Product datasheet

Specifications





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

140DDI84100

- () Discontinued on: 31 Dec 2022
- () To be end-of-service on: 31 Dec 2030

① Discontinued - Service only

Main

Range Of Product	Modicon Quantum automation platform
Product Or Component Type	Dc discrete input modules
Discrete Input Number	16

Complementary

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Group Of Channels	8
Logic Input	Positive (sink)
Input Voltage Limits	1060 V
Input Voltage	12 V 510 mA DC 24 V 630 mA DC 48 V 215 mA DC 60 V 15 mA DC
Voltage State 1 Guaranteed	1124 V 24 V +/- 20 % 3448 V 48 V +/- 20 % 4560 V 60 V +/- 20 % 912 V 12 V +/- 5 %
Voltage State 0 Guaranteed	01.8 V 12 V +/- 5 % 010 V 48 V +/- 20 % 05 V 24 V +/- 20 % 09 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
Net Weight	0.3 kg

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 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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.64 cm
Package 1 Width	16.64 cm
Package 1 Length	31.21 cm
Package 1 Weight	0.44 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	7
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	3.749 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

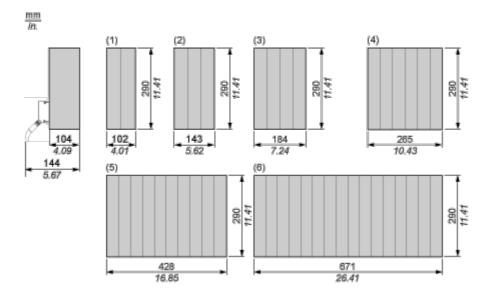
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

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Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

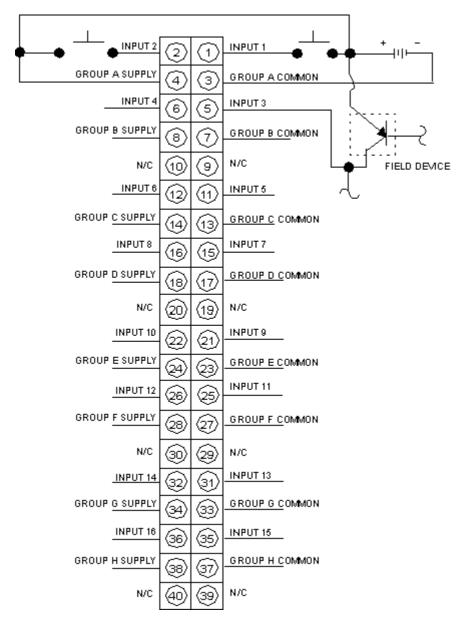


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

60 Vdc Discrete Input Sink Module

Wiring Diagram



N/C Not Connected