

Product data sheet

Specifications



discrete input module Modicon Quantum - 96 I - 24 V DC

140DDI36400

⚠ Discontinued on: 7 Dec 2022

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

⚠ Discontinued - Service only

Main

Range of product	Modicon Quantum automation platform
Product or component type	Low voltage dc discrete input modules
Discrete input number	96

Complementary

Group of channels	6
Logic input	Positive (sink)
Discrete input voltage	24 V DC
Input voltage limits	19.2...30 V
Voltage state 1 guaranteed	15...30 V DC
Voltage state 0 guaranteed	5 V DC
Current state 1 guaranteed	>= 2.5 mA
Current state 0 guaranteed	>= 0.7 mA
Addressing requirement	6 words
Input impedance	6700 Ohm
Absolute maximum input	30 V continuous 50 V decaying pulse
Response time	<= 2 ms from state 0 to state 1 <= 3 ms from state 1 to state 0
Power dissipation	1.35 W + (0.13 x number of points on)
Isolation between group	500 Vrms for 1 minute
Local signalling	1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault detected (F) 96 LEDs (green) for input status
Marking	CE
Bus current requirement	270 mA
Module format	Standard
Product weight	0.3 kg

Environment

Standards	CSA C22.2 No 142 UL 508
Product certifications	FM Class 1 Division 2 C-Tick

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

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 80...2000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-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	16.3 cm
Package 1 Width	4.5 cm
Package 1 Length	31.2 cm
Package 1 Weight	520.0 g

Contractual warranty

Warranty (in months)	18
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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

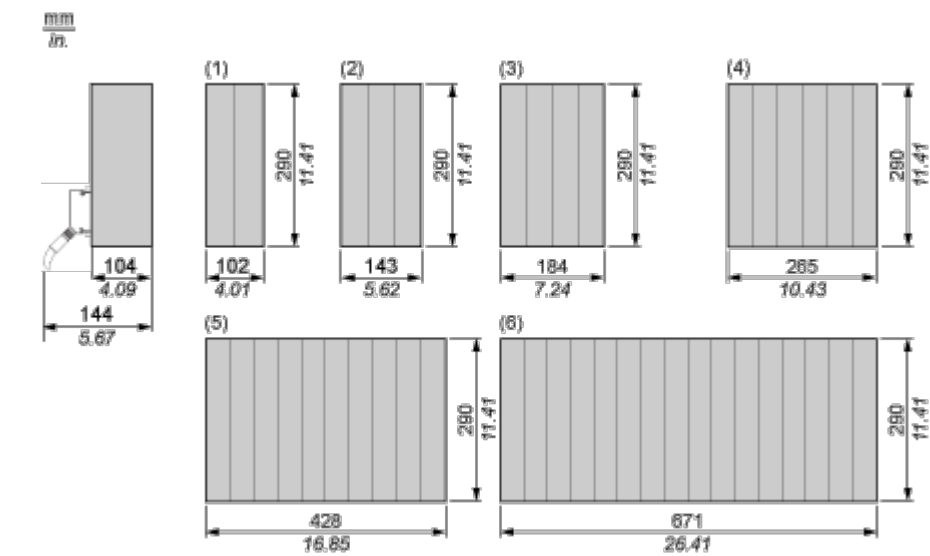
Use Longer

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

24 Vdc 6x16 Input Module

6 Groups of 16 Inputs A...F (6 x HE 10 Connectors)

