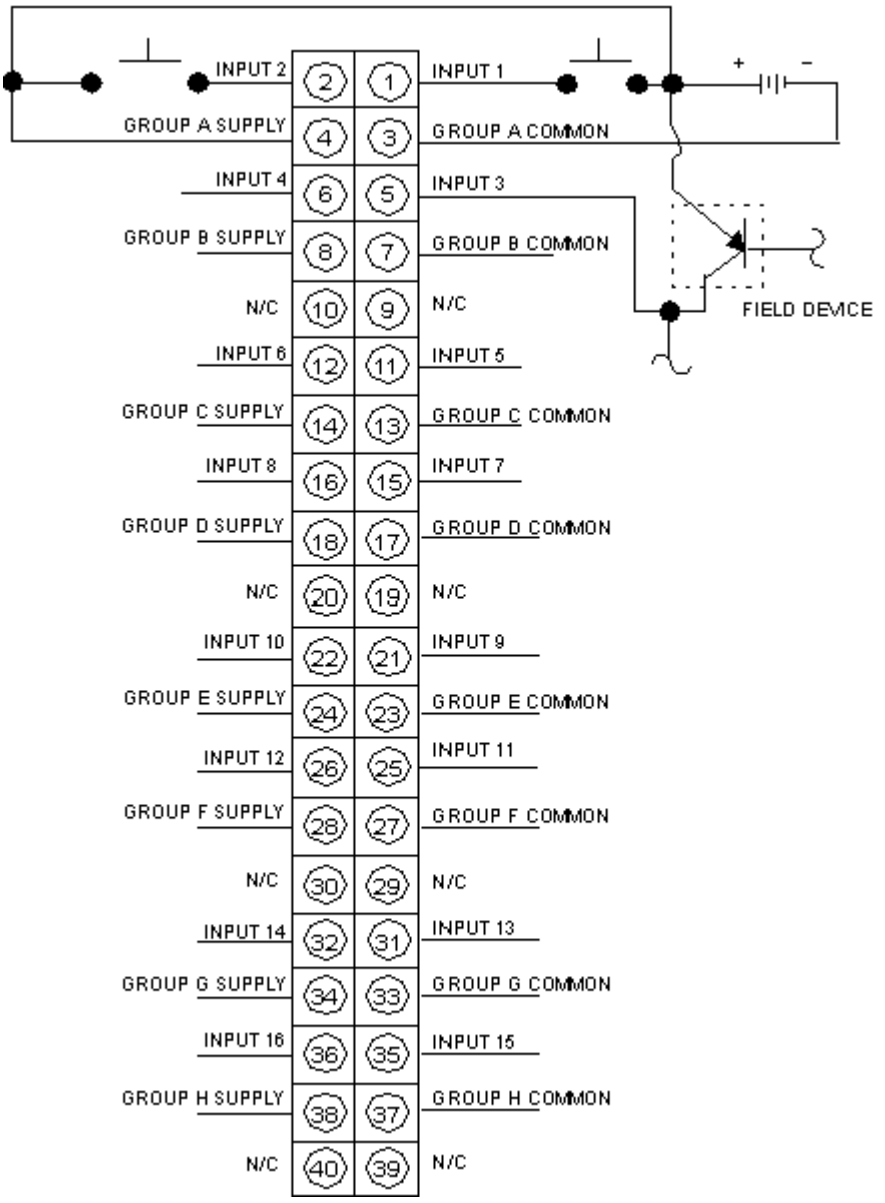
(5) 10 slots

(6) 16 slots

Connections and Schema

60 Vdc Discrete Input Sink Module

Wiring Diagram



N/C Not Connected